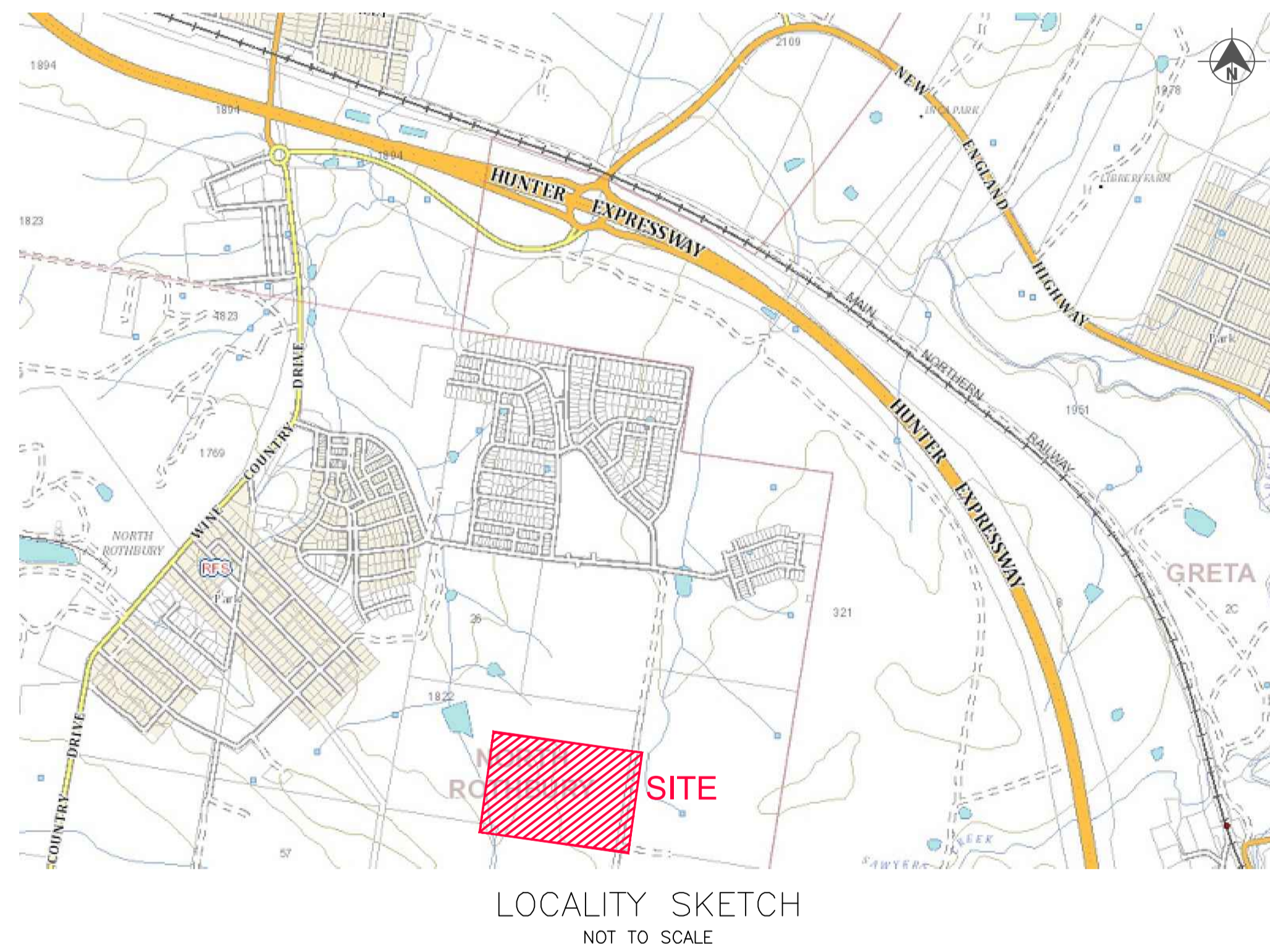




PROPOSED SUBDIVISION STAGE 23 FERRY PARADE, HUNTLEE



DRAWING INDEX	
Sheet Title	Sheet Description
240037(23)-WAC-001	COVER SHEET, LOCALITY PLAN & DRAWING INDEX
240037(23)-WAC-002	GENERAL NOTES
240037(23)-WAC-003	OVERALL SITE PLAN
240037(23)-WAC-004	POTABLE WATER DETAIL PLAN - SHEET 1
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240037(23)-WAC-007	POTABLE WATER DETAIL PLAN - SHEET 4
240037(23)-WAC-008	NOT USED
240037(23)-WAC-009	RECYCLED WATER DETAIL PLAN - SHEET 1
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240037(23)-WAC-014	PRESSURE SEWER DETAIL PLAN - SHEET 1
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240037(23)-WAC-016	PRESSURE SEWER DETAIL PLAN - SHEET 3
240037(23)-WAC-017	PRESSURE SEWER DETAIL PLAN - SHEET 4
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240037(23)-WAC-020	TYPICAL SERVICE CONNECTION DETAILS
240037(23)-WAC-021	WASTE WATER COLLECTION TANK LEVEL DETAILS
240037(23)-WAC-022	THRUST BLOCK DETAILS

WORK AS CONSTRUCTED

THESE DRAWINGS ARE AN ACCURATE REPRESENTATION AS AT 24/09/2021 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 *MatheW* DATE 30/09/2021 SIGNED DATE
 REGISTERED SURVEYOR CONSTRUCTION MANAGER

ORIGIN OF W.A.C. LEVELS

PM 20029 Co-Ord System: MGA Ground
 E: 345 612.942 MGA Datum: GDA94
 N: 6 382 878.917 MGA Zone: 56
 RL: 77.675m

APPROVED FOR CONSTRUCTION
BY ADW Johnson Pty Ltd
Date Approved: 25/03/2021

AS CONSTRUCTED

100mm AT FULL SIZE

REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY	SCALES
A	05.02.2021	PRELIMINARY ISSUE	G.S.	J.N.	T.S.	C.B.	
B	19.02.2021	CLIENT COMMENTS	G.S.	T.S.	T.S.	C.B.	
C	01.03.2021	UPDATED DESIGN TIN, STREET PRESSURE MAIN TYPICAL DETAIL	G.S.	T.S.	T.S.	C.B.	
D	22.03.2021	ALTOGETHER COMMENTS	T.S.	T.S.	T.S.	C.B.	
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2	30.09.2021	WORK AS CONSTRUCTED	I.B.	C.B.	T.S.	C.B.	

<p>Hunter Office Unit 7/335 Hillsborough Rd Warners Bay N.S.W. 2282 Phone: (02) 4978 5100 Fax: (02) 4978 5199 email: hunter@adwjohnson.com.au www.adwjohnson.com.au ABN 62 129 445 398</p>		CLIENT PROPOSED SUBDIVISION STAGE 23 FERRY PARADE, HUNTLEE	PROJECT POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION PLAN TITLE TITLE SHEET PROJECT No. 240037(23) DISCIPLINE - WAC - NUMBER 001 REV. 2 SURVEYED ADW Johnson DATUM A.H.D.
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DESIGN FILE N:\ ALL DIMENSIONS ARE IN METRES. DO NOT SCALE
 Plotted By: iainb Plot Date: 30/09/21 - 18:11 Cad File: C:\Users\jainb\AppData\Local\Temp\AcPublish_8288\Unsaved Drawing1.dwg

PRESSURE SEWER NOTES:

- ALL WORKS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE DESIGN DRAWINGS, ALTOGETHER SUPPLEMENTARY MANUAL TO WSA, PRESSURE SEWERAGE CODE OF AUSTRALIA - WSA 07-2007 VERSION 1.1 AND POLYETHYLENE PIPELINE CODE WSA 01-2004.
- ALL EQUIPMENT, MATERIALS AND ACCESSORIES USED IN THIS CONTRACT SHALL BE NEW AND SHALL COMPLY WITH ALTOGETHER REQUIREMENTS. BUTT FUSION FITTINGS DENOTED HEREWITH HAVE BEEN DERIVED FROM THE GEORG FISCHER PIPING SYSTEMS BUTT FUSION PRODUCT RANGE. ELECTROFUSION FITTINGS DENOTED HEREWITH HAVE BEEN DERIVED FROM THE PLASSON "POLYETHYLENE PIPING SYSTEMS" PRODUCT RANGE.
- ALL SERVICES SHOWN ARE INDICATIVE ONLY. A CURRENT SERVICES SEARCH AND SITE CHECK OF ALL EXISTING SERVICES WILL BE REQUIRED PRIOR TO COMMENCEMENT OF ANY WORKS. THE CONSTRUCTOR IS TO DETERMINE LEVELS AND LOCATIONS OF ALL EXISTING SERVICES IN THE VICINITY OF THE CONSTRUCTION SITE AND ANY CONSTRUCTED STRUCTURES FOR PROPOSED SERVICES, SUCH AS DUCTING FOR WATER OR ELECTRICITY WITHIN THE SUBDIVISION. THE CONTRACTOR MUST ENSURE ALL SERVICES ARE LOCATED BY THE RELEVANT AUTHORITY PRIOR TO COMMENCEMENT OF WORKS.
- PRESSURE SEWER MAINS SHALL BE BLACK POLYETHYLENE (PE100 PN16) WITH A CREAM STRIPE AS PER WSA 02-2007 AND ALTOGETHER SUPPLEMENTARY MANUAL TO WSA.
- ALL POLYETHYLENE MAINS ≤ DN200 SHALL BE JOINED USING ELECTROFUSION JOINTING TECHNIQUES IN ACCORDANCE WITH MANUFACTURERS REQUIREMENTS. ALL POLYETHYLENE MAINS ≥ DN200 SHALL BE JOINED USING BUTTWELD JOINTING TECHNIQUES IN ACCORDANCE WITH MANUFACTURERS REQUIREMENTS.
- MAIN TO BE LAID GENERALLY AS INDICATED IN SERVICE ALLOCATION DIAGRAMS. INSTRUCTION NOTES SHALL TAKE PRECEDENCE OVER DIAGRAMS WHERE PROVIDED. 600mm HORIZONTAL CLEARANCE TO BE MAINTAINED BETWEEN ALL SEWER AND WATER MAINS. MINIMUM PIPE COVER SHALL BE 800mm IN FOOTWAYS AND 1000mm IN ROADWAYS. MAXIMUM PIPE COVER SHALL 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.
- MAINS CROSSING UNDER EXISTING DRIVEWAYS (SEALED, PAVED OR DECORATIVE) SHALL BE CONDUCTED BY UNDER BORING ONLY UNLESS PERMISSION IS GRANTED BY THE AFFECTED PROPERTY OWNER.
- MAINS WITHIN 2.0m OF ELECTRICITY OR POWER POLES SHALL BE CONDUCTED BY BORING TECHNOLOGY (UNLESS AGREED TO BY THE ALTOGETHER REPRESENTATIVE).
- ALL PIPE BEDDING MATERIAL SHALL COMPLY WITH WSA PRODUCT SPECIFICATION WSA-PS350 AND WSA-PS351.
- ALL BENDS SHALL BE ELECTROFUSION OR BUTT WELD SWEEP BENDS. FABRICATED BENDS SHALL NOT BE USED IN LIEU. KNUCKLE ELBOWS ARE NOT PERMITTED.
- MINIMUM BENDING RADIUS FOR PN16 PE100 (SDR11) SHALL BE 20 x DN. (i.e. DN400 : R8.0m, DN250 : R5.0m, DN200 : R4.0m, DN160 : R3.2m, DN125 : R2.5m, DN90 : R1.8m, DN75 : R1.5m, DN63 : R1.3m, DN50 : R1.0m, DN40 : R0.8m).
- ALL HOUSE SERVICE LATERALS SHALL BE DN40 (PE100 PN16).
- FLUSHING PITS SHALL CONFORM WITH ALTOGETHER STANDARD DRAWINGS. REFER TO ALTOGETHER WEBSITE FOR CURRENT VERSION. SMALL MAINS (≤ DN110) http://information.altogethergroup.com.au/governance/Land_Housing/PSS-1017A-FS.pdf LARGE MAINS (> DN110) http://information.altogethergroup.com.au/governance/Land_Housing/PSS-1017B-FS.pdf
- LOCALISED DEEPENING OF MAINS MAY BE REQUIRED TO FACILITATE AIR VALVE INSTALLATION. THE CONTRACTOR SHALL ENSURE THAT THE AIR VALVE OFFTAKE IS LOCATED AT A HIGH POINT (NATURAL OR ARTIFICIAL) IN THE MAIN (i.e. MAIN SHALL GRADE DOWNWARDS EITHER SIDE OF THE AIR VALVE).
- DETECTABLE MARKING TAPE SHALL BE LAID ON TOP OF THE PIPE EMBEDMENT MATERIAL BEFORE BACKFILLING AND CONNECTED TO SURFACE FITTINGS.
- ALL SURFACE FITTINGS LOCATED IN TRAFFICABLE AREAS (i.e. ROADWAYS, PATHS etc.) SHALL HAVE HEAVY DUTY SURROUNDS INSTALLED.
- DURING CONSTRUCTION, ALL OPEN ENDS OF PIPE SHALL BE CAPPED OFF TO PREVENT ENTRY OF FOREIGN MATTER.
- ALL VALVES SHALL BE RESILIENT SEATED SLUICE VALVES (CLOCKWISE CLOSING), SHALL BE RESTRAINED IN ACCORDANCE WITH WAT-1207 AND SHALL COMPLY WITH ALTOGETHER STANDARD DRAWING PSS-1015-FS.
- ALL MAINS SHALL BE TESTED IN ACCORDANCE WITH WSA 07-2007 VERSION 1.1.
- FOR LOTS WITH TANKS IN THE REAR 1 x #25mm INSTRUMENTATION CONDUIT (ORANGE) AND 1 x #25mm ELECTRICAL CONDUIT (ORANGE)(WITH DRAW WIRES) SHALL BE INSTALLED FROM THE COLLECTION TANK TO WATER METERS. THE CONDUITS SHALL BE LAID IN A COMMON TRENCH WITH THE SEWERAGE AND MAINTAIN A MINIMUM HORIZONTAL CLEARANCE OF 400mm. (REFER TO ALTOGETHER STANDARD DRAWINGS FOR SETOUT DIMENSIONS).
- THE CONSTRUCTOR SHALL PROVIDE HUNTLEE WATER WITH MINIMUM OF 7 DAYS NOTICE IN WRITING OF INTENT TO CONNECT NEW MAINS TO EXISTING INFRASTRUCTURE. CONNECTIONS ARE NOT PERMITTED UNTIL COMPLIANT TEST RESULTS HAVE BEEN PROVIDED AND CONFIRMATION IS PROVIDED BY THE ALTOGETHER REPRESENTATIVE.
- UPON COMPLETION OF WORKS, ALL SURFACES MUST BE RESTORED AS CLOSE AS POSSIBLE, TO THE CONDITION HAT EXISTED PRIOR TO COMMENCEMENT OF WORKS.
- PERMISSION OF ENTRY MUST BE OBTAINED BY THE CONTRACTOR FROM THE OWNER/OCCUPIER PRIOR TO COMMENCEMENT OF WORK IN PRIVATE PROPERTY.
- BURIED FITTINGS ARE NOT TO BE BACKFILLED UNTIL W.A.C. DETAILS HAVE BEEN OBTAINED AND APPROVAL FOR BACKFILLING GIVEN BY THE ALTOGETHER REPRESENTATIVE. THE CONTRACTOR SHALL PROVIDE M.G.A. COORDINATED WORK-AS-CONSTRUCTED INFORMATION REGARDING THE INSTALLATION OF ALL BURIED FITTINGS.
- THE MINIMUM NUMBER OF COMPACTION TESTS REQUIRED TO SATISFY THE PRESSURE SEWER CODE OF AUSTRALIA (CLAUSE 213.4) ARE:
TRAFFICABLE
PIPE EMBEDMENT ZONE: NIL TRENCH FILL ZONE: 1 TEST/300mm LAYER OF FILL AT EACH ROAD CROSSING.
NON-TRAFFICABLE
PIPE EMBEDMENT ZONE: NIL TRENCH FILL ZONE: 1 TEST/900mm OF FILL AND EACH 100 LINEAL METRES OF PIPE.
- BOUNDARY KITS (COMPLETE) SHALL BE NOV SUPPLIED (NOV PSS-BK4). e one COLLECTION TANK (ESD 20-0032/ESD 20-0033) SHALL BE INSTALLED WITH BOUNDARY KIT (REFER ALTOGETHER STANDARD DRAWINGS PSS-1112-FS AND PSS-1113-FS). PUMP TO BE INSTALLED BY OTHERS.
- ALL MAINS (UP TO THE BOUNDARY KIT) SHALL BE PRESSURE TESTED TO 1600 kPa. ALL LINES FROM THE WASTEWATER COLLECTION TANK TO THE MANUAL ISOLATION VALVE WITHIN THE BOUNDARY KIT TO BE PRESSURE TESTED TO 1000kPa.
- ALL MAINS SHALL BE FLUSHED WITH WATER TO REMOVE ANY DEBRIS PRIOR TO COMMISSIONING.
- SURFACE IDENTIFICATION MARKERS ARE TO BE PROVIDED TO ALTOGETHER REQUIREMENTS.
- ROPE OFF ALL PRESSURE SEWER UNITS AND FLUSHING POINTS TO LIMIT DAMAGE DURING CONSTRUCTION.
- PRESSURE TRANSMITTER TO BE MEASUREX MRB21 GENERAL PURPOSE TRANSMITTER WITH MICROSPIDER LOGGING TELEMETRY AND ALARM PER ALTOGETHER REQUIREMENTS.
- WORK-AS-CONSTRUCTED DOCUMENTATION SHALL BE PROVIDED BY THE CONTRACTOR STRICTLY IN ACCORDANCE WITH THE ALTOGETHER Q.A. SUBMISSION CHECKLIST.

