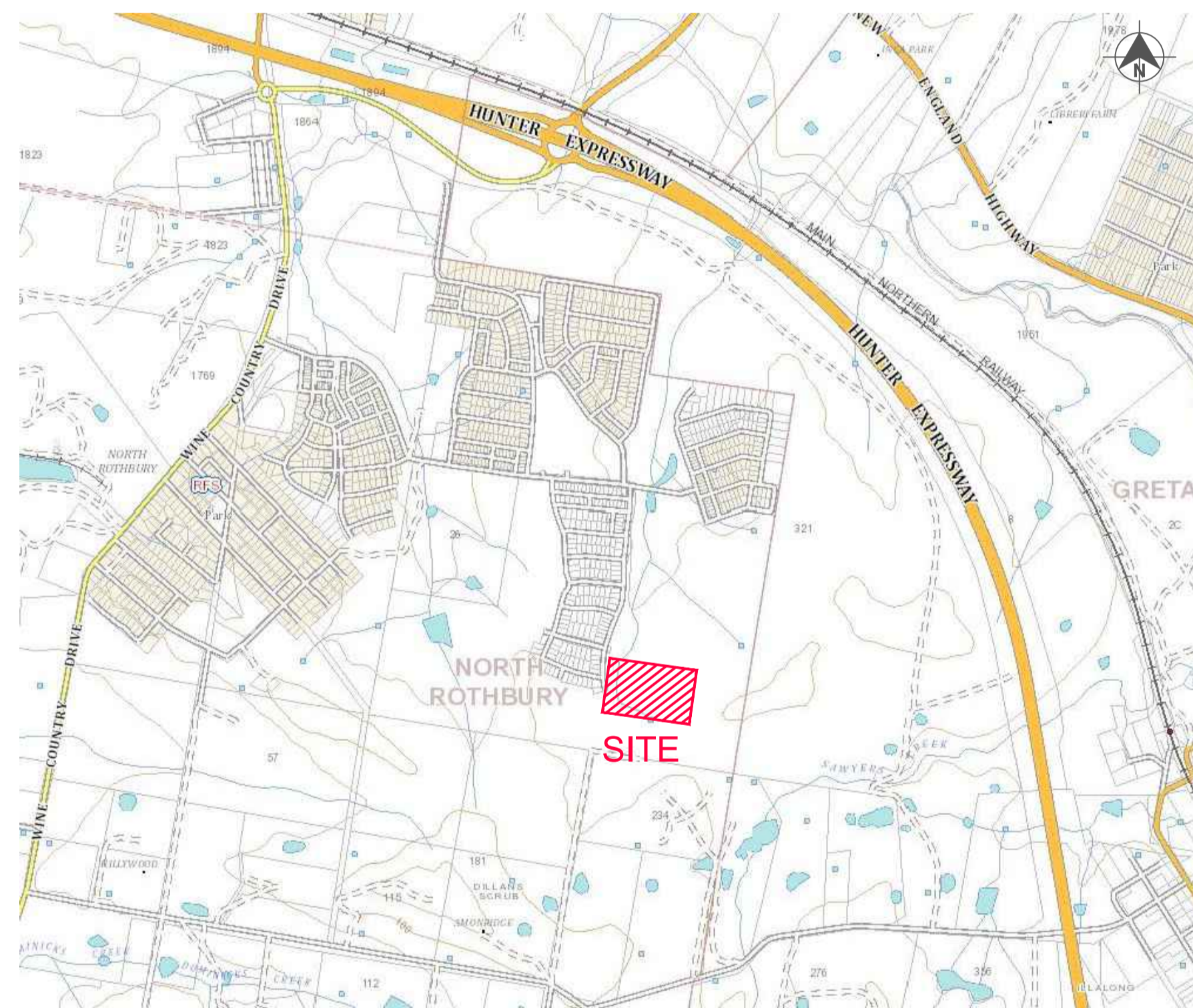


PROPOSED SUBDIVISION STAGE 30 HUNTLEE



LOCALITY SKETCH
NOT TO SCALE

DRAWING INDEX	
Sheet Title	Sheet Description
240037(30)-WAC-001	COVER SHEET, LOCALITY PLAN & DRAWING INDEX
240037(30)-WAC-002	GENERAL NOTES
240037(30)-WAC-003	OVERALL SITE PLAN
240037(30)-WAC-101	POTABLE WATER DETAIL PLAN - SHEET 1
240037(30)-WAC-102	POTABLE WATER DETAIL PLAN - SHEET 2
240037(30)-WAC-103	POTABLE WATER DETAIL PLAN - SHEET 3
240037(30)-WAC-104	POTABLE WATER DETAIL PLAN - SHEET 4
240037(30)-WAC-105	POTABLE WATER DETAIL PLAN - SHEET 5
240037(30)-WAC-201	RECYCLED WATER DETAIL PLAN - SHEET 1
240037(30)-WAC-202	RECYCLED WATER DETAIL PLAN - SHEET 2
240037(30)-WAC-203	RECYCLED WATER DETAIL PLAN - SHEET 3
240037(30)-WAC-204	RECYCLED WATER DETAIL PLAN - SHEET 4
240037(30)-WAC-205	RECYCLED WATER DETAIL PLAN - SHEET 5
240037(30)-WAC-301	PRESSURE SEWER DETAIL PLAN - SHEET 1
240037(30)-WAC-302	PRESSURE SEWER DETAIL PLAN - SHEET 2
240037(30)-WAC-303	PRESSURE SEWER DETAIL PLAN - SHEET 3
240037(30)-WAC-304	PRESSURE SEWER DETAIL PLAN - SHEET 4
240037(30)-WAC-305	PRESSURE SEWER DETAIL PLAN - SHEET 5
240037(30)-WAC-401	TYPICAL PIPEWORK TRENCHING DETAILS
240037(30)-WAC-402	TYPICAL SERVICE CONNECTION DETAILS
240037(30)-WAC-403	WASTE WATER COLLECTION TANK LEVEL DETAILS
240037(30)-WAC-404	THRUST BLOCK DETAILS
240037(30)-WAC-405	FITTINGS TABLE
240037(30)-WAC-406	FITTINGS TABLE

WORK AS CONSTRUCTED
 THESE DRAWINGS ARE AN ACCURATE REPRESENTATION AS AT 16/03/2023 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 *[Signature]* DATE 21/02/2023 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

APPROVED FOR CONSTRUCTION
 BY ADW Johnson Pty Ltd
 Date Approved: 20/12/2021

AS CONSTRUCTED

PLAN
 SCALE 1:1000

REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY	SCALES
B	11.10.2021	FOR APPROVAL	G.S.	C.B.	G.S.	C.B.	
0	20.12.2021	FOR CONSTRUCTION	G.S.	C.B.	G.S.	C.B.	
1	01.03.2022	FOR CONSTRUCTION	G.S.	C.B.	G.S.	C.B.	
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3	21.09.2022	FOR CONSTRUCTION	G.S.	C.B.	G.S.	C.B.	
4	16.01.2023	UPDATED HYD. LOCATIONS ADJACENT TO LOTS 3030/3031	G.S.	C.B.	G.S.	C.B.	
5	16.03.2023	WORK AS CONSTRUCTED	G.S.	S.S.	G.S.	M.L.O.	

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

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 ABN 62 129 445 398

PROPERTY DESCRIPTION
**PROPOSED SUBDIVISION
 STAGE 30
 HUNTLEE**

SURVEYED
 Daly.Smith Pty Ltd

DATUM
 GDA94 MGA56 - A.H.D.

PROJECT **POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION**

PLAN TITLE
COVER SHEET, LOCALITY PLAN & DRAWING INDEX

PROJECT No. **240037(30)** DISCIPLINE **- WAC -** NUMBER **001** REV. **5**

240072(30)-WAC-001 to 003

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.
3. ALL SERVICES SHOWN ARE INDICATIVE ONLY. A CURRENT SERVICES SEARCH AND SITE CHECK OF ALL EXISTING SERVICES WILL BE REQUIRED PRIOR TO COMMENCEMENT OF ANY WORKS.
4. PRESSURE SEWER MAINS SHALL BE BLACK POLYETHYLENE (PE100 PN16) WITH A CREAM STRIPE AS PER WSA 02-2007 AND ALTOGETHER SUPPLEMENTARY MANUAL TO WSAA.
5. ALL POLYETHYLENE MAINS <= DN200 SHALL BE JOINED USING ELECTROFUSION JOINTING TECHNIQUES IN ACCORDANCE WITH MANUFACTURERS REQUIREMENTS.
6. MAIN TO BE LAID GENERALLY AS INDICATED IN SERVICE ALLOCATION DIAGRAMS. INSTRUCTION NOTES SHALL TAKE PRECEDENCE OVER DIAGRAMS WHERE PROVIDED.
7. MAINS CROSSING UNDER EXISTING DRIVEWAYS (SEALED, PAVED OR DECORATIVE) SHALL BE CONDUCTED BY UNDER BORING ONLY UNLESS PERMISSION IS GRANTED BY THE AFFECTED PROPERTY OWNER.
8. MAINS WITHIN 2.0m OF ELECTRICITY OR POWER POLES SHALL BE CONDUCTED BY BORING TECHNOLOGY (UNLESS AGREED TO BY THE ALTOGETHER REPRESENTATIVE).
9. ALL PIPE BEDDING MATERIAL SHALL COMPLY WITH 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.
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 (ANTI-CLOCKWISE CLOSING), SHALL BE RESTRAINED IN ACCORDANCE WITH WAT-1207 AND SHALL COMPLY WITH ALTOGETHER STANDARD DRAWING PSS-1015-FS.
19. ALL MAINS SHALL BE TESTED IN ACCORDANCE WITH WSA 07-2007 VERSION 1.1.
20. FOR LOTS WITH TANKS IN THE REAR. 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).
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 ALTOGETHER 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 ALTOGETHER 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 213.4) ARE:
26. BOUNDARY KITS (COMPLETE) SHALL BE NOV SUPPLIED (NOV PSS-BK4).
27. ALL MAINS (UP TO THE BOUNDARY KIT) SHALL BE PRESSURE TESTED TO 1600 kPa.
28. ALL MAINS SHALL BE FLUSHED WITH WATER TO REMOVE ANY DEBRIS PRIOR TO COMMISSIONING.
29. SURFACE IDENTIFICATION MARKERS ARE TO BE PROVIDED TO ALTOGETHER REQUIREMENTS.
30. ROPE OFF ALL PRESSURE SEWER UNITS AND FLUSHING POINTS TO LIMIT DAMAGE DURING CONSTRUCTION.
31. PRESSURE TRANSMITTER TO BE MEASUREX MRB21 GENERAL PURPOSE TRANSMITTER WITH MICROSPIDER LOGGING TELEMETRY AND ALARM PER ALTOGETHER REQUIREMENTS.
32. WORK-AS-CONSTRUCTED DOCUMENTATION SHALL BE PROVIDED BY THE CONTRACTOR STRICTLY IN ACCORDANCE WITH THE ALTOGETHER Q.A. SUBMISSION CHECKLIST.
33. ELECTRICAL GLAND CONNECTION SUPPLIED LOOSE WITH EACH SEWER POT IS TO BE INSTALLED BY THE CIVIL CONTRACTOR AND ELECTRICAL CONDUIT ATTACHED TO THE TANK FOR FUTURE ELECTRICAL WIRING.

POTABLE WATER AND RECYCLED WATER NOTES:

- 1. ALL WORKS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE DESIGN DRAWINGS, ALTOGETHER SUPPLEMENTARY MANUAL TO WSAA AND WSA 03-2011-31 (SYDNEY WATER EDITION 2014).
2. POTABLE WATER SHALL BE UTILISED FOR FIRE FIGHTING PURPOSES.
3. ALL EQUIPMENT, MATERIALS AND ACCESSORIES USED IN THIS CONTRACT SHALL BE NEW, SHALL CONFORM TO THE APPROPRIATE CURRENT AUSTRALIAN STANDARDS AND SHALL COMPLY WITH ALTOGETHER REQUIREMENTS.
4. ALL SERVICES SHOWN ARE INDICATIVE ONLY. A CURRENT SERVICES SEARCH AND SITE CHECK OF ALL EXISTING SERVICES WILL BE REQUIRED PRIOR TO COMMENCEMENT OF ANY WORKS.
5. THE CONSTRUCTOR SHALL VERIFY WITH THE SITE SUPERVISOR THE POSITION AND LEVEL OF ALL EXISTING AND PROPOSED BOUNDARIES PERTINENT TO THE INFRASTRUCTURE INSTALLATIONS.
6. MAIN TO BE LAID GENERALLY AS INDICATED IN SERVICE ALLOCATION DIAGRAMS. INSTRUCTION NOTES SHALL TAKE PRECEDENCE OVER DIAGRAMS WHERE PROVIDED.
7. 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.
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 ALTOGETHER REPRESENTATIVE TO DETERMINE THE NEED TO MODIFY EMBEDMENT/TRENCHFILL TYPE AND THE NEED 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.
16. PROPERTY SERVICE CONNECTION IS SHALL BE FLUSHED AND LOCKED (BY THE ALTOGETHER REPRESENTATIVE) FOLLOWING SUCCESSFUL PRESSURE TESTING.
17. SURFACE FITTINGS LOCATED IN TRAFFICABLE AREAS (i.e. ROADWAYS, PATHS etc. SHALL HAVE HEAVY DUTY SURROUNDS INSTALLED.
18. ALL MAINS SHALL BE PRESSURE TESTED TO 1500kPa IN ACCORDANCE WITH CLAUSE 19.4 OF WSA03-2011 (SYDNEY WATER EDITION 2014).
19. ALL MAINS SHALL BE FLUSHED WITH WATER TO REMOVE ANY DEBRIS PRIOR TO COMMISSIONING.
20. WATER QUALITY TESTING SHALL BE IN ACCORDANCE WITH WSA 03-2011-31(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 ALTOGETHER 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 ALTOGETHER 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) :
26. SURFACE IDENTIFICATION MARKERS ARE TO BE PROVIDED TO ALTOGETHER REQUIREMENTS.
27. PRESSURE TRANSMITTER TO BE MEASUREX MRB21 GENERAL PURPOSE TRANSMITTER WITH MICROSPIDER LOGGING TELEMETRY AND ALARM PER ALTOGETHER REQUIREMENTS.
28. WORK-AS-CONSTRUCTED DOCUMENTATION SHALL BE PROVIDED BY THE CONTRACTOR STRICTLY IN ACCORDANCE WITH THE ALTOGETHER Q.A. SUBMISSION CHECKLIST.
29. WHERE THE PIPE GRADE EXCEEDS 5% , TRENCHSTOPS SHALL BE CONSTRUCTED IN ACCORDANCE WITH WAT-1209 AND WAT-1210 AT THE SPACING OF 100/GRADE%. 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

Table with columns: UTILITY (EXISTING OR PROPOSED SERVICE), MINIMUM HORIZONTAL CLEARANCE (mm), MINIMUM VERTICAL CLEARANCE (mm). Rows include Water Mains, Gas Mains, Telecommunication Conduits, Electricity Conduits, Stormwater Drains, Sewers, and Kerbs.

NOTES:

- 1. VERTICAL CLEARANCES APPLY WHERE PIPELINES CROSS OTHER UTILITY SERVICES, EXCEPT IN THE CASE OF WATER/SEWER MAINS WHEN A VERTICAL SEPARATION SHALL ALWAYS BE MAINTAINED, EVEN WHEN THE PRESSURE SEWER AND WATER MAIN ARE PARALLEL.
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.
6. WHERE A PARALLEL SEWER IS AT MINIMUM VERTICAL CLEARANCE LOWER THAN THE WATER MAIN (500mm), MAINTAIN A MINIMUM HORIZONTAL OF 1000mm.
7. FOR PRESSURE SEWER LATERALS, MINIMUM VERTICAL CLEARANCES MAY BE REDUCED TO 150mm PROVIDING THERE IS NO JOINT IN THE LATERAL WITHIN 500mm OF EITHER SIDE OF THE SERVICE BEING CROSSED.
8. AN ADDITIONAL CLEARANCE FROM HIGH VOLTAGE ELECTRICAL INSTALLATIONS SHOULD BE MAINTAINED ABOVE THE CONDUITS OR CABLES TO ALLOW FOR A PROTECTIVE BARRIER AND MARKING TO BE PROVIDED.
9. WATER MAINS SHOULD ALWAYS CROSS OVER SEWERS AND STORMWATER DRAINS. 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.

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COMPANY ADW Johnson Pty Ltd
NAME MATHEW DAVID LONDON
SIGNED [Signature] DATE 21/02/2023 REGISTERED SURVEYOR

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: 20/12/2021

AS CONSTRUCTED

PLAN SCALE 1:1000

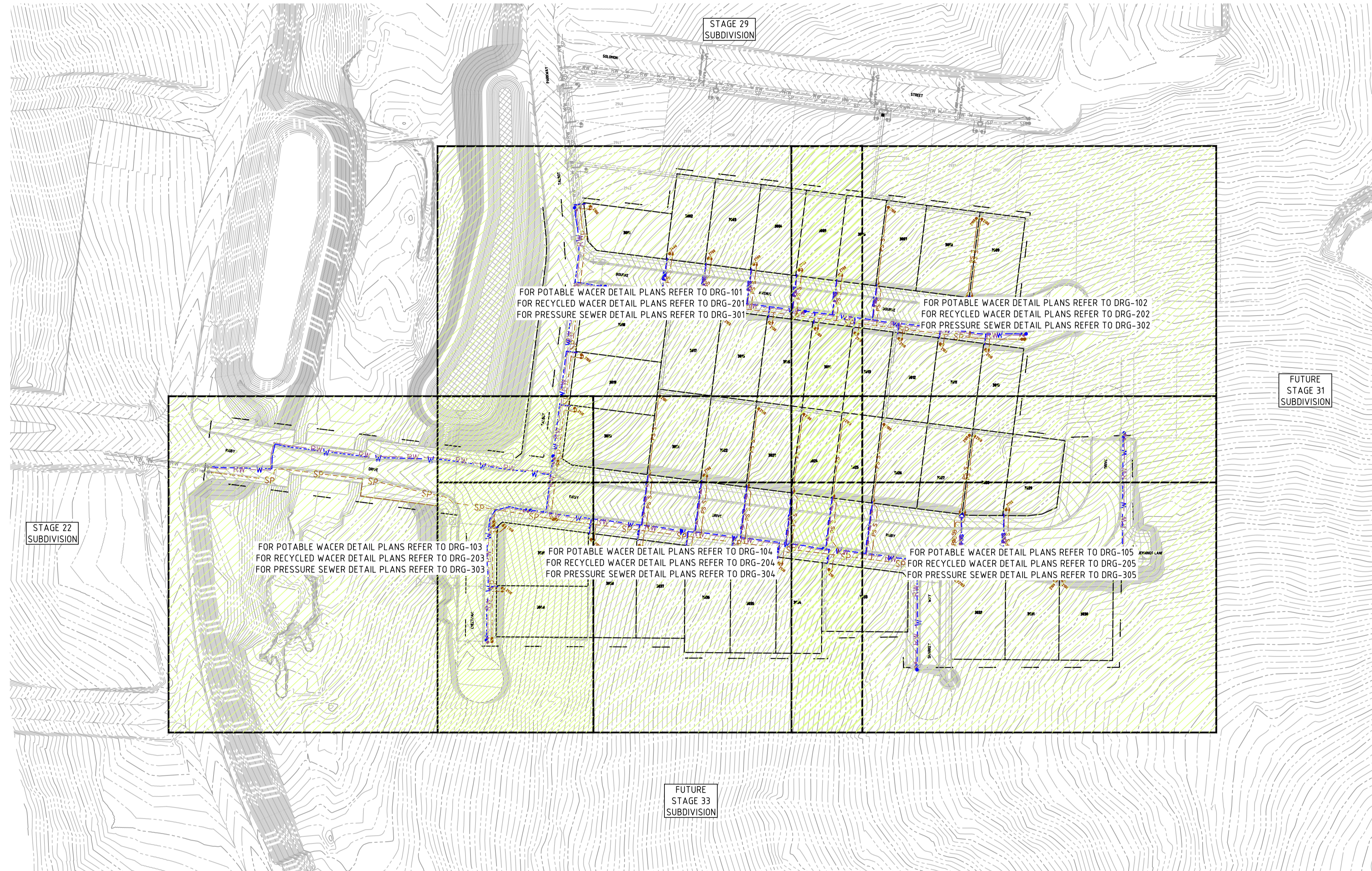
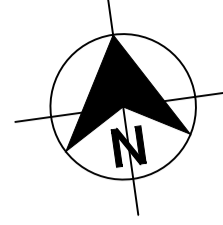


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www.adwjohson.com.au
ABN 62 129 445 398



CLIENT
PROPERTY DESCRIPTION
PROPOSED SUBDIVISION
STAGE 30
HUNTLEE
SURVEYED
Daly.Smith Pty Ltd
DATUM
GDA94 MGA56 - A.H.D.

