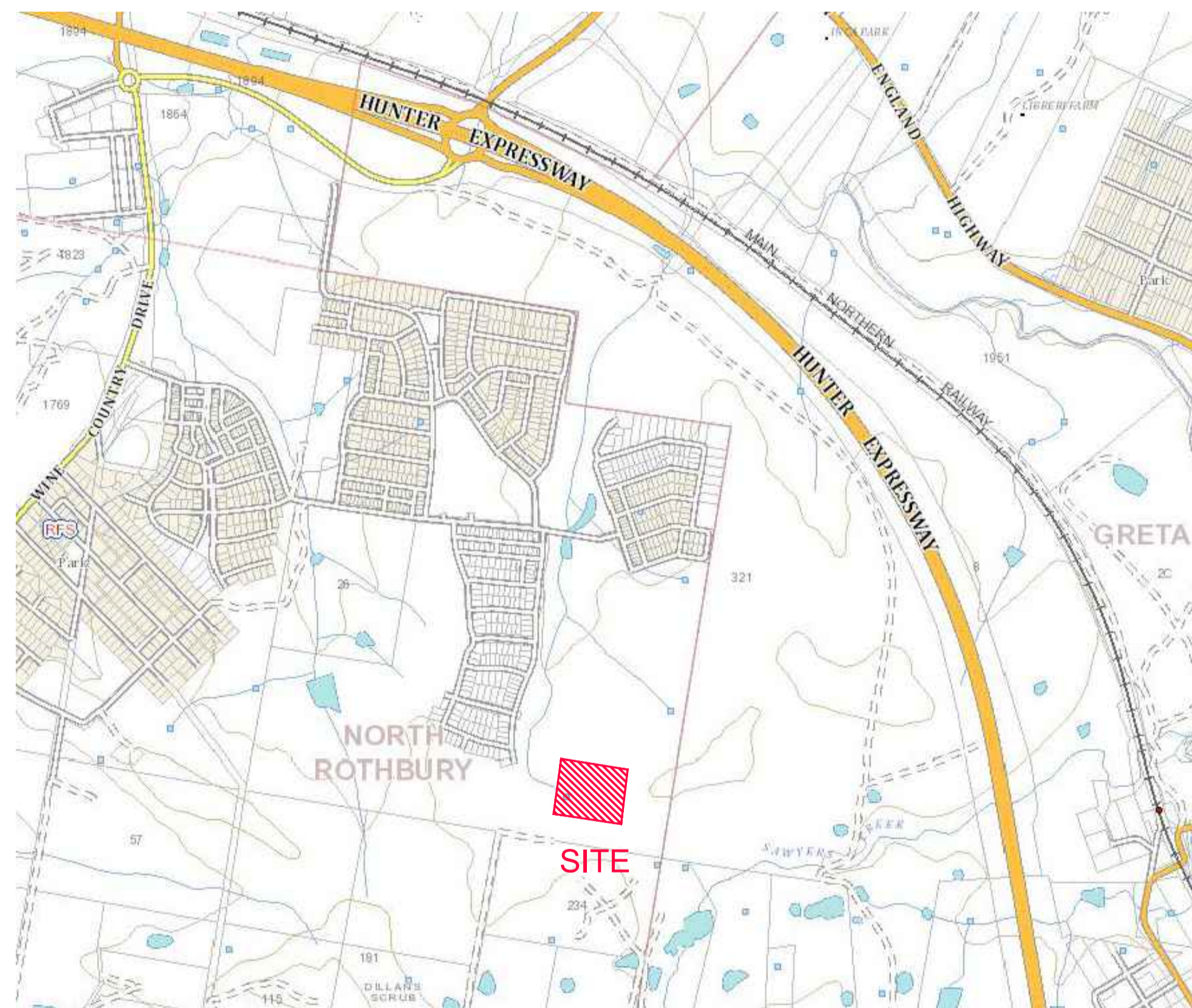
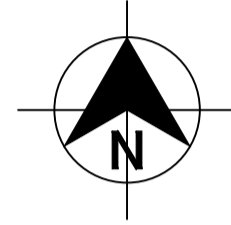


240037(33)-WAC-001



PROPOSED SUBDIVISION STAGE 33 HUNTLEE



LOCALITY SKETCH
NOT TO SCALE

DRAWING INDEX	
DRAWING NUMBER	DRAWING TITLE
240037(33)-WAT-001	COVER SHEET, LOCALITY PLAN & DRAWING INDEX
240037(33)-WAT-002	GENERAL NOTES
240037(33)-WAT-003	OVERALL SITE PLAN
240037(33)-WAT-101	POTABLE WATER DETAIL PLAN - SHEET 1
240037(33)-WAT-102	POTABLE WATER DETAIL PLAN - SHEET 2
240037(33)-WAT-103	POTABLE WATER DETAIL PLAN - SHEET 3
240037(33)-WAT-104	POTABLE WATER DETAIL PLAN - SHEET 4
240037(33)-WAT-201	RECYCLED WATER DETAIL PLAN - SHEET 1
240037(33)-WAT-202	RECYCLED WATER DETAIL PLAN - SHEET 2
240037(33)-WAT-203	RECYCLED WATER DETAIL PLAN - SHEET 3
240037(33)-WAT-204	RECYCLED WATER DETAIL PLAN - SHEET 4
240037(33)-WAT-301	PRESSURE SEWER DETAIL PLAN - SHEET 1
240037(33)-WAT-302	PRESSURE SEWER DETAIL PLAN - SHEET 2
240037(33)-WAT-303	PRESSURE SEWER DETAIL PLAN - SHEET 3
240037(33)-WAT-304	PRESSURE SEWER DETAIL PLAN - SHEET 4
240037(33)-WAT-401	TYPICAL PIPEWORK TRENCHING DETAIL
240037(33)-WAT-402	TYPICAL PROPERTY CONNECTION DETAILS
240037(33)-WAT-403	WASTE WATER COLLECTION TANK LEVEL DETAILS
240037(33)-WAT-404	THRUST BLOCK DETAILS