POTABLE WATER AND RECYCLED WATER NOTES:

- ALL WORKS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE DESIGN DRAWINGS, ALTOGETHER SUPPLEMENTARY MANUAL TO WSA AND WSA 03-2011-3.1 (SYDNEY WATER EDITION 2014).
 - POTABLE WATER SHALL BE UTILISED FOR FIRE FIGHTING PURPOSES.
 - ALL EQUIPMENT, MATERIALS AND ACCESSORIES USED IN THIS CONTRACT SHALL BE NEW, SHALL CONFORM TO THE APPROPRIATE CURRENT AUSTRALIAN STANDARDS AND SHALL COMPLY WITH ALTOGETHER REQUIREMENTS.
 - ALL SERVICES SHOWN ARE INDICATIVE ONLY. A CURRENT SERVICES SEARCH AND SITE CHECK OF ALL EXISTING SERVICES WILL BE REQUIRED PRIOR TO COMMENCEMENT OF ANY WORKS. THE CONSTRUCTOR IS TO DETERMINE LEVELS AND LOCATIONS OF ALL EXISTING SERVICES IN THE VICINITY OF THE CONSTRUCTION SITE AND ANY CONSTRUCTED STRUCTURES FOR PROPOSED SERVICES, SUCH AS DUCTING FOR WATER OR ELECTRICITY WITHIN THE SUBDIVISION. THE CONTRACTOR MUST ENSURE ALL SERVICES ARE LOCATED BY THE RELEVANT AUTHORITY PRIOR TO COMMENCEMENT OF WORKS.
 - THE CONSTRUCTOR SHALL VERIFY WITH THE SITE SUPERVISOR THE POSITION AND LEVEL OF ALL EXISTING AND PROPOSED BOUNDARIES PERTINENT TO THE INFRASTRUCTURE INSTALLATIONS.
 - MAIN TO BE LAID GENERALLY AS INDICATED IN SERVICE ALLOCATION DIAGRAMS. INSTRUCTION NOTES SHALL TAKE PRECEDENCE OVER DIAGRAMS WHERE PROVIDED. 600mm HORIZONTAL CLEARANCE TO BE MAINTAINED BETWEEN ALL SEWER AND WATER MAINS. MINIMUM PIPE COVER SHALL BE 600mm IN FOOTWAYS (TYPE B EMBEDMENT: WAT-1202-V) AND 800mm IN ROADWAYS (TYPE L EMBEDMENT: WAT-1204-V). MAXIMUM PIPE COVER SHALL GENERALLY BE 1500mm. WHERE COVER FOR A TRENCHED INSTALLATION EXCEEDS 1500mm BUT LESS THAN 2500mm THE MAIN AS A MINIMUM SHALL BE EMBEDDED IN STABILISED SAND. THE CONTRACTOR SHALL ENSURE THAT ALL RECYCLED WATER MAINS AND PRESSURE SEWER MAINS HAVE SUFFICIENT VERTICAL SEPARATION AS PER THE CLEARANCE TABLE ADJACENT.
 - ALL POTABLE WATER MAINS TO BE BLUE PVC-M (PN16). ALL RECYCLED WATER MAINS SHALL BE LILAC PVC-M (PN16). DIFFERENTIATION OF POTABLE AND RECYCLED WATER SYSTEMS SHALL BE AS PER TABLE 4.1 WSA03-2011 WITH BOTH SERVICES BEING CLASSIFIED AS WATER MAINS. RECYCLED WATER MAINS SHALL ALWAYS BE LOWER THAN POTABLE WATER MAINS. 150mm VERTICAL CLEARANCE BETWEEN POTABLE WATER AND RECYCLED WATER MAINS SHALL BE PROVIDED.
 - MAXIMUM JOINT DEFLECTIONS TO BE IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS.
 - LOCALLY LOWER PIPEWORK IN VICINITY OF STOP VALVES TO ENSURE SUFFICIENT COVER IS MAINTAINED OVER VALVES. LOWERING OF PIPEWORK SHALL BE ACHIEVED OVER A NUMBER OF PIPE LENGTHS EITHER SIDE OF VALVES TO ELIMINATE ANY SHARP DEFLECTIONS.
 - ALL PIPE BEDDING MATERIAL SHALL COMPLY WITH WSA PRODUCT SPECIFICATION PS-350, 368 AND 369. GEOTECHNICAL CONDITIONS SHOULD BE ASSESSED DURING CONSTRUCTION BY THE CONTRACTOR IN ASSOCIATION WITH THE ALTOGETHER REPRESENTATIVE TO DETERMINE THE NEED TO MODIFY EMBEDMENT/TRENCHFILL TYPE AND THE NEED FOR TRENCH DRAINAGE/BULKHEADS.
 - DURING CONSTRUCTION, ALL OPEN ENDS OF PIPES SHALL BE CAPPED OFF TO PREVENT ENTRY OF FOREIGN MATTER.
 - HYDRANTS, STOP VALVES AND ALL OTHER FITTINGS TO BE THE SAME SIZE AS THE THROUGH WATER MAIN AND ANTI CLOCKWISE CLOSING.
 - HYDRANTS MUST NOT BE INSTALLED IN POTENTIAL DRIVEWAY LOCATIONS. HYDRANTS AND WATER SERVICES SHALL BE NOMINALLY AT LEAST 5.0m FROM EACH BOUNDARY OR ON BOUNDARIES. WHERE POSSIBLE, FITTINGS SHALL BE LOCATED BEHIND KERB INLET PITS.
 - THRUST BLOCKS SHALL BE INSTALLED IN ACCORDANCE WITH WAT-1205.
 - ALL PROPERTY (MAIN TO METER) SERVICE CONNECTIONS SHALL BE CONSTRUCTED STRICTLY IN ACCORDANCE WITH ALTOGETHER REQUIREMENTS. REFER TO ALTOGETHER WEBSITE FOR CURRENT VERSION. SINGLE SERVICE: http://information.altogethergroup.com.au/governance/Land_Housing/WAT-1854-FS.pdf DUAL SERVICE: http://information.altogethergroup.com.au/governance/Land_Housing/WAT-1855-FS.pdf
 - PROPERTY SERVICE CONNECTION IS SHALL BE FLUSHED AND LOCKED (BY THE ALTOGETHER REPRESENTATIVE) FOLLOWING SUCCESSFUL PRESSURE TESTING.
 - SURFACE FITTINGS LOCATED IN TRAFFICABLE AREAS (i.e. ROADWAYS, PATHS etc.) SHALL HAVE HEAVY DUTY SURROUNDS INSTALLED.
 - ALL MAINS SHALL BE PRESSURE TESTED TO 1500kPa IN ACCORDANCE WITH CLAUSE 19.4 OF WSA03-2011 (SYDNEY WATER EDITION 2014).
 - ALL MAINS SHALL BE FLUSHED WITH WATER TO REMOVE ANY DEBRIS PRIOR TO COMMISSIONING.
 - WATER QUALITY TESTING SHALL BE IN ACCORDANCE WITH WSA 03-2011-3.1 (SYDNEY WATER EDITION-2014. (CLAUSE 19.7)).
 - THE CONSTRUCTOR SHALL PROVIDE HUNTLEE WATER WITH MINIMUM OF 7 DAYS NOTICE IN WRITING OF INTENT TO CONNECT NEW MAINS TO EXISTING INFRASTRUCTURE. CONNECTIONS ARE NOT PERMITTED UNTIL COMPLIANT TEST RESULTS HAVE BEEN PROVIDED AND CONFIRMATION IS PROVIDED BY THE ALTOGETHER REPRESENTATIVE.
 - UPON COMPLETION OF WORKS, ALL SURFACES MUST BE RESTORED AS CLOSE AS POSSIBLE, TO THE CONDITION HAT EXISTED PRIOR TO COMMENCEMENT OF WORKS.
 - PERMISSION OF ENTRY MUST BE OBTAINED BY THE CONTRACTOR FROM THE OWNER/OCCUPIER PRIOR TO COMMENCEMENT OF WORK IN PRIVATE PROPERTY.
 - BURIED FITTINGS ARE NOT TO BE BACKFILLED UNTIL W.A.C. DETAILS HAVE BEEN OBTAINED AND APPROVAL FOR BACKFILLING GIVEN BY THE ALTOGETHER REPRESENTATIVE. THE CONTRACTOR SHALL PROVIDE M.G.A. COORDINATED WORK-AS-CONSTRUCTED INFORMATION REGARDING THE INSTALLATION OF ALL BURIED FITTINGS.
 - MINIMUM NUMBER OF COMPACTION TESTS REQUIRED TO SATISFY WSA03-2011 (SYDNEY WATER EDITION 2014) (CLAUSE 19.3.5):
TRAFFICABLE
PIPE EMBEDMENT ZONE: NIL TRENCH FILL ZONE: 1 TEST/300mm LAYER OF FILL AT EACH ROAD CROSSING.
NON-TRAFFICABLE
PIPE EMBEDMENT ZONE: NIL TRENCH FILL ZONE: 1 TEST/900MM OF FILL AND EACH 100 LINEAL METERS OF PIPE.
PROPERTY SERVICES
TEST 1 OF EVERY 5 PROPERTY SERVICE TRENCHES.
TESTING SHALL BE IN ACCORDANCE WITH TABLE 16.1 AND 17.1 OF THE WATER SUPPLY CODE OF AUSTRALIA.
 - SURFACE IDENTIFICATION MARKERS ARE TO BE PROVIDED TO ALTOGETHER REQUIREMENTS.
 - PRESSURE TRANSMITTER TO BE MEASUREX MRB21 GENERAL PURPOSE TRANSMITTER WITH MICROSPIDER LOGGING TELEMETRY AND ALARM PER ALTOGETHER REQUIREMENTS.
 - WORK-AS-CONSTRUCTED DOCUMENTATION SHALL BE PROVIDED BY THE CONTRACTOR STRICTLY IN ACCORDANCE WITH THE ALTOGETHER Q.A. SUBMISSION CHECKLIST.
 - WHERE THE PIPE GRADE EXCEEDS 5%, TRENCHSTOPS SHALL BE CONSTRUCTED IN ACCORDANCE WITH WAT-1209 AND WAT-1210 AT THE SPACING OF 100/GRADE%. WHERE PIPE GRADES EXCEED 15%, CONCRETE BULKHEADS WILL BE CONSTRUCTED AT SPACING AS PER TABLE 7.5 OF WSA03-2001 SYDNEY WATER EDITION 2014.
- ALTOGETHER STANDARD DRAWINGS CAN BE FOUND AT THE FOLLOWING ADDRESS:
<https://askus.altogethergroup.com.au/hc/en-us/articles/900004827263-Standard-drawings-for-land-developers>

GENERAL NOTES:

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

CLEARANCES BETWEEN PIPELINES AND UNDERGROUND SERVICES

UTILITY (EXISTING OR PROPOSED SERVICE)	MINIMUM HORIZONTAL CLEARANCE (mm)		MINIMUM VERTICAL CLEARANCE (mm)
	NEW MAIN SIZE		
	≤ DN200	≥ DN200	
WATER MAINS > DN375	600	60	300
WATER MAINS < DN375	300*	600	150
GAS MAINS	300*	600	150
TELECOMMUNICATION CONDUITS AND CABLES	300*	600	150
ELECTRICITY CONDUITS AND CONDUITS	200	1000	225*
STORMWATER DRAINS	300*	600	150*
SEWERS (GRAVITY)	1000* / 600	1000* / 600	500*
SEWERS (PRESSURE AND VACUUM)	600	600	300*
KERBS	150	600*	150 (WHERE POSSIBLE)

NOTES:

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

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

WORK AS CONSTRUCTED

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COMPANY ADW Johnson Pty Ltd COMPANY
NAME MATHEW DAVID LONDON NAME
SIGNED *matthew* DATE 30/09/2021 SIGNED _____ DATE _____
REGISTERED SURVEYOR CONSTRUCTION MANAGER

ORIGIN OF W.A.C. LEVELS

PM 20029 Co-Ord System: MGA Ground
E: 345 612.942 MGA Datum: GDA94
N: 6 382 878.917 MGA Zone: 56
RL: 77.675m

APPROVED FOR CONSTRUCTION
BY ADW Johnson Pty Ltd
Date Approved: 25/03/2021

AS CONSTRUCTED

Unsaved Drawing1

100mm AT FULL SIZE

REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY	SCALES
A	05.02.2021	PRELIMINARY ISSUE	G.S.	J.N.	T.S.	C.B.	
B	19.02.2021	CLIENT COMMENTS	G.S.	T.S.	T.S.	C.B.	
C	01.03.2021	UPDATED DESIGN TN, STREET PRESSURE MAIN TYPICAL DETAIL	G.S.	T.S.	T.S.	C.B.	
D	22.03.2021	ALTOGETHER COMMENTS	T.S.	T.S.	T.S.	C.B.	
O	25.03.2021	FOR CONSTRUCTION	G.S.	C.B.	T.S.	C.B.	
1	24.06.2021	UPDATE TANK LEVEL DETAILS	G.S.	C.B.	T.S.	C.B.	
2	30.09.2021	WORK AS CONSTRUCTED	I.B.	C.B.	T.S.	C.B.	

DESIGN FILE N:\
ALL DIMENSIONS ARE IN METRES. DO NOT SCALE

adw Johnson

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ABN 62 129 445 398

CLIENT



PROPERTY DESCRIPTION

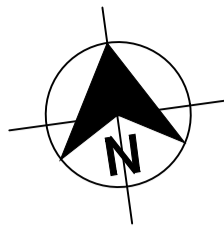
PROPOSED SUBDIVISION
STAGE 23
FERRY PARADE, HUNTLEE

SURVEYED ADW Johnson DATUM A.H.D.

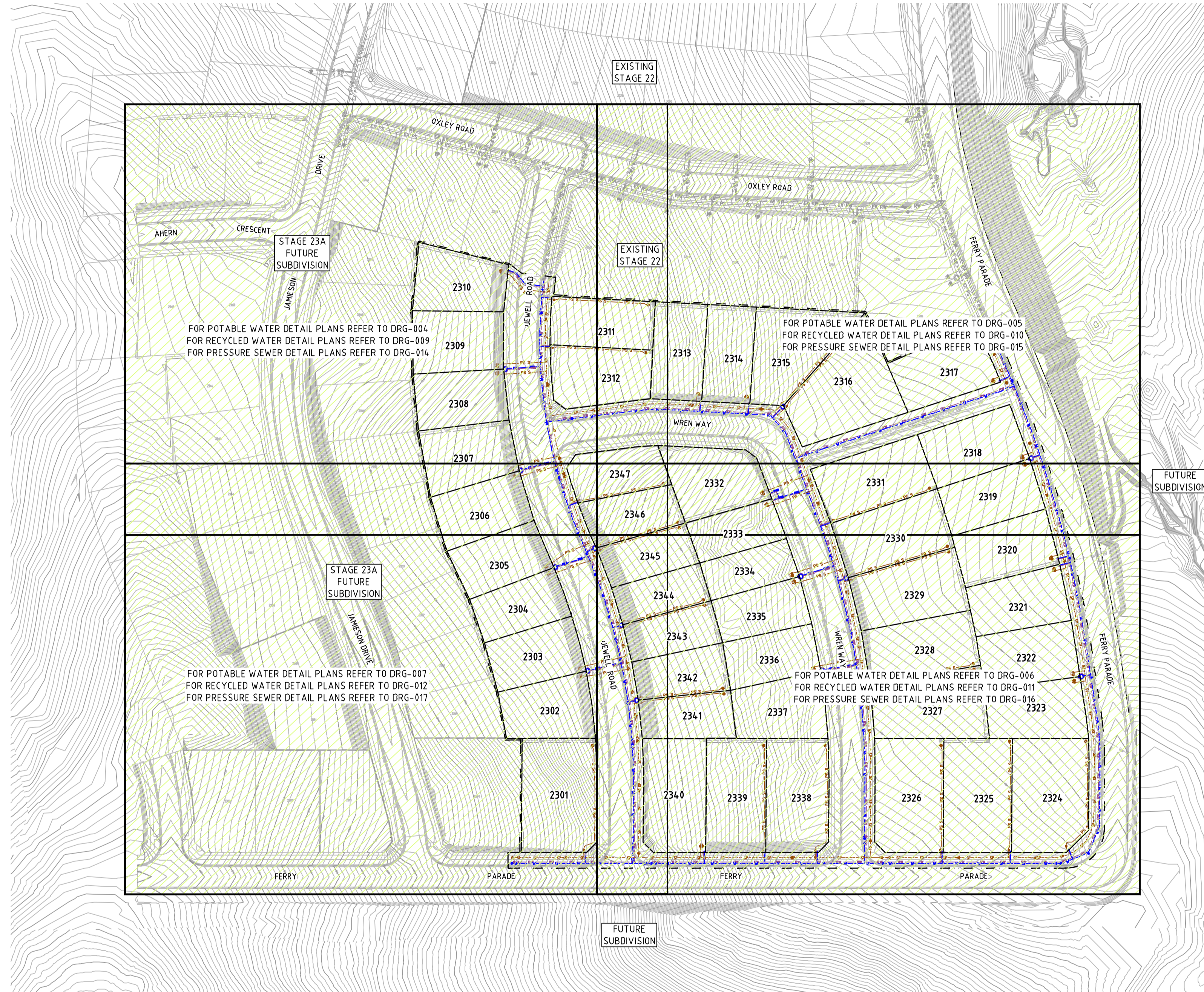
PROJECT POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION

PLAN TITLE GENERAL NOTES

PROJECT No. 240037(23) DISCIPLINE - WAC - NUMBER 002 REV. 2



DIAL 1100
BEFORE YOU DIG



WORK AS CONSTRUCTED

THESE DRAWINGS ARE AN ACCURATE REPRESENTATION AS AT 24/09/2021 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>[Signature]</i>	DATE	30/09/2021
	REGISTERED SURVEYOR	SIGNED	
		DATE/...../.....
		CONSTRUCTION MANAGER	