Table with columns: PROJECT, PLAN TITLE, PROJECT No., DISCIPLINE, NUMBER, REV. Values: POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION; GENERAL NOTES; 240037(30); - WAC - 002; 5



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COMPANY ADW Johnson Pty Ltd COMPANY
 NAME MATHEW DAVID LONDON NAME
 SIGNED *mathew* DATE 21/02/2023 SIGNED DATE
 REGISTERED SURVEYOR CONSTRUCTION MANAGER

ORIGIN OF W.A.C. LEVELS

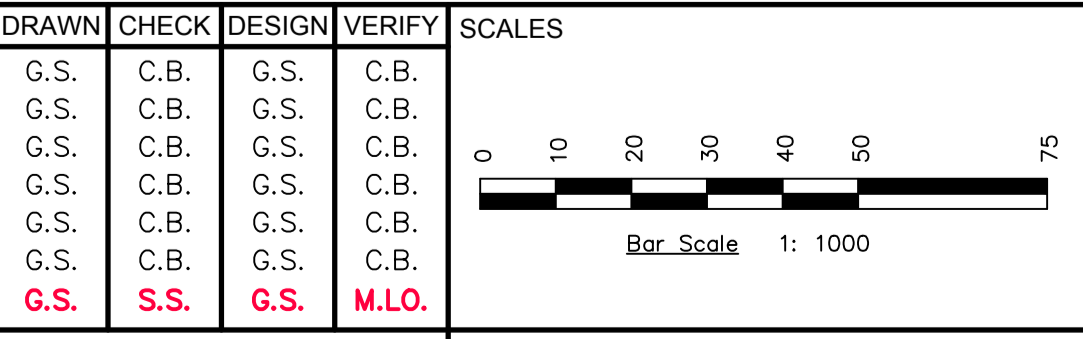
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 Date Approved: 20/12/2021

AS CONSTRUCTED

PLAN
SCALE 1:1000

REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY
B	11.10.2021	FOR APPROVAL	G.S.	C.B.	G.S.	C.B.
0	20.12.2021	FOR CONSTRUCTION	G.S.	C.B.	G.S.	C.B.
1	01.03.2022	FOR CONSTRUCTION	G.S.	C.B.	G.S.	C.B.
2	03.06.2022	FOR CONSTRUCTION	G.S.	C.B.	G.S.	C.B.
3	21.09.2022	FOR CONSTRUCTION	G.S.	C.B.	G.S.	C.B.
4	16.01.2023	UPDATED HYD. LOCATIONS ADJACENT TO LOTS 3030/3031	G.S.	C.B.	G.S.	C.B.
5	16.03.2023	WORK AS CONSTRUCTED	G.S.	S.S.	G.S.	M.L.O.



adw Johnson

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 ABN 62 129 445 398

CLIENT

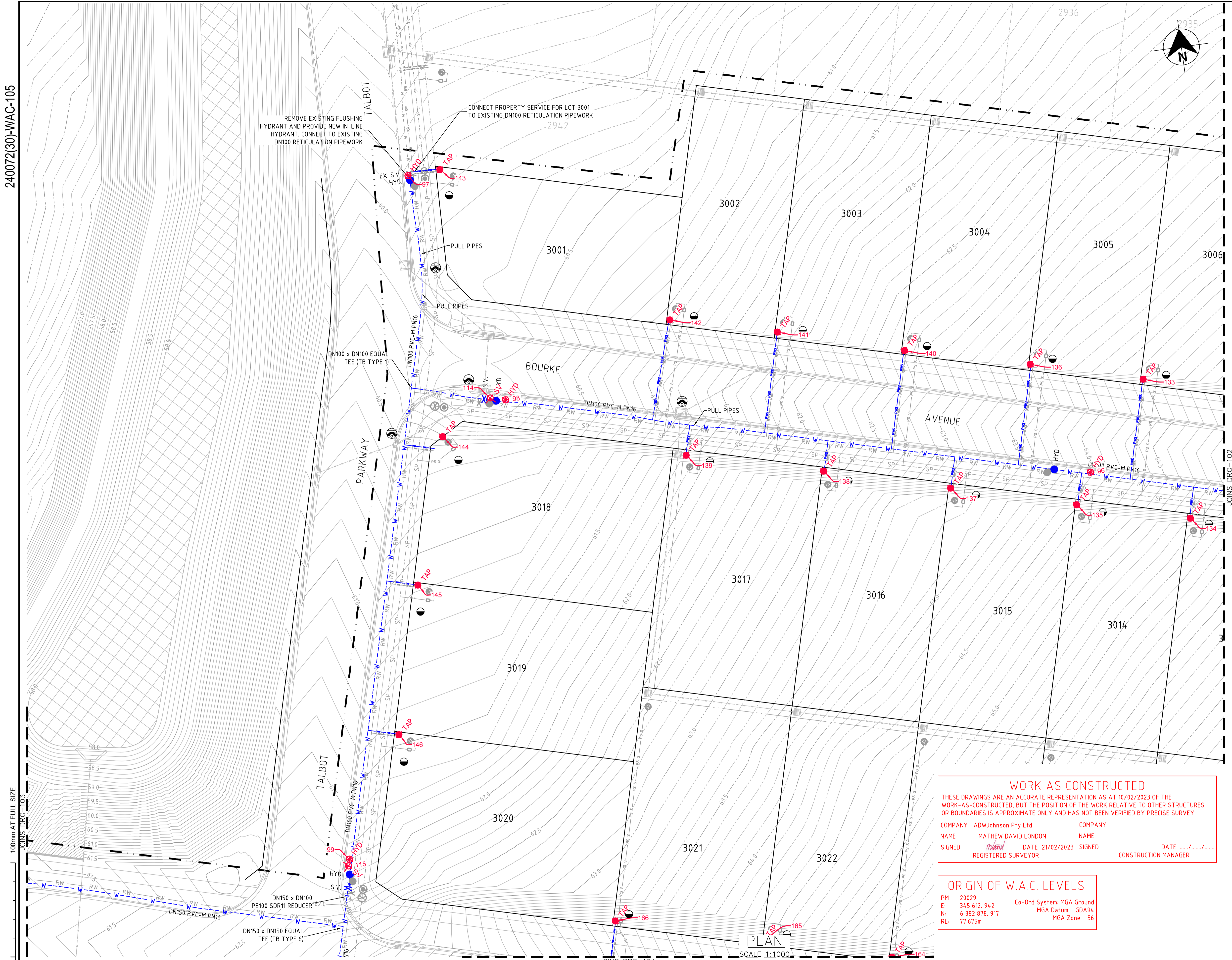
PROPERTY DESCRIPTION

PROPOSED SUBDIVISION
STAGE 30
HUNTLEE

SURVEYED: Daly.Smith Pty Ltd
 DATUM: GDA94 MGA56 - A.H.D.

PROJECT	POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION		
PLAN TITLE	OVERALL SITE PLAN		
PROJECT No.	240037(30)	DISCIPLINE	- WAC -
NUMBER	003	REV.	5

240072(30)-WAC-105



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
⤵	HORIZONTAL BEND ANGLE IN MAIN
- - -	PROPOSED EASEMENT
- - - - -	SUBDIVISION STAGE BOUNDARY

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

POTABLE WATER PIPE DATA

PIPE SIZE (mm)	PIPE MATERIAL	TOTAL LENGTH (m)
DN150	PVC-M PN16	422
DN100	PVC-M PN16	374
DN20 (LATERAL)	PE100 PN16	274

- NOTES:**
1. LOCALLY PULL PIPES TO AVOID ANY POTENTIAL CLASH WITH STORMWATER PIT.
 2. FOR RECYCLED WATER PIPEWORK DETAIL PLANS REFER TO DRGS-201 TO 205.
 3. FOR PRESSURE SEWER PIPEWORK DETAIL PLANS REFER TO DRGS-301 TO 305.
 4. FOR TYPICAL SERVICE CONNECTION DETAILS REFER TO DRG-402.

WORK AS CONSTRUCTED
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COMPANY	ADW Johnson Pty Ltd	COMPANY	
NAME	MATHEW DAVID LONDON	NAME	
SIGNED	<i>MatheW</i>	DATE	21/02/2023
	REGISTERED SURVEYOR	SIGNED	
		DATE	/ /
		CONSTRUCTION MANAGER	

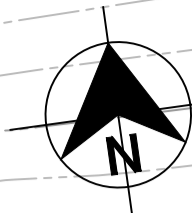
ORIGIN OF W.A.C. LEVELS

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: 20/12/2021

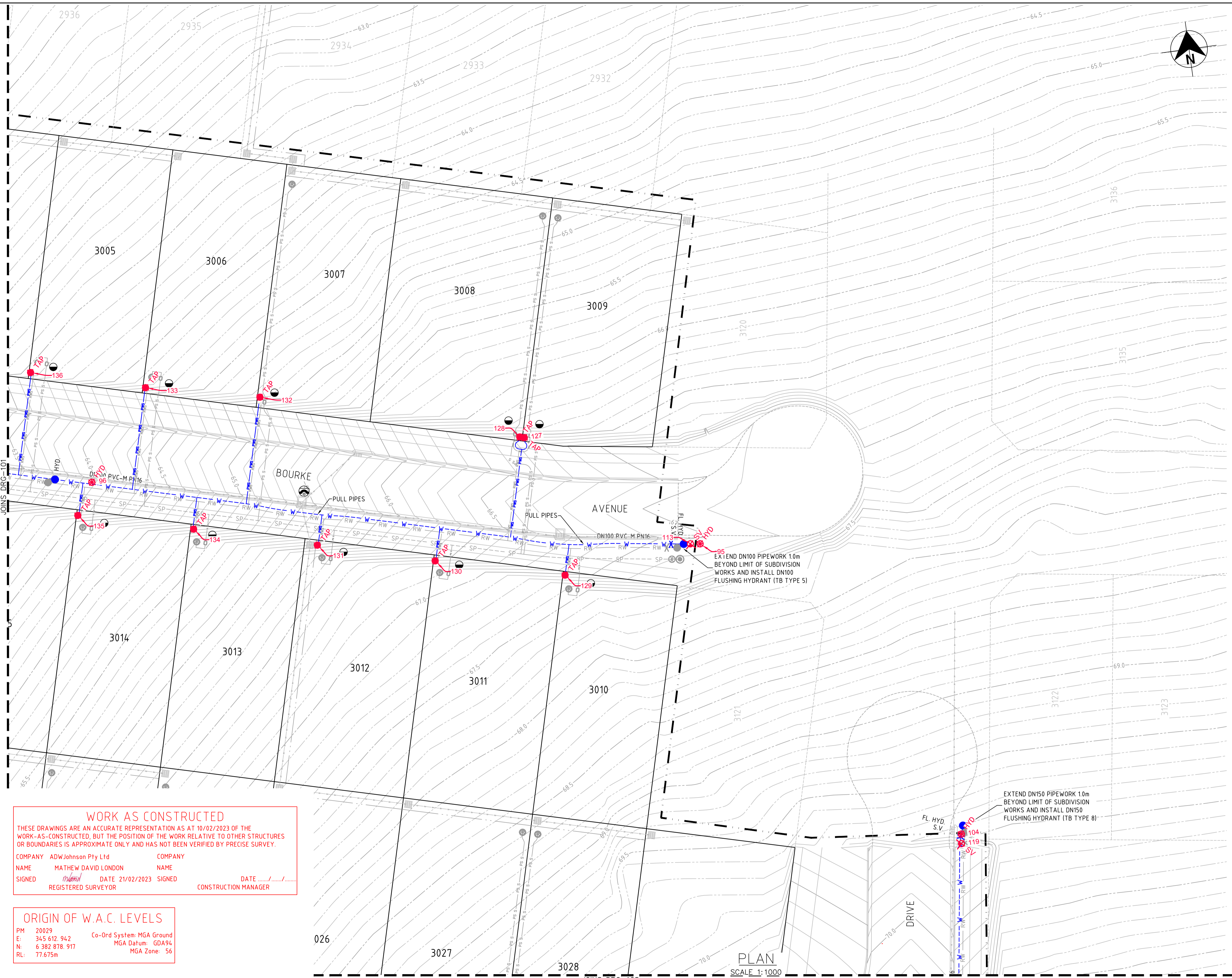
AS CONSTRUCTED

<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>B</td> <td>11.10.2021</td> <td>FOR APPROVAL</td> <td>G.S.</td> <td>C.B.</td> <td>G.S.</td> <td>C.B.</td> <td></td> </tr> <tr> <td>0</td> <td>20.12.2021</td> <td>FOR CONSTRUCTION</td> <td>G.S.</td> <td>C.B.</td> <td>G.S.</td> <td>C.B.</td> <td></td> </tr> <tr> <td>1</td> <td>01.03.2022</td> <td>FOR CONSTRUCTION</td> <td>G.S.</td> <td>C.B.</td> <td>G.S.</td> <td>C.B.</td> <td></td> </tr> <tr> <td>2</td> <td>03.06.2022</td> <td>FOR CONSTRUCTION</td> <td>G.S.</td> <td>C.B.</td> <td>G.S.</td> <td>C.B.</td> <td></td> </tr> <tr> <td>3</td> <td>21.09.2022</td> <td>FOR CONSTRUCTION</td> <td>G.S.</td> <td>C.B.</td> <td>G.S.</td> <td>C.B.</td> <td></td> </tr> <tr> <td>4</td> <td>16.01.2023</td> <td>UPDATED HYD. LOCATIONS ADJACENT TO LOTS 3030/3031</td> <td>G.S.</td> <td>C.B.</td> <td>G.S.</td> <td>C.B.</td> <td></td> </tr> <tr> <td>5</td> <td>16.03.2023</td> <td>WORK AS CONSTRUCTED</td> <td>G.S.</td> <td>S.S.</td> <td>G.S.</td> <td>M.L.O.</td> <td></td> </tr> </tbody> </table>	REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY	SCALES	B	11.10.2021	FOR APPROVAL	G.S.	C.B.	G.S.	C.B.		0	20.12.2021	FOR CONSTRUCTION	G.S.	C.B.	G.S.	C.B.		1	01.03.2022	FOR CONSTRUCTION	G.S.	C.B.	G.S.	C.B.		2	03.06.2022	FOR CONSTRUCTION	G.S.	C.B.	G.S.	C.B.		3	21.09.2022	FOR CONSTRUCTION	G.S.	C.B.	G.S.	C.B.		4	16.01.2023	UPDATED HYD. LOCATIONS ADJACENT TO LOTS 3030/3031	G.S.	C.B.	G.S.	C.B.		5	16.03.2023	WORK AS CONSTRUCTED	G.S.	S.S.	G.S.	M.L.O.			<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 30 HUNTLEE</p>	<p>PROJECT</p> <p>POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION</p>	<p>PLAN TITLE</p> <p>POTABLE WATER DETAIL PLAN - SHEET 1</p>	<p>PROJECT No.</p> <p>240037(30)</p>	<p>DISCIPLINE</p> <p>- WAC -</p>	<p>NUMBER</p> <p>101</p>	<p>REV.</p> <p>5</p>
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240072(30)-WAC-105

100mm AT FULL SIZE



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
⌒	HORIZONTAL BEND ANGLE IN MAIN
- - -	PROPOSED EASEMENT
- · - · -	SUBDIVISION STAGE BOUNDARY

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

POTABLE WATER PIPE DATA

PIPE SIZE (mm)	PIPE MATERIAL	TOTAL LENGTH (m)
DN150	PVC-M PN16	422
DN100	PVC-M PN16	374
DN20 (LATERAL)	PE100 PN16	274

- NOTES:**
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COMPANY ADW Johnson Pty Ltd COMPANY
 NAME MATHEW DAVID LONDON NAME
 SIGNED [Signature] DATE 21/02/2023 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

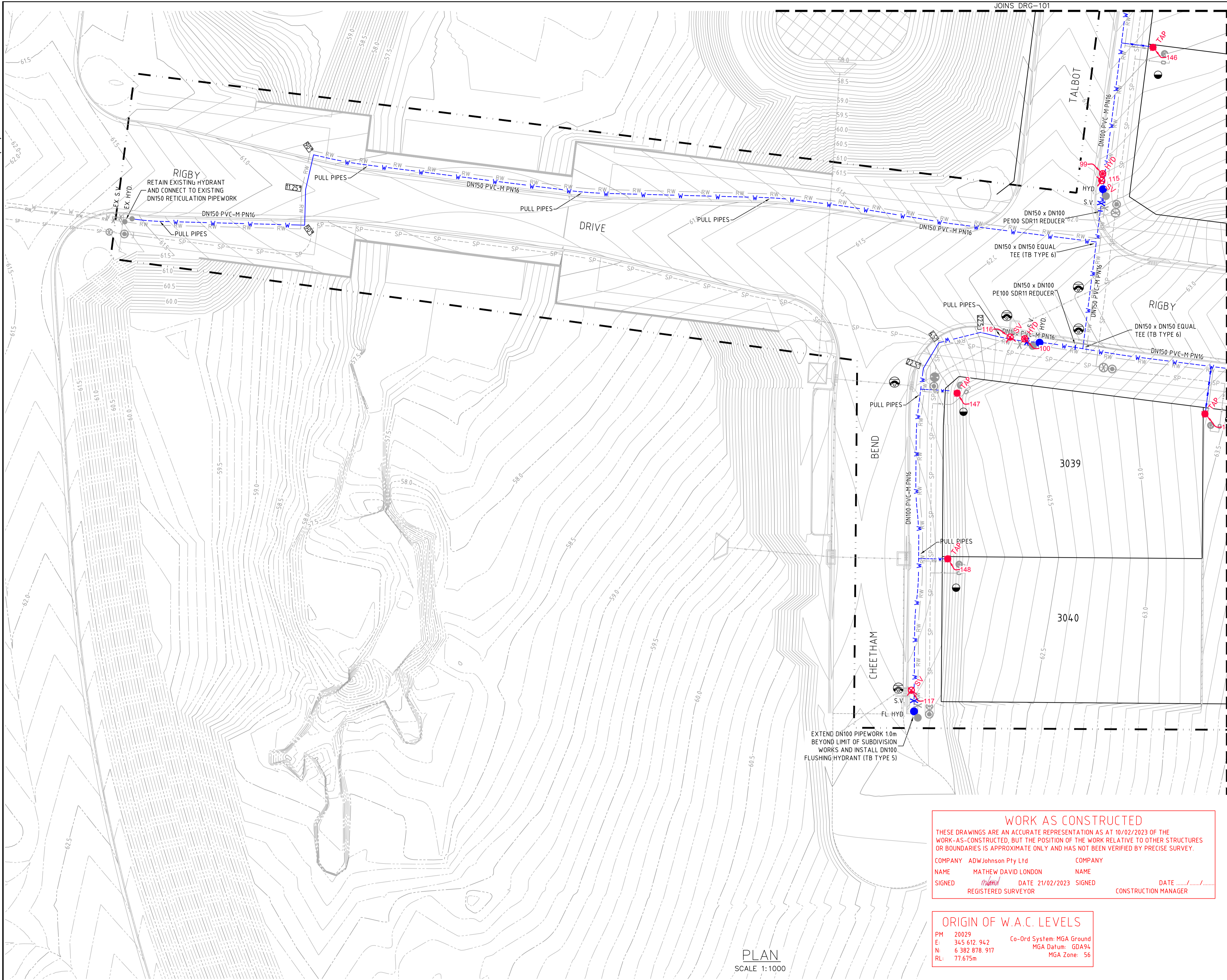
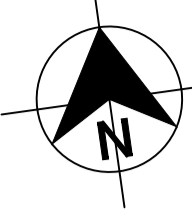
APPROVED FOR CONSTRUCTION
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 Date Approved: 20/12/2021

AS CONSTRUCTED

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DESIGN FILE N:\	ALL DIMENSIONS ARE IN METRES. DO NOT SCALE	SURVEYED Daly Smith Pty Ltd	DATUM GDA94 MGA56 - A.H.D.	PROJECT No. 240037(30)	DISCIPLINE - WAC -	NUMBER 102	REV. 5																																																												

240072(30)-WAC-105

100mm AT FULL SIZE



LEGEND

W	PVC-M POTABLE WATER RETICULATION
PWS	POTABLE WATER PROPERTY SERVICE
RW	PVC-M RECYCLED WATER RETICULATION
RWS	RECYCLED WATER PROPERTY SERVICE
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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
112.5 127.5 153 180	HORIZONTAL BEND ANGLE IN MAIN
- - - -	PROPOSED EASEMENT
- - - -	SUBDIVISION STAGE BOUNDARY

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

POTABLE WATER PIPE DATA

PIPE SIZE (mm)	PIPE MATERIAL	TOTAL LENGTH (m)
DN150	PVC-M PN16	422
DN100	PVC-M PN16	374
DN20 (LATERAL)	PE100 PN16	274

- NOTES:**
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COMPANY ADW Johnson Pty Ltd COMPANY
NAME MATHEW DAVID LONDON NAME
SIGNED *mathew* DATE 21/02/2023 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: 20/12/2021

AS CONSTRUCTED

PLAN
SCALE 1:1000

REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY	SCALES
B	11.10.2021	FOR APPROVAL	G.S.	C.B.	G.S.	C.B.	
0	20.12.2021	FOR CONSTRUCTION	G.S.	C.B.	G.S.	C.B.	
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5	16.03.2023	WORK AS CONSTRUCTED	G.S.	S.S.	G.S.	M.L.O.	

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

CLIENT

PROPERTY DESCRIPTION

PROPOSED SUBDIVISION
STAGE 30
HUNTLEE

SURVEYED
Daly.Smith Pty Ltd

DATUM
GDA94 MGA56 - A.H.D.

PROJECT
POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION

PLAN TITLE
POTABLE WATER DETAIL PLAN - SHEET 3

PROJECT No.
240037(30)

DISCIPLINE
- WAC -

NUMBER
103

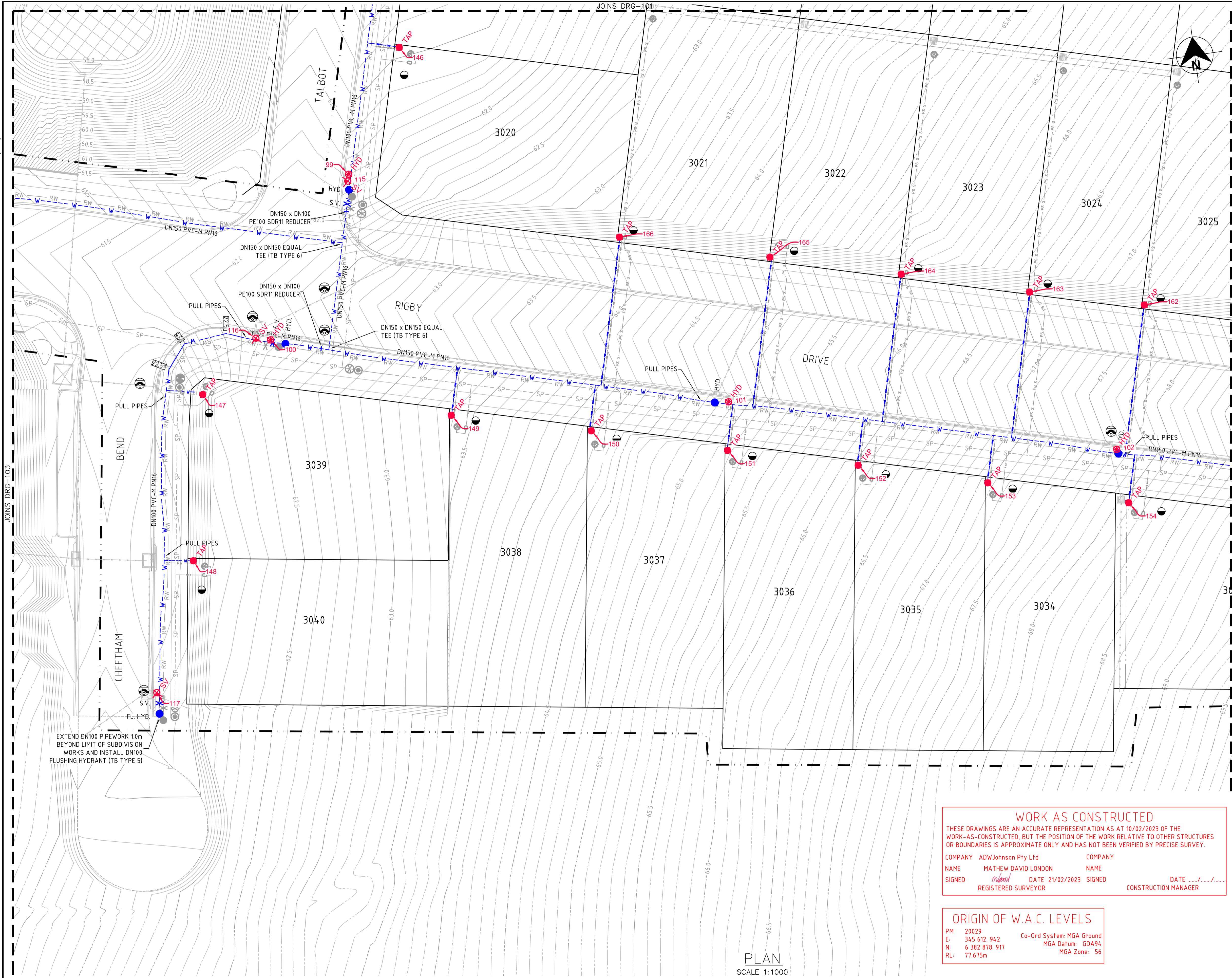
REV.
5



240072(30)-WAC-105

JOINS DRG-103

100mm AT FULL SIZE



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
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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
⊘	HORIZONTAL BEND ANGLE IN MAIN
- - -	PROPOSED EASEMENT
- - -	SUBDIVISION STAGE BOUNDARY

- POTABLE WATER PROPERTY SERVICE CONNECTIONS**
 TOTAL 40 CONNECTIONS
- SINGLE SERVICES IN ACCORDANCE WITH WAT-1106-V
 - 21 x SHORT SIDE
 - 3 x LONG SIDE
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POTABLE WATER PIPE DATA

PIPE SIZE (mm)	PIPE MATERIAL	TOTAL LENGTH (m)
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COMPANY	ADW Johnson Pty Ltd	COMPANY	
NAME	MATHEW DAVID LONDON	NAME	
SIGNED	<i>MatheW</i>	DATE	21/02/2023
	REGISTERED SURVEYOR	SIGNED	
		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

APPROVED FOR CONSTRUCTION
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SCALE: 1:250 (FULL)

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adw Johnson

Hunter Office
 Unit 7/335 Hillsborough Rd
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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

altogether.