WORK AS CONSTRUCTED
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 COMPANY ADW Johnson Pty Ltd COMPANY
 NAME MATHEW DAVID LONDON NAME
 SIGNED *MatheW* DATE 28/04/2023 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: 11/07/2022

CONSTRUCTION ISSUE

REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY	SCALES
A	10.11.2021	INITIAL ISSUE	G.S.	C.B.	G.S.	C.B.	
C	02.03.2022	CLIENT COMMENTS	G.S.	C.B.	G.S.	C.B.	
D	04.03.2022	FOR APPROVAL	G.S.	C.B.	G.S.	C.B.	
E	15.06.2022	FOR APPROVAL	G.S.	C.B.	G.S.	C.B.	
0	11.07.2022	ISSUED FOR CONSTRUCTION	G.S.	C.B.	G.S.	C.B.	
1	06.10.2022	ISSUED FOR CONSTRUCTION	G.S.	N.C.	G.S.	C.B.	
2	05.05.2023	WORK AS CONSTRUCTED	I.B.	S.S.	G.S.	C.B.	



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

CLIENT



PROPERTY DESCRIPTION
 PROPOSED SUBDIVISION
 STAGE 33
 HUNTLEE
 SURVEYED
 Daly.Smith Pty Ltd
 DATUM
 GDA94 M.G.A. ZONE 56 A.H.D.

PROJECT	POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION		
PLAN TITLE	COVER SHEET, LOCALITY PLAN & DRAWING INDEX		
PROJECT No.	DISCIPLINE	NUMBER	REV.
240037(33)	WAC	001	2

100mm AT FULL SIZE
 This plan includes coloured information. If you have a black and white copy you do not have all of the information. This note is coloured RED.

240037(33)-WAC-001

100mm AT FULL SIZE
This plan includes coloured information. If you have a black and white copy you do not have all of the information. This note is coloured red.

PRESSURE SEWER NOTES:

- 1. ALL WORKS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE DESIGN DRAWINGS, ALTOGETHER SUPPLEMENTARY MANUAL TO WSA, PRESSURE SEWERAGE CODE OF AUSTRALIA - WSA 07-2007 VERSION 1.1 AND POLYETHYLENE PIPELINE CODE WSA 01-2004.
2. ALL EQUIPMENT, MATERIALS AND ACCESSORIES USED IN THIS CONTRACT SHALL BE NEW AND SHALL COMPLY WITH ALTOGETHER REQUIREMENTS.
3. ALL SERVICES SHOWN ARE INDICATIVE ONLY. A CURRENT SERVICES SEARCH AND SITE CHECK OF ALL EXISTING SERVICES WILL BE REQUIRED PRIOR TO COMMENCEMENT OF ANY WORKS.
4. PRESSURE SEWER MAINS SHALL BE BLACK POLYETHYLENE (PE100 PN16) WITH A CREAM STRIPE AS PER WSA 02-2007 AND ALTOGETHER SUPPLEMENTARY MANUAL TO WSA.
5. ALL POLYETHYLENE MAINS <= DN200 SHALL BE JOINED USING ELECTROFUSION JOINTING TECHNIQUES IN ACCORDANCE WITH MANUFACTURERS REQUIREMENTS.
6. MAIN TO BE LAID GENERALLY AS INDICATED IN SERVICE ALLOCATION DIAGRAMS.
7. MAINS CROSSING UNDER EXISTING DRIVEWAYS (SEALED, PAVED OR DECORATIVE) SHALL BE CONDUCTED BY UNDER BORING ONLY UNLESS PERMISSION IS GRANTED BY THE AFFECTED PROPERTY OWNER.
8. MAINS WITHIN 2.0m OF ELECTRICITY OR POWER POLES SHALL BE CONDUCTED BY BORING TECHNOLOGY (UNLESS AGREED TO BY THE ALTOGETHER REPRESENTATIVE).
9. ALL PIPE BEDDING MATERIAL SHALL COMPLY WITH WSA PRODUCT SPECIFICATION WSA-PS350 AND WSA-PS351.
10. ALL BENDS SHALL BE ELECTROFUSION OR BUTT WELD SWEEP BENDS. FABRICATED BENDS SHALL NOT BE USED IN LIEU. KNUCKLE ELBOWS ARE NOT PERMITTED.
11. MINIMUM BENDING RADIUS FOR PN16 PE100 (SDR11) SHALL BE 20 x DN.
12. ALL HOUSE SERVICE LATERALS SHALL BE DN40 (PE100 PN16).
13. FLUSHING PITS SHALL CONFORM WITH ALTOGETHER STANDARD DRAWINGS.
14. LOCALISED DEEPENING OF MAINS MAY BE REQUIRED TO FACILITATE AIR VALVE INSTALLATION.
15. DETECTABLE MARKING TAPE SHALL BE LAID ON TOP OF THE PIPE EMBEDMENT MATERIAL BEFORE BACKFILLING AND CONNECTED TO SURFACE FITTINGS.
16. ALL SURFACE FITTINGS LOCATED IN TRAFFICABLE AREAS (i.e. ROADWAYS, PATHS etc.) SHALL HAVE HEAVY DUTY SURROUNDS INSTALLED.
17. DURING CONSTRUCTION, ALL OPEN ENDS OF PIPE SHALL BE CAPPED OFF TO PREVENT ENTRY OF FOREIGN MATTER.
18. ALL VALVES SHALL BE RESILIENT SEATED SLUICE VALVES (ANTI-CLOCKWISE CLOSING), SHALL BE RESTRAINED IN ACCORDANCE WITH WAT-1207 AND SHALL COMPLY WITH ALTOGETHER STANDARD DRAWING PSS-1015-FS.
19. ALL MAINS SHALL BE TESTED IN ACCORDANCE WITH WSA 07-2007 VERSION 1.1.
20. FOR LOTS WITH TANKS IN THE REAR.
21. THE CONSTRUCTOR SHALL PROVIDE HUNTLEE WATER WITH MINIMUM OF 7 DAYS NOTICE IN WRITING OF INTENT TO CONNECT NEW MAINS TO EXISTING INFRASTRUCTURE.
22. UPON COMPLETION OF WORKS, ALL SURFACES MUST BE RESTORED AS CLOSE AS POSSIBLE, TO THE CONDITION HAT EXISTED PRIOR TO COMMENCEMENT OF WORKS.
23. PERMISSION OF ENTRY MUST BE OBTAINED BY THE CONTRACTOR FROM THE OWNER/OCCUPIER PRIOR TO COMMENCEMENT OF WORK IN PRIVATE PROPERTY.
24. BURIED FITTINGS ARE NOT TO BE BACKFILLED UNTIL W.A.C. DETAILS HAVE BEEN OBTAINED AND APPROVAL FOR BACKFILLING GIVEN BY THE ALTOGETHER REPRESENTATIVE.
25. THE MINIMUM NUMBER OF COMPACTION TESTS REQUIRED TO SATISFY THE PRESSURE SEWER CODE OF AUSTRALIA (CLAUSE 21.3.4) ARE:
26. BOUNDARY KITS (COMPLETE) SHALL BE NOV SUPPLIED (INV 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.