ORIGIN OF W.A.C. LEVELS

PM	20029	Co-Ord System	MGA Ground
E	345 612.942	MGA Datum	GDA94
N	6 382 878.917	MGA Zone	56
RL	77.675m		

APPROVED FOR CONSTRUCTION
BY ADW Johnson Pty Ltd
Date Approved: 25/03/2021

AS CONSTRUCTED

100mm AT FULL SIZE

REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY	SCALES	CLIENT	PROPERTY DESCRIPTION	PROJECT	PLAN TITLE				
A	05.02.2021	PRELIMINARY ISSUE	G.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 23 FERRY PARADE, HUNTLÉE	POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION				
B	19.02.2021	CLIENT COMMENTS	G.S.	T.S.	T.S.	C.B.					OVERALL SITE PLAN				
C	01.03.2021	UPDATED DESIGN TIN, STREET PRESSURE MAIN TYPICAL DETAIL	G.S.	T.S.	T.S.	C.B.									
D	22.03.2021	ALTOGETHER COMMENTS	T.S.	T.S.	T.S.	C.B.									
O	25.03.2021	FOR CONSTRUCTION	G.S.	C.B.	T.S.	C.B.									
1	24.06.2021	UPDATE TANK LEVEL DETAILS	G.S.	C.B.	T.S.	C.B.				PROJECT No.	DISCIPLINE	NUMBER	REV.		
2	30.09.2021	WORK AS CONSTRUCTED	I.B.	C.B.	T.S.	C.B.	ALL DIMENSIONS ARE IN METRES. DO NOT SCALE			ADW Johnson	A.H.D.	240037(23)	- WAC -	003	2

240037(23)-WAC-007

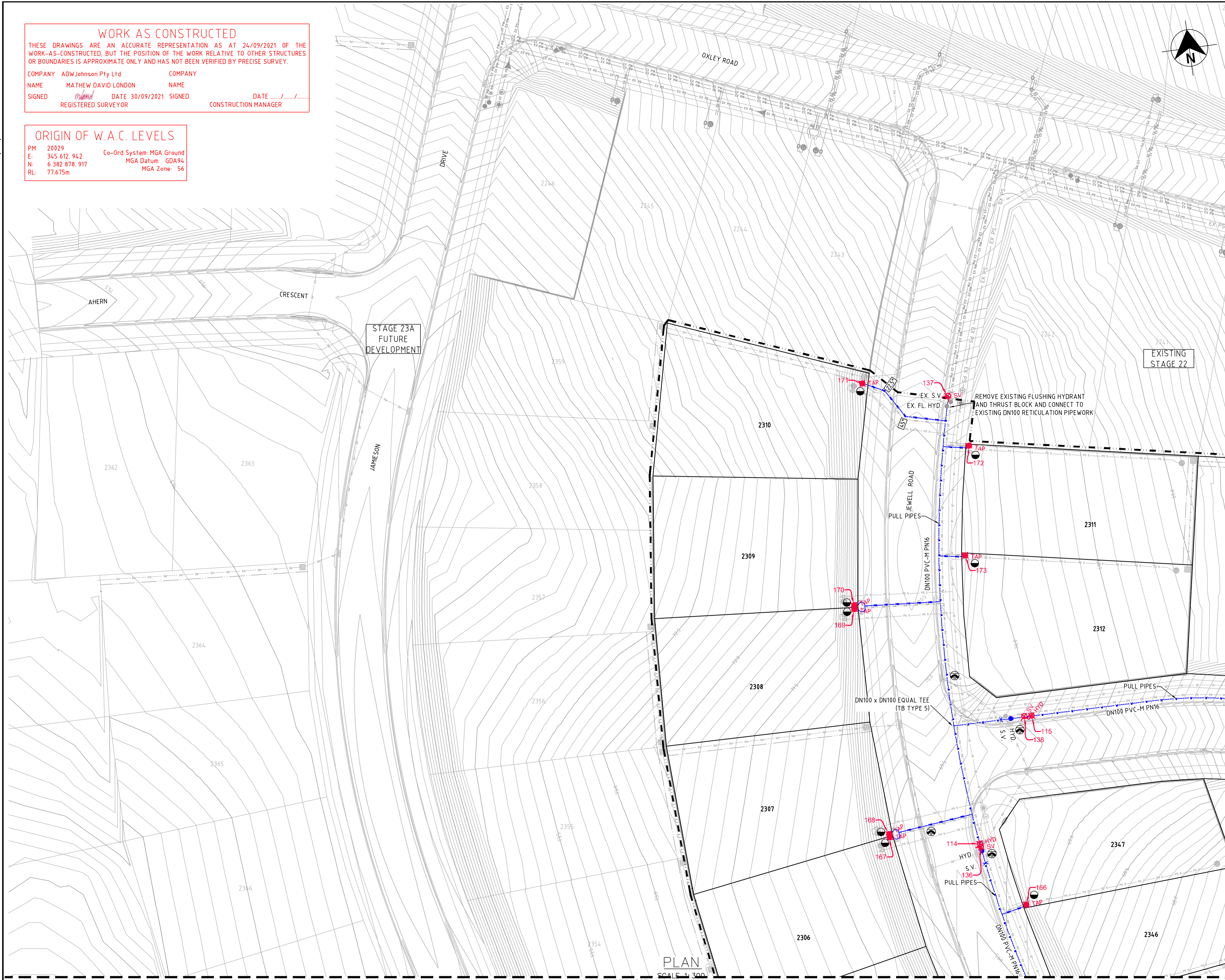
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 SIGNED *MatheW* DATE 30/09/2021 SIGNED DATE
 REGISTERED SURVEYOR CONSTRUCTION MANAGER

ORIGIN OF W.A.C. LEVELS

PM 20029
 E: 345 612 942 Co-Ord System: MGA Ground
 N: 6 382 878 917 MGA Datum: GDA94
 RL: 77.675m MGA Zone: 56



LEGEND

---	W	---	PVC-M POTABLE WATER RETICULATION
---	PWS	---	POTABLE WATER PROPERTY SERVICE
---	RW	---	PVC-M RECYCLED WATER RETICULATION
---	RWS	---	RECYCLED WATER PROPERTY SERVICE
---	SP	---	PE PRESSURE SEWER RETICULATION
---	PS S	---	PE PRESSURE SEWER PROPERTY SERVICE
---	EX PW	---	EXISTING POTABLE WATER RETICULATION
---	EX RW	---	EXISTING RECYCLED WATER RETICULATION
---	EX PS	---	EXISTING PRESSURE SEWER RETICULATION
---	SW	---	STORMWATER PIPEWORK
✱			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

- POTABLE WATER PROPERTY SERVICE CONNECTIONS**
 TOTAL 47 CONNECTIONS
- SINGLE SERVICES IN ACCORDANCE WITH WAT-1106-V
 - 16 x SHORT SIDE
 - 1 x LONG SIDE
 - SPLIT SERVICES IN ACCORDANCE WITH WAT-1107-V
 - 8 x SHORT SIDE
 - 7 x LONG SIDE

POTABLE WATER PIPE DATA

PIPE SIZE (mm)	PIPE MATERIAL	TOTAL LENGTH (m)
DN100	PVC-M PN16	930
DN20 (LATERAL)	PE100 PN16	275

- 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
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 Date Approved 25/03/2021

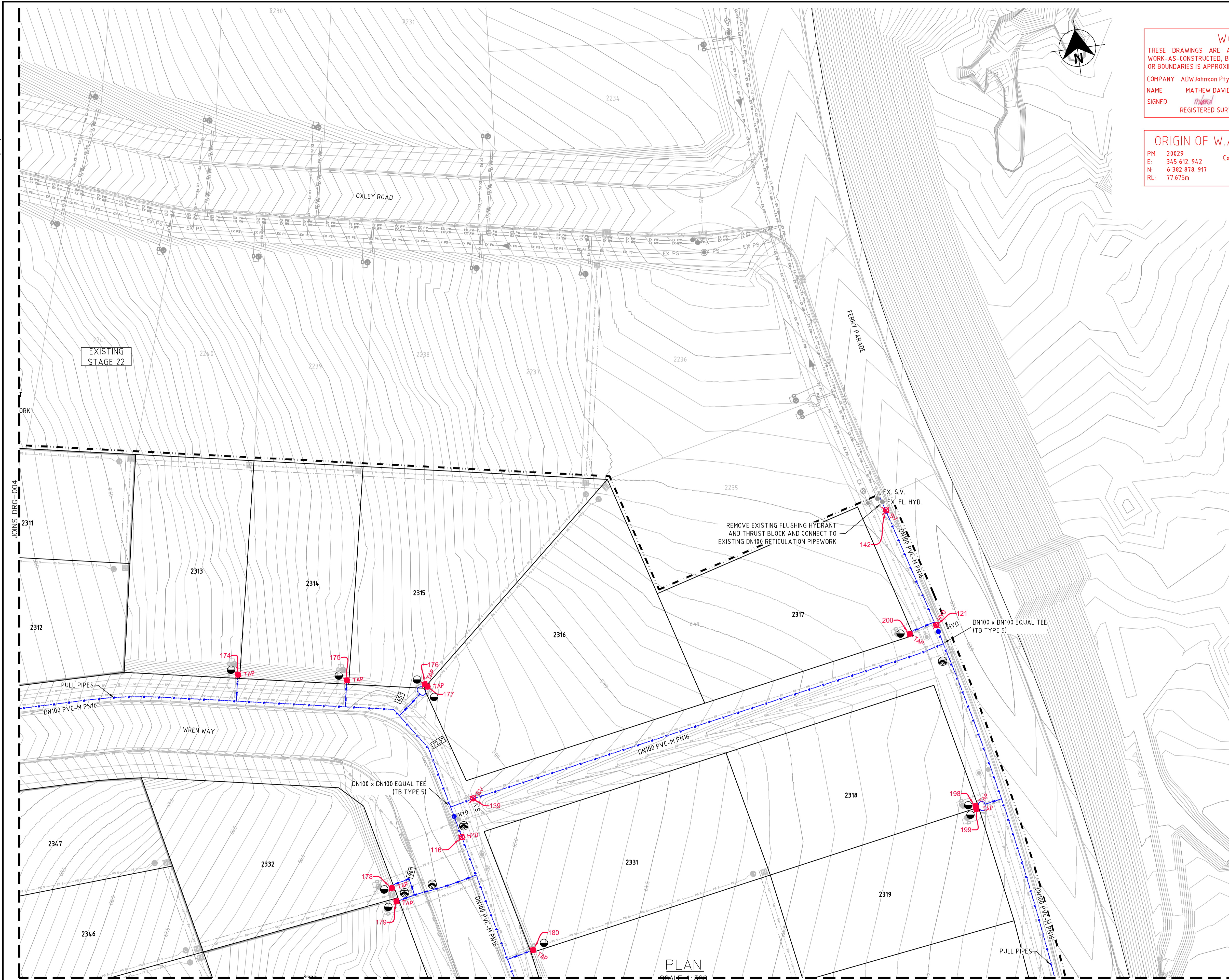
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240037(23)-WAC-007

JOINS DRG-004

100mm AT FULL SIZE



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 COMPANY: ADW Johnson Pty Ltd
 NAME: MATHEW DAVID LONDON
 SIGNED: [Signature] DATE: 30/09/2021
 REGISTERED SURVEYOR



ORIGIN OF W.A.C. LEVELS
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 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
 - STOP VALVE
 - HYDRANT
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 - LAY WATER MAIN OVER STORMWATER PIPE (300mm MIN. VERTICAL CLEARANCE) - REFER TO WAT-1255-H
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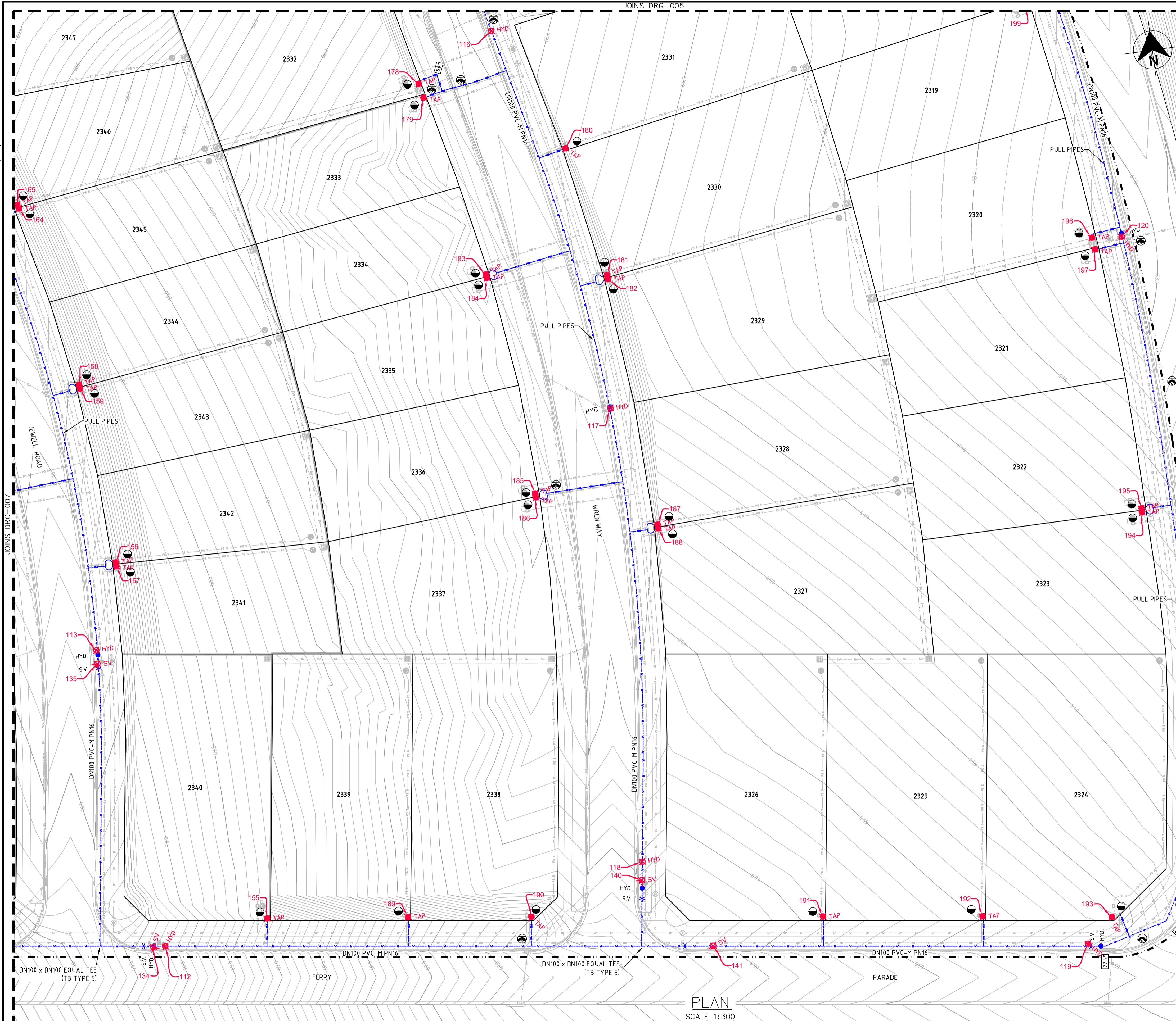
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240037(23)-WAC-007

JOINS DRG-007

100mm AT FULL SIZE

JOINS DRG-005



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PLAN
SCALE 1:300

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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

PROPERTY DESCRIPTION
 PROPOSED SUBDIVISION
 STAGE 23
 FERRY PARADE, HUNTLÉE

PROJECT POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION
 PLAN TITLE POTABLE WATER DETAIL PLAN - SHEET 3
 PROJECT No. 240037(23) DISCIPLINE - WAC - NUMBER 006 REV. 2