PROPERTY DESCRIPTION

PROPOSED SUBDIVISION
 STAGE 30
 HUNTLEE

SURVEYED
 Daly.Smith Pty Ltd

DATUM
 GDA94 MGA56 - A.H.D.

PROJECT
 POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION

PLAN TITLE
 POTABLE WATER DETAIL PLAN - SHEET 4

PROJECT No.
 240037(30)

DISCIPLINE
 - WAC -

NUMBER
 104

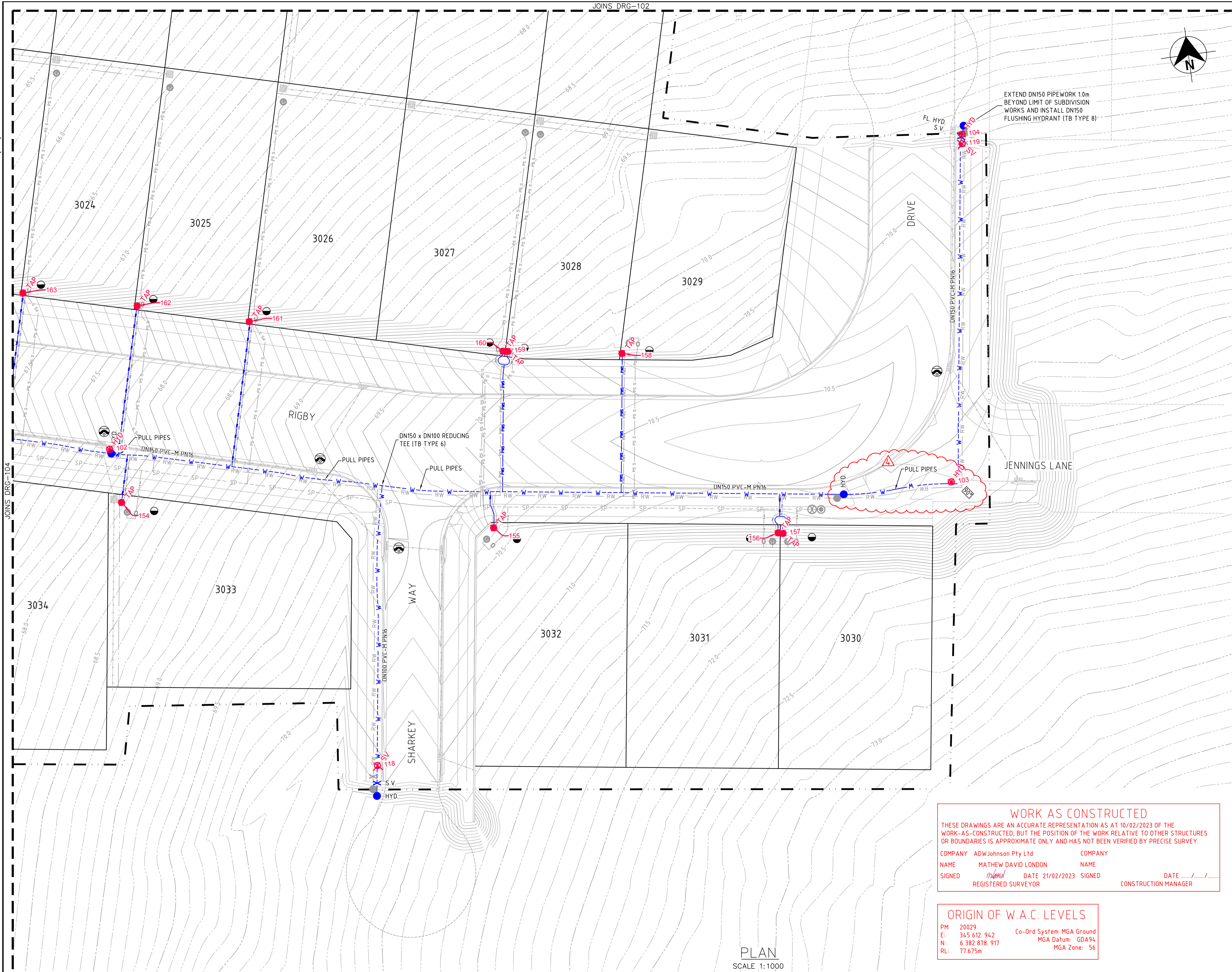
REV.
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240072(30)-WAC-105

JOINS DRG-104

100mm AT FULL SIZE



LEGEND

W	PVC-M POTABLE WATER RETICULATION
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- NOTES:**
1. LOCALLY PULL PIPES TO AVOID ANY POTENTIAL CLASH WITH STORMWATER PIT.
 2. FOR RECYCLED WATER PIPEWORK DETAIL PLANS REFER TO DRGS-201 TO 205.
 3. FOR PRESSURE SEWER PIPEWORK DETAIL PLANS REFER TO DRGS-301 TO 305.
 4. FOR TYPICAL SERVICE CONNECTION DETAILS REFER TO DRG-402.

WORK AS CONSTRUCTED
 THESE DRAWINGS ARE AN ACCURATE REPRESENTATION AS AT 10/02/2023 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 21/02/2023
 REGISTERED SURVEYOR

COMPANY [Blank]
 NAME [Blank]
 SIGNED [Blank] DATE [Blank]
 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

APPROVED FOR CONSTRUCTION
 BY ADW Johnson Pty Ltd
 Date Approved: 20/12/2021

AS CONSTRUCTED

PLAN
 SCALE 1:1000

REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY	SCALES
B	11.10.2021	FOR APPROVAL	G.S.	C.B.	G.S.	C.B.	 SCALE: 1:250 (FULL)
0	20.12.2021	FOR CONSTRUCTION	G.S.	C.B.	G.S.	C.B.	
1	01.03.2022	FOR CONSTRUCTION	G.S.	C.B.	G.S.	C.B.	
2	03.06.2022	FOR CONSTRUCTION	G.S.	C.B.	G.S.	C.B.	
3	21.09.2022	FOR CONSTRUCTION	G.S.	C.B.	G.S.	C.B.	
4	16.01.2023	UPDATED HYD. LOCATIONS ADJACENT TO LOTS 3030/3031	G.S.	C.B.	G.S.	C.B.	
5	16.03.2023	WORK AS CONSTRUCTED	G.S.	S.S.	G.S.	M.L.O.	

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

altogether.

PROPERTY DESCRIPTION

PROPOSED SUBDIVISION
 STAGE 30
 HUNTLEE

SURVEYED
 Daly.Smith Pty Ltd

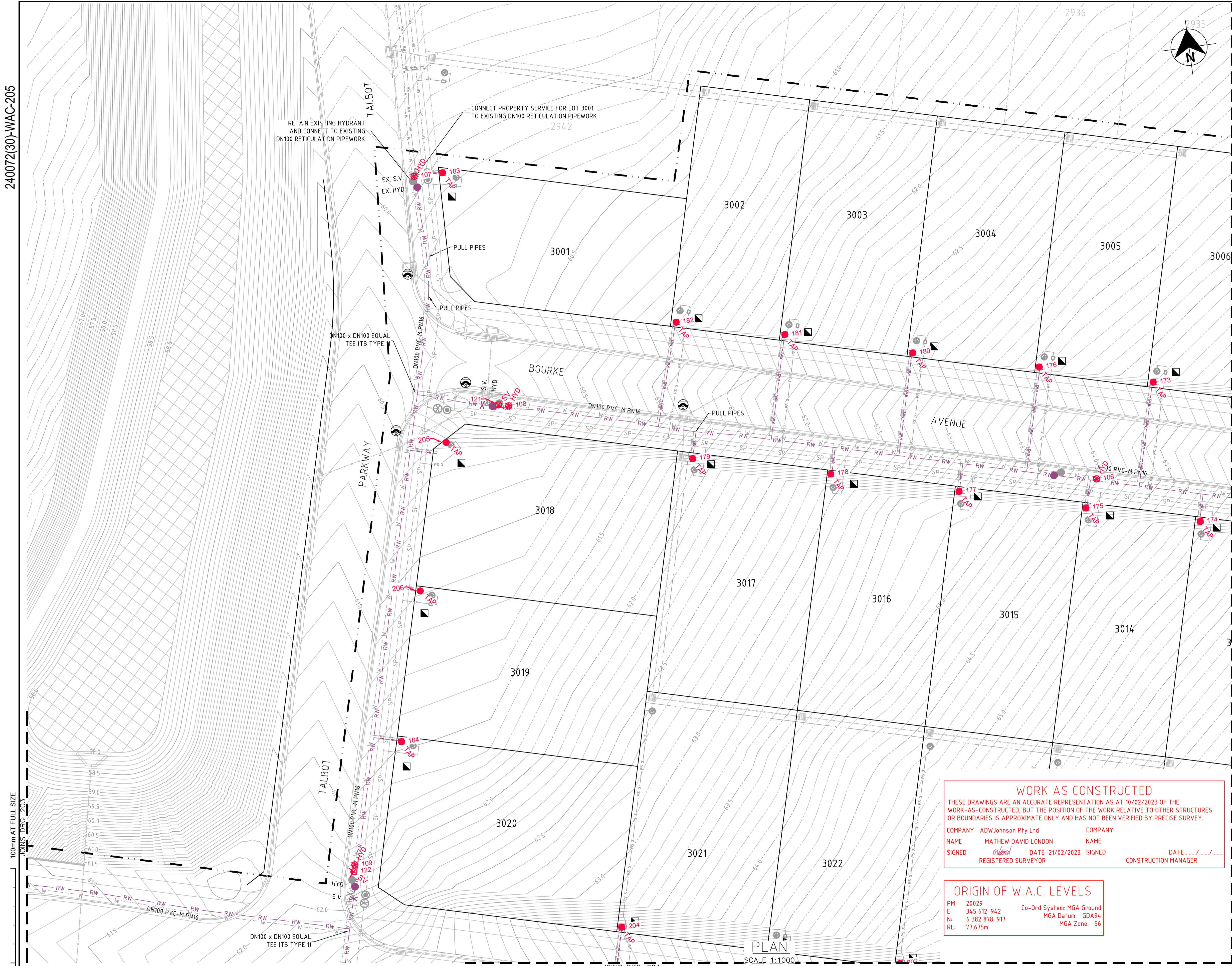
DATUM
 GDA94 MGA56 - A.H.D.

PROJECT POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION

PLAN TITLE POTABLE WATER DETAIL PLAN - SHEET 5

PROJECT No.	DISCIPLINE	NUMBER	REV.
240037(30)	- WAC -	105	5

240072(30)-WAC-205



LEGEND

RW	RW	PVC-M RECYCLED WATER RETICULATION
RWS	RWS	RECYCLED WATER PROPERTY SERVICE
W	W	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
SV	SV	STOP VALVE
HYD	HYD	HYDRANT
FL HYD	FL HYD	FLUSHING HYDRANT
■	■	PROPERTY SERVICE CONNECTION
○	○	LAY WATER MAIN OVER STORMWATER PIPE (300mm MIN. VERTICAL CLEARANCE) - REFER TO WAT-1255-H
11 25 27 35 45 80		HORIZONTAL BEND ANGLE IN MAIN
---	---	PROPOSED EASEMENT
- - - -	- - - -	SUBDIVISION STAGE BOUNDARY

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

RECYCLED WATER PIPE DATA

PIPE SIZE (mm)	PIPE MATERIAL	TOTAL LENGTH (m)
DN100	PVC-M PN16	799
DN25 (LATERAL)	PE100 PN16	282

WORK AS CONSTRUCTED

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COMPANY	ADW Johnson Pty Ltd	COMPANY	
NAME	MATHEW DAVID LONDON	NAME	
SIGNED	<i>MatheW</i>	DATE	21/02/2023
	REGISTERED SURVEYOR	SIGNED	
		DATE	/ /
		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

APPROVED FOR CONSTRUCTION
 BY ADW Johnson Pty Ltd
 Date Approved: 20/12/2021

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REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY	SCALES
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5	16.03.2023	WORK AS CONSTRUCTED	G.S.	S.S.	G.S.	M.L.O.	

DESIGN FILE N:\
 Plotted By: glenns Plot Date: 16/03/23 - 16:49 Cad File: N:\240072\DWG\water & sewer\stage 30-wac\240072(30)-WAC-205.dwg

adw Johnson

Hunter Office
 Unit 7/335 Hillsborough Rd
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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

PROPERTY DESCRIPTION

PROPOSED SUBDIVISION
 STAGE 30
 HUNTLEE

SURVEYED
 Daly.Smith Pty Ltd

DATUM
 GDA94 MGA56 - A.H.D.

PROJECT
 POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION

PLAN TITLE
 RECYCLED WATER DETAIL
 PLAN - SHEET 1

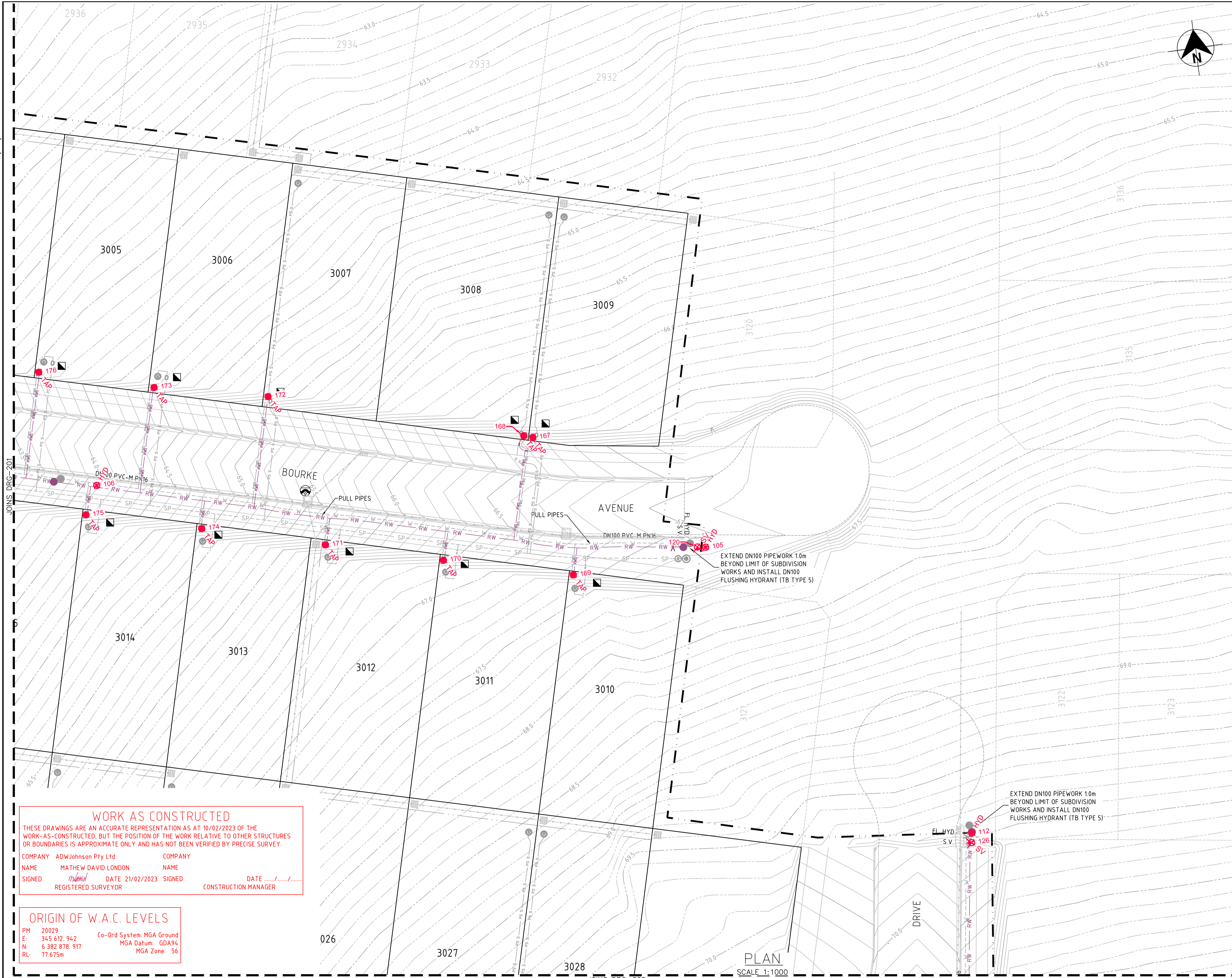
PROJECT No.	DISCIPLINE	NUMBER	REV.
240037(30)	- WAC -	201	5



240072(30)-WAC-205

JOINS DRG-201

100mm AT FULL SIZE



LEGEND

RW	PVC-M RECYCLED WATER RETICULATION
RWS	RECYCLED WATER PROPERTY SERVICE
W	PVC-M POTABLE WATER RETICULATION
PWS	POTABLE WATER PROPERTY SERVICE
SP	PE PRESSURE SEWER RETICULATION
PS 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
Symbol	PROPERTY SERVICE CONNECTION
Symbol	LAY WATER MAIN OVER STORMWATER PIPE (300mm MIN. VERTICAL CLEARANCE) - REFER TO WAT-1255-H
11 25 27 35 45 80	HORIZONTAL BEND ANGLE IN MAIN
Symbol	PROPOSED EASEMENT
Symbol	SUBDIVISION STAGE BOUNDARY

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

RECYCLED WATER PIPE DATA

PIPE SIZE (mm)	PIPE MATERIAL	TOTAL LENGTH (m)
DN100	PVC-M PN16	799
DN25 (LATERAL)	PE100 PN16	282

- NOTES:**
1. LOCALLY PULL PIPES TO AVOID ANY POTENTIAL CLASH WITH STORMWATER PIT
 2. FOR POTABLE WATER PIPEWORK DETAIL PLANS REFER TO DRGS-101 TO 105.
 3. FOR PRESSURE SEWER PIPEWORK DETAIL PLANS REFER TO DRGS-301 TO 305.
 4. FOR TYPICAL SERVICE CONNECTION DETAILS REFER TO DRG-402.