POTABLE WATER AND RECYCLED WATER NOTES:

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



CLEARANCES BETWEEN PIPELINES AND UNDERGROUND SERVICES

Table with columns: UTILITY (EXISTING OR PROPOSED SERVICE), MINIMUM HORIZONTAL CLEARANCE (mm) - NEW MAIN SIZE (<= DN200, >= DN200), MINIMUM VERTICAL CLEARANCE (mm)

- 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 (1500mm), 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.

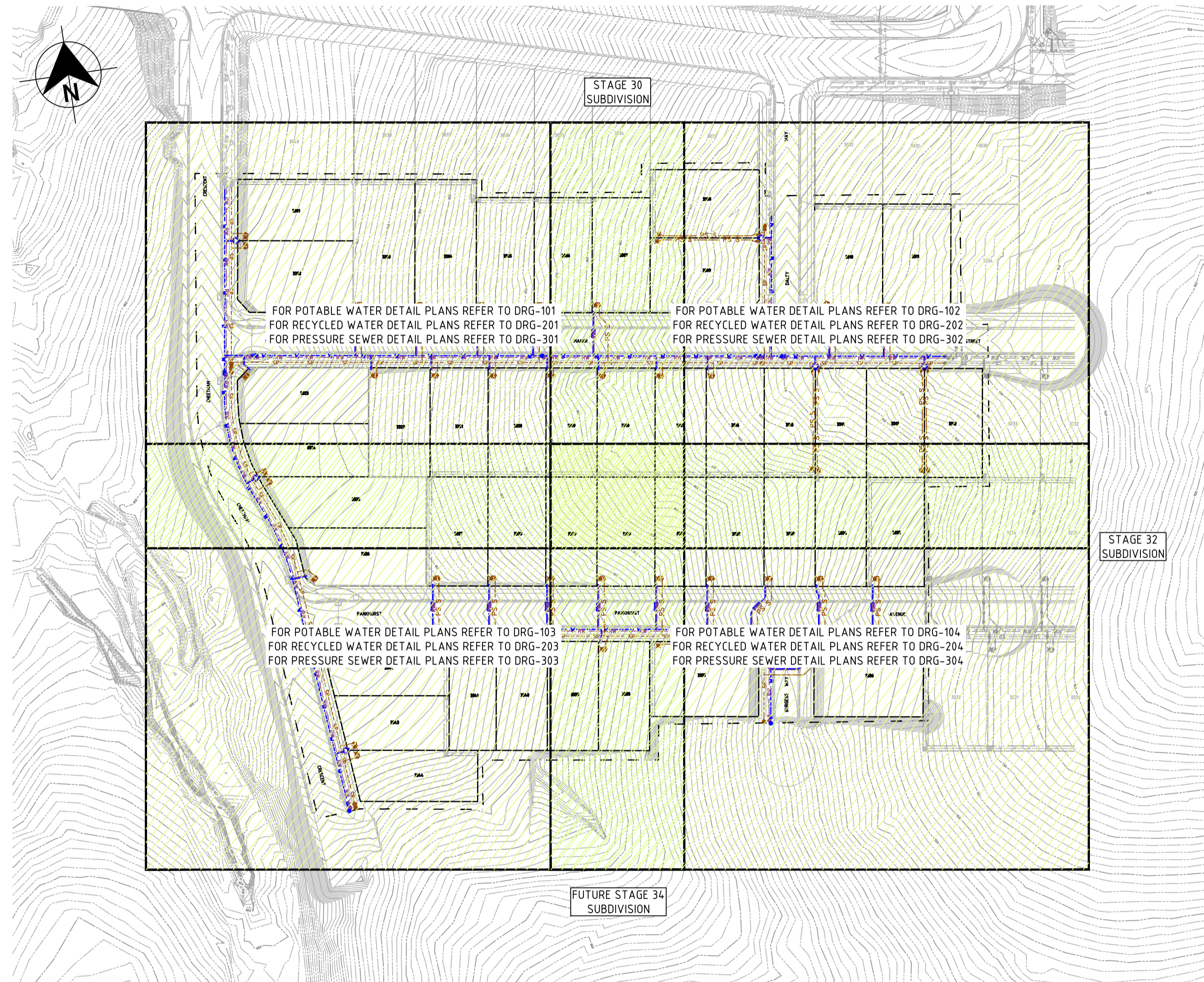
WORK AS CONSTRUCTED
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COMPANY ADW Johnson Pty Ltd
NAME MATHEW DAVID LONDON
SIGNED [Signature] DATE 28/04/2023
REGISTERED SURVEYOR

ORIGIN OF W.A.C. LEVELS
PM 20029
E: 345.612.942
N: 6.392.878.917
RL: 77.675m
Co-Ord System: MGA Ground
MGA Datum: GDA94
MGA Zone: 56

APPROVED FOR CONSTRUCTION BY ADW Johnson Pty Ltd
Date Approved: 11/07/2022

CONSTRUCTION ISSUE

Table with columns: REV., DATE, AMENDMENT, DRAWN, CHECK, DESIGN, VERIFY, SCALES, CLIENT, PROPERTY DESCRIPTION, PROJECT, PLAN TITLE, PROJECT No., DISCIPLINE, NUMBER, REV.