240037(23)-WAC-007

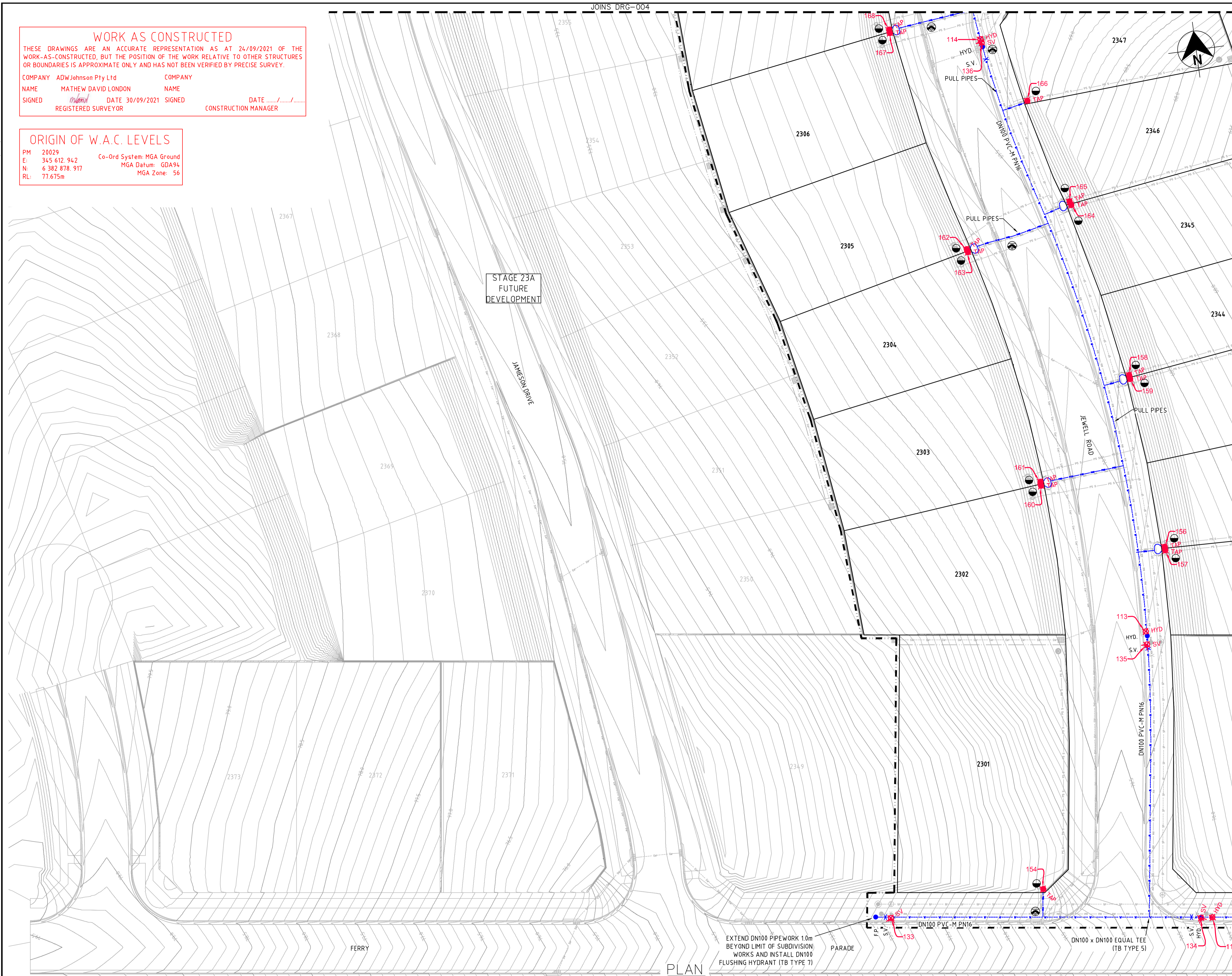
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 RL: 71.675m



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

- POTABLE WATER PROPERTY SERVICE CONNECTIONS**
 TOTAL 47 CONNECTIONS
- SINGLE SERVICES IN ACCORDANCE WITH WAT-1106-V
 - 16 x SHORT SIDE
 - 1 x LONG SIDE
 - SPLIT SERVICES IN ACCORDANCE WITH WAT-1107-V
 - 8 x SHORT SIDE
 - 7 x LONG SIDE

POTABLE WATER PIPE DATA

PIPE SIZE (mm)	PIPE MATERIAL	TOTAL LENGTH (m)
DN100	PVC-M PN16	930
DN20 (LATERAL)	PE100 PN16	275

- 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: 25/03/2021

AS CONSTRUCTED

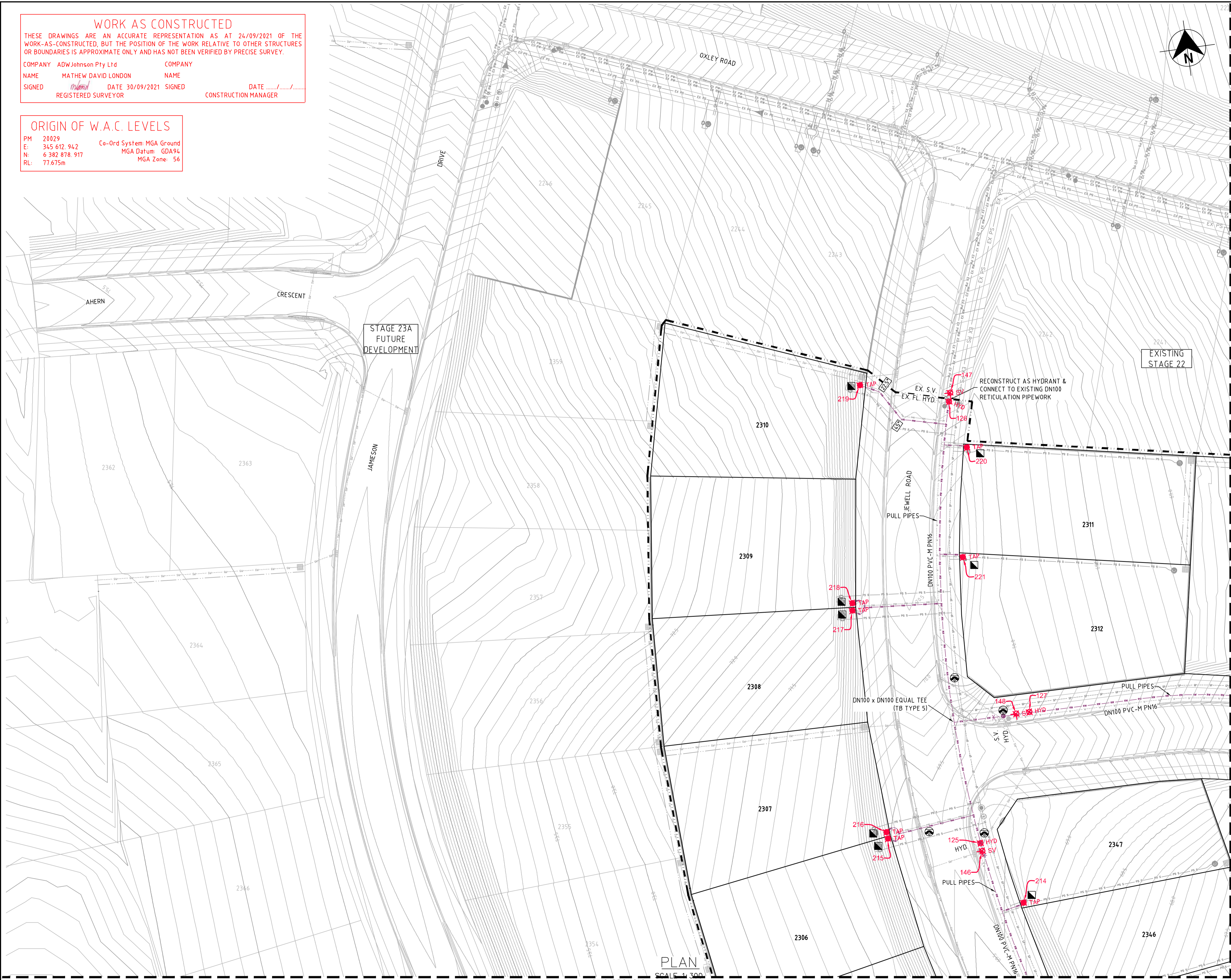
<table border="1"> <thead> <tr> <th>REV.</th> <th>DATE</th> <th>AMENDMENT</th> <th>DRAWN</th> <th>CHECK</th> <th>DESIGN</th> <th>VERIFY</th> <th>SCALES</th> </tr> </thead> <tbody> <tr> <td>A</td> <td>05.02.2021</td> <td>PRELIMINARY ISSUE</td> <td>G.S.</td> <td>J.N.</td> <td>T.S.</td> <td>C.B.</td> <td rowspan="6"> </td> </tr> <tr> <td>B</td> <td>19.02.2021</td> <td>CLIENT COMMENTS</td> <td>G.S.</td> <td>T.S.</td> <td>T.S.</td> <td>C.B.</td> </tr> <tr> <td>C</td> <td>01.03.2021</td> <td>UPDATED DESIGN TIN, STREET PRESSURE MAIN TYPICAL DETAIL</td> <td>G.S.</td> <td>T.S.</td> <td>T.S.</td> <td>C.B.</td> </tr> <tr> <td>D</td> <td>22.03.2021</td> <td>ALTOGETHER COMMENTS</td> <td>T.S.</td> <td>T.S.</td> <td>T.S.</td> <td>C.B.</td> </tr> <tr> <td>O</td> <td>25.03.2021</td> <td>FOR CONSTRUCTION</td> <td>G.S.</td> <td>C.B.</td> <td>T.S.</td> <td>C.B.</td> </tr> <tr> <td>1</td> <td>24.06.2021</td> <td>UPDATE TANK LEVEL DETAILS</td> <td>G.S.</td> <td>C.B.</td> <td>T.S.</td> <td>C.B.</td> </tr> <tr> <td>2</td> <td>30.09.2021</td> <td>WORK AS CONSTRUCTED</td> <td>I.B.</td> <td>C.B.</td> <td>T.S.</td> <td>C.B.</td> </tr> </tbody> </table>	REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY	SCALES	A	05.02.2021	PRELIMINARY ISSUE	G.S.	J.N.	T.S.	C.B.		B	19.02.2021	CLIENT COMMENTS	G.S.	T.S.	T.S.	C.B.	C	01.03.2021	UPDATED DESIGN TIN, STREET PRESSURE MAIN TYPICAL DETAIL	G.S.	T.S.	T.S.	C.B.	D	22.03.2021	ALTOGETHER COMMENTS	T.S.	T.S.	T.S.	C.B.	O	25.03.2021	FOR CONSTRUCTION	G.S.	C.B.	T.S.	C.B.	1	24.06.2021	UPDATE TANK LEVEL DETAILS	G.S.	C.B.	T.S.	C.B.	2	30.09.2021	WORK AS CONSTRUCTED	I.B.	C.B.	T.S.	C.B.	<p>Hunter Office Unit 7/335 Hillsborough Rd Warners Bay N.S.W. 2282 Phone: (02) 4978 5100 Fax: (02) 4978 5199 email: hunter@adwjohnson.com.au www.adwjohnson.com.au ABN 62 129 445 398</p>	<p>CLIENT</p>	<p>PROPERTY DESCRIPTION</p> <p>PROPOSED SUBDIVISION STAGE 23 FERRY PARADE, HUNTLÉE</p>	<p>PROJECT</p> <p>POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION</p>
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<p>DESIGN FILE N:\</p>	<p>PLANNED BY</p> <p>ADW Johnson</p>	<p>DATUM</p> <p>A.H.D.</p>	<p>PROJECT No.</p> <p>240037(23)</p>	<p>DISCIPLINE</p> <p>- WAC -</p>	<p>NUMBER</p> <p>007</p>	<p>REV.</p> <p>2</p>																																																								

240037(23)-WAC-012

100mm AT FULL SIZE

WORK AS CONSTRUCTED
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 COMPANY ADW Johnson Pty Ltd
 NAME MATHEW DAVID LONDON
 SIGNED *MDL* DATE 30/09/2021 REGISTERED SURVEYOR
 NAME
 SIGNED _____ DATE _____ CONSTRUCTION MANAGER

ORIGIN OF W.A.C. LEVELS
 PM 20029
 E: 345 612.942
 N: 6 382 878.917
 RL: 77.675m
 Co-Ord System: MGA Ground
 MGA Datum: GDA94
 MGA Zone: 56



- LEGEND**
- RW — RW — PVC-M RECYCLED WATER RETICULATION
 - - - RWS — RWS — RECYCLED WATER PROPERTY SERVICE
 - - - PWS — PWS — POTABLE WATER RETICULATION
 - - - PWS — PWS — POTABLE WATER PROPERTY SERVICE
 - - - SP — SP — PE PRESSURE SEWER RETICULATION
 - - - PS S — PS S — PE PRESSURE SEWER PROPERTY SERVICE
 - - - EX RW — EX RW — EXISTING RECYCLED WATER RETICULATION
 - - - EX PW — EX PW — EXISTING POTABLE WATER RETICULATION
 - - - EX PS — EX PS — EXISTING PRESSURE SEWER RETICULATION
 - - - SW — SW — 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 47 CONNECTIONS
- SINGLE SERVICES IN ACCORDANCE WITH WAT-1106-V
 - 16 x SHORT SIDE
 - 1 x LONG SIDE
 - SPLIT SERVICES IN ACCORDANCE WITH WAT-1107-V
 - 8 x SHORT SIDE
 - 7 x LONG SIDE

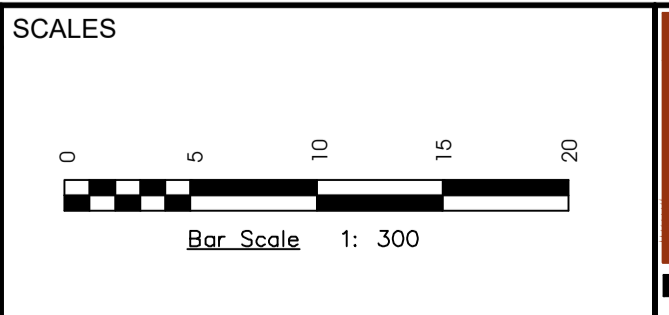
RECYCLED WATER PIPE DATA		
PIPE SIZE (mm)	PIPE MATERIAL	TOTAL LENGTH (m)
DN100	PVC-M PN16	925
DN25 (LATERAL)	PE100 PN16	275

- 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: 25/03/2021

AS CONSTRUCTED

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adw Johnson
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 Fax: (02) 4978 5199
 email: hunter@adwjohnson.com.au
 www.adwjohnson.com.au
 ABN 62 129 445 398

CLIENT

PROPERTY DESCRIPTION
 PROPOSED SUBDIVISION
 STAGE 23
 FERRY PARADE, HUNTLÉE

PROJECT POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION
PLAN TITLE RECYCLED WATER DETAIL PLAN - SHEET 1
PROJECT No. 240037(23) **DISCIPLINE** - WAC - **NUMBER** 009 **REV.** 2

240037(23)-WAC-012

JOINS DRG-009

100mm AT FULL SIZE



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COMPANY ADW Johnson Pty Ltd COMPANY
 NAME MATHEW DAVID LONDON NAME
 SIGNED *Matthew* DATE 30/09/2021 SIGNED _____ DATE/...../.....
 REGISTERED SURVEYOR CONSTRUCTION MANAGER



ORIGIN OF W.A.C. LEVELS
 PM 20029 Co-Ord System: MGA Ground
 E: 345 612 942 MGA Datum: GDA94
 N: 6 382 878 917 MGA Zone: 56
 RL: 77.675m

- LEGEND**
- RW PVC-M RECYCLED WATER RETICULATION
 - RWS RECYCLED WATER PROPERTY SERVICE
 - PVC-M POTABLE WATER RETICULATION
 - 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**
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- SINGLE SERVICES IN ACCORDANCE WITH WAT-1106-V
 - 16 x SHORT SIDE
 - 1 x LONG SIDE
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 - 8 x SHORT SIDE
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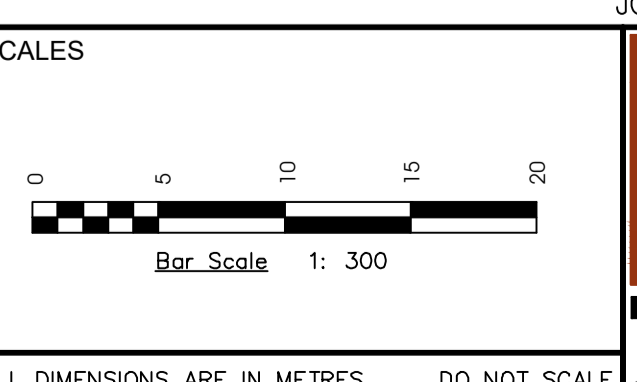
RECYCLED WATER PIPE DATA		
PIPE SIZE (mm)	PIPE MATERIAL	TOTAL LENGTH (m)
DN100	PVC-M PN16	925
DN25 (LATERAL)	PE100 PN16	275

- NOTES:**
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 - 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.

APPROVED FOR CONSTRUCTION
 BY ADW Johnson Pty Ltd
 Date Approved: 25/03/2021

AS CONSTRUCTED

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2	30.09.2021	WORK AS CONSTRUCTED	I.B.	C.B.	T.S.	C.B.	



JOINS DRG-011 SCALE 1: 300

adw Johnson

Hunter Office
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 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 23
 FERRY PARADE, HUNTLÉE

SURVEYED ADW Johnson DATUM A.H.D.