WORK AS CONSTRUCTED

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COMPANY ADW Johnson Pty Ltd COMPANY
 NAME MATHEW DAVID LONDON NAME
 SIGNED [Signature] DATE 21/02/2023 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

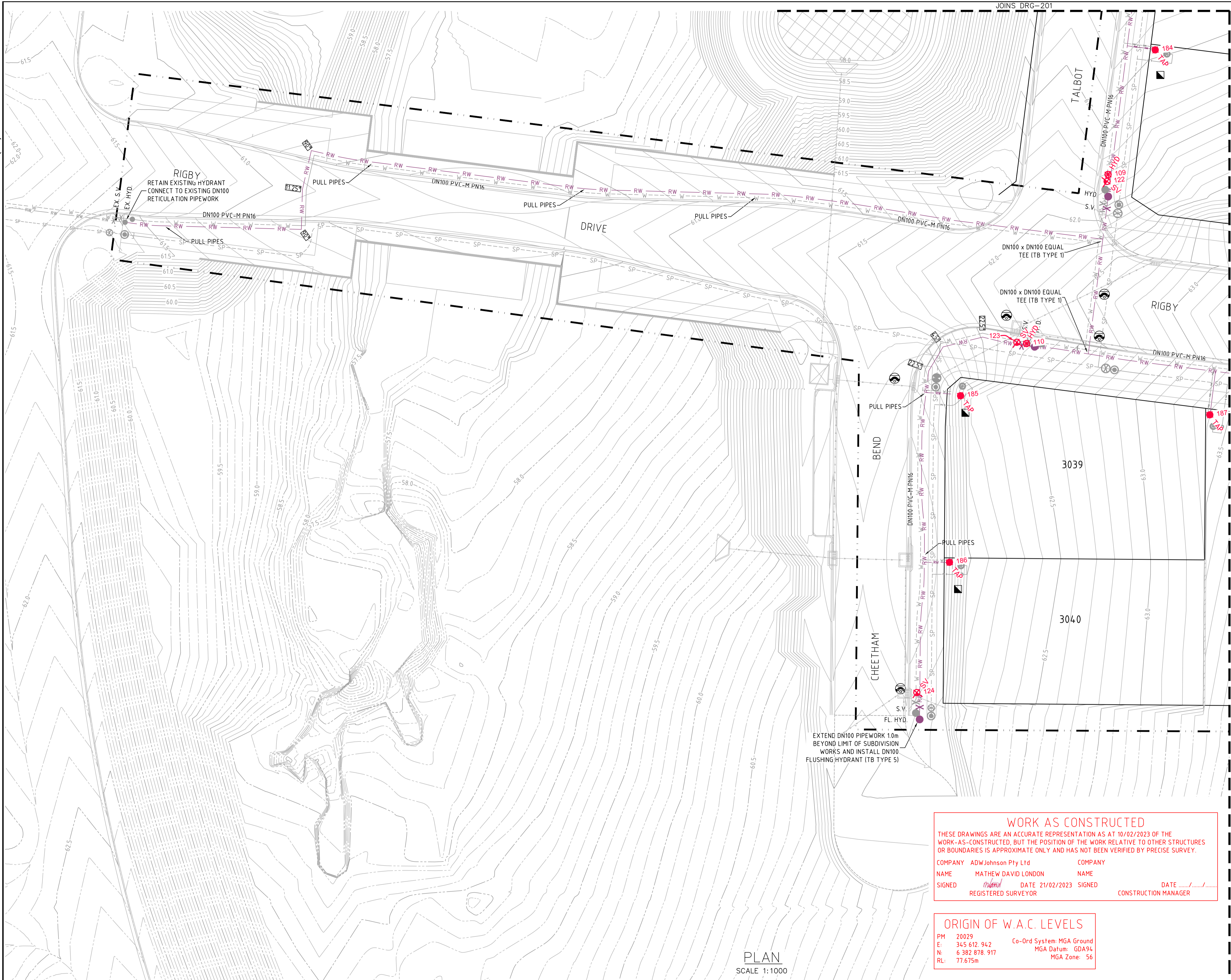
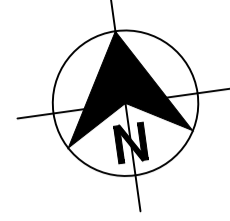
APPROVED FOR CONSTRUCTION
 BY ADW Johnson Pty Ltd
 Date Approved: 20/12/2021

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>B</td> <td>11.10.2021</td> <td>FOR APPROVAL</td> <td>G.S.</td> <td>C.B.</td> <td>G.S.</td> <td>C.B.</td> <td></td> </tr> <tr> <td>0</td> <td>20.12.2021</td> <td>FOR CONSTRUCTION</td> <td>G.S.</td> <td>C.B.</td> <td>G.S.</td> <td>C.B.</td> <td></td> </tr> <tr> <td>1</td> <td>01.03.2022</td> <td>FOR CONSTRUCTION</td> <td>G.S.</td> <td>C.B.</td> <td>G.S.</td> <td>C.B.</td> <td></td> </tr> <tr> <td>2</td> <td>03.06.2022</td> <td>FOR CONSTRUCTION</td> <td>G.S.</td> <td>C.B.</td> <td>G.S.</td> <td>C.B.</td> <td></td> </tr> <tr> <td>3</td> <td>21.09.2022</td> <td>FOR CONSTRUCTION</td> <td>G.S.</td> <td>C.B.</td> <td>G.S.</td> <td>C.B.</td> <td></td> </tr> <tr> <td>4</td> <td>16.01.2023</td> <td>UPDATED HYD. LOCATIONS ADJACENT TO LOTS 3030/3031</td> <td>G.S.</td> <td>C.B.</td> <td>G.S.</td> <td>C.B.</td> <td></td> </tr> <tr> <td>5</td> <td>16.03.2023</td> <td>WORK AS CONSTRUCTED</td> <td>G.S.</td> <td>S.S.</td> <td>G.S.</td> <td>M.L.O.</td> <td></td> </tr> </tbody> </table>	REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY	SCALES	B	11.10.2021	FOR APPROVAL	G.S.	C.B.	G.S.	C.B.		0	20.12.2021	FOR CONSTRUCTION	G.S.	C.B.	G.S.	C.B.		1	01.03.2022	FOR CONSTRUCTION	G.S.	C.B.	G.S.	C.B.		2	03.06.2022	FOR CONSTRUCTION	G.S.	C.B.	G.S.	C.B.		3	21.09.2022	FOR CONSTRUCTION	G.S.	C.B.	G.S.	C.B.		4	16.01.2023	UPDATED HYD. LOCATIONS ADJACENT TO LOTS 3030/3031	G.S.	C.B.	G.S.	C.B.		5	16.03.2023	WORK AS CONSTRUCTED	G.S.	S.S.	G.S.	M.L.O.		<p>0 5.0 10.0 12.5m</p> <p>SCALE: 1:250 (FULL)</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@adwjohanson.com.au www.adwjohanson.com.au ABN 62 129 445 398</p>	<p>CLIENT</p>	<p>PROPERTY DESCRIPTION</p> <p>PROPOSED SUBDIVISION STAGE 30 HUNTLEE</p>	<p>PROJECT POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION</p> <p>PLAN TITLE RECYCLED WATER DETAIL PLAN - SHEET 2</p>	<table border="1"> <tr> <td>DESIGN FILE N:\</td> <td>DATUM GDA94 MGA56 - A.H.D.</td> <td>PROJECT No. 240037(30)</td> <td>DISCIPLINE - WAC -</td> <td>NUMBER 202</td> <td>REV. 5</td> </tr> </table>	DESIGN FILE N:\	DATUM GDA94 MGA56 - A.H.D.	PROJECT No. 240037(30)	DISCIPLINE - WAC -	NUMBER 202	REV. 5
REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY	SCALES																																																																					
B	11.10.2021	FOR APPROVAL	G.S.	C.B.	G.S.	C.B.																																																																						
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240072(30)-WAC-205

100mm AT FULL SIZE



- LEGEND**
- RW PVC-M RECYCLED WATER RETICULATION
 - RWS RECYCLED WATER PROPERTY SERVICE
 - W PVC-M POTABLE WATER RETICULATION
 - PWS POTABLE WATER PROPERTY SERVICE
 - SP PE PRESSURE SEWER RETICULATION
 - PS 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
 - 125 225 45 80 HORIZONTAL BEND ANGLE IN MAIN
 - PROPOSED EASEMENT
 - SUBDIVISION STAGE BOUNDARY

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

RECYCLED WATER PIPE DATA		
PIPE SIZE (mm)	PIPE MATERIAL	TOTAL LENGTH (m)
DN100	PVC-M PN16	799
DN25 (LATERAL)	PE100 PN16	282

- NOTES:**
1. LOCALLY PULL PIPES TO AVOID ANY POTENTIAL CLASH WITH STORMWATER PIT
 2. FOR POTABLE WATER PIPEWORK DETAIL PLANS REFER TO DRGS-101 TO 105.
 3. FOR PRESSURE SEWER PIPEWORK DETAIL PLANS REFER TO DRGS-301 TO 305.
 4. FOR TYPICAL SERVICE CONNECTION DETAILS REFER TO DRG-402.

WORK AS CONSTRUCTED

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COMPANY ADW Johnson Pty Ltd COMPANY
 NAME MATHEW DAVID LONDON NAME
 SIGNED *mathew* DATE 21/02/2023 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: 20/12/2021

AS CONSTRUCTED

PLAN
SCALE 1:1000

REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY	SCALES
B	11.10.2021	FOR APPROVAL	G.S.	C.B.	G.S.	C.B.	 SCALE: 1:250 (FULL)
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DESIGN FILE N:\

ALL DIMENSIONS ARE IN METRES. DO NOT SCALE

adw Johnson

Hunter Office
 Unit 7/335 Hillsborough Rd
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 ABN 62 129 445 398

CLIENT

altogether.

PROPERTY DESCRIPTION

PROPOSED SUBDIVISION
 STAGE 30
 HUNTLEE

SURVEYED
 Daly.Smith Pty Ltd

DATUM
 GDA94 MGA56 - A.H.D.

PROJECT POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION

PLAN TITLE
 RECYCLED WATER DETAIL
 PLAN - SHEET 3

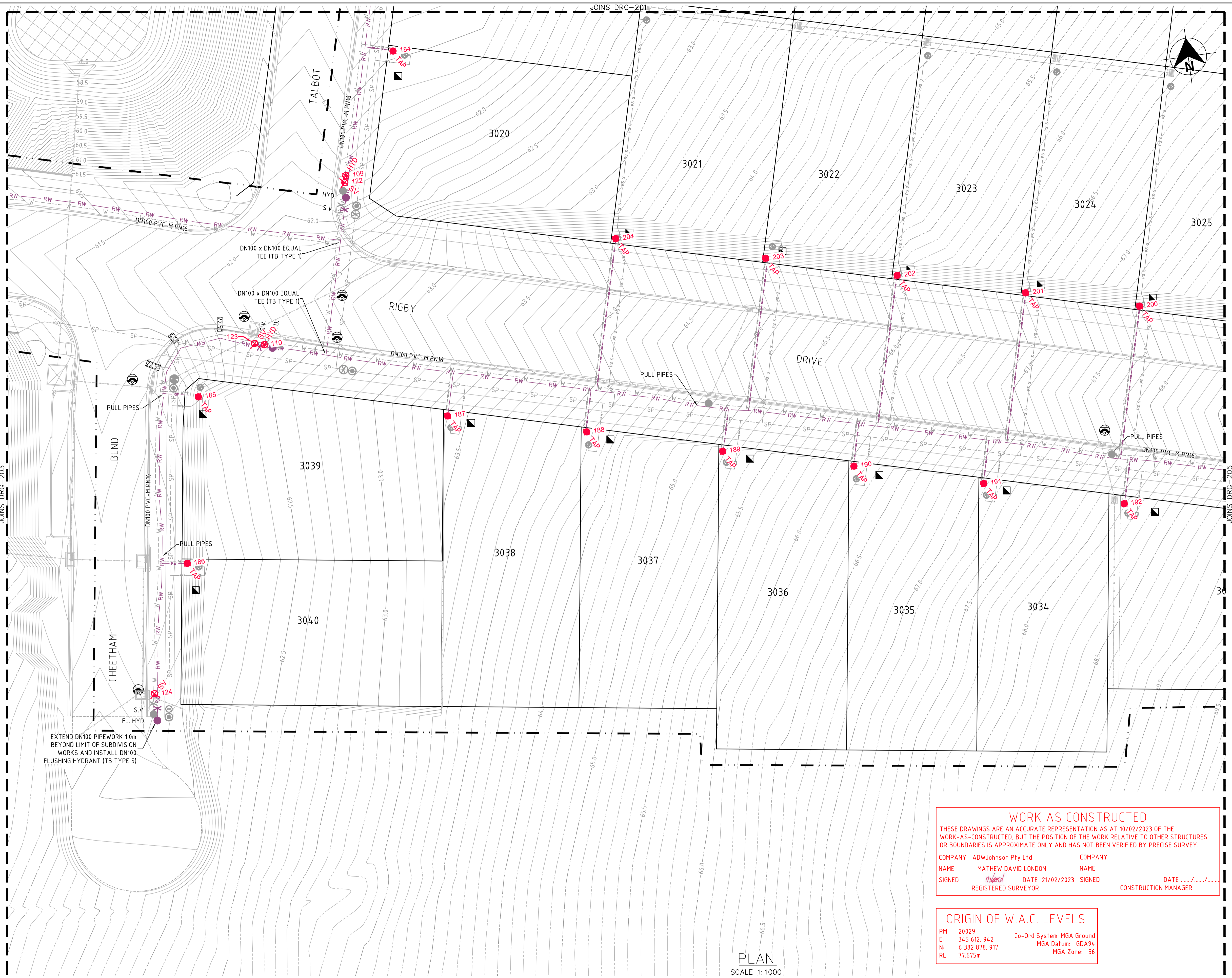
PROJECT No.	DISCIPLINE	NUMBER	REV.
240037(30)	- WAC -	203	5



240072(30)-WAC-205

JOINS DIRG-203

100mm AT FULL SIZE



LEGEND

RW	PVC-M RECYCLED WATER RETICULATION
RWS	RECYCLED WATER PROPERTY SERVICE
W	PVC-M POTABLE WATER RETICULATION
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FL HYD	FLUSHING HYDRANT
▲	PROPERTY SERVICE CONNECTION
○	LAY WATER MAIN OVER STORMWATER PIPE (300mm MIN. VERTICAL CLEARANCE) - REFER TO WAT-1255-H
11 25 27 35 45 80	HORIZONTAL BEND ANGLE IN MAIN
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- - - -	SUBDIVISION STAGE BOUNDARY

- RECYCLED WATER PROPERTY SERVICE CONNECTIONS**
- TOTAL 40 CONNECTIONS
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 - 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	282

- NOTES:**
1. LOCALLY PULL PIPES TO AVOID ANY POTENTIAL CLASH WITH STORMWATER PIT
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COMPANY	ADW Johnson Pty Ltd	COMPANY	
NAME	MATHEW DAVID LONDON	NAME	
SIGNED	<i>MatheW</i>	DATE	21/02/2023
	REGISTERED SURVEYOR	SIGNED	
		CONSTRUCTION MANAGER	

ORIGIN OF W.A.C. LEVELS

PM 20029
 E: 345 612.942 Co-Ord System: MGA Ground
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5	16.03.2023	WORK AS CONSTRUCTED	G.S.	S.S.	G.S.	M.L.O.

SCALES
0 5.0 10.0 12.5m
SCALE: 1:250 (FULL)

adw Johnson

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CLIENT

altogether.

PROPERTY DESCRIPTION

PROPOSED SUBDIVISION
 STAGE 30
 HUNTLEE

SURVEYED
 Daly.Smith Pty Ltd

DATUM
 GDA94 MGA56 - A.H.D.

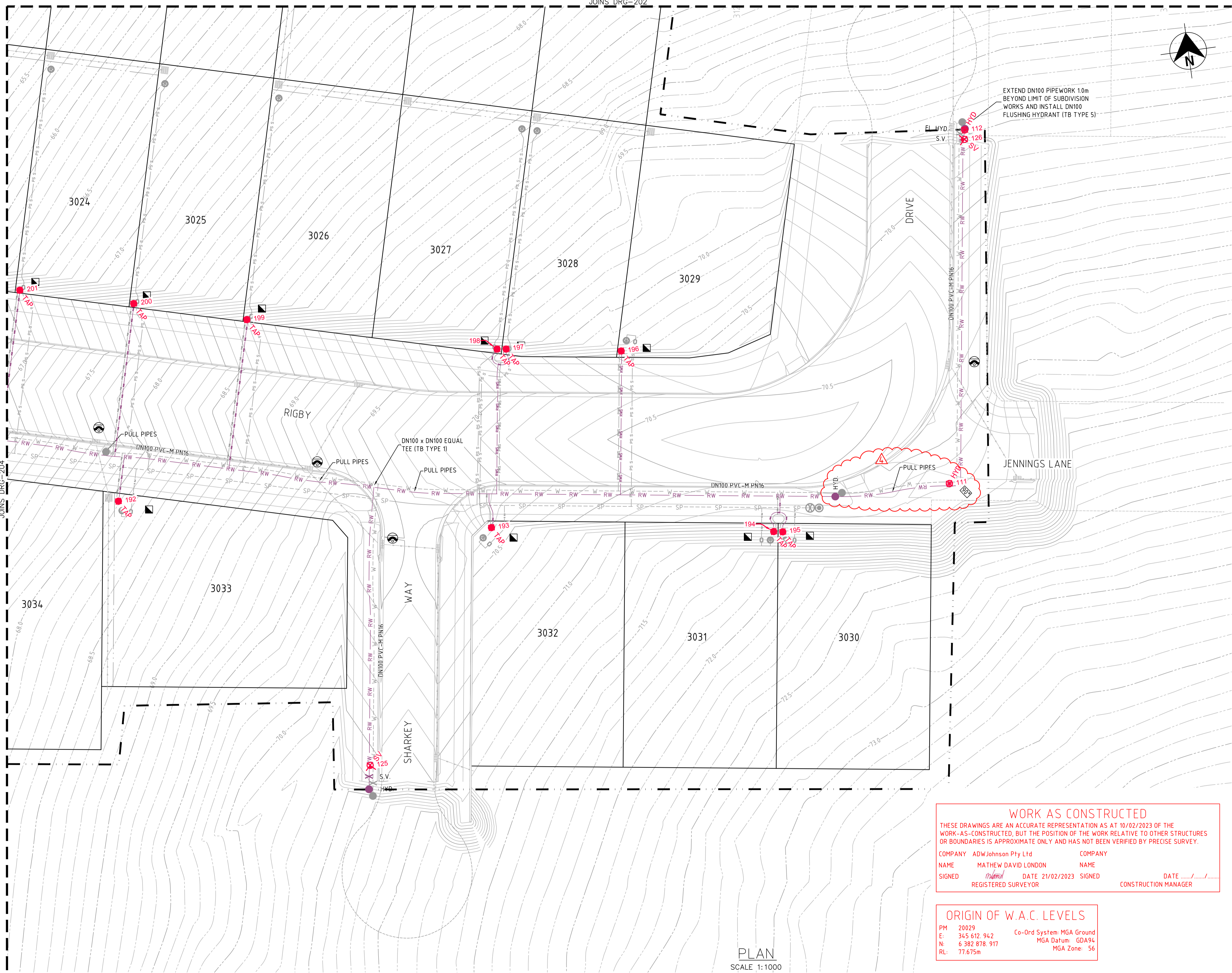
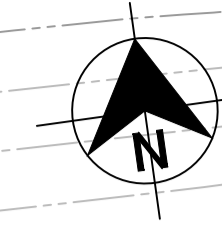
PROJECT	POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION		
PLAN TITLE	RECYCLED WATER DETAIL PLAN - SHEET 4		
PROJECT No.	240037(30)	DISCIPLINE	- WAC -
NUMBER	204	REV.	5

240072(30)-WAC-205

JOINS DRG-204

100mm AT FULL SIZE

JOINS DRG-202



- LEGEND**
- RW PVC-M RECYCLED WATER RETICULATION
 - RWS RECYCLED WATER PROPERTY SERVICE
 - W 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 W EXISTING POTABLE WATER RETICULATION
 - EX SP 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
 - HORIZONTAL BEND ANGLE IN MAIN
 - PROPOSED EASEMENT
 - SUBDIVISION STAGE BOUNDARY

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

RECYCLED WATER PIPE DATA		
PIPE SIZE (mm)	PIPE MATERIAL	TOTAL LENGTH (m)
DN100	PVC-M PN16	799
DN25 (LATERAL)	PE100 PN16	282

- NOTES:**
- LOCALLY PULL PIPES TO AVOID ANY POTENTIAL CLASH WITH STORMWATER PIT
 - FOR POTABLE WATER PIPEWORK DETAIL PLANS REFER TO DRGS-101 TO 105.
 - FOR PRESSURE SEWER PIPEWORK DETAIL PLANS REFER TO DRGS-301 TO 305.
 - FOR TYPICAL SERVICE CONNECTION DETAILS REFER TO DRG-402.

WORK AS CONSTRUCTED

THESE DRAWINGS ARE AN ACCURATE REPRESENTATION AS AT 10/02/2023 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 [Signature] DATE 21/02/2023 SIGNED [Signature] DATE [Signature]
 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: 20/12/2021

AS CONSTRUCTED

PLAN
SCALE 1:1000

REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY
B	11.10.2021	FOR APPROVAL	G.S.	C.B.	G.S.	C.B.
0	20.12.2021	FOR CONSTRUCTION	G.S.	C.B.	G.S.	C.B.
1	01.03.2022	FOR CONSTRUCTION	G.S.	C.B.	G.S.	C.B.
2	03.06.2022	FOR CONSTRUCTION	G.S.	C.B.	G.S.	C.B.
3	21.09.2022	FOR CONSTRUCTION	G.S.	C.B.	G.S.	C.B.
4	16.01.2023	UPDATED HYD. LOCATIONS ADJACENT TO LOTS 3030/3031	G.S.	C.B.	G.S.	C.B.
5	16.03.2023	WORK AS CONSTRUCTED	G.S.	S.S.	G.S.	M.L.O.

SCALE
0 5.0 10.0 12.5m SCALE: 1:250 (FULL)

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

altogether.

PROPERTY DESCRIPTION

PROPOSED SUBDIVISION
 STAGE 30
 HUNTLEE

SURVEYED
 Daly.Smith Pty Ltd

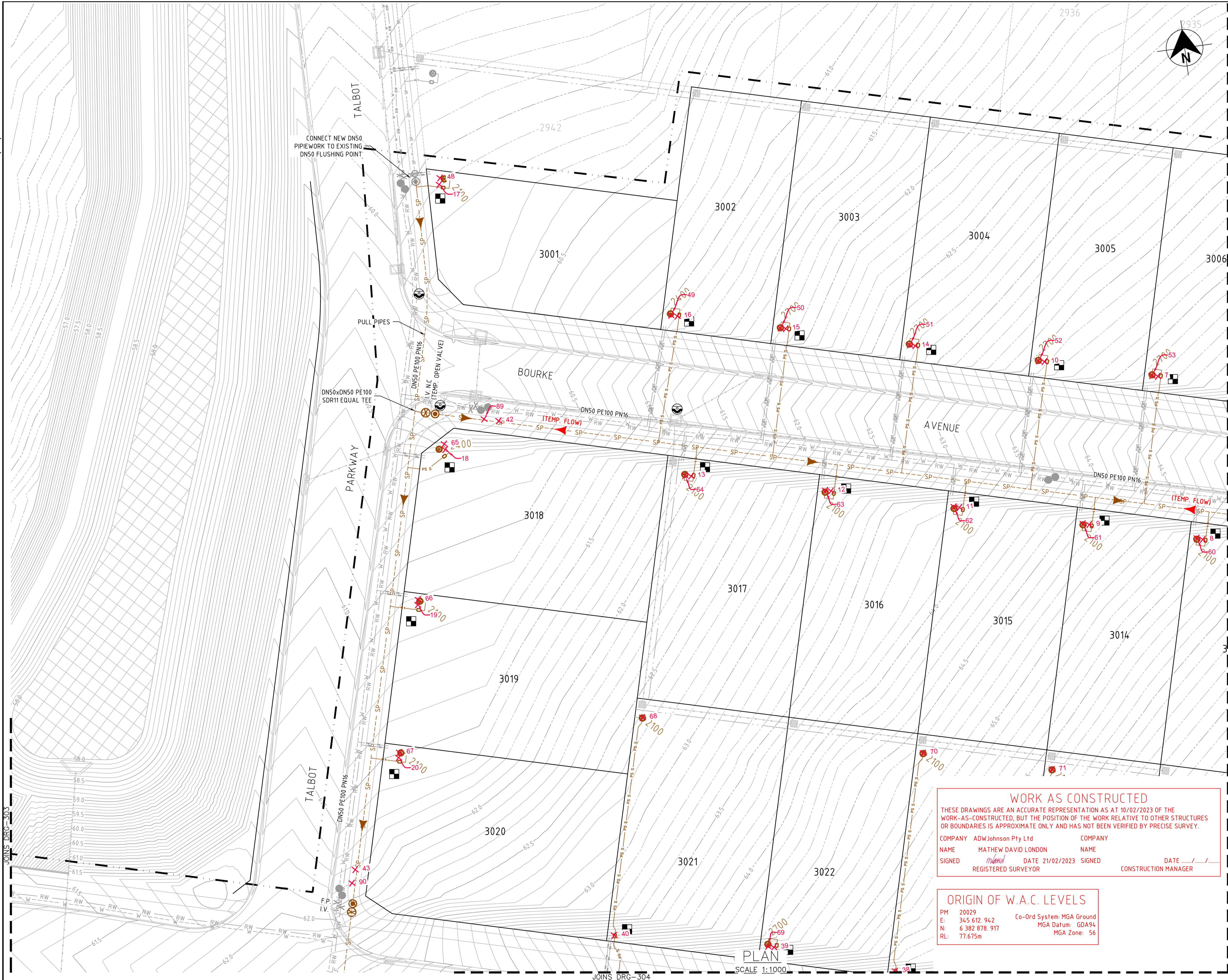
DATUM
 GDA94 MGA56 - A.H.D.