PLAN
SCALE 1:250

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COMPANY ADW Johnson Pty Ltd COMPANY
NAME MATHEW DAVID LONDON NAME
SIGNED *mat* DATE 28/04/2023 SIGNED DATE
REGISTERED SURVEYOR CONSTRUCTION MANAGER

APPROVED FOR CONSTRUCTION
BY ADW Johnson Pty Ltd
Date Approved: 11/07/2022

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
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D	04.03.2022	FOR APPROVAL	G.S.	C.B.	G.S.	C.B.	
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email: hunter@adwjohnson.com.au
www.adwjohnson.com.au
ABN 62 129 445 398

CLIENT
altogether.

PROPERTY DESCRIPTION
PROPOSED SUBDIVISION
STAGE 33
HUNTLEE

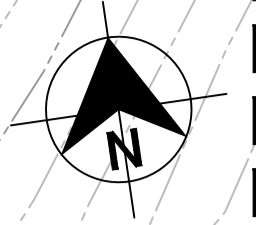
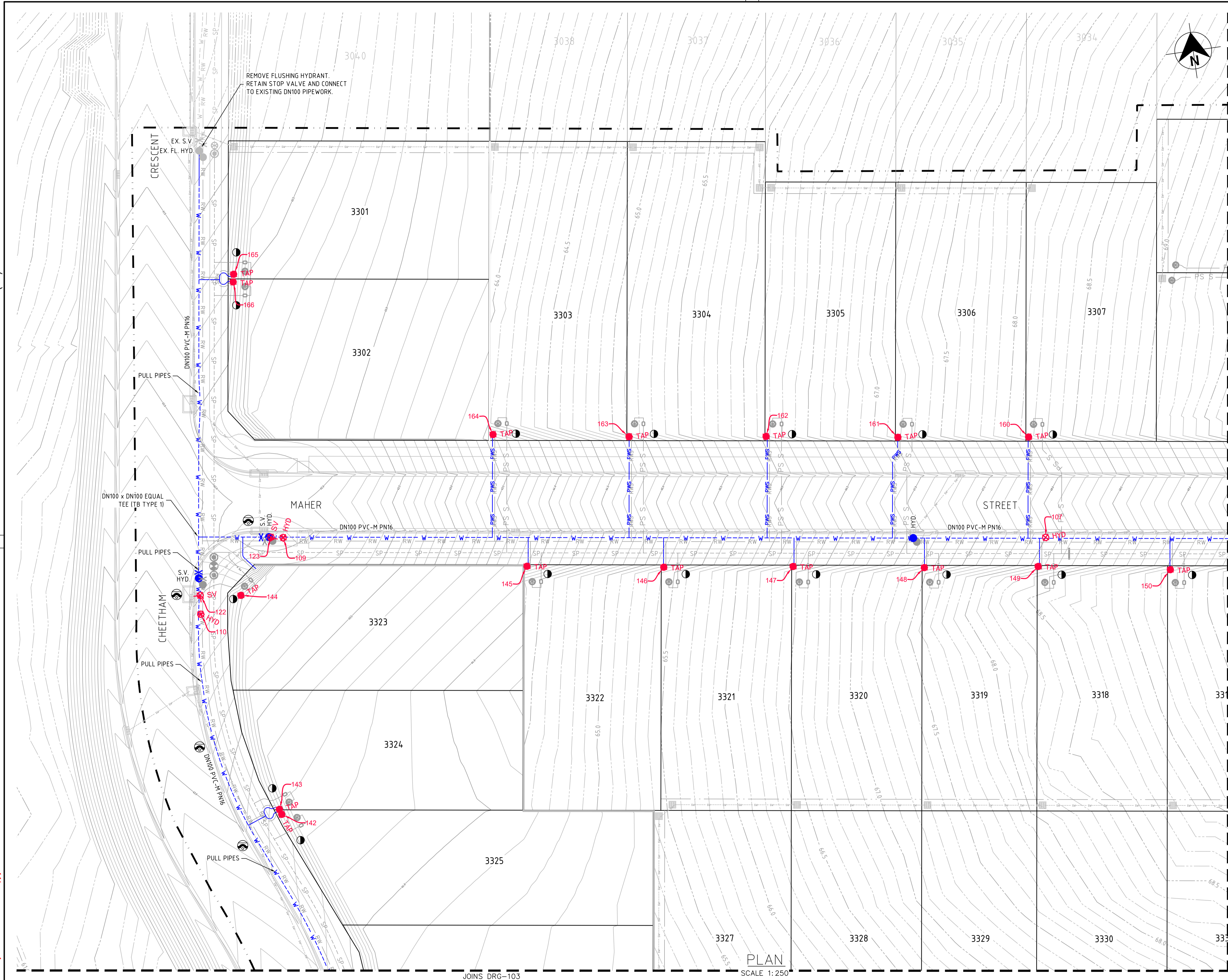
SURVEYED
Daly, Smith Pty Ltd

DATUM
GDA94 M.G.A. ZONE 56 A.H.D.