PROJECT POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION

PLAN TITLE RECYCLED WATER DETAIL PLAN - SHEET 2

PROJECT No. 240037(23) DISCIPLINE - WAC - NUMBER 010 REV. 2

240037(23)-WAC-012

JOINS DRG-012

100mm AT FULL SIZE

JOINS DRG-010

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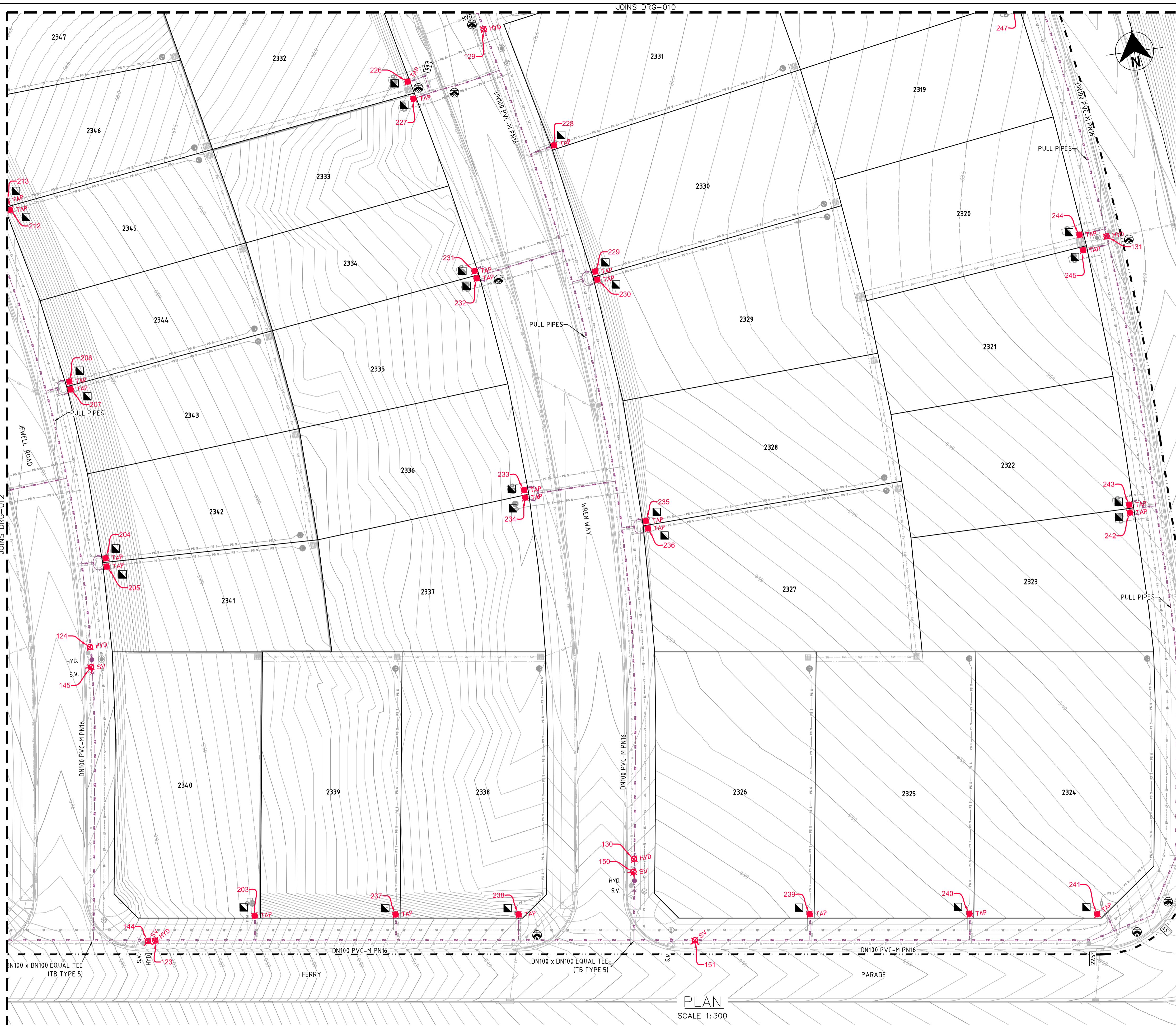
COMPANY ADW Johnson Pty Ltd
 NAME MATHEW DAVID LONDON
 SIGNED [Signature] DATE 30/09/2021 REGISTERED SURVEYOR

COMPANY NAME
 SIGNED [Signature] DATE/...../..... CONSTRUCTION MANAGER



ORIGIN OF W.A.C. LEVELS
 PM 20029
 E 345 612.942
 N 6 382 878.917
 RL 77.675m

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



- LEGEND**
- RW RW PVC-M RECYCLED WATER RETICULATION
 - RWS RWS RECYCLED WATER PROPERTY SERVICE
 - PVC-M POTABLE WATER RETICULATION
 - PWS PWS POTABLE WATER PROPERTY SERVICE
 - SP SP PE PRESSURE SEWER RETICULATION
 - PS S PS S PE PRESSURE SEWER PROPERTY SERVICE
 - EX RW EX RW EXISTING RECYCLED WATER RETICULATION
 - EX PW EX PW EXISTING POTABLE WATER RETICULATION
 - EX PS EX PS EXISTING PRESSURE SEWER RETICULATION
 - SW SW 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

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- SINGLE SERVICES IN ACCORDANCE WITH WAT-1106-V
 - 16 x SHORT SIDE
 - 1 x LONG SIDE
 - SPLIT SERVICES IN ACCORDANCE WITH WAT-1107-V
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RECYCLED WATER PIPE DATA		
PIPE SIZE (mm)	PIPE MATERIAL	TOTAL LENGTH (m)
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DN25 (LATERAL)	PE100 PN16	275

- NOTES:**
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APPROVED FOR CONSTRUCTION
 BY ADW Johnson Pty Ltd
 Date Approved 25/03/2021

AS CONSTRUCTED

PLAN SCALE 1:300

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adw Johnson

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 ABN 62 129 445 398

CLIENT

PROPERTY DESCRIPTION

PROPOSED SUBDIVISION
 STAGE 23
 FERRY PARADE, HUNTLÉE

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(23) DISCIPLINE - WAC - NUMBER 011 REV. 2

240037(23)-WAC-012

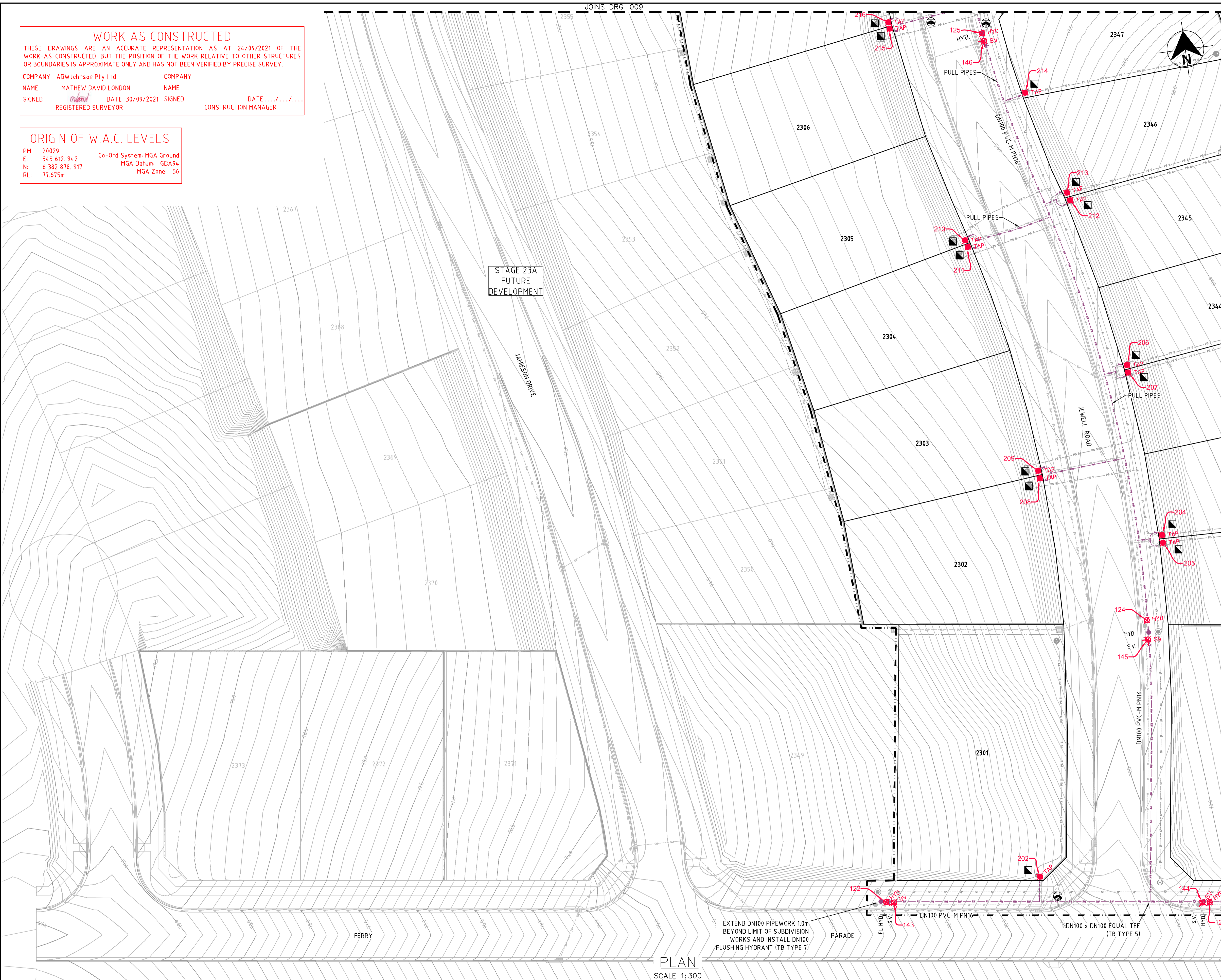
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COMPANY ADW Johnson Pty Ltd COMPANY
NAME MATHEW DAVID LONDON NAME
SIGNED [Signature] DATE 30/09/2021 SIGNED DATE
REGISTERED SURVEYOR REGISTERED SURVEYOR CONSTRUCTION MANAGER

ORIGIN OF W.A.C. LEVELS

PM 20029
E: 345 612.942 Co-Ord System: MGA Ground
N: 6 382 878.917 MGA Datum: GDA94
RL: 77.675m MGA Zone: 56



LEGEND

	RW	PVC-M RECYCLED WATER RETICULATION
	RWS	RECYCLED WATER PROPERTY SERVICE
	PWS	PVC-M POTABLE WATER RETICULATION
	PWS	POTABLE WATER PROPERTY SERVICE
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		STOP VALVE
		HYDRANT
		FLUSHING HYDRANT
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APPROVED FOR CONSTRUCTION
BY ADW Johnson Pty Ltd
Date Approved: 25/03/2021

AS CONSTRUCTED

PLAN
SCALE 1:300

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ABN 62 129 445 398

CLIENT

PROPERTY DESCRIPTION

PROPOSED SUBDIVISION
STAGE 23
FERRY PARADE, HUNTLÉE

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(23) DISCIPLINE - WAC - NUMBER 012 REV. 2

240037(23)-WAC-017

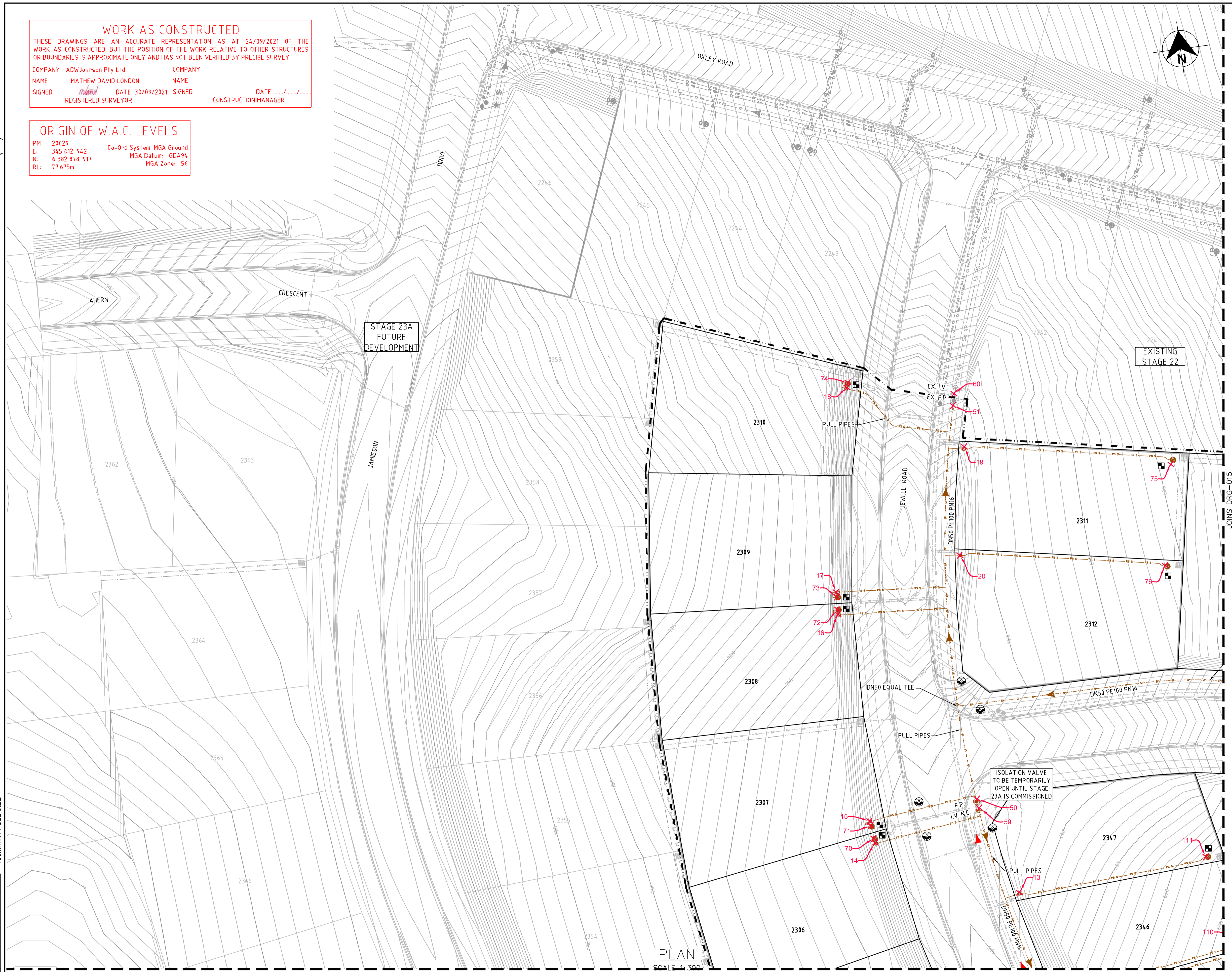
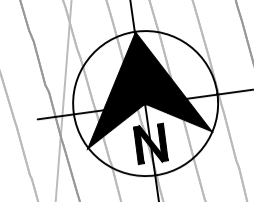
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NAME MATHEW DAVID LONDON NAME
SIGNED [Signature] DATE 30/09/2021 SIGNED [Signature] DATE [Signature]
REGISTERED SURVEYOR REGISTERED SURVEYOR CONSTRUCTION MANAGER

ORIGIN OF W.A.C. LEVELS

PM 20029 Co-Ord System: MGA Ground
E: 345 612 942 MGA Datum: GDA94
N: 6 382 878 917 MGA Zone: 56
RL: 77.675m



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

■ PRESSURE SEWER PROPERTY SERVICE CONNECTIONS
TOTAL 47 CONNECTIONS
• SINGLE SERVICES
-32 x SHORT SIDE
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PRESSURE SEWER PIPE DATA		
PIPE SIZE (mm)	PIPE MATERIAL	TOTAL LENGTH (m)
DN50	PE100 SDR11	680
DN63	PE100 SDR11	127
DN40 (LATERAL)	PE100 SDR11	1072

- NOTES:**
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 - FOR TYPICAL SERVICE CONNECTION DETAILS REFER TO DRG-020.
 - FOR FLUSHING POINT TYPICAL DETAILS REFER TO STANDARD DRAWING PSS-1017-FS.
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APPROVED FOR CONSTRUCTION
BY ADW Johnson Pty Ltd
Date Approved 25/03/2021