PROJECT	PLAN TITLE	PROJECT No.	DISCIPLINE	NUMBER	REV.
POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION	RECYCLED WATER DETAIL PLAN - SHEET 5	240037(30)	- WAC -	205	5

240072(30)-WAC-305

100mm AT FULL SIZE

DESIGN FILE N:\



LEGEND

- SP PE PRESSURE SEWER RETICULATION
- PS S PE PRESSURE SEWER PROPERTY SERVICE
- W PVC-M POTABLE WATER RETICULATION
- PWS POTABLE WATER PROPERTY SERVICE
- RW PVC-M RECYCLED WATER RETICULATION
- RWS RECYCLED WATER PROPERTY SERVICE
- EX PS EXISTING PRESSURE SEWER RETICULATION
- EX PW EXISTING POTABLE WATER RETICULATION
- EX RW EXISTING RECYCLED WATER RETICULATION
- SW STORMWATER PIPEWORK
- ISOLATION VALVE
- ISOLATION VALVE - NORMALLY CLOSED
- FLUSHING POINT
- WASTEWATER COLLECTION TANK AND BOUNDARY KIT
- PRESSURE SEWER FLOW DIRECTION (SEE NOTE 7)
- PRESSURE SEWER TEMPORARY FLOW DIRECTION
- 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 40 CONNECTIONS
 • SINGLE SERVICES
 - 23 x SHORT SIDE
 - 17 x LONG SIDE

PRESSURE SEWER PIPE DATA		
PIPE SIZE (mm)	PIPE MATERIAL	TOTAL LENGTH (m)
DN110	PE100 SDR11	353
DN63	PE100 SDR11	20
DN50	PE100 SDR11	313
DN40 (LATERAL)	PE100 SDR11	816

WORK AS CONSTRUCTED
 THESE DRAWINGS ARE AN ACCURATE REPRESENTATION AS AT 10/02/2023 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 21/02/2023
 REGISTERED SURVEYOR

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

- NOTES:**
- FOR POTABLE WATER PIPEWORK DETAIL PLANS REFER TO DRGS-101 TO 105.
 - FOR RECYCLED WATER PIPEWORK DETAIL PLANS REFER TO DRGS-201 AND 205.
 - FOR TYPICAL SERVICE CONNECTION DETAILS REFER TO DRG-402.
 - 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: 20/12/2021

AS CONSTRUCTED

REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY	SCALES
B	11.10.2021	FOR APPROVAL	G.S.	C.B.	G.S.	C.B.	
0	20.12.2021	FOR CONSTRUCTION	G.S.	C.B.	G.S.	C.B.	
1	01.03.2022	FOR CONSTRUCTION	G.S.	C.B.	G.S.	C.B.	
2	03.06.2022	FOR CONSTRUCTION	G.S.	C.B.	G.S.	C.B.	
3	21.09.2022	FOR CONSTRUCTION	G.S.	C.B.	G.S.	C.B.	
4	16.01.2023	UPDATED HYD. LOCATIONS ADJACENT TO LOTS 3030/3031	G.S.	C.B.	G.S.	C.B.	
5	16.03.2023	WORK AS CONSTRUCTED	G.S.	S.S.	G.S.	M.L.O.	

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 30
 HUNTLEE

SURVEYED
 Daly.Smith Pty Ltd

DATUM
 GDA94 MGA56 - A.H.D.

PROJECT POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION

PLAN TITLE PRESSURE SEWER DETAIL PLAN - SHEET 1

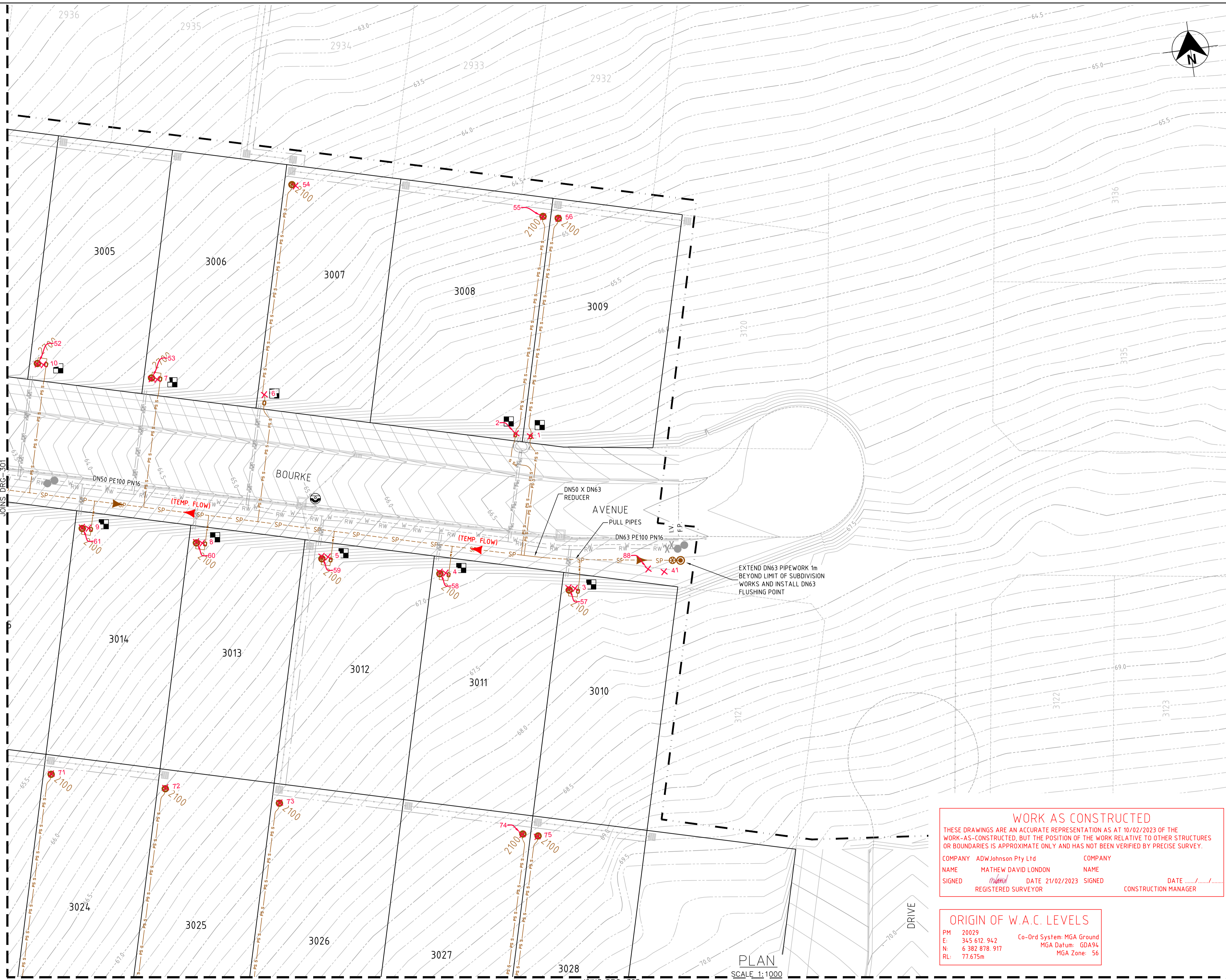
PROJECT No.	DISCIPLINE	NUMBER	REV.
240037(30)	- WAC -	301	5



240072(30)-WAC-305

JOINS DRG-301

100mm AT FULL SIZE



- LEGEND**
- SP S --- SP S 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
 - ⊗ ISOLATION VALVE
 - ⊗ ISOLATION VALVE - NORMALLY CLOSED
 - ⊙ FLUSHING POINT
 - ⊙ WASTEWATER COLLECTION TANK AND BOUNDARY KIT
 - ➔ PRESSURE SEWER FLOW DIRECTION (SEE NOTE 7)
 - ➔ PRESSURE SEWER TEMPORARY FLOW DIRECTION
 - PROPERTY SERVICE CONNECTION
 - ⊙ LAY PRESSURE SEWER MAIN UNDER STORMWATER PIPE (300mm MIN. VERTICAL CLEARANCE) - REFER TO WAT-1255-H
 - PROPOSED EASEMENT
 - SUBDIVISION STATE BOUNDARY

■ PRESSURE SEWER PROPERTY SERVICE CONNECTIONS
 TOTAL 40 CONNECTIONS
 • SINGLE SERVICES
 - 23 x SHORT SIDE
 - 17 x LONG SIDE

PRESSURE SEWER PIPE DATA		
PIPE SIZE (mm)	PIPE MATERIAL	TOTAL LENGTH (m)
DN110	PE100 SDR11	353
DN63	PE100 SDR11	20
DN50	PE100 SDR11	313
DN40 (LATERAL)	PE100 SDR11	816

- NOTES:**
- FOR POTABLE WATER PIPEWORK DETAIL PLANS REFER TO DRGS-101 TO 105.
 - FOR RECYCLED WATER PIPEWORK DETAIL PLANS REFER TO DRGS-201 AND 205.
 - FOR TYPICAL SERVICE CONNECTION DETAILS REFER TO DRG-402.
 - 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
 THESE DRAWINGS ARE AN ACCURATE REPRESENTATION AS AT 10/02/2023 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 21/02/2023 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

APPROVED FOR CONSTRUCTION
 BY ADW Johnson Pty Ltd
 Date Approved: 20/12/2021

AS CONSTRUCTED

REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY	SCALES
B	11.10.2021	FOR APPROVAL	G.S.	C.B.	G.S.	C.B.	
0	20.12.2021	FOR CONSTRUCTION	G.S.	C.B.	G.S.	C.B.	
1	01.03.2022	FOR CONSTRUCTION	G.S.	C.B.	G.S.	C.B.	
2	03.06.2022	FOR CONSTRUCTION	G.S.	C.B.	G.S.	C.B.	
3	21.09.2022	FOR CONSTRUCTION	G.S.	C.B.	G.S.	C.B.	
4	16.01.2023	UPDATED HYD. LOCATIONS ADJACENT TO LOTS 3030/3031	G.S.	C.B.	G.S.	C.B.	
5	16.03.2023	WORK AS CONSTRUCTED	G.S.	S.S.	G.S.	M.L.O.	

DESIGN FILE N:\

ALL DIMENSIONS ARE IN METRES. DO NOT SCALE

JOINS DRG-305

SCALE: 1:250 (FULL)

0 5.0 10.0 12.5m

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

altogether.

PROPERTY DESCRIPTION

PROPOSED SUBDIVISION
 STAGE 30
 HUNTLEE

SURVEYED
 Daly-Smith Pty Ltd

DATUM
 GDA94 MGA56 - A.H.D.

PROJECT POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION

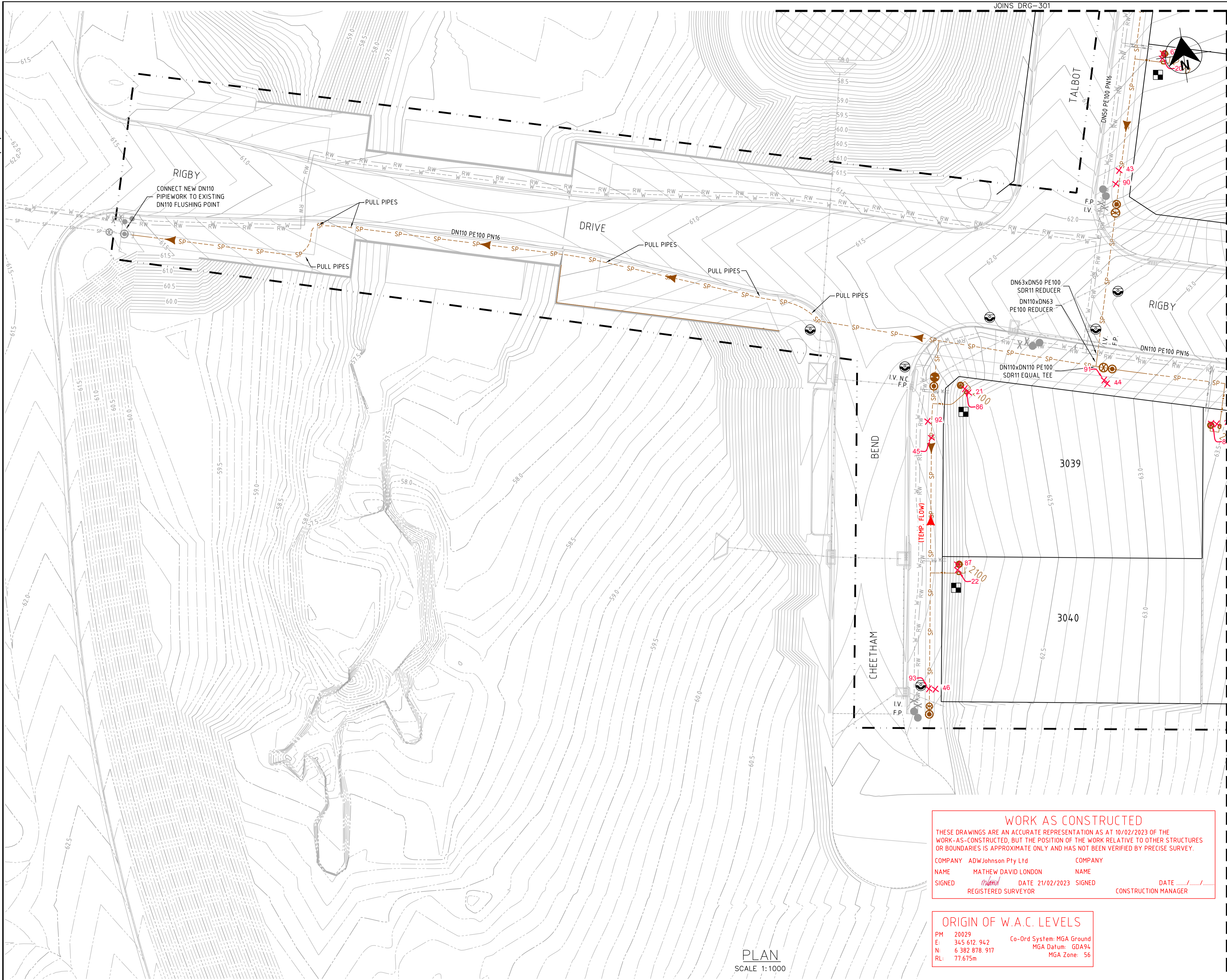
PLAN TITLE PRESSURE SEWER DETAIL PLAN - SHEET 2

PROJECT No.	DISCIPLINE	NUMBER	REV.
240037(30)	- WAC -	302	5



240072(30)-WAC-305

100mm AT FULL SIZE



- LEGEND**
- SP PE PRESSURE SEWER RETICULATION
 - PS S PE PRESSURE SEWER PROPERTY SERVICE
 - W PVC-M POTABLE WATER RETICULATION
 - PWS POTABLE WATER PROPERTY SERVICE
 - RW PVC-M RECYCLED WATER RETICULATION
 - RWS RECYCLED WATER PROPERTY SERVICE
 - EX PS EXISTING PRESSURE SEWER RETICULATION
 - EX PW EXISTING POTABLE WATER RETICULATION
 - EX RW EXISTING RECYCLED WATER RETICULATION
 - SW STORMWATER PIPEWORK
 - IV ISOLATION VALVE
 - IV (with symbol) ISOLATION VALVE - NORMALLY CLOSED
 - FP FLUSHING POINT
 - WWT WASTEWATER COLLECTION TANK AND BOUNDARY KIT
 - PS (with arrow) PRESSURE SEWER FLOW DIRECTION (SEE NOTE 7)
 - PS (with red arrow) PRESSURE SEWER TEMPORARY FLOW DIRECTION
 - PC PROPERTY SERVICE CONNECTION
 - LV LAY PRESSURE SEWER MAIN UNDER STORMWATER PIPE (300mm MIN. VERTICAL CLEARANCE) - REFER TO WAT-1255-H
 - PE PROPOSED EASEMENT
 - SB SUBDIVISION STAGE BOUNDARY

■ PRESSURE SEWER PROPERTY SERVICE CONNECTIONS
 TOTAL 40 CONNECTIONS
 • SINGLE SERVICES
 - 23 x SHORT SIDE
 - 17 x LONG SIDE

PRESSURE SEWER PIPE DATA		
PIPE SIZE (mm)	PIPE MATERIAL	TOTAL LENGTH (m)
DN110	PE100 SDR11	353
DN63	PE100 SDR11	20
DN50	PE100 SDR11	313
DN40 (LATERAL)	PE100 SDR11	816

- NOTES:**
- FOR POTABLE WATER PIPEWORK DETAIL PLANS REFER TO DRGS-101 TO 105.
 - FOR RECYCLED WATER PIPEWORK DETAIL PLANS REFER TO DRGS-201 AND 205.
 - FOR TYPICAL SERVICE CONNECTION DETAILS REFER TO DRG-402.
 - 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

THESE DRAWINGS ARE AN ACCURATE REPRESENTATION AS AT 10/02/2023 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 21/02/2023 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: 20/12/2021

AS CONSTRUCTED

PLAN
SCALE 1:1000

REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY	SCALES
B	11.10.2021	FOR APPROVAL	G.S.	C.B.	G.S.	C.B.	
0	20.12.2021	FOR CONSTRUCTION	G.S.	C.B.	G.S.	C.B.	
1	01.03.2022	FOR CONSTRUCTION	G.S.	C.B.	G.S.	C.B.	
2	03.06.2022	FOR CONSTRUCTION	G.S.	C.B.	G.S.	C.B.	
3	21.09.2022	FOR CONSTRUCTION	G.S.	C.B.	G.S.	C.B.	
4	16.01.2023	UPDATED HYD. LOCATIONS ADJACENT TO LOTS 3030/3031	G.S.	C.B.	G.S.	C.B.	
5	16.03.2023	WORK AS CONSTRUCTED	G.S.	S.S.	G.S.	M.L.O.	

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adw Johnson

Hunter Office
 Unit 7/335 Hillsborough Rd
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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

PROPERTY DESCRIPTION

PROPOSED SUBDIVISION
STAGE 30
HUNTLEE

SURVEYED: Daly.Smith Pty Ltd DATUM: GDA94 MGA56 - A.H.D.

PROJECT: POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION

PLAN TITLE: PRESSURE SEWER DETAIL PLAN - SHEET 3

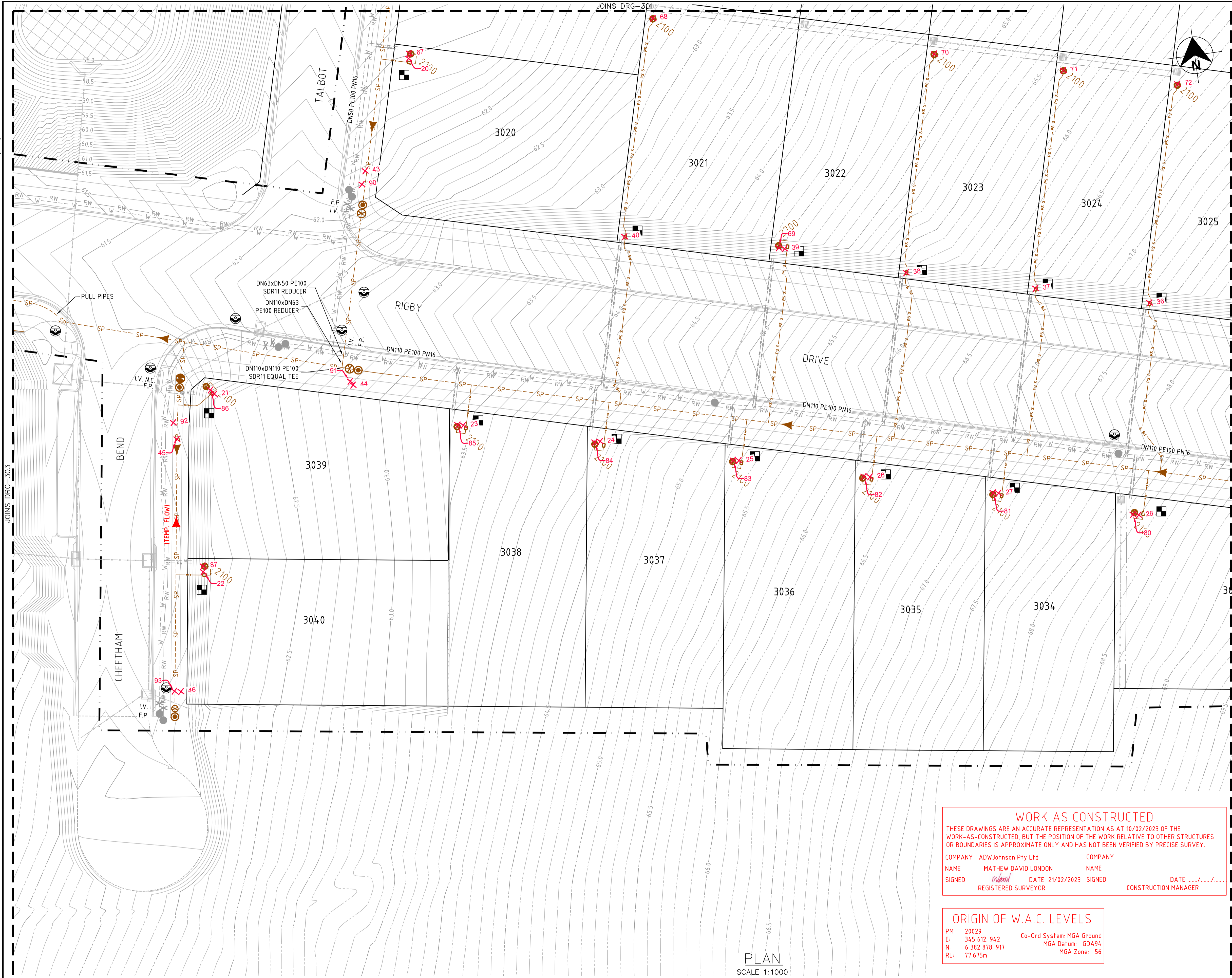
PROJECT No.	DISCIPLINE	NUMBER	REV.
240037(30)	- WAC -	303	5



240072(30)-WAC-305

JOINS DRG-303

100mm AT FULL SIZE



- LEGEND**
- SP PE PRESSURE SEWER RETICULATION
 - PS S PE PRESSURE SEWER PROPERTY SERVICE
 - W PVC-M POTABLE WATER RETICULATION
 - PWS POTABLE WATER PROPERTY SERVICE
 - RW PVC-M RECYCLED WATER RETICULATION
 - RWS RECYCLED WATER PROPERTY SERVICE
 - EX PS EXISTING PRESSURE SEWER RETICULATION
 - EX PW EXISTING POTABLE WATER RETICULATION
 - EX RW EXISTING RECYCLED WATER RETICULATION
 - SW STORMWATER PIPEWORK
 - IV ISOLATION VALVE
 - IV (with symbol) ISOLATION VALVE - NORMALLY CLOSED
 - FP FLUSHING POINT
 - WWT (with symbol) WASTEWATER COLLECTION TANK AND BOUNDARY KIT
 - PS (with arrow) PRESSURE SEWER FLOW DIRECTION (SEE NOTE 7)
 - PS (with red arrow) PRESSURE SEWER TEMPORARY FLOW DIRECTION
 - PS (with square) PROPERTY SERVICE CONNECTION
 - PS (with circle) LAY PRESSURE SEWER MAIN UNDER STORMWATER PIPE (300mm MIN. VERTICAL CLEARANCE) - REFER TO WAT-1255-H
 - PROPOSED EASEMENT
 - SUBDIVISION STAFF BOUNDARY

- PRESSURE SEWER PROPERTY SERVICE CONNECTIONS
 TOTAL 40 CONNECTIONS
 • SINGLE SERVICES
 - 23 x SHORT SIDE
 - 17 x LONG SIDE

PRESSURE SEWER PIPE DATA		
PIPE SIZE (mm)	PIPE MATERIAL	TOTAL LENGTH (m)
DN110	PE100 SDR11	353
DN63	PE100 SDR11	20
DN50	PE100 SDR11	313
DN40 (LATERAL)	PE100 SDR11	816

- NOTES:**
- FOR POTABLE WATER PIPEWORK DETAIL PLANS REFER TO DRGS-101 TO 105.
 - FOR RECYCLED WATER PIPEWORK DETAIL PLANS REFER TO DRGS-201 AND 202.
 - FOR TYPICAL SERVICE CONNECTION DETAILS REFER TO DRG-402.
 - 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
 THESE DRAWINGS ARE AN ACCURATE REPRESENTATION AS AT 10/02/2023 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 21/02/2023 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: 20/12/2021

AS CONSTRUCTED

REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY
B	11.10.2021	FOR APPROVAL	G.S.	C.B.	G.S.	C.B.
0	20.12.2021	FOR CONSTRUCTION	G.S.	C.B.	G.S.	C.B.
1	01.03.2022	FOR CONSTRUCTION	G.S.	C.B.	G.S.	C.B.
2	03.06.2022	FOR CONSTRUCTION	G.S.	C.B.	G.S.	C.B.
3	21.09.2022	FOR CONSTRUCTION	G.S.	C.B.	G.S.	C.B.
4	16.01.2023	UPDATED HYD. LOCATIONS ADJACENT TO LOTS 3030/3031	G.S.	C.B.	G.S.	C.B.
5	16.03.2023	WORK AS CONSTRUCTED	G.S.	S.S.	G.S.	M.L.O.