PROJECT	POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION		
PLAN TITLE	OVERALL SITE PLAN		
PROJECT No.	DISCIPLINE	NUMBER	REV.
240037(33)	WAC	003	2

240037(33)-WAC-104

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COMPANY ADW Johnson Pty Ltd COMPANY
 NAME MATHEW DAVID LONDON NAME
 SIGNED [Signature] DATE 28/04/2023 SIGNED [Signature] 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**
- 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
 - 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
 - 90° - HORIZONTAL BEND ANGLE IN MAIN
 - - - - - PROPOSED EASEMENT
 - - - - - SUBDIVISION STAGE BOUNDARY

- POTABLE WATER PROPERTY SERVICE CONNECTIONS**
 TOTAL 44 CONNECTIONS
- SINGLE SERVICES IN ACCORDANCE WITH WAT-1106-V
 - 14 x SHORT SIDE
 - 18 x LONG SIDE
 - SPLIT SERVICES IN ACCORDANCE WITH WAT-1107-V
 - 4 x SHORT SIDE
 - 2 x LONG SIDE

POTABLE WATER PIPE DATA		
PIPE SIZE (mm)	PIPE MATERIAL	TOTAL LENGTH (m)
DN100	PVC-M PN16	452
DN20 (LATERAL)	PE100 PN16	350

- NOTES:**
- LOCALLY PULL PIPES TO AVOID ANY POTENTIAL CLASH WITH STORMWATER PIT.
 - FOR RECYCLED WATER PIPEWORK DETAIL PLANS REFER TO DRGS-201 TO 204.
 - FOR PRESSURE SEWER PIPEWORK DETAIL PLANS REFER TO DRGS-301 TO 304.
 - FOR TYPICAL SERVICE CONNECTION DETAILS REFER TO DRG-402.

APPROVED FOR CONSTRUCTION
 BY ADW Johnson Pty Ltd
 Date Approved: 11/07/2022

CONSTRUCTION ISSUE

REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY	SCALES
A	10.11.2021	INITIAL ISSUE	G.S.	C.B.	G.S.	C.B.	SCALE: 1:250 (FULL)
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2	05.05.2023	WORK AS CONSTRUCTED	I.B.	S.S.	G.S.	C.B.	

ALL DIMENSIONS ARE IN METRES U.N.O. DO NOT SCALE

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

CLIENT

PROPERTY DESCRIPTION

PROPOSED SUBDIVISION
 STAGE 33
 HUNTLEE

SURVEYED
 Daly,Smith Pty Ltd

DATUM
 GDA94 M.G.A. ZONE 56 A.H.D.

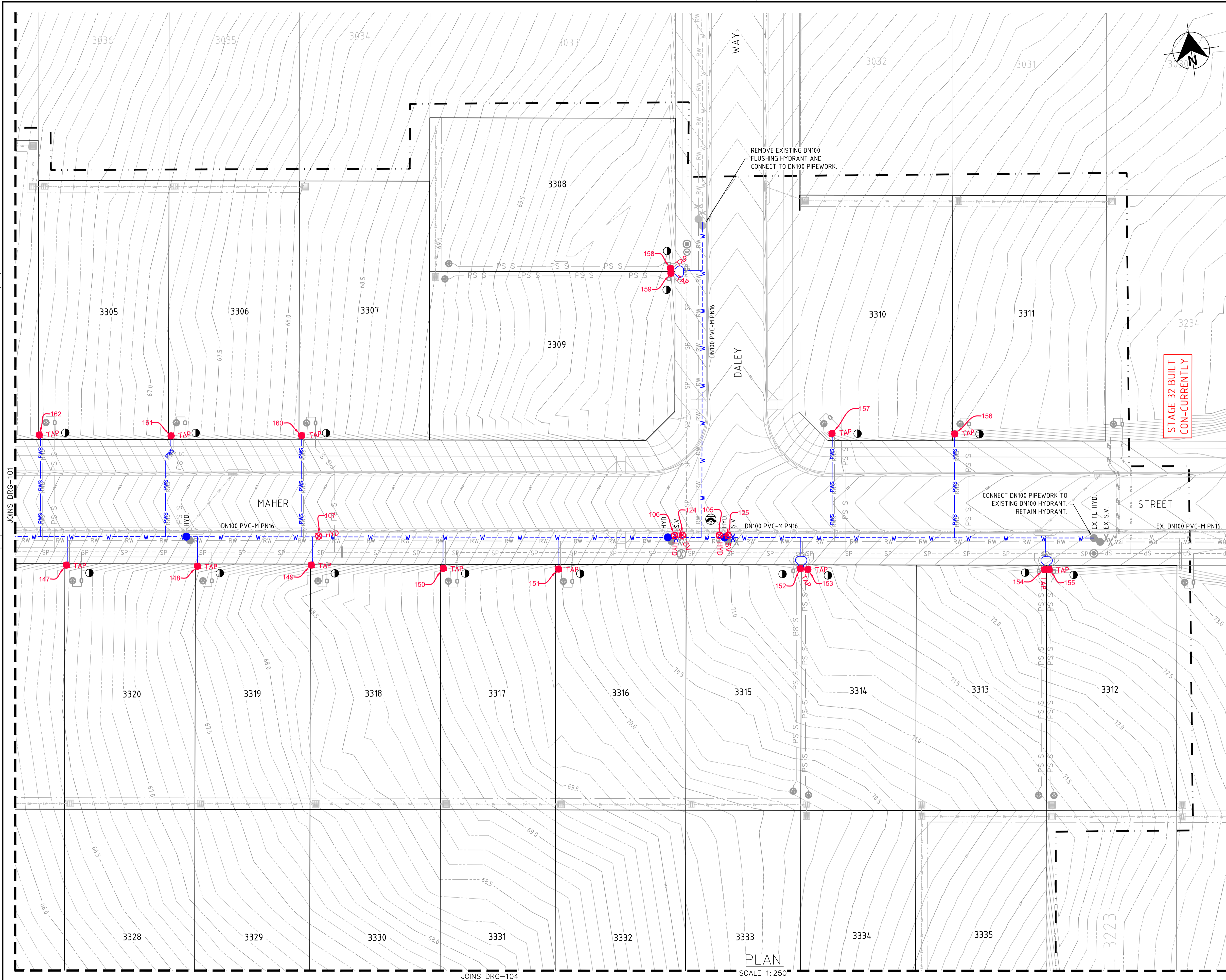
PROJECT
 POTABLE WATER, RECYCLED WATER AND
 PRESSURE SEWER RETICULATION

PLAN TITLE
 POTABLE WATER DETAIL PLAN
 - SHEET 1

PROJECT No.	DISCIPLINE	NUMBER	REV.
240037(33)	WAC	101	2

240037(33)-WAC-104

100mm AT FULL SIZE
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STAGE 32 BUILT CON-CURRENTLY