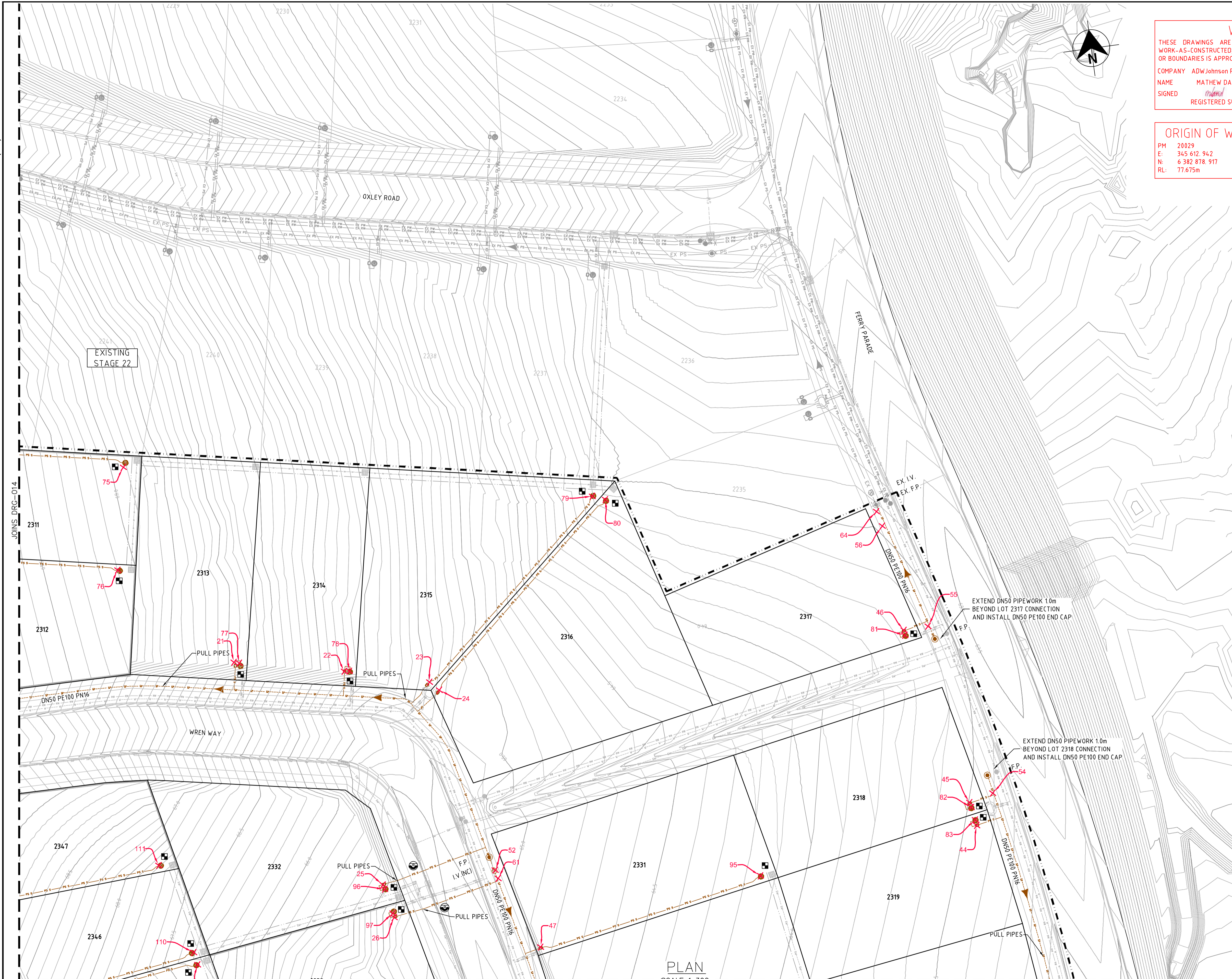
AS CONSTRUCTED

<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>05.02.2021</td> <td>PRELIMINARY ISSUE</td> <td>G.S.</td> <td>J.N.</td> <td>T.S.</td> <td>C.B.</td> <td></td> </tr> <tr> <td>B</td> <td>19.02.2021</td> <td>CLIENT COMMENTS</td> <td>G.S.</td> <td>T.S.</td> <td>T.S.</td> <td>C.B.</td> <td></td> </tr> <tr> <td>C</td> <td>01.03.2021</td> <td>UPDATED DESIGN TIN, STREET PRESSURE MAIN TYPICAL DETAIL</td> <td>G.S.</td> <td>T.S.</td> <td>T.S.</td> <td>C.B.</td> <td></td> </tr> <tr> <td>D</td> <td>22.03.2021</td> <td>ALTOGETHER COMMENTS</td> <td>T.S.</td> <td>T.S.</td> <td>T.S.</td> <td>C.B.</td> <td></td> </tr> <tr> <td>O</td> <td>25.03.2021</td> <td>FOR CONSTRUCTION</td> <td>G.S.</td> <td>C.B.</td> <td>T.S.</td> <td>C.B.</td> <td></td> </tr> <tr> <td>1</td> <td>24.06.2021</td> <td>UPDATE TANK LEVEL DETAILS</td> <td>G.S.</td> <td>C.B.</td> <td>T.S.</td> <td>C.B.</td> <td></td> </tr> <tr> <td>2</td> <td>30.09.2021</td> <td>WORK AS CONSTRUCTED</td> <td>I.B.</td> <td>C.B.</td> <td>T.S.</td> <td>C.B.</td> <td></td> </tr> </tbody> </table>	REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY	SCALES	A	05.02.2021	PRELIMINARY ISSUE	G.S.	J.N.	T.S.	C.B.		B	19.02.2021	CLIENT COMMENTS	G.S.	T.S.	T.S.	C.B.		C	01.03.2021	UPDATED DESIGN TIN, STREET PRESSURE MAIN TYPICAL DETAIL	G.S.	T.S.	T.S.	C.B.		D	22.03.2021	ALTOGETHER COMMENTS	T.S.	T.S.	T.S.	C.B.		O	25.03.2021	FOR CONSTRUCTION	G.S.	C.B.	T.S.	C.B.		1	24.06.2021	UPDATE TANK LEVEL DETAILS	G.S.	C.B.	T.S.	C.B.		2	30.09.2021	WORK AS CONSTRUCTED	I.B.	C.B.	T.S.	C.B.		<p>ALL DIMENSIONS ARE IN METRES. DO NOT SCALE</p>	<p>Hunter Office Unit 7/335 Hillsborough Rd Warners Bay N.S.W. 2282 Phone: (02) 4978 5100 Fax: (02) 4978 5199 email: hunter@adwjohnson.com.au www.adwjohnson.com.au ABN 62 129 445 398</p>	<p>CLIENT</p>	<p>PROPERTY DESCRIPTION</p> <p>PROPOSED SUBDIVISION STAGE 23 FERRY PARADE, HUNTLÉE</p>	<p>PROJECT</p> <p>POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION</p>
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<p>DESIGN FILE N:\</p>		<p>Plotted By: iainb Plot Date: 30/09/21 - 18:13 Cod File: \\pserver10\adw-data\240072\DWG\Water & Sewer\Stage 23-WAC\240037(23)-WAC-017.dwg</p>		<p>SURVEYED</p> <p>ADW Johnson</p>	<p>DATUM</p> <p>A.H.D.</p>	<p>PROJECT No.</p> <p>240037(23)</p>	<p>DISCIPLINE</p> <p>- WAC -</p>	<p>NUMBER</p> <p>014</p>	<p>REV.</p> <p>2</p>																																																												

240037(23)-WAC-017

JOINS DRG-014

100mm AT FULL SIZE



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COMPANY ADW Johnson Pty Ltd
 NAME MATHEW DAVID LONDON
 SIGNED [Signature] REGISTERED SURVEYOR

COMPANY NAME
 SIGNED [Signature] CONSTRUCTION MANAGER
 DATE 25/03/2021



ORIGIN OF W.A.C. LEVELS
 PM 20029
 E: 345 612.942
 N: 6 382 878.917
 RL: 77.675m

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

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PLAN SCALE 1:300

ALL DIMENSIONS ARE IN METRES. DO NOT SCALE

adw Johnson

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

CLIENT

PROPERTY DESCRIPTION

PROPOSED SUBDIVISION
 STAGE 23
 FERRY PARADE, HUNTLÉE

SURVEYED ADW Johnson DATUM A.H.D.

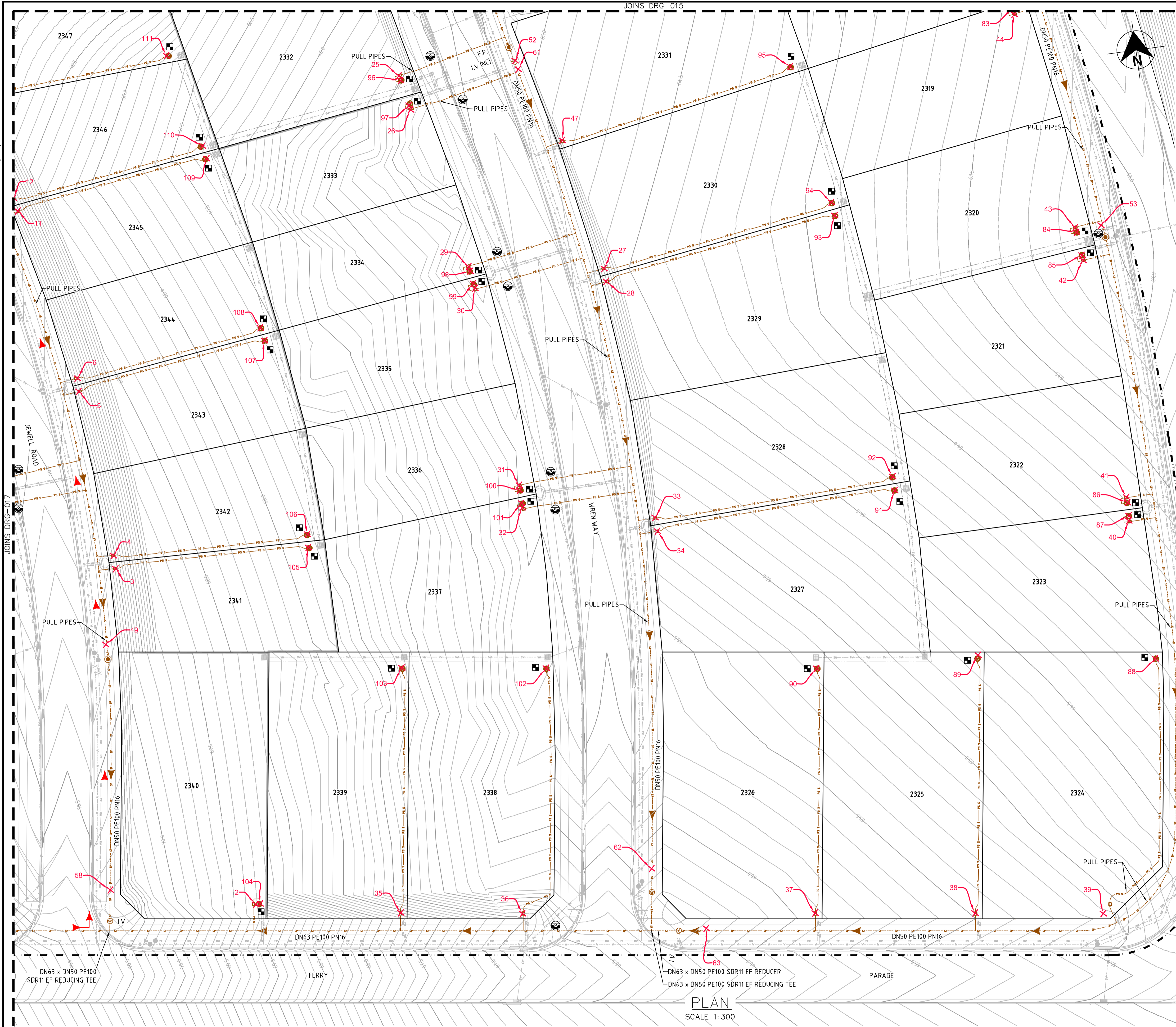
PROJECT	POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION		
PLAN TITLE	PRESSURE SEWER DETAIL PLAN - SHEET 2		
PROJECT No.	240037(23)	DISCIPLINE	- WAC -
NUMBER	015	REV.	2

240037(23)-WAC-017

JOINS DRG-017

100mm AT FULL SIZE

JOINS DRG-015



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COMPANY ADW Johnson Pty Ltd COMPANY
 NAME MATHEW DAVID LONDON NAME
 SIGNED *mathe* DATE 30/09/2021 SIGNED DATE/...../.....
 REGISTERED SURVEYOR CONSTRUCTION MANAGER



ORIGIN OF W.A.C. LEVELS

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APPROVED FOR CONSTRUCTION
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 Date Approved 25/03/2021

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PLAN
 SCALE 1:300

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 ABN 62 129 445 398

CLIENT

PROPERTY DESCRIPTION

PROPOSED SUBDIVISION
 STAGE 23
 FERRY PARADE, HUNTLÉE

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. 240037(23) DISCIPLINE - WAC - NUMBER 016 REV. 2

240037(23)-WAC-017

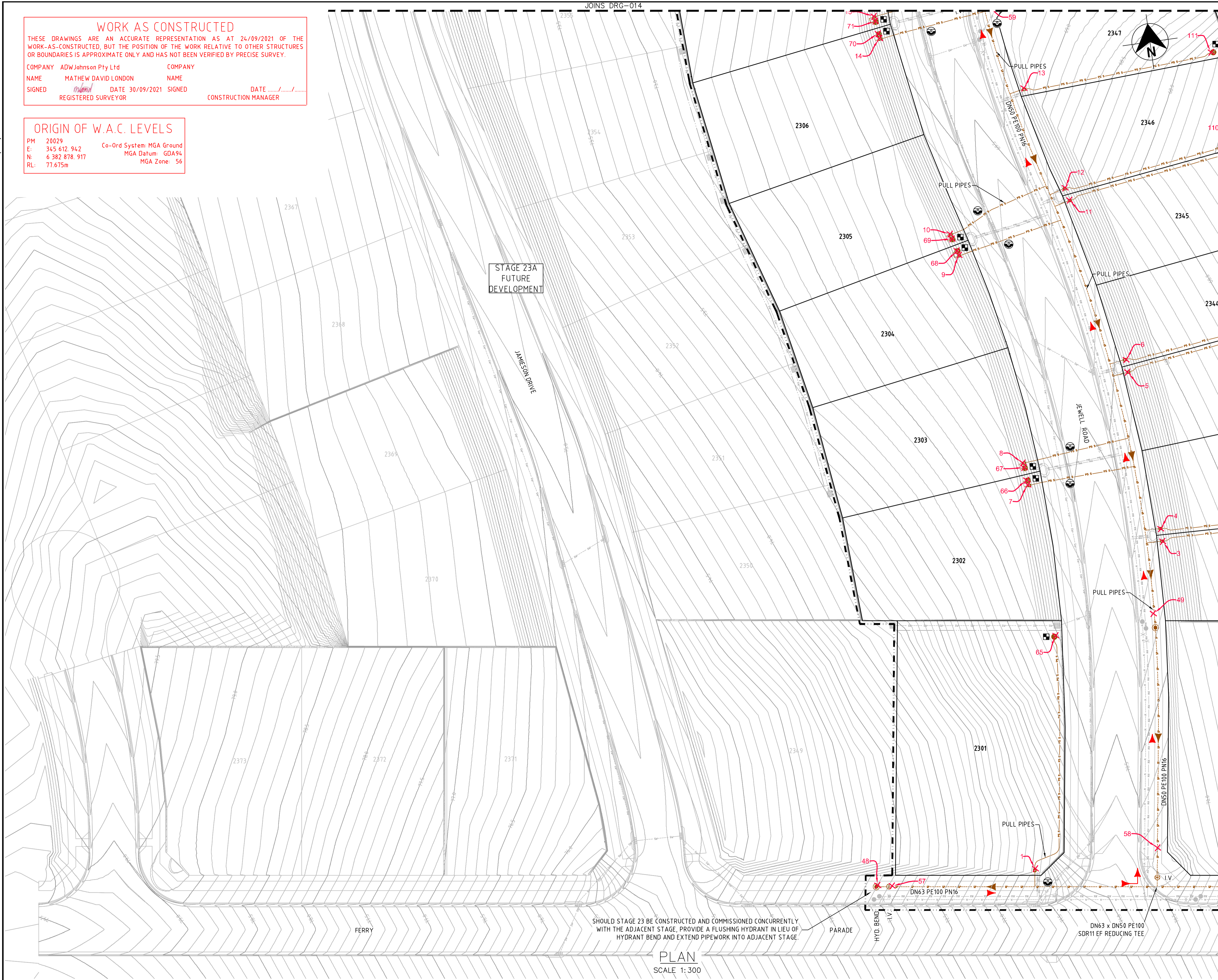
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COMPANY	ADW Johnson Pty Ltd	COMPANY	
NAME	MATHEW DAVID LONDON	NAME	
SIGNED		DATE	30/09/2021
	REGISTERED SURVEYOR	SIGNED	
		DATE	
		CONSTRUCTION MANAGER	

ORIGIN OF W.A.C. LEVELS

PM	20029	Co-Ord System:	MGA Ground
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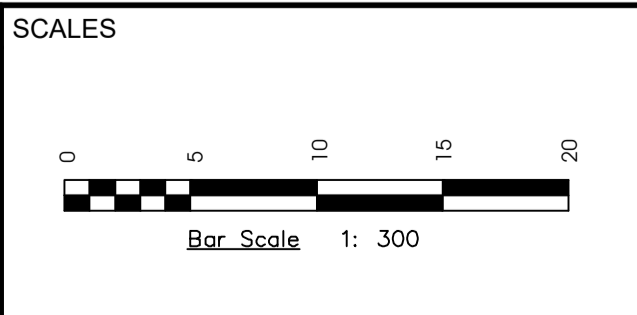
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SHOULD STAGE 23 BE CONSTRUCTED AND COMMISSIONED CONCURRENTLY WITH THE ADJACENT STAGE, PROVIDE A FLUSHING HYDRANT IN LIEU OF HYDRANT BEND AND EXTEND PIPEWORK INTO ADJACENT STAGE.

PLAN
 SCALE 1:300

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 STAGE 23
 FERRY PARADE, HUNTLÉE

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. 240037(23) DISCIPLINE - WAC - NUMBER 017 REV. 2



Point Table with columns: Point #, Eastings, Northings, Levels, Codes. Contains 56 rows of data.

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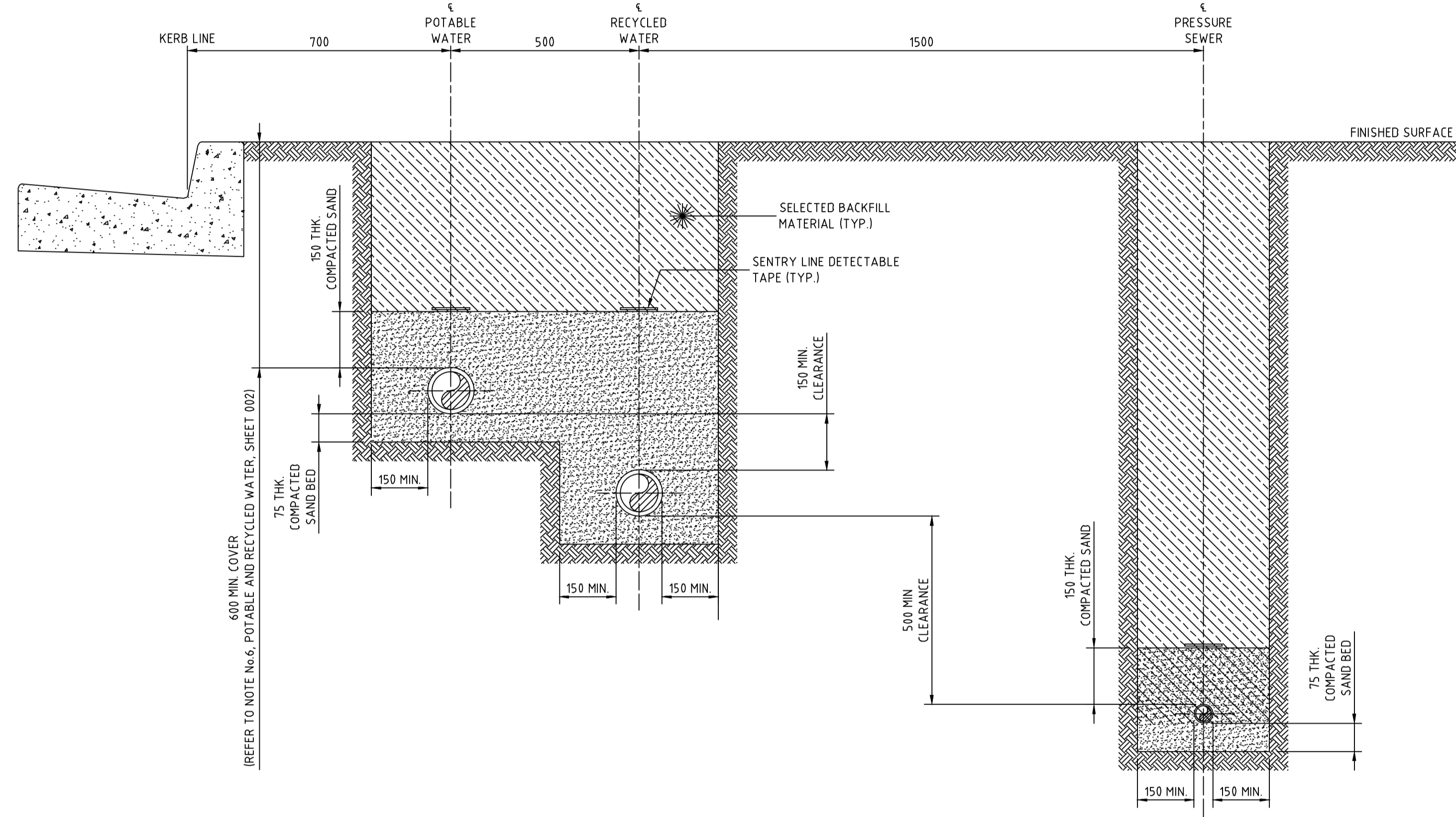
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Hunter Office logo and contact information: Unit 7/335 Hillsborough Rd, Warners Bay N.S.W. 2282.