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

PROPERTY DESCRIPTION
 PROPOSED SUBDIVISION
 STAGE 30
 HUNTLEE

SURVEYED
 Daly.Smith Pty Ltd

DATUM
 GDA94 MGA56 - A.H.D.

PROJECT
 POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION

PLAN TITLE
 PRESSURE SEWER DETAIL
 PLAN - SHEET 4

PROJECT No.
240037(30)

DISCIPLINE
 - WAC -

NUMBER
 304

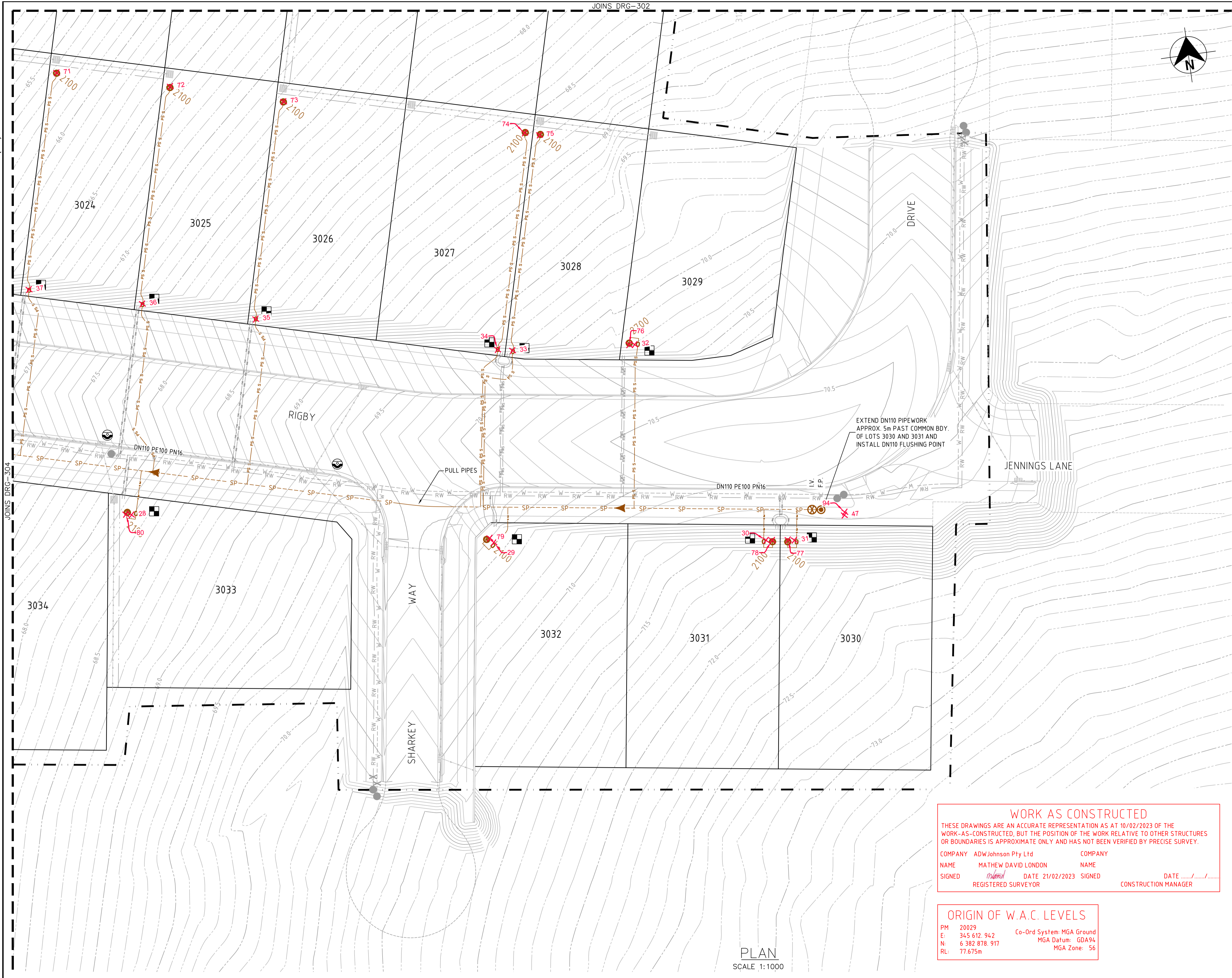
REV.
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240072(30)-WAC-305

JOINS DRG-304

100mm AT FULL SIZE



- LEGEND**
- SP PE PRESSURE SEWER RETICULATION
 - PS S PE PRESSURE SEWER PROPERTY SERVICE
 - W PVC-M POTABLE WATER RETICULATION
 - PWS POTABLE WATER PROPERTY SERVICE
 - RW PVC-M RECYCLED WATER RETICULATION
 - RWS RECYCLED WATER PROPERTY SERVICE
 - EX PS EXISTING PRESSURE SEWER RETICULATION
 - EX PW EXISTING POTABLE WATER RETICULATION
 - EX RW EXISTING RECYCLED WATER RETICULATION
 - SW STORMWATER PIPEWORK
 - IV ISOLATION VALVE
 - IV NC ISOLATION VALVE - NORMALLY CLOSED
 - FP FLUSHING POINT
 - WWT WASTEWATER COLLECTION TANK AND BOUNDARY KIT
 - PSFD PRESSURE SEWER FLOW DIRECTION (SEE NOTE 7)
 - PSFTD PRESSURE SEWER TEMPORARY FLOW DIRECTION
 - PC PROPERTY SERVICE CONNECTION
 - LPSM LAY PRESSURE SEWER MAIN UNDER STORMWATER PIPE (300mm MIN. VERTICAL CLEARANCE) - REFER TO WAT-1255-H
 - PE PROPOSED EASEMENT
 - SSB SUBDIVISION STAGE BOUNDARY

■ PRESSURE SEWER PROPERTY SERVICE CONNECTIONS
 TOTAL 40 CONNECTIONS
 • SINGLE SERVICES
 -23 x SHORT SIDE
 -17 x LONG SIDE

PRESSURE SEWER PIPE DATA		
PIPE SIZE (mm)	PIPE MATERIAL	TOTAL LENGTH (m)
DN110	PE100 SDR11	353
DN63	PE100 SDR11	20
DN50	PE100 SDR11	313
DN40 (LATERAL)	PE100 SDR11	816

- NOTES:**
- FOR POTABLE WATER PIPEWORK DETAIL PLANS REFER TO DRGS-101 TO 105.
 - FOR RECYCLED WATER PIPEWORK DETAIL PLANS REFER TO DRGS-201 AND 205.
 - FOR TYPICAL SERVICE CONNECTION DETAILS REFER TO DRG-402.
 - 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
 THESE DRAWINGS ARE AN ACCURATE REPRESENTATION AS AT 10/02/2023 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 [Signature] DATE 21/02/2023 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

APPROVED FOR CONSTRUCTION
 BY ADW Johnson Pty Ltd
 Date Approved: 20/12/2021

AS CONSTRUCTED

REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY	SCALES
B	11.10.2021	FOR APPROVAL	G.S.	C.B.	G.S.	C.B.	 SCALE: 1:250 (FULL)
0	20.12.2021	FOR CONSTRUCTION	G.S.	C.B.	G.S.	C.B.	
1	01.03.2022	FOR CONSTRUCTION	G.S.	C.B.	G.S.	C.B.	
2	03.06.2022	FOR CONSTRUCTION	G.S.	C.B.	G.S.	C.B.	
3	21.09.2022	FOR CONSTRUCTION	G.S.	C.B.	G.S.	C.B.	
4	16.01.2023	UPDATED HYD. LOCATIONS ADJACENT TO LOTS 3030/3031	G.S.	C.B.	G.S.	C.B.	
5	16.03.2023	WORK AS CONSTRUCTED	G.S.	S.S.	G.S.	M.L.O.	

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 30
 HUNTLEE

SURVEYED
 Daly.Smith Pty Ltd

DATUM
 GDA94 MGA56 - A.H.D.

PROJECT
 POTABLE WATER, RECYCLED WATER AND
 PRESSURE SEWER RETICULATION

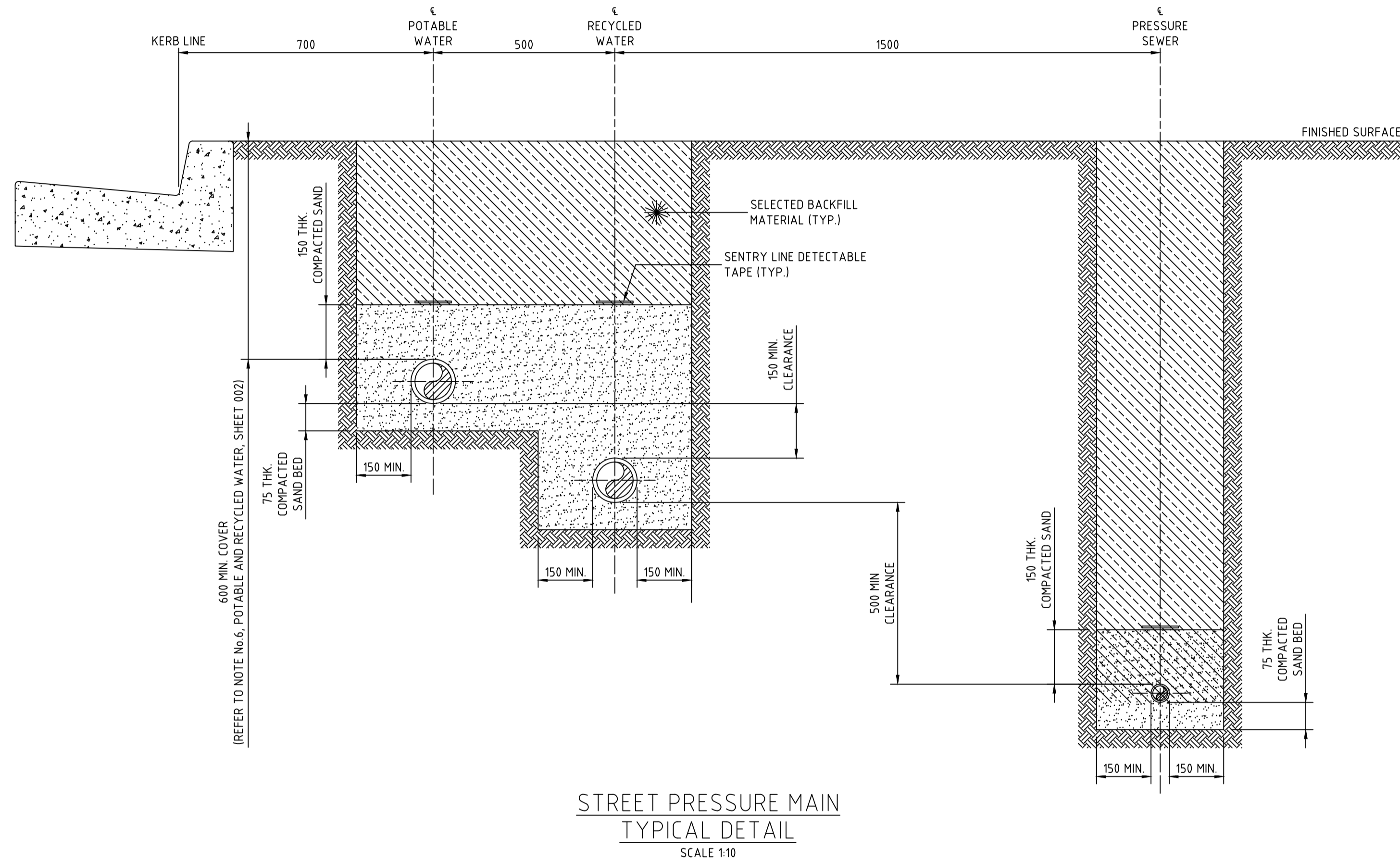
PLAN TITLE
 PRESSURE SEWER DETAIL
 PLAN - SHEET 5

PROJECT No.
 240037(30)

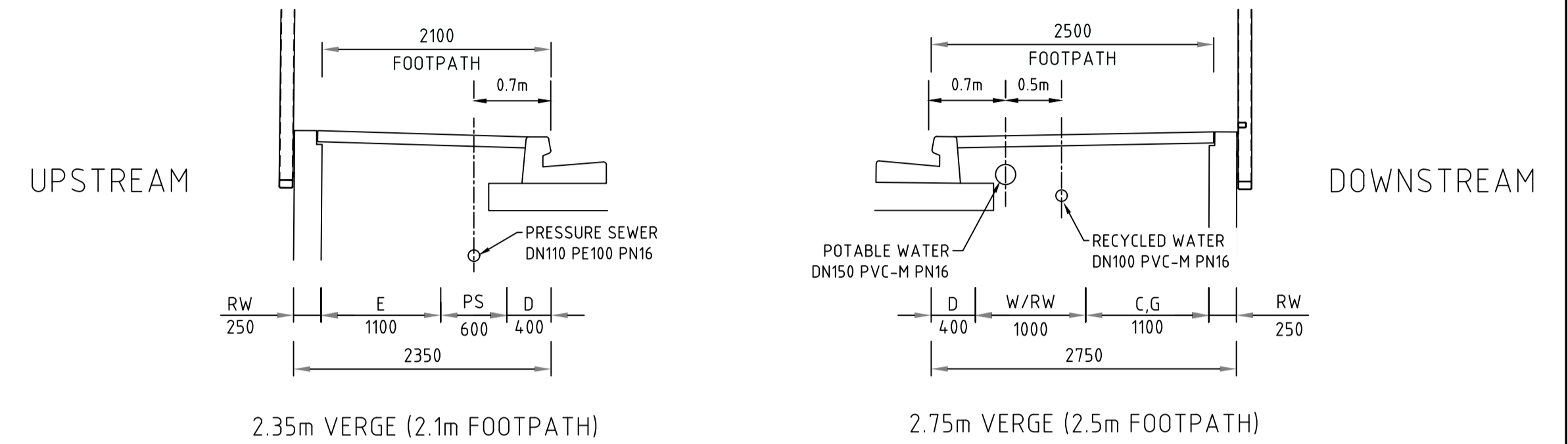
DISCIPLINE
 - WAC -

NUMBER
 305

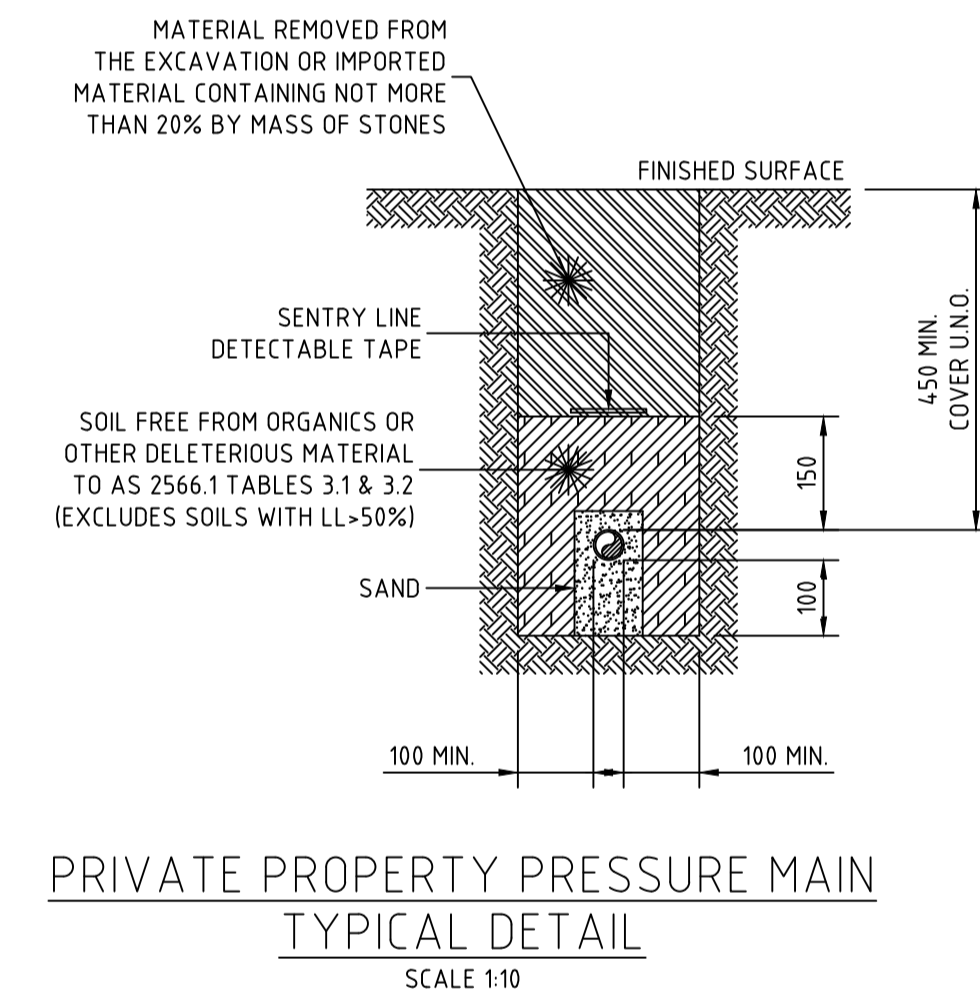
REV.
 5



STREET PRESSURE MAIN
TYPICAL DETAIL
SCALE 1:10



CULVERT CROSSING PRESSURE MAIN
TYPICAL DETAIL
N.T.S.



PRIVATE PROPERTY PRESSURE MAIN
TYPICAL DETAIL
SCALE 1:10

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

WORK AS CONSTRUCTED
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NAME MATHEW DAVID LONDON NAME
SIGNED *MatheW* DATE 21/02/2023 SIGNED DATE
REGISTERED SURVEYOR CONSTRUCTION MANAGER

ORIGIN OF W.A.C. LEVELS
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RL: 77.675m MGA Zone: 56

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BY ADW Johnson Pty Ltd
Date Approved: 20/12/2021

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adw Johnson
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ABN 62 129 445 398

CLIENT
altogether.

PROPERTY DESCRIPTION
PROPOSED SUBDIVISION
STAGE 30
HUNTLEE

SURVEYED
Daly Smith Pty Ltd

DATUM
GDA94 MGA56 - A.H.D.