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COMPANY: ADW Johnson Pty Ltd
 NAME: MATHEW DAVID LONDON
 SIGNED: [Signature] DATE: 28/04/2023 REGISTERED SURVEYOR

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

ORIGIN OF W.A.C. LEVELS

PM: 20029
 E: 345 612.942
 N: 6 382 878.917
 RL: 77.675m

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

- LEGEND**
- W --- W --- PVC-M POTABLE WATER RETICULATION
 - PWS --- PWS --- POTABLE WATER PROPERTY SERVICE
 - RW --- RW --- PVC-M RECYCLED WATER RETICULATION
 - RWS --- RWS --- RECYCLED WATER PROPERTY SERVICE
 - SP --- SP --- PE PRESSURE SEWER RETICULATION
 - PS S --- PS S --- PE PRESSURE SEWER PROPERTY SERVICE
 - EX PW --- EX PW --- EXISTING POTABLE WATER RETICULATION
 - EX RW --- EX RW --- EXISTING RECYCLED WATER RETICULATION
 - EX PS --- EX PS --- EXISTING PRESSURE SEWER RETICULATION
 - SW --- SW --- STORMWATER PIPEWORK
 - SV --- 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-V
 - 90° --- HORIZONTAL BEND ANGLE IN MAIN
 - --- PROPOSED EASEMENT
 - - - - - SUBDIVISION STAGE BOUNDARY

- POTABLE WATER PROPERTY SERVICE CONNECTIONS**
 TOTAL 44 CONNECTIONS
- SINGLE SERVICES IN ACCORDANCE WITH WAT-1106-V
 - 14 x SHORT SIDE
 - 18 x LONG SIDE
 - SPLIT SERVICES IN ACCORDANCE WITH WAT-1107-V
 - 4 x SHORT SIDE
 - 2 x LONG SIDE

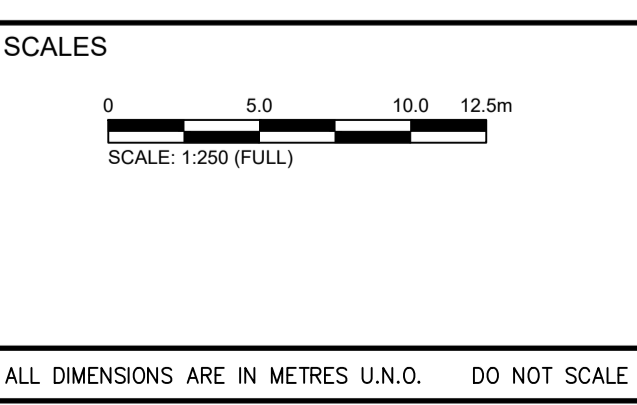
POTABLE WATER PIPE DATA		
PIPE SIZE (mm)	PIPE MATERIAL	TOTAL LENGTH (m)
DN100	PVC-M PN16	452
DN20 (LATERAL)	PE100 PN16	350

- 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 204.
 3. FOR PRESSURE SEWER PIPEWORK DETAIL PLANS REFER TO DRGS-301 TO 304.
 4. FOR TYPICAL SERVICE CONNECTION DETAILS REFER TO DRG-402.

APPROVED FOR CONSTRUCTION
 BY ADW Johnson Pty Ltd
 Date Approved: 11/07/2022

CONSTRUCTION ISSUE

REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY	SCALES
A	10.11.2021	INITIAL ISSUE	G.S.	C.B.	G.S.	C.B.	
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D	04.03.2022	FOR APPROVAL	G.S.	C.B.	G.S.	C.B.	
E	15.06.2022	FOR APPROVAL	G.S.	C.B.	G.S.	C.B.	
O	11.07.2022	ISSUED FOR CONSTRUCTION	G.S.	C.B.	G.S.	C.B.	
1	06.10.2022	ISSUED FOR CONSTRUCTION	G.S.	N.C.	G.S.	C.B.	
2	05.05.2023	WORK AS CONSTRUCTED	I.B.	S.S.	G.S.	C.B.	