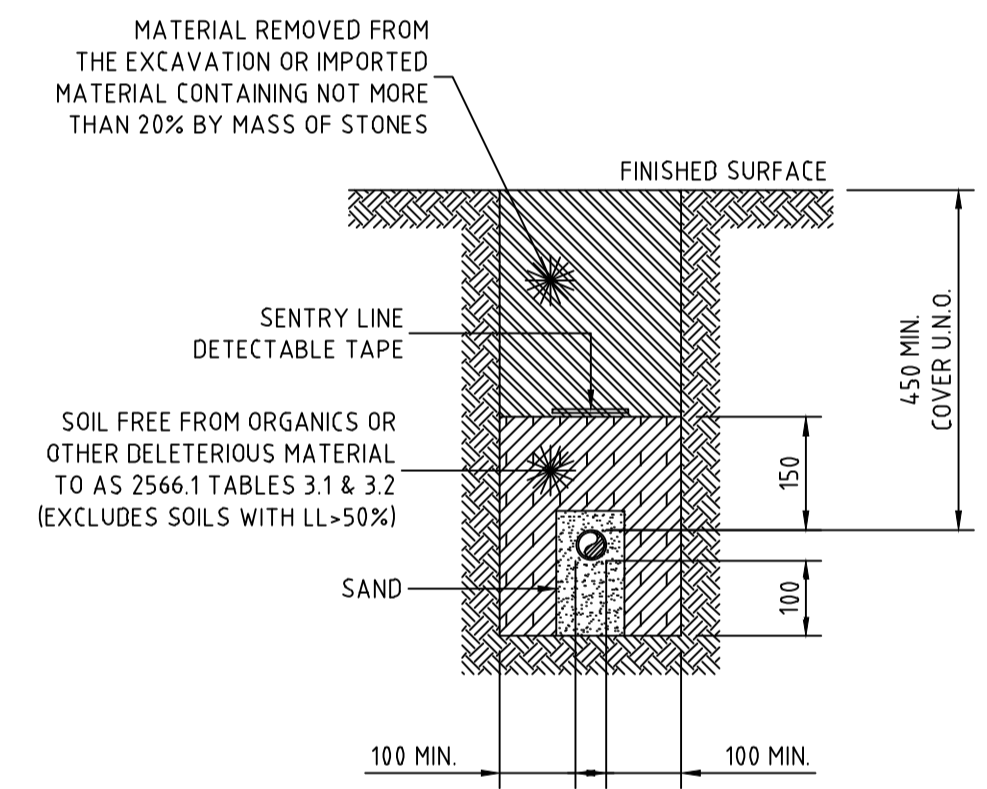
altogether. logo

Table with columns: SURVEYED, DATUM. Contains project description and survey details.

Table with columns: PROJECT, PLAN TITLE, PROJECT No., DISCIPLINE, NUMBER, REV. Contains project identification and revision details.



STREET PRESSURE MAIN
TYPICAL DETAIL
SCALE 1:10



PRIVATE PROPERTY PRESSURE MAIN
TYPICAL DETAIL
SCALE 1:10

WORK AS CONSTRUCTED
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COMPANY ADW Johnson Pty Ltd COMPANY
NAME MATHEW DAVID LONDON NAME
SIGNED *Mathew David London* DATE 30/09/2021 SIGNED DATE
REGISTERED SURVEYOR CONSTRUCTION MANAGER

ORIGIN OF W.A.C. LEVELS
PM 20029 Co-Ord System: MGA Ground
E: 345 612.942 MGA Datum: GDA94
N: 6 382 878.917 MGA Zone: 56
RL: 77.675m

APPROVED FOR CONSTRUCTION
BY ADW Johnson Pty Ltd
Date Approved: 25/03/2021

AS CONSTRUCTED

- NOTES:
1. ALL POLYETHYLENE FITTINGS SHALL BE JOINED USING ELECTROFUSION JOINING TECHNIQUES IN ACCORDANCE WITH MANUFACTURERS REQUIREMENTS. ROTATE BENDS AS NECESSARY.

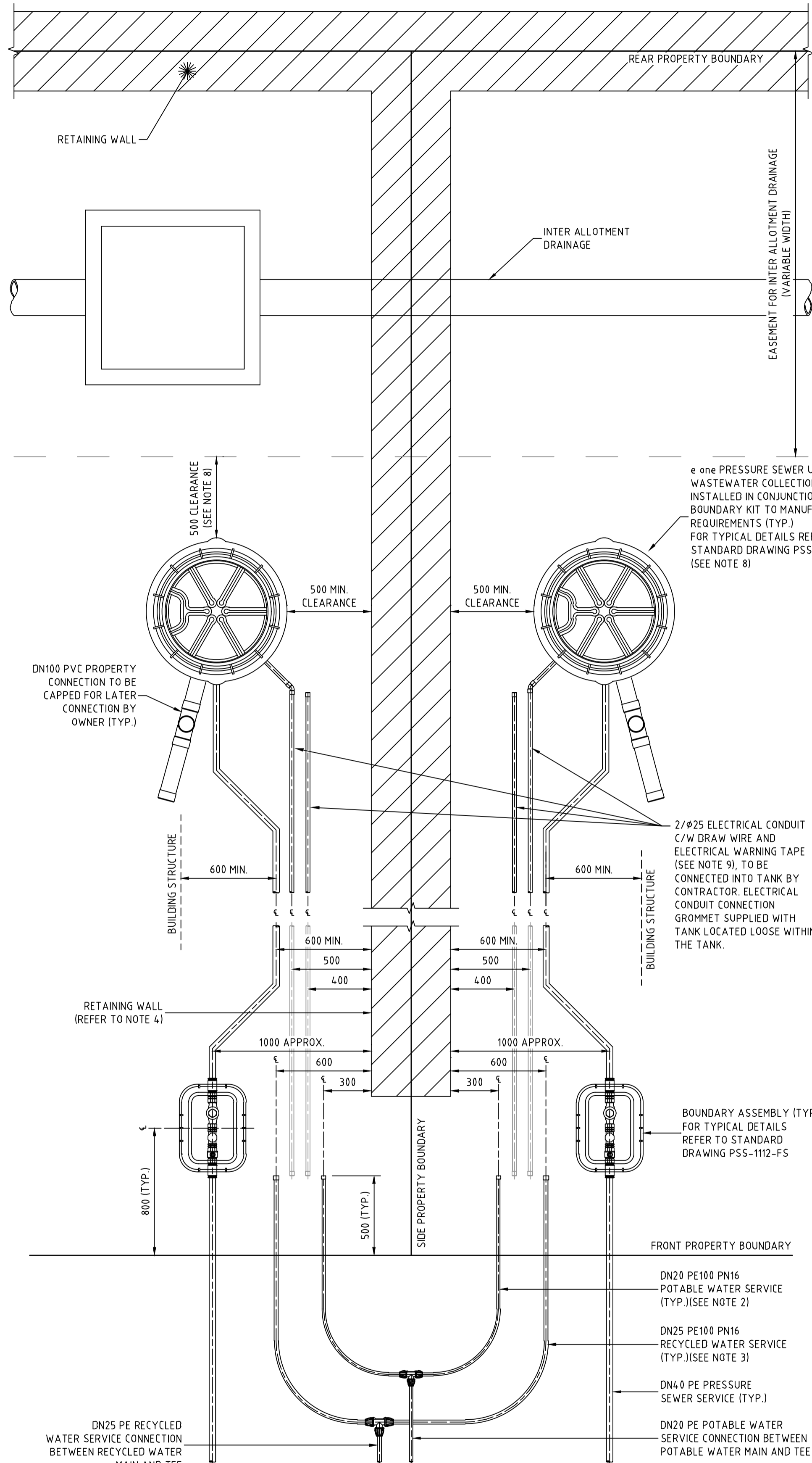
REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY	SCALES
A	05.02.2021	PRELIMINARY ISSUE	G.S.	J.N.	T.S.	C.B.	
B	19.02.2021	CLIENT COMMENTS	G.S.	T.S.	T.S.	C.B.	
C	01.03.2021	UPDATED DESIGN TIN, STREET PRESSURE MAIN TYPICAL DETAIL	G.S.	T.S.	T.S.	C.B.	
D	22.03.2021	ALTOGETHER COMMENTS	T.S.	T.S.	T.S.	C.B.	
O	25.03.2021	FOR CONSTRUCTION	G.S.	C.B.	T.S.	C.B.	
1	24.06.2021	UPDATE TANK LEVEL DETAILS	G.S.	C.B.	T.S.	C.B.	
2	30.09.2021	WORK AS CONSTRUCTED	I.B.	C.B.	T.S.	C.B.	

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

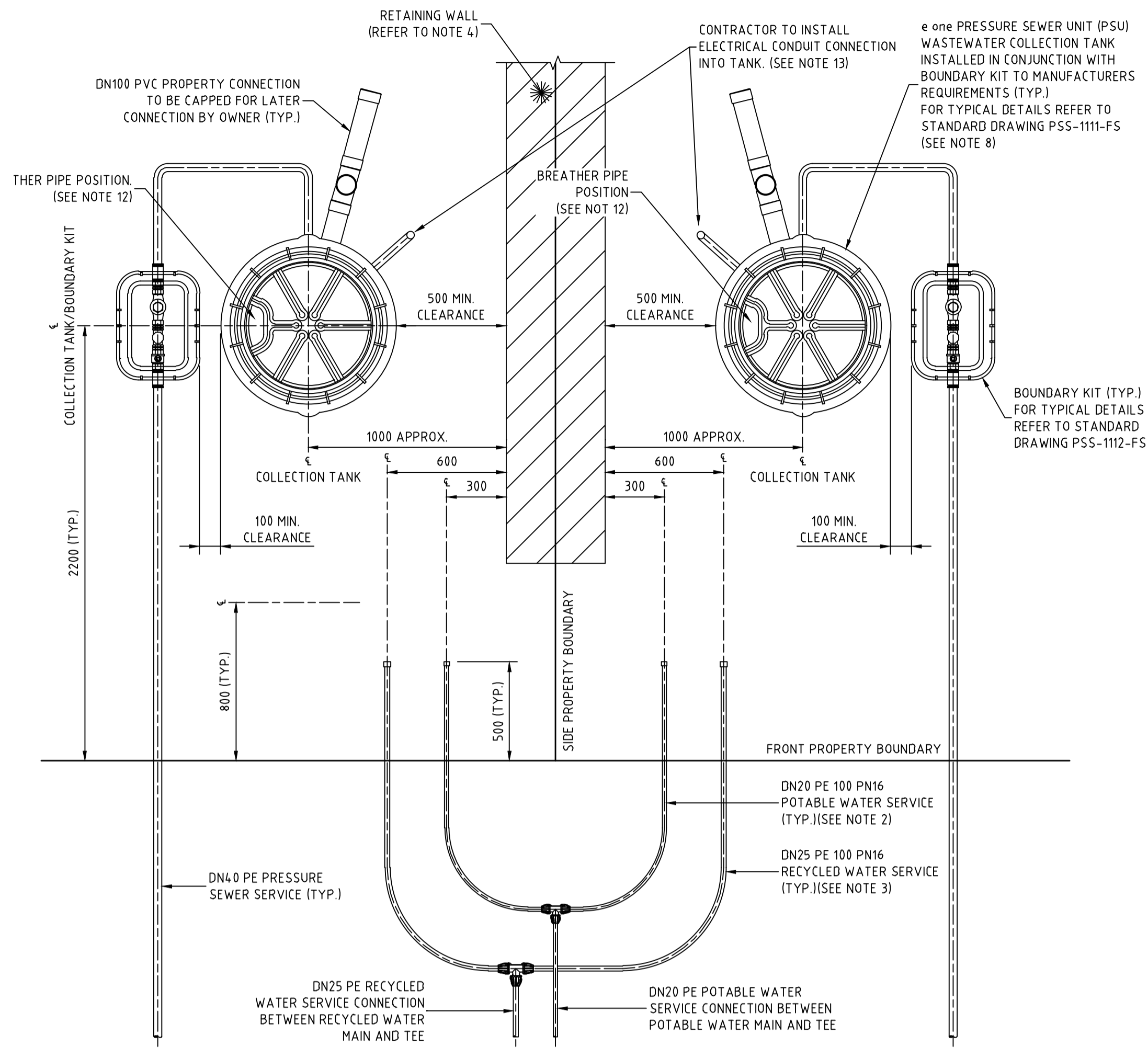
CLIENT
altogether.

PROPERTY DESCRIPTION
PROPOSED SUBDIVISION
STAGE 23
FERRY PARADE, HUNTLÉE

PROJECT POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION
PLAN TITLE TYPICAL PIPEWORK TRENCHING DETAILS
PROJECT No. 240037(23) DISCIPLINE - WAC - NUMBER 019 REV. 2



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.
 - POSITION TANK LID SUCH THAT BREATHER PIPE LOCATION IS ON THE DOWNSLOPE SIDE OF THE BLOCK WHERE POSSIBLE.
 - CONTRACTOR TO INSTALL ELECTRICAL CONDUIT CONNECTION. ELECTRICAL GROMMET SUPPLIED WITH TANK AND LOCATED LOOSE WITHIN TANK. Ø25 CONDUIT TO BE PROVIDED WITH LONG RADIUS SWEEP BEND INTO THE VERTICAL POSITION AND LEFT CAPPED ABOVE GROUND LEVEL FOR FUTURE ELECTRICAL CONNECTION BY ELECTRICIAN ONCE DWELLING IS CONSTRUCTED.

WORK AS CONSTRUCTED
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 COMPANY ADW Johnson Pty Ltd COMPANY
 NAME MATHEW DAVID LONDON NAME
 SIGNED [Signature] DATE 30/09/2021 SIGNED [Signature] DATE
 REGISTERED SURVEYOR CONSTRUCTION MANAGER

ORIGIN OF W.A.C. LEVELS
 PM 20029
 E: 345 612 942 Co-Ord System: MGA Ground
 N: 6 382 878 917 MGA Datum: GDA94
 RL: 77.675m MGA Zone: 56

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 BY ADW Johnson Pty Ltd
 Date Approved: 25/03/2021

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REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY	SCALES
A	05.02.2021	PRELIMINARY ISSUE	G.S.	J.N.	T.S.	C.B.	0 0.1 0.2 0.3 0.4 A1 / A3
B	19.02.2021	CLIENT COMMENTS	G.S.	T.S.	T.S.	C.B.	1:10 / 1:20
C	01.03.2021	UPDATED DESIGN TIN, STREET PRESSURE MAIN TYPICAL DETAIL	G.S.	T.S.	T.S.	C.B.	0 0.4 0.8 A1 / A3
D	22.03.2021	ALTOGETHER COMMENTS	T.S.	T.S.	T.S.	C.B.	1:20 / 1:40
O	25.03.2021	FOR CONSTRUCTION	G.S.	C.B.	T.S.	C.B.	
1	24.06.2021	UPDATE TANK LEVEL DETAILS	G.S.	C.B.	T.S.	C.B.	
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 www.adwjohnson.com.au
 ABN 62 129 445 398

CLIENT

PROPERTY DESCRIPTION
 PROPOSED SUBDIVISION
 STAGE 23
 FERRY PARADE, HUNTLÉE

PROJECT	POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION		
PLAN TITLE	TYPICAL SERVICE CONNECTIONS DETAILS		
PROJECT No.	DISCIPLINE	NUMBER	REV.
240037(23)	- WAC -	020	2