PROJECT
POTABLE WATER, RECYCLED WATER AND
PRESSURE SEWER RETICULATION

PLAN TITLE
TYPICAL PIPEWORK
TRENCHING DETAILS

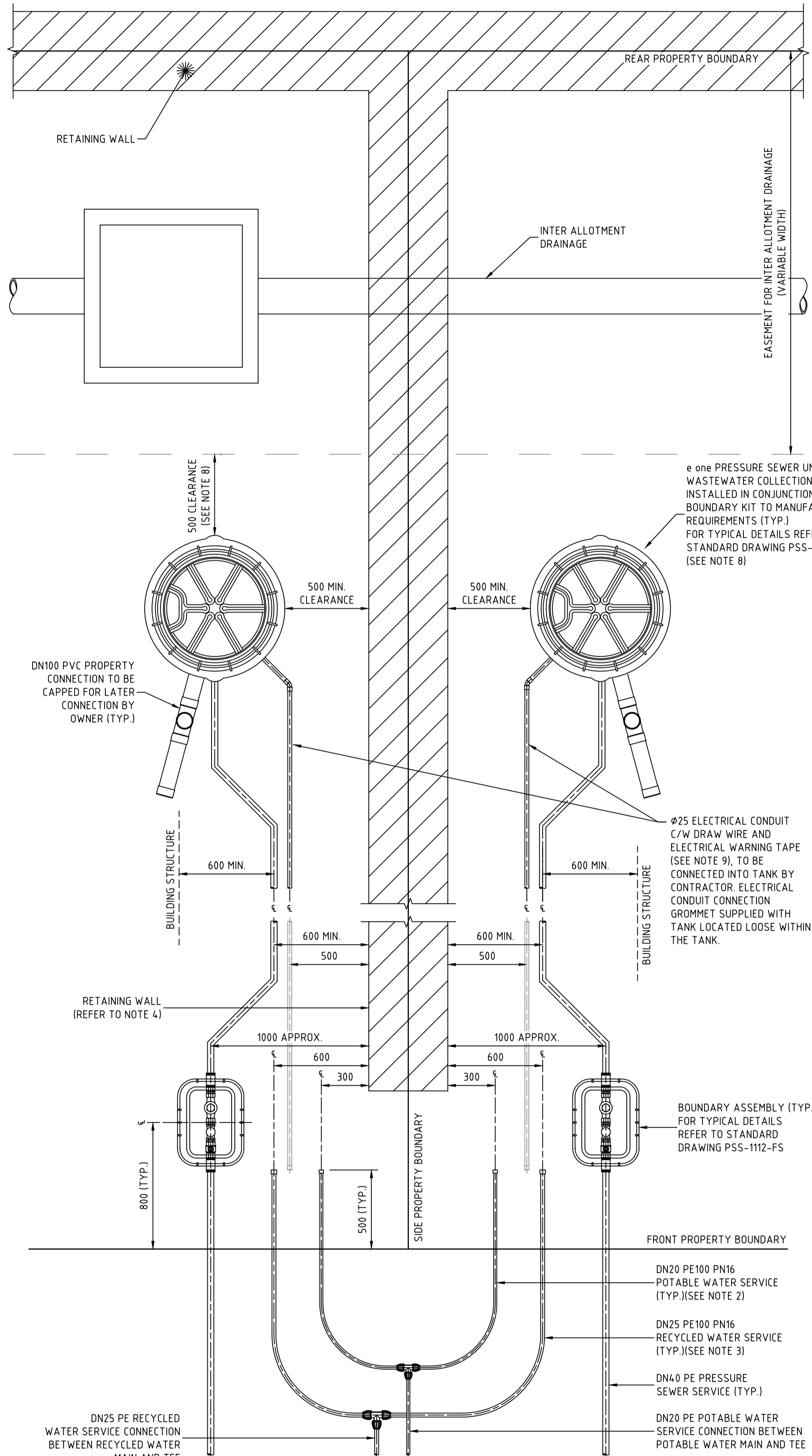
PROJECT No.
240037(30)

DISCIPLINE
- WAC -

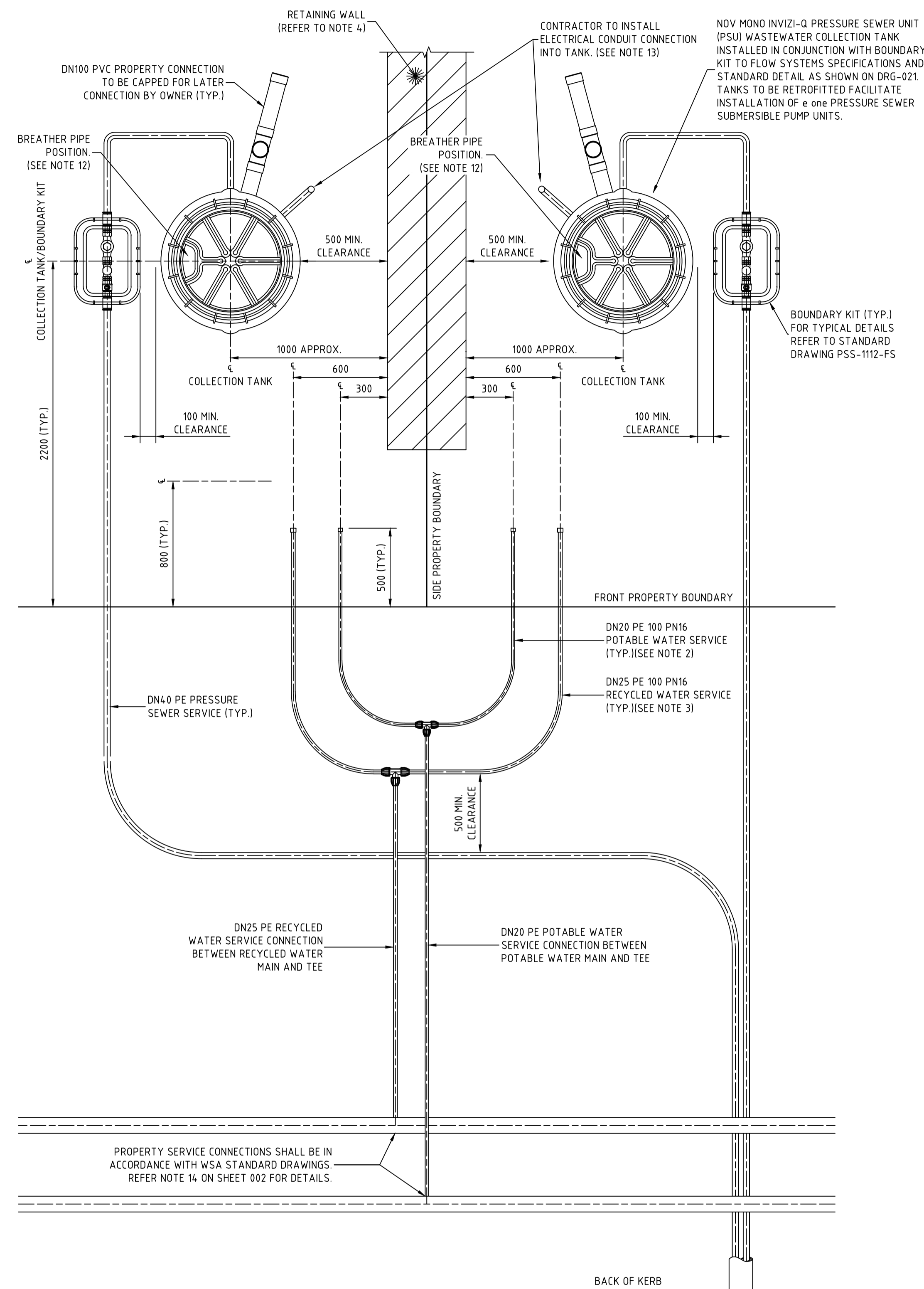
NUMBER
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REV.
5

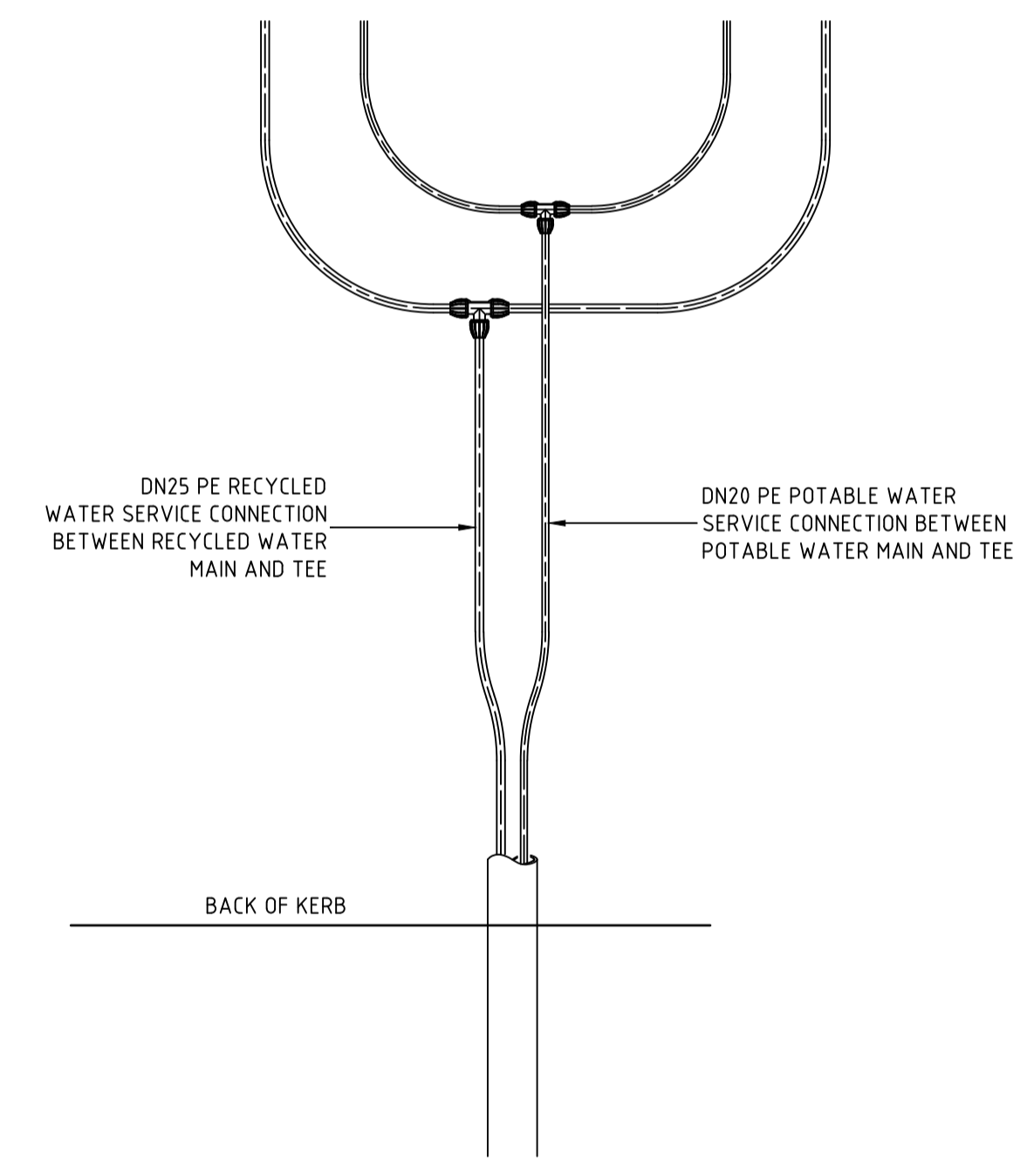
240072(30)-WAC-403



TYPICAL PROPERTY CONNECTION DETAIL
(PRESSURE SEWER UNIT AT REAR)
SCALE 1:20



TYPICAL PROPERTY CONNECTION DETAIL
SCALE 1:20



TYPICAL POTABLE WATER AND RECYCLED WATER CONDUIT DETAIL
(LONG SIDE)
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 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 INSTALLED IN ACCORDANCE WITH AS3000 AT MIN 500mm COVER. ALL CONDUIT BENDS ARE TO BE LARGE RADIUS SWEEP BENDS.
 - FOR MORE INFORMATION REFER TO FLOW SYSTEMS STANDARD DRAWING FSI-1000-FS.
 - FOR ALTERNATE TANK AND BOUNDARY CONFIGURATIONS, AND DETAILS FOR TANKS INSTALLED ON PROPERTIES WITH BATTERS AND RETAINING WALLS, REFER TO FLOW SYSTEMS STANDARD DRAWINGS FSI-SK03A-FS AND FSI-SK03B-FS.
 - POSITION TANK LID SUCH THAT BREATHING PIPE LOCATION IS ON THE DOWNSLOPE SIDE OF THE BLOCK WHERE POSSIBLE.
 - CONTRACTOR TO INSTALL ELECTRICAL CONDUIT CONNECTION IN ACCORDANCE WITH AS3000 AT MIN 500mm COVER. ELECTRICAL GROMMET SUPPLIED WITH TANK AND LOCATED LOOSE WITHIN TANK. ø25 CONDUIT TO BE PROVIDED WITH LONG RADIUS SWEEP BEND INTO THE VERTICAL POSITION AND LEFT CAPPED ABOVE GROUND LEVEL FOR FUTURE ELECTRICAL CONNECTION BY ELECTRICIAN ONCE DWELLING IS CONSTRUCTED.

WORK AS CONSTRUCTED
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COMPANY ADW Johnson Pty Ltd
NAME MATHEW DAVID LONDON
SIGNED [Signature] DATE 21/02/2023
REGISTERED SURVEYOR

APPROVED FOR CONSTRUCTION
BY ADW Johnson Pty Ltd
Date Approved: 20/12/2021

AS CONSTRUCTED

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

REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY	SCALES
B	11.10.2021	FOR APPROVAL	G.S.	C.B.	G.S.	C.B.	0 0.1 0.2 0.3 0.4 A1 / A3 1:10 / 1:20
0	20.12.2021	FOR CONSTRUCTION	G.S.	C.B.	G.S.	C.B.	0 0.4 0.8 A1 / A3 1:20 / 1:40
1	01.03.2022	FOR CONSTRUCTION	G.S.	C.B.	G.S.	C.B.	
2	03.06.2022	FOR CONSTRUCTION	G.S.	C.B.	G.S.	C.B.	
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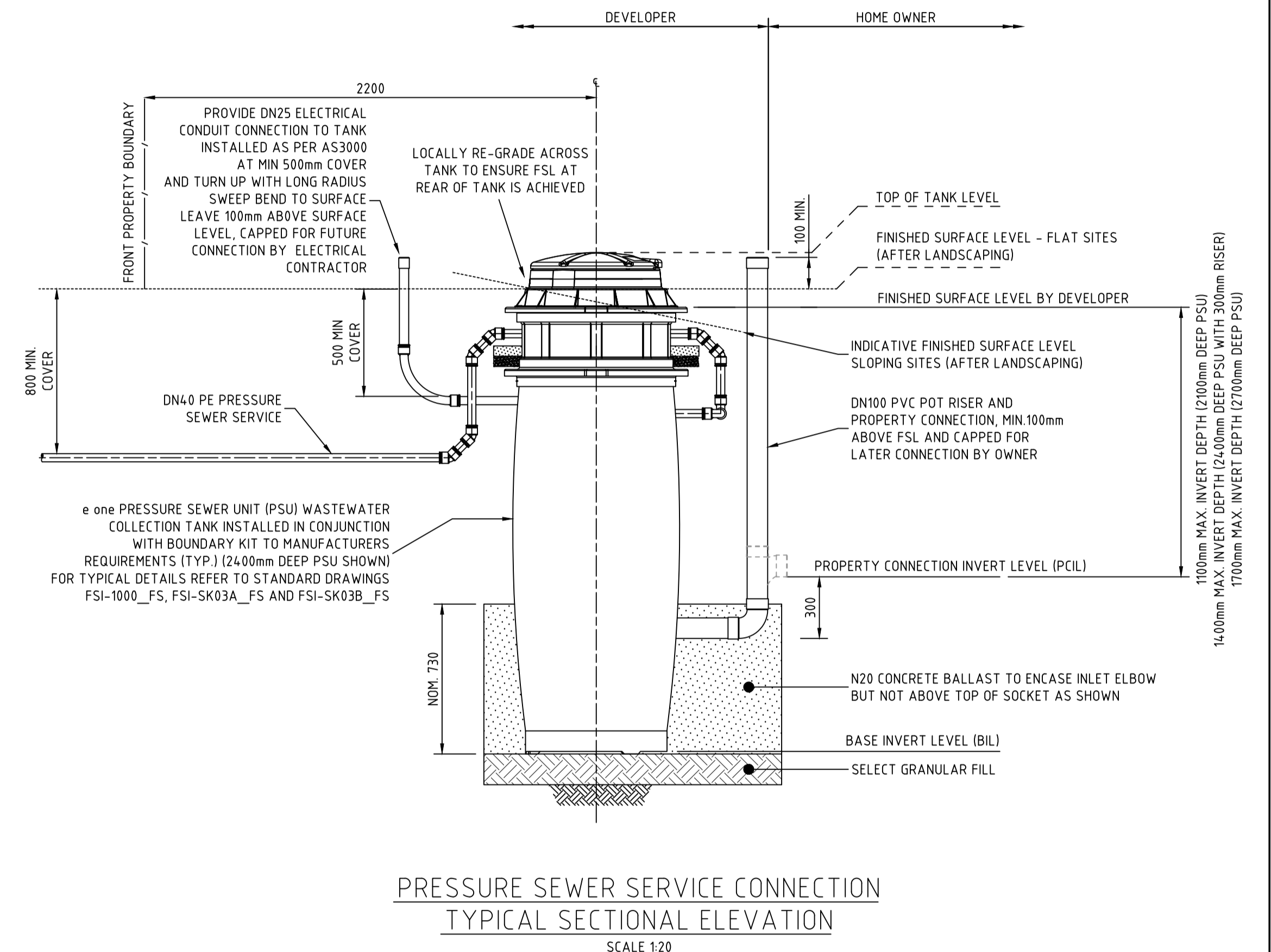
CLIENT
altogether.

PROPERTY DESCRIPTION
PROPOSED SUBDIVISION
STAGE 30
HUNTLEE

PROJECT POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION
PLAN TITLE TYPICAL SERVICE CONNECTION DETAILS
PROJECT No. 240037(30)
DISCIPLINE - WAC -
NUMBER 402
REV. 5

WASTEWATER COLLECTION TANK DETAILS

LOT NUMBER	TOP OF TANK	TANK FSL	BASE IL	CONNECTION IL	TANK HEIGHT	TANK LOCATION	EASTING	NORTHING	TOP OF COLLECTION TANK LID	CALCULATED WAC SANITARY DRAINAGE INVERT LEVEL	WAC V'S DESIGN INVERT LEVEL COMPARISON
3001	60.21	60.08	58.08	58.98	2100	FRONT	346732.88	638264.5.02	60.03	58.72	-0.26
3002	61.18	61.05	58.75	59.65	2400	FRONT	346759.74	6382623.44	61.14	59.53	-0.12
3003	61.91	61.78	59.18	60.08	2700	FRONT	346773.73	6382619.65	61.92	60.01	-0.07
3004	62.87	62.74	60.14	61.04	2700	FRONT	346790.14	6382615.20	62.93	61.01	-0.03
3005	63.66	63.53	60.93	61.83	2700	FRONT	346806.55	6382610.75	63.73	61.82	-0.01
3006	64.29	64.16	61.56	62.46	2700	FRONT	346821.03	6382606.83	64.40	62.49	0.03
3007	63.91	63.78	61.78	62.68	2100	REAR	346842.65	6382629.25	63.97	62.65	-0.03
3008	64.95	64.82	62.82	63.72	2100	REAR	346874.50	6382620.62	65.05	63.74	0.02
3009	65.00	64.87	62.87	63.77	2100	REAR	346876.43	6382620.10	65.09	63.78	0.01
3010	67.54	67.41	65.41	66.31	2100	FRONT	346871.13	6382571.90	67.44	66.13	-0.18
3011	67.02	66.89	64.89	65.79	2100	FRONT	346854.73	6382576.35	66.96	65.64	-0.15
3012	66.45	66.32	64.32	65.22	2100	FRONT BATTER	346839.77	6382580.40	66.49	65.17	-0.05
3013	65.53	65.40	63.40	64.30	2100	FRONT	346823.84	6382584.72	65.47	64.16	-0.14
3014	64.71	64.58	62.58	63.48	2100	FRONT	346809.36	6382588.65	64.70	63.38	-0.10
3015	63.84	63.71	61.71	62.61	2100	FRONT	346792.95	6382593.09	63.82	62.51	-0.10
3016	63.05	62.92	60.92	61.82	2100	FRONT BATTER	346776.55	6382597.54	63.04	61.73	-0.09
3017	62.03	61.90	59.90	60.80	2100	FRONT	346758.69	6382602.38	62.03	60.71	-0.09
3018	60.82	60.69	58.39	59.29	2400	FRONT BATTER	346727.32	6382610.09	60.85	59.23	-0.06
3019	61.25	61.12	59.12	60.02	2100	FRONT	346722.07	6382590.76	61.23	59.92	-0.10
3020	61.62	61.49	59.49	60.39	2100	FRONT	346716.86	6382571.45	61.56	60.25	-0.14
3021	62.76	62.63	60.63	61.53	2100	REAR	346748.79	6382571.60	62.76	61.44	-0.09
3022	64.87	64.74	62.14	63.04	2700	FRONT BATTER	346760.95	6382540.02	64.91	63.00	-0.04
3023	64.80	64.67	62.67	63.57	2100	REAR	346784.50	6382561.92	64.90	63.59	0.02
3024	66.78	66.65	64.05	64.95	2700	FRONT BATTER	346800.91	6382557.47	65.83	64.51	-0.02
3025	66.64	66.51	64.51	65.41	2100	REAR	346815.39	6382553.55	66.64	65.33	-0.08
3026	67.38	67.25	65.25	66.15	2100	REAR	346829.87	6382549.62	67.38	66.07	-0.09
3027	68.71	68.58	66.58	67.48	2100	REAR	346860.75	6382541.25	68.73	67.41	-0.07
3028	68.78	68.65	66.65	67.55	2100	REAR	346862.68	6382540.73	68.73	67.41	-0.14
3029	70.30	70.17	67.57	68.47	2700	FRONT	346870.44	6382512.00	70.28	68.36	-0.11
3030	71.49	71.36	69.36	70.26	2100	FRONT BATTER	346887.44	6382483.30	71.45	70.13	-0.13
3031	71.49	71.36	69.36	70.26	2100	FRONT BATTER	346885.46	6382483.59	71.44	70.13	-0.13
3032	70.55	70.42	68.42	69.32	2100	FRONT BATTER	346848.35	6382489.08	70.52	69.21	-0.11
3033	68.28	68.15	66.15	67.05	2100	FRONT	346802.13	6382499.12	68.26	66.95	-0.10
3034	67.27	67.14	65.14	66.04	2100	FRONT	346784.15	6382503.99	67.24	65.93	-0.11
3035	66.31	66.18	64.18	65.08	2100	FRONT	346767.63	6382508.47	66.28	64.96	-0.12
3036	65.38	65.25	63.25	64.15	2100	FRONT	346751.11	6382512.95	65.36	64.04	-0.11
3037	64.29	64.16	62.16	63.06	2100	FRONT	346733.61	6382517.69	64.31	63.00	-0.06
3038	63.56	63.43	61.43	62.33	2100	FRONT	346716.12	6382522.43	63.55	62.24	-0.09
3039	62.00	61.87	59.87	60.77	2100	FRONT BATTER	346684.40	6382532.16	62.02	60.71	-0.06
3040	61.97	61.84	59.84	60.74	2100	FRONT BATTER	346680.97	6382508.97	62.03	60.71	-0.03



WASTEWATER COLLECTION TANK COUNT

TANK SIZE	NUMBER OF
2100	31
2400	2
2700	7

WORK AS CONSTRUCTED
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 COMPANY: ADW Johnson Pty Ltd
 NAME: MATHEW DAVID LONDON
 SIGNED: [Signature] DATE: 21/02/2023
 REGISTERED SURVEYOR

APPROVED FOR CONSTRUCTION
 BY ADW Johnson Pty Ltd
 Date Approved: 20/12/2021

ORIGIN OF W.A.C. LEVELS
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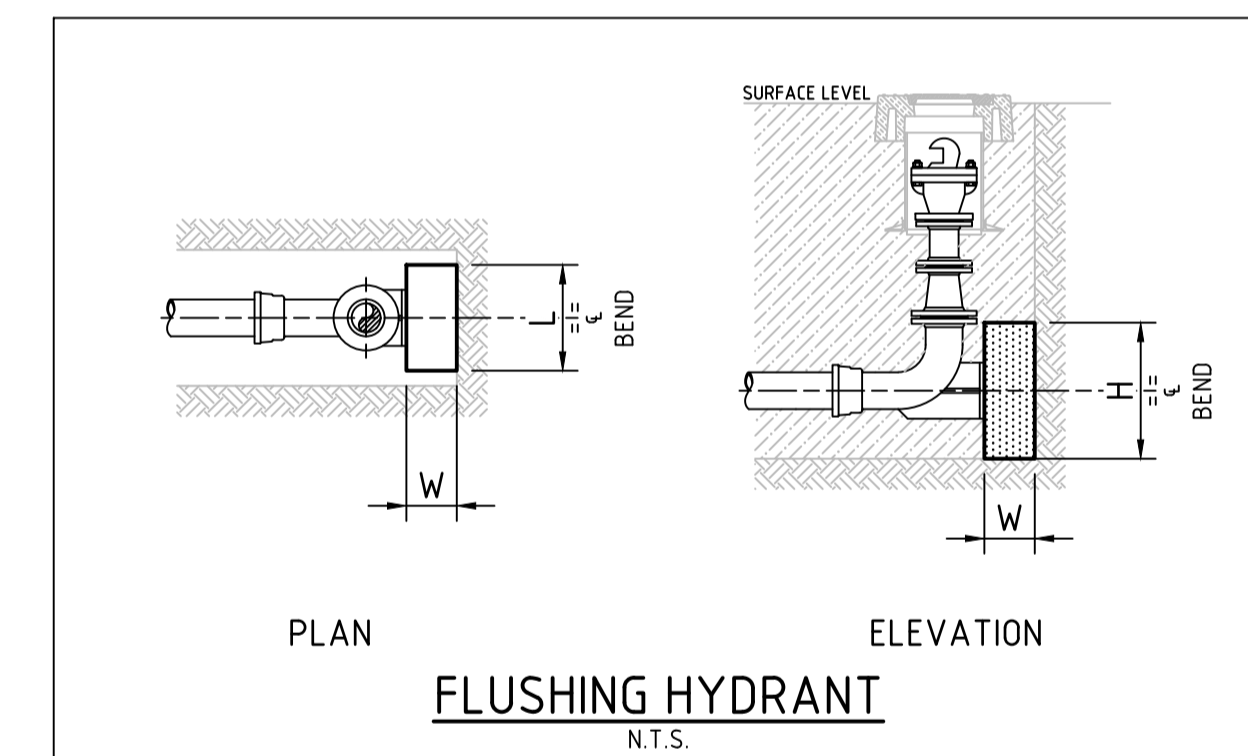
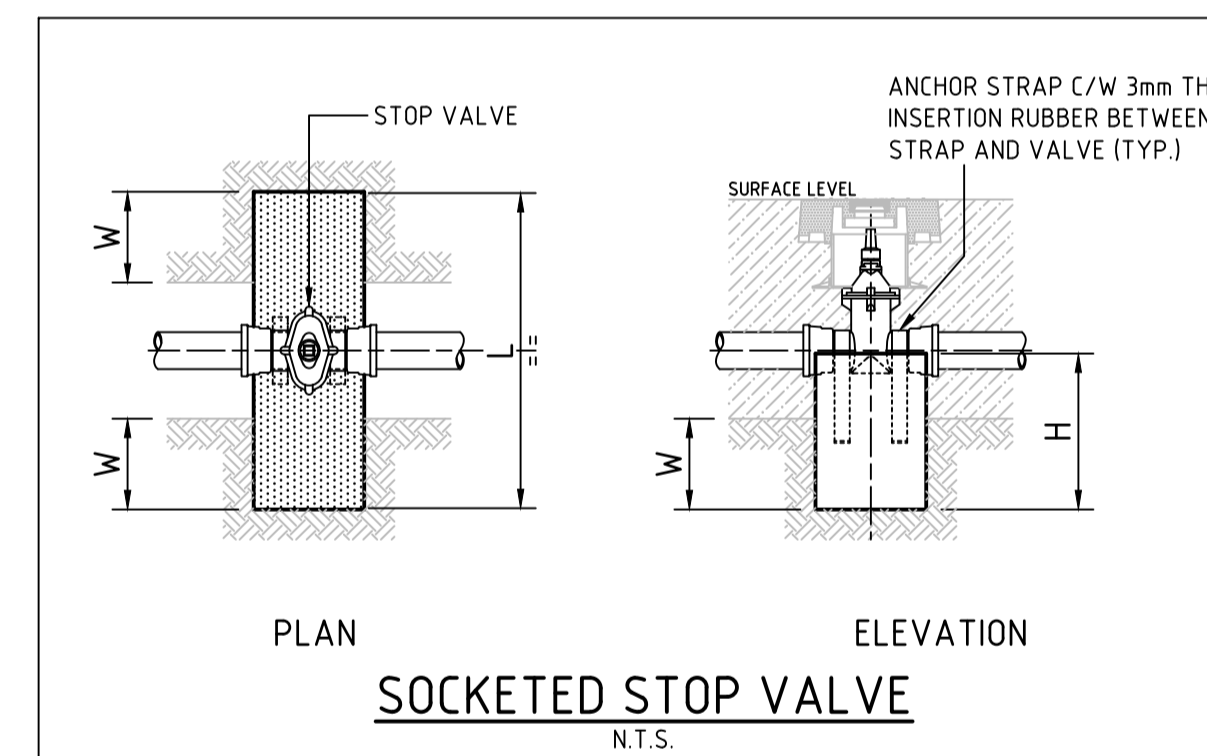
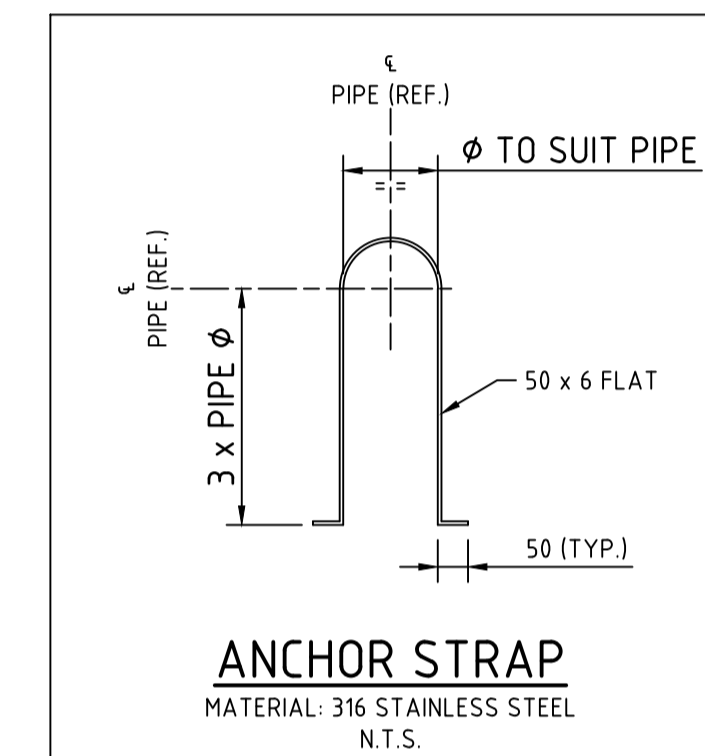
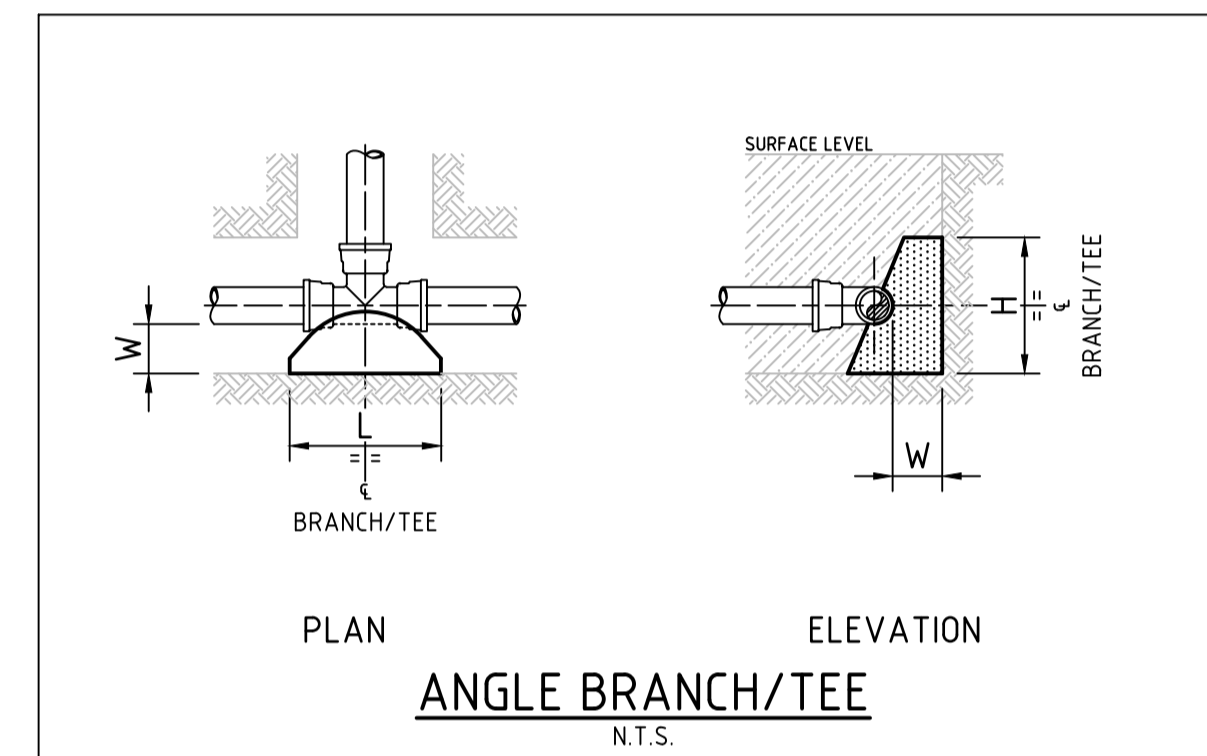
100mm AT FULL SIZE

<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> </tr> </thead> <tbody> <tr> <td>B</td> <td>11.10.2021</td> <td>FOR APPROVAL</td> <td>G.S.</td> <td>C.B.</td> <td>G.S.</td> <td>C.B.</td> </tr> <tr> <td>0</td> <td>20.12.2021</td> <td>FOR CONSTRUCTION</td> <td>G.S.</td> <td>C.B.</td> <td>G.S.</td> <td>C.B.</td> </tr> <tr> <td>1</td> <td>01.03.2022</td> <td>FOR CONSTRUCTION</td> <td>G.S.</td> <td>C.B.</td> <td>G.S.</td> <td>C.B.</td> </tr> <tr> <td>2</td> <td>03.06.2022</td> <td>FOR CONSTRUCTION</td> <td>G.S.</td> <td>C.B.</td> <td>G.S.</td> <td>C.B.</td> </tr> <tr> <td>3</td> <td>21.09.2022</td> <td>FOR CONSTRUCTION</td> <td>G.S.</td> <td>C.B.</td> <td>G.S.</td> <td>C.B.</td> </tr> <tr> <td>4</td> <td>16.01.2023</td> <td>UPDATED HYD. LOCATIONS ADJACENT TO LOTS 3030/3031</td> <td>G.S.</td> <td>C.B.</td> <td>G.S.</td> <td>C.B.</td> </tr> <tr> <td>5</td> <td>16.03.2023</td> <td>WORK AS CONSTRUCTED</td> <td>G.S.</td> <td>S.S.</td> <td>G.S.</td> <td>M.L.O.</td> </tr> </tbody> </table>	REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY	B	11.10.2021	FOR APPROVAL	G.S.	C.B.	G.S.	C.B.	0	20.12.2021	FOR CONSTRUCTION	G.S.	C.B.	G.S.	C.B.	1	01.03.2022	FOR CONSTRUCTION	G.S.	C.B.	G.S.	C.B.	2	03.06.2022	FOR CONSTRUCTION	G.S.	C.B.	G.S.	C.B.	3	21.09.2022	FOR CONSTRUCTION	G.S.	C.B.	G.S.	C.B.	4	16.01.2023	UPDATED HYD. LOCATIONS ADJACENT TO LOTS 3030/3031	G.S.	C.B.	G.S.	C.B.	5	16.03.2023	WORK AS CONSTRUCTED	G.S.	S.S.	G.S.	M.L.O.	<p>0 0.4 0.8 A1 / A3 1:20 / 1:40</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>PROPERTY DESCRIPTION PROPOSED SUBDIVISION STAGE 30 HUNTLEE</p>	<p>PROJECT POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION</p> <p>PLAN TITLE WASTE WATER COLLECTION TANK LEVEL DETAILS</p>	<p>DESIGN FILE N:\ Plotted By: glenns Plot Date: 16/03/23 - 16:50 Cad File: N:\240072\DWG\water & sewer\stage 30-wac\240072(30)-WAC-403.dwg</p>	<p>ALL DIMENSIONS ARE IN METRES. DO NOT SCALE</p>	<p>SURVEYED Daly Smith Pty Ltd</p> <p>DATUM GDA94 MGA56 - A.H.D.</p>	<p>PROJECT No. 240037(30)</p> <p>DISCIPLINE - WAC -</p> <p>NUMBER 403</p>	<p>REV. 5</p>
REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY																																																												
B	11.10.2021	FOR APPROVAL	G.S.	C.B.	G.S.	C.B.																																																												
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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 AHBP (kPa)	DESIGN STP (kPa)	THRUST	TA (m ²)	LENGTH (L)	HEIGHT (H)	WIDTH (W)
1	DN100 x DN100 EQUAL TEE	100	1500	18.00	0.18	0.45	0.40	0.30
2	DN100 x 90° HORIZONTAL BEND	100	1500	25.50	0.26	0.55	0.47	0.30
3	DN150 x 90° HORIZONTAL BEND	100	1500	52.5	0.53	0.6	0.88	0.30
4	DN100 SOCKETED STOP VALVE	100	1500	18.00	0.18	1.05	0.44	0.30
5	DN100 FLUSHING HYDRANT	100	1500	18.00	0.18	0.45	0.40	0.30
6	DN150 x DN150 EQUAL TEE	100	1500	37.50	0.38	0.50	0.75	0.30
7	DN150 SOCKETED STOP VALVE	100	1500	37.50	0.38	1.05	0.46	0.30
8	DN150 FLUSHING HYDRANT	100	1500	37.50	0.38	0.50	0.76	0.30



WORK AS CONSTRUCTED
 THESE DRAWINGS ARE AN ACCURATE REPRESENTATION AS AT 10/02/2023 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: 21/02/2023
 REGISTERED SURVEYOR

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: 20/12/2021

AS CONSTRUCTED

REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY	SCALES
B	11.10.2021	FOR APPROVAL	G.S.	C.B.	G.S.	C.B.	
0	20.12.2021	FOR CONSTRUCTION	G.S.	C.B.	G.S.	C.B.	
1	01.03.2022	FOR CONSTRUCTION	G.S.	C.B.	G.S.	C.B.	
2	03.06.2022	FOR CONSTRUCTION	G.S.	C.B.	G.S.	C.B.	
3	21.09.2022	FOR CONSTRUCTION	G.S.	C.B.	G.S.	C.B.	
4	16.01.2023	UPDATED HYD. LOCATIONS ADJACENT TO LOTS 3030/3031	G.S.	C.B.	G.S.	C.B.	
5	16.03.2023	WORK AS CONSTRUCTED	G.S.	S.S.	G.S.	M.L.O.	

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

PROPERTY DESCRIPTION
PROPOSED SUBDIVISION
 STAGE 30
 HUNTLEE

SURVEYED
 Daly.Smith Pty Ltd

DATUM
 GDA94 MGA56 - A.H.D.

PROJECT
POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION

PLAN TITLE
THRUST BLOCK DETAILS

PROJECT No.
240037(30)

DISCIPLINE
- WAC -

NUMBER
404

REV.
5



Point Table				
Point #	Eastings	Northings	Levels	Codes
121	346734.28	6382614.46	60.15	waSVR
122	346706.81	6382556.03	61.89	waSVR
123	346692.23	6382536.85	62.15	waSVR
124	346672.95	6382493.34	61.28	waSVR
125	346829.62	6382461.70	70.07	waSVR
126	346917.81	6382531.89	69.56	waSVR
127	346868.11	6382592.27	66.73	waTAP
128	346867.53	6382592.44	66.72	waTAP
129	346870.89	6382573.75	67.08	waTAP
130	346854.34	6382577.94	66.66	waTAP
131	346839.39	6382582.10	65.86	waTAP
132	346834.64	6382602.28	65.02	waTAP
133	346820.01	6382605.58	64.27	waTAP
134	346823.67	6382586.41	65.06	waTAP
135	346808.94	6382590.28	64.35	waTAP
136	346805.41	6382609.62	63.60	waTAP
137	346792.65	6382594.79	63.40	waTAP
138	346776.23	6382599.36	62.58	waTAP
139	346758.42	6382603.98	61.55	waTAP
140	346789.11	6382613.74	62.75	waTAP

Point Table				
Point #	Eastings	Northings	Levels	Codes
141	346772.70	6382618.51	61.74	waTAP
142	346758.78	6382622.09	60.99	waTAP
143	346731.25	6382646.11	59.81	waTAP
144	346726.71	6382610.90	60.64	waTAP
145	346720.71	6382591.83	61.05	waTAP
146	346715.47	6382572.49	61.40	waTAP
147	346683.81	6382531.19	61.70	waTAP
148	346679.59	6382509.88	61.53	waTAP
149	346715.56	6382524.01	63.34	waTAP
150	346733.39	6382519.48	64.04	waTAP
151	346750.65	6382514.48	65.05	waTAP
152	346767.27	6382510.21	65.98	waTAP
153	346783.70	6382505.60	66.96	waTAP
154	346801.55	6382500.48	68.02	waTAP
155	346804.46	6382490.43	70.29	waTAP
156	346886.34	6382484.61	71.08	waTAP
157	346886.96	6382484.45	71.12	waTAP
158	346869.30	6382510.76	70.30	waTAP
159	346854.48	6382513.10	69.97	waTAP
160	346853.88	6382513.21	69.93	waTAP

Point Table				
Point #	Eastings	Northings	Levels	Codes
161	346821.44	6382521.67	68.59	waTAP
162	346807.16	6382525.75	67.76	waTAP
163	346792.55	6382529.48	66.96	waTAP
164	346776.28	6382534.10	66.01	waTAP
165	346759.61	6382538.68	64.97	waTAP
166	346740.53	6382543.98	63.99	waTAP
167	346868.39	6382592.17	66.74	waTAP
168	346867.27	6382592.55	66.73	waTAP
169	346871.16	6382573.67	67.10	waTAP
170	346854.62	6382577.90	66.68	waTAP
171	346839.65	6382582.03	65.85	waTAP
172	346834.90	6382602.22	65.06	waTAP
173	346820.34	6382605.45	64.27	waTAP
174	346823.95	6382586.37	65.05	waTAP
175	346809.24	6382590.23	64.38	waTAP
176	346805.71	6382609.51	63.62	waTAP
177	346792.94	6382594.72	63.42	waTAP
178	346776.48	6382599.34	62.59	waTAP
179	346758.70	6382603.87	61.59	waTAP
180	346789.42	6382613.68	62.74	waTAP

Point Table				
Point #	Eastings	Northings	Levels	Codes
181	346773.02	6382618.42	61.75	waTAP
182	346759.02	6382622.02	60.98	waTAP
183	346731.18	6382645.83	59.77	waTAP
184	346715.42	6382572.17	61.43	waTAP
185	346683.98	6382530.96	61.78	waTAP
186	346679.53	6382509.61	61.47	waTAP
187	346715.89	6382523.98	63.33	waTAP
188	346733.59	6382519.40	64.05	waTAP
189	346750.82	6382514.44	65.04	waTAP
190	346767.54	6382510.14	66.03	waTAP
191	346784.02	6382505.54	66.98	waTAP
192	346801.83	6382500.40	68.03	waTAP
193	346849.60	6382490.25	70.28	waTAP
194	346886.05	6382484.63	71.07	waTAP
195	346887.21	6382484.43	71.09	waTAP
196	346869.57	6382510.73	70.29	waTAP
197	346854.73	6382513.07	70.01	waTAP
198	346853.55	6382513.23	69.93	waTAP
199	346821.72	6382521.56	68.60	waTAP
200	346807.38	6382525.68	67.71	waTAP

Point Table				
Point #	Eastings	Northings	Levels	Codes
201	346792.88	6382529.46	66.96	waTAP
202	346776.57	6382534.04	65.98	waTAP
203	346759.87	6382538.64	64.98	waTAP
204	346740.84	6382543.88	64.00	waTAP
205	346726.73	6382610.5	60.68	waTAP
206	346720.62	6382591.55	61.15	waTAP

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 COMPANY ADW Johnson Pty Ltd COMPANY
 NAME MATHEW DAVID LONDON NAME
 SIGNED *matthew* DATE 21/02/2023 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: 20/12/2021

AS CONSTRUCTED

REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY	SCALES	CLIENT	PROPERTY DESCRIPTION	PROJECT	PLAN TITLE	PROJECT No.	DISCIPLINE	NUMBER	REV.
B	11.10.2021	FOR APPROVAL	G.S.	C.B.	G.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@adwjohanson.com.au www.adwjohanson.com.au ABN 62 129 445 398</p>	<p>PROPOSED SUBDIVISION STAGE 30 HUNTLÉE</p>	<p>POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION</p>	<p>FITTINGS TABLE</p>	<p>240037(30)</p>	<p>- WAC -</p>	<p>406</p>	<p>5</p>
0	20.12.2021	FOR CONSTRUCTION	G.S.	C.B.	G.S.	C.B.									
1	01.03.2022	FOR CONSTRUCTION	G.S.	C.B.	G.S.	C.B.									
2	03.06.2022	FOR CONSTRUCTION	G.S.	C.B.	G.S.	C.B.									
3	21.09.2022	FOR CONSTRUCTION	G.S.	C.B.	G.S.	C.B.									
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5	16.03.2023	WORK AS CONSTRUCTED	G.S.	S.S.	G.S.	M.L.O.									

DESIGN FILE N:\
 Plotted By: glenns Plot Date: 16/03/23 - 16:51 Cad File: N:\240072\DWG\water & sewer\stage 30-wac\240072(30)-WAC-406.dwg