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

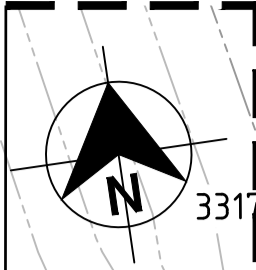
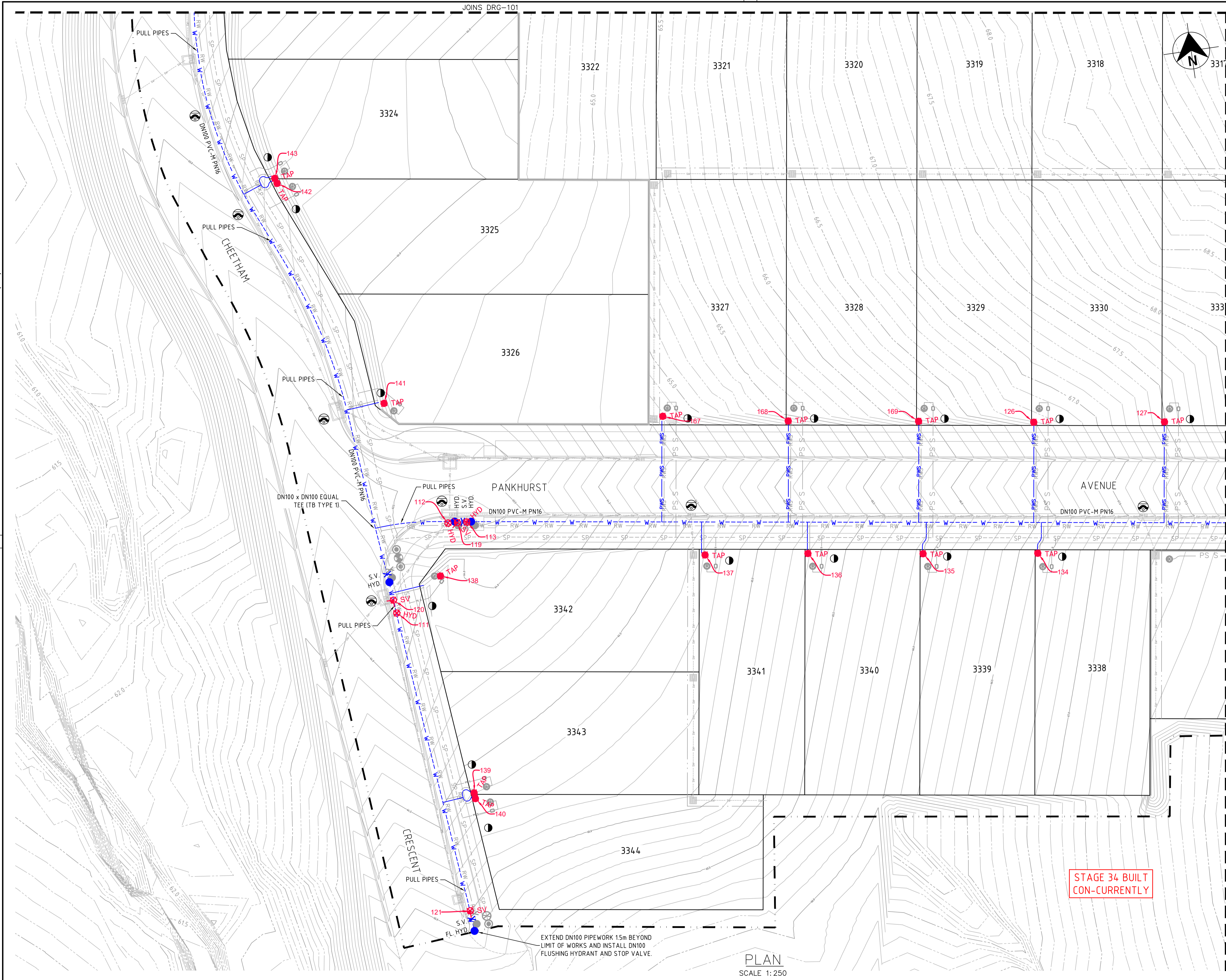
PROPOSED SUBDIVISION
 STAGE 33
 HUNTLEE

SURVEYED: Daly, Smith Pty Ltd
 DATUM: GDA94 M.G.A. ZONE 56 A.H.D.

PROJECT	POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION		
PLAN TITLE	POTABLE WATER DETAIL PLAN - SHEET 2		
PROJECT No.	DISCIPLINE	NUMBER	REV.
240037(33)	WAC	102	2

240037(33)-WAC-104

100mm AT FULL SIZE
This plan includes coloured information. If you have a black and white copy you do not have all of the information. This note is coloured RED.



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COMPANY ADW Johnson Pty Ltd COMPANY
 NAME MATHEW DAVID LONDON NAME
 SIGNED [Signature] DATE 28/04/2023 SIGNED [Signature] DATE
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ORIGIN OF W.A.C. LEVELS

PM 20029 Co-Ord System: MGA Ground
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 N: 6 382 878.917 MGA Zone: 56
 RL: 77.675m

- LEGEND**
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 - EX RW --- EX RW EXISTING RECYCLED WATER RETICULATION
 - EX PS --- EX PS EXISTING PRESSURE SEWER RETICULATION
 - SW --- SW STORMWATER PIPEWORK
 - SV [Symbol] STOP VALVE
 - HYD [Symbol] HYDRANT
 - FL HYD [Symbol] FLUSHING HYDRANT
 - [Symbol] PROPERTY SERVICE CONNECTION
 - [Symbol] LAY WATER MAIN OVER STORMWATER PIPE (300mm MIN. VERTICAL CLEARANCE) - REFER TO WAT-1255-V
 - [Symbol] HORIZONTAL BEND ANGLE IN MAIN
 - [Symbol] PROPOSED EASEMENT
 - [Symbol] SUBDIVISION STAGE BOUNDARY

- POTABLE WATER PROPERTY SERVICE CONNECTIONS**
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- SINGLE SERVICES IN ACCORDANCE WITH WAT-1106-V
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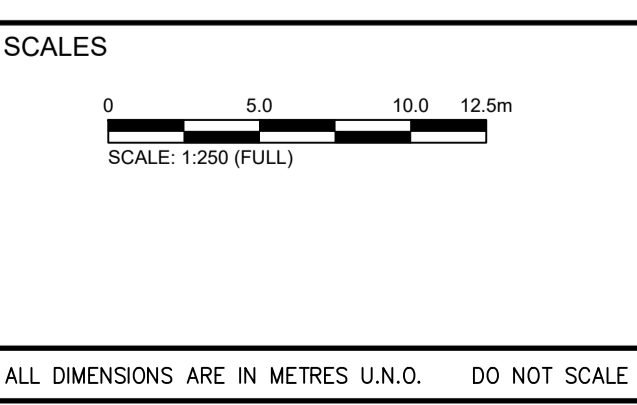
POTABLE WATER PIPE DATA		
PIPE SIZE (mm)	PIPE MATERIAL	TOTAL LENGTH (m)
DN100	PVC-M PN16	452
DN20 (LATERAL)	PE100 PN16	350

- NOTES:**
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 2. FOR RECYCLED WATER PIPEWORK DETAIL PLANS REFER TO DRGS-201 TO 204.
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 4. FOR TYPICAL SERVICE CONNECTION DETAILS REFER TO DRG-402.

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 BY ADW Johnson Pty Ltd
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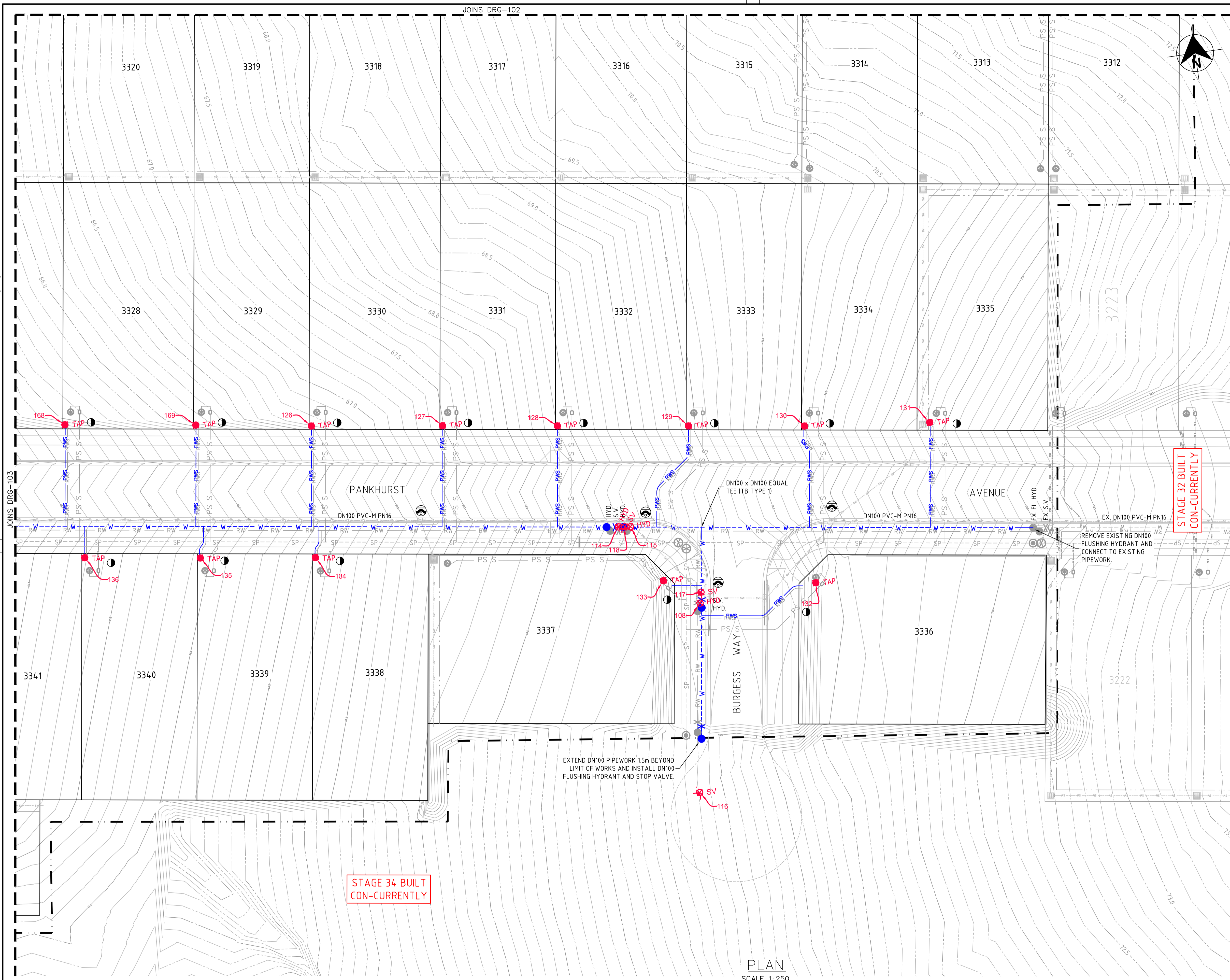
CLIENT

PROPERTY DESCRIPTION
 PROPOSED SUBDIVISION
 STAGE 33
 HUNTLEE

PROJECT		POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION	
PLAN TITLE			
POTABLE WATER DETAIL PLAN - SHEET 3			
PROJECT No.	DISCIPLINE	NUMBER	REV.
240037(33)	WAC	103	2

240037(33)-WAC-104

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COMPANY ADW Johnson Pty Ltd COMPANY
 NAME MATHEW DAVID LONDON NAME
 SIGNED [Signature] DATE 28/04/2023 SIGNED [Signature] DATE
 REGISTERED SURVEYOR CONSTRUCTION MANAGER

ORIGIN OF W.A.C. LEVELS

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 - [Symbol] PROPERTY SERVICE CONNECTION
 - [Symbol] LAY WATER MAIN OVER STORMWATER PIPE (300mm MIN. VERTICAL CLEARANCE) - REFER TO WAT-1255-H
 - [Symbol] HORIZONTAL BEND ANGLE IN MAIN
 - [Symbol] PROPOSED EASEMENT
 - [Symbol] SUBDIVISION STAGE BOUNDARY

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- SINGLE SERVICES IN ACCORDANCE WITH WAT-1106-V
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 - 18 x LONG SIDE
 - SPLIT SERVICES IN ACCORDANCE WITH WAT-1107-V
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 - 2 x LONG SIDE

POTABLE WATER PIPE DATA		
PIPE SIZE (mm)	PIPE MATERIAL	TOTAL LENGTH (m)
DN100	PVC-M PN16	452
DN20 (LATERAL)	PE100 PN16	350

- NOTES:**
- LOCALLY PULL PIPES TO AVOID ANY POTENTIAL CLASH WITH STORMWATER PIPE.
 - FOR RECYCLED WATER PIPEWORK DETAIL PLANS REFER TO DRGS-201 TO 204.
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APPROVED FOR CONSTRUCTION
 BY ADW Johnson Pty Ltd
 Date Approved: 11/07/2022

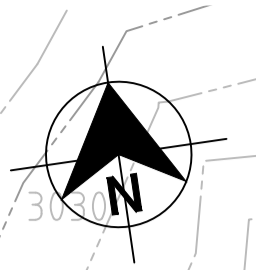