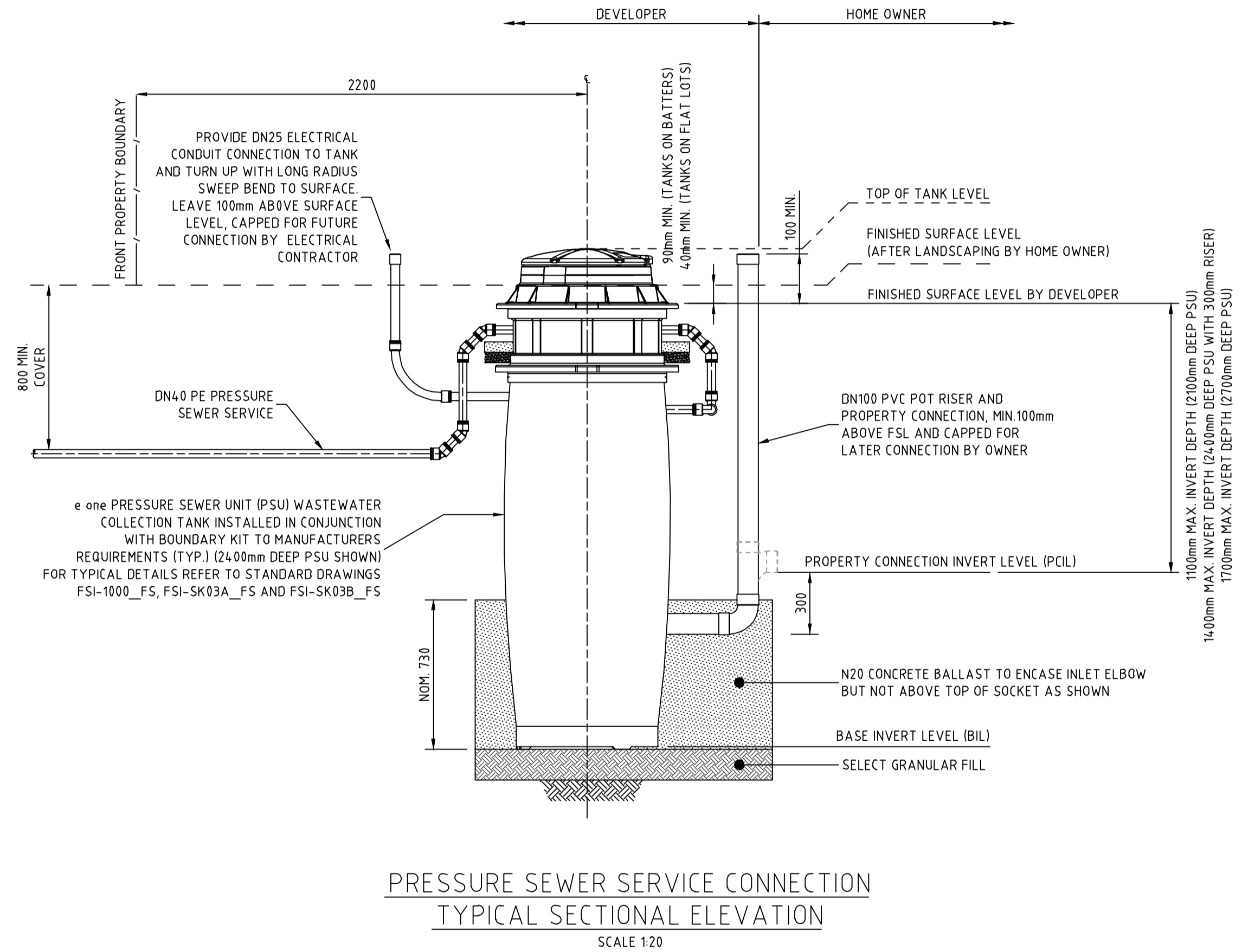
WASTEWATER COLLECTION TANK DETAILS

Table with columns: LOT NUMBER, TOP OF TANK, TANK FSL, BASE IL, CONNECTION IL, TANK CAPACITY, TANK LOCATION, EASTING, NORTHING, TOP OF COLLECTION TANK LID, CALCULATED WAC SANITARY DRAINAGE INVERT LEVEL, WAC V'S DESIGN INVERT LEVEL COMPARISON. Rows 2301-2347.

UPDATED DETAILS

WASTEWATER COLLECTION TANK COUNT

Table with columns: TANK SIZE, NUMBER OF. Rows: 2100 (43), 2400 (0), 2700 (3).



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ORIGIN OF W.A.C. LEVELS. PM 20029, E: 345 612 942, 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: 25/03/2021

AS CONSTRUCTED

100mm AT FULL SIZE

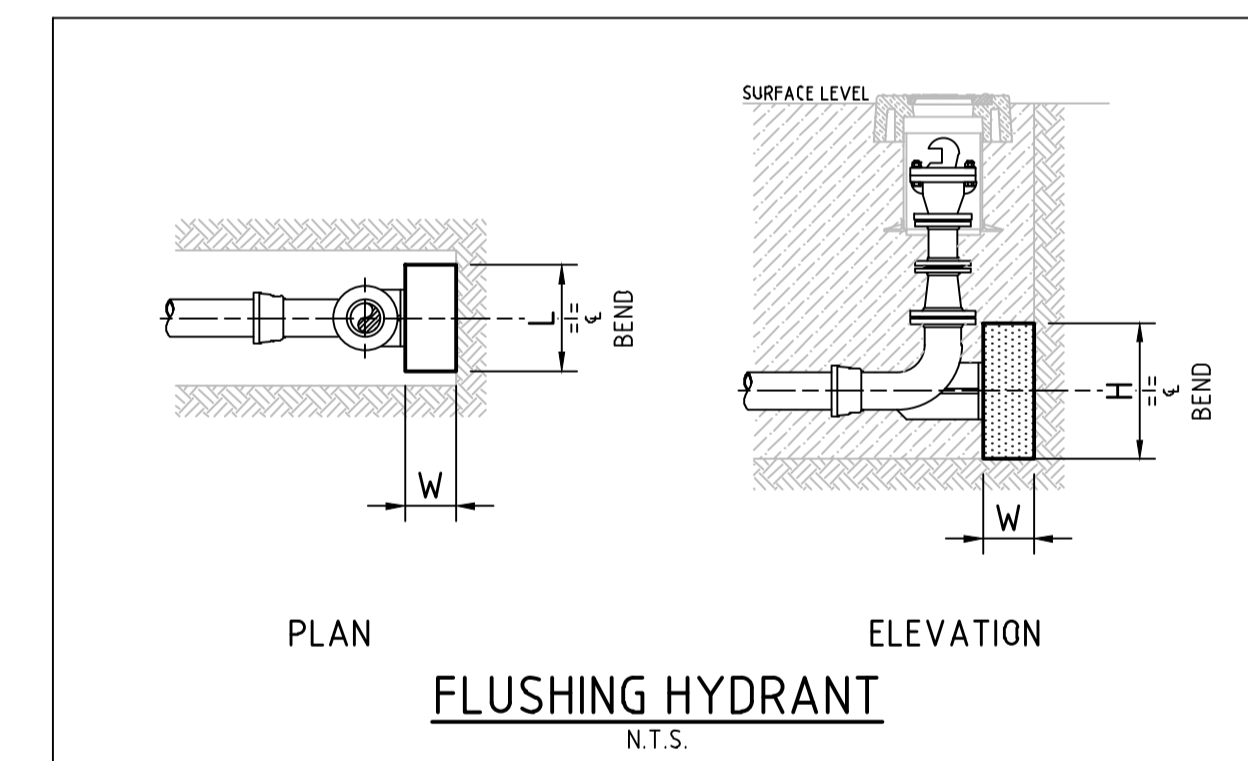
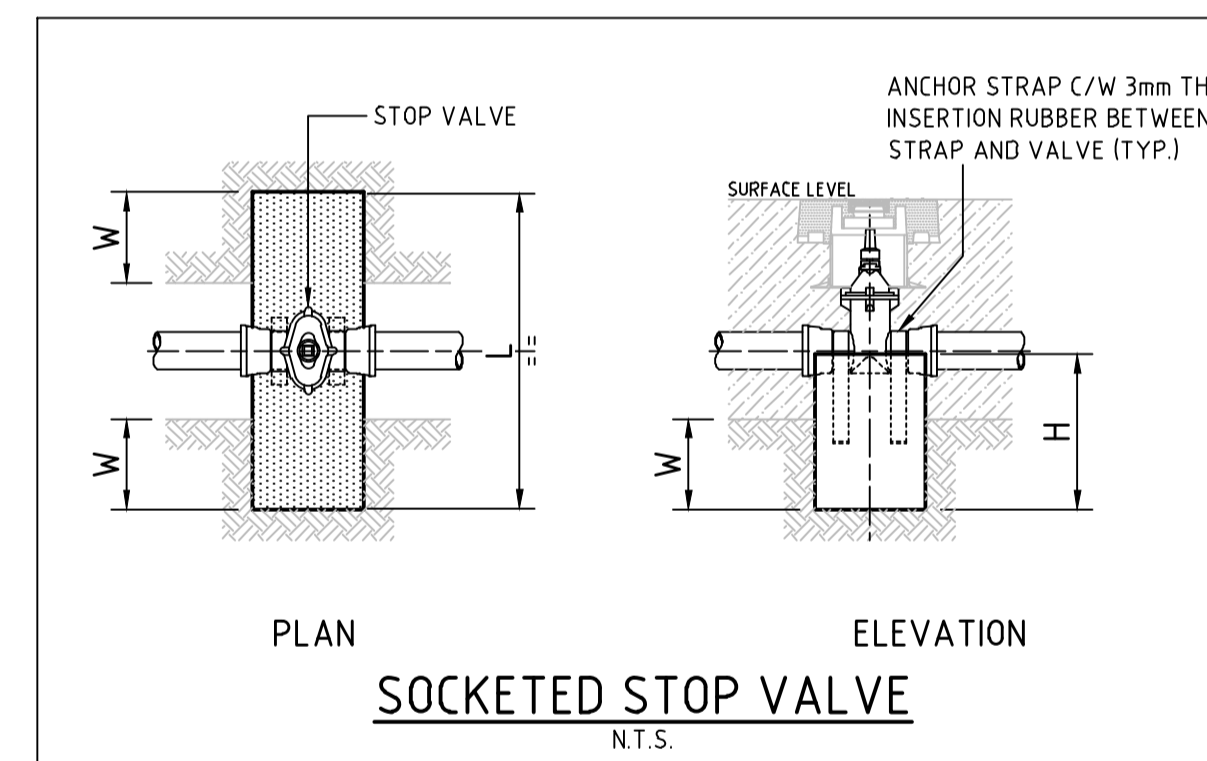
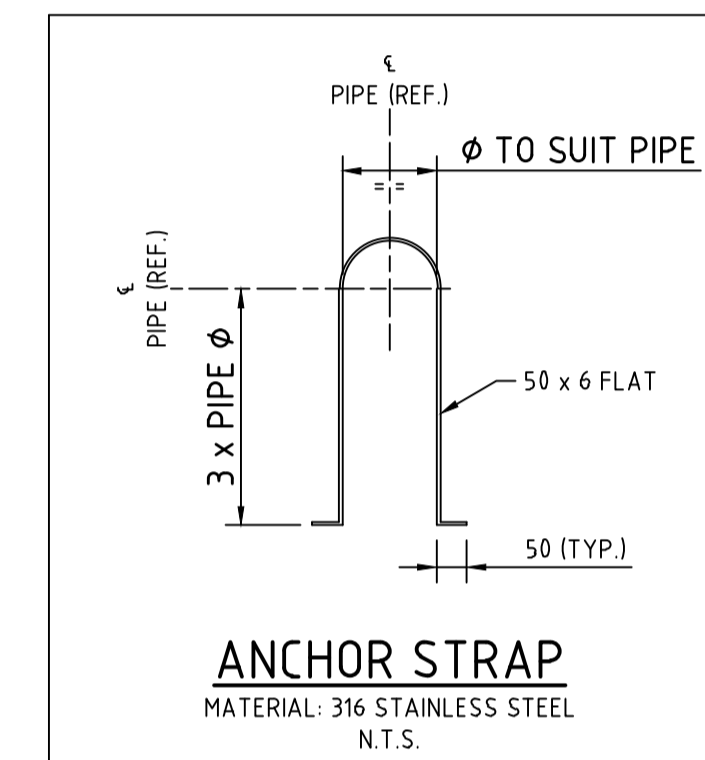
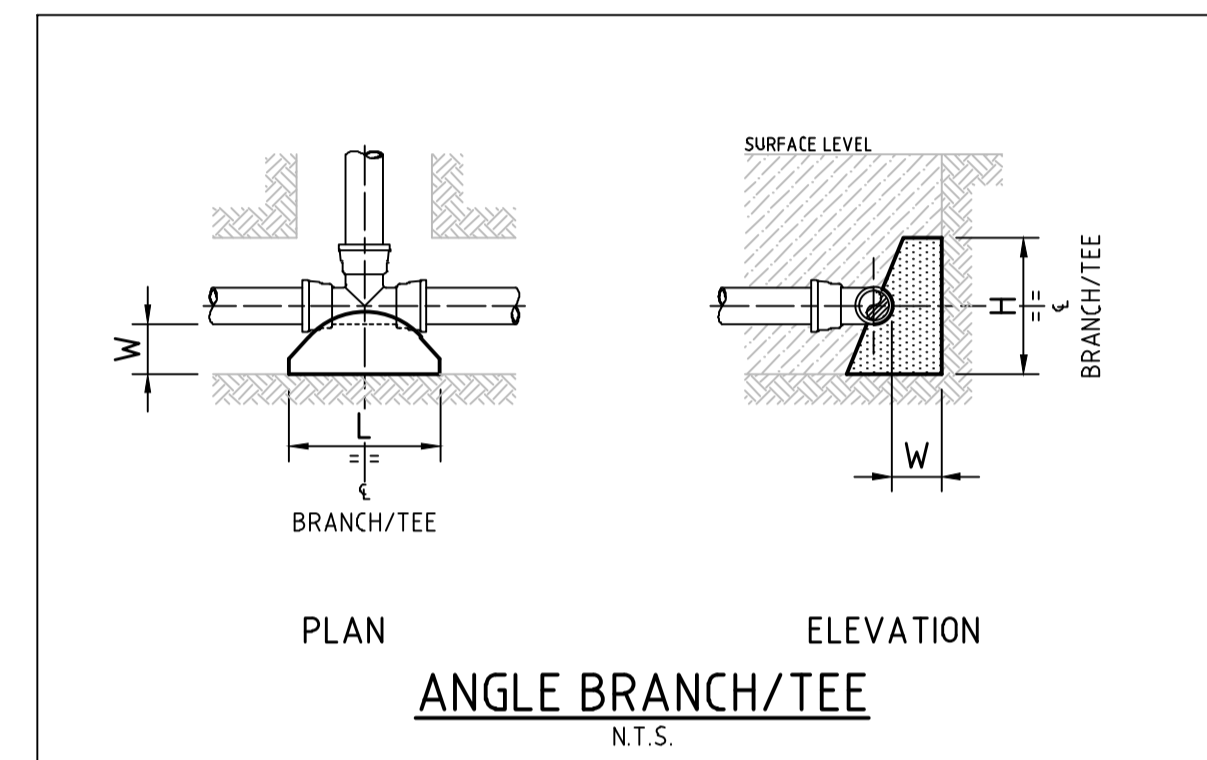
Bottom section containing revision table, scales, logos for ADW Johnson and Hunter Office, client information, property description, and project details.



THRUST BLOCK NOTES:

- "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.
- CONCRETE THRUST BLOCKS ARE TO BE PROVIDED FOR ALL FITTINGS IN ACCORDANCE WITH TABLE.
- 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.
- THRUST BLOCKS ARE TO BE CONSTRUCTED SUCH THAT THEY TRANSFER THE THRUST ONTO UNDISTURBED GROUND. THRUST BLOCKS ARE NOT TO INTERFERE WITH OTHER SERVICES.
- 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°.
- CONCRETE FOR THE THRUST BLOCKS TO BE GRADE S25 USING CEMENT TYPE "SR" TO AS3972. CONCRETE TO BE MECHANICALLY VIBRATED.
- CONCRETE THRUST BLOCKS ARE TO BE CURED FOR A MINIMUM OF 7 DAYS BEFORE BEING SUBJECTED TO ANY THRUST LOAD.
- REFER TO WAT-1205-V FOR GENERAL FITTING THRUST BLOCK ARRANGEMENTS.
- REFER TO WAT-1207-V FOR GENERAL VALVE AND VERTICAL BEND THRUST BLOCK ARRANGEMENTS.
- THRUST BLOCK TO EXTEND 300mm MINIMUM INTO BASE AND SIDE WALLS OF TRENCH.
- 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 DN150 EQUAL TEE	100	1000	25.00	0.25	0.50	0.50	0.30
2	DN150 x DN100 REDUCING TEE	100	1000	12.00	0.12	0.40	0.30	0.30
3	DN150 SOCKETED STOP VALVE	100	1000	25.00	0.25	1.05	0.46	0.30
4	DN150 FLUSHING HYDRANT	100	1000	25.00	0.25	0.50	0.50	0.30
5	DN100 x DN100 EQUAL TEE	100	1000	12.00	0.12	0.40	0.30	0.30
6	DN100 SOCKETED STOP VALVE	100	1000	12.00	0.12	1.05	0.44	0.30
7	DN100 FLUSHING HYDRANT	100	1000	12.00	0.12	0.40	0.30	0.30



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100mm AT FULL SIZE

REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY	SCALES	CLIENT	PROPERTY DESCRIPTION	PROJECT	PLAN TITLE	PROJECT No.	DISCIPLINE	NUMBER	REV.
A	05.02.2021	PRELIMINARY ISSUE	G.S.	J.N.	T.S.	C.B.		<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>PROPOSED SUBDIVISION STAGE 23 FERRY PARADE, HUNTLÉE</p>	<p>POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION</p>	<p>THRUST BLOCK DETAILS</p>	<p>240037(23)</p>	<p>- WAC -</p>	<p>022</p>	<p>2</p>
B	19.02.2021	CLIENT COMMENTS	G.S.	T.S.	T.S.	C.B.									
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2	30.09.2021	WORK AS CONSTRUCTED	I.B.	C.B.	T.S.	C.B.									
DESIGN FILE N:\ ALL DIMENSIONS ARE IN METRES. DO NOT SCALE								SURVEYED ADW Johnson DATUM A.H.D.		PROJECT No. 240037(23) DISCIPLINE - WAC - NUMBER 022 REV. 2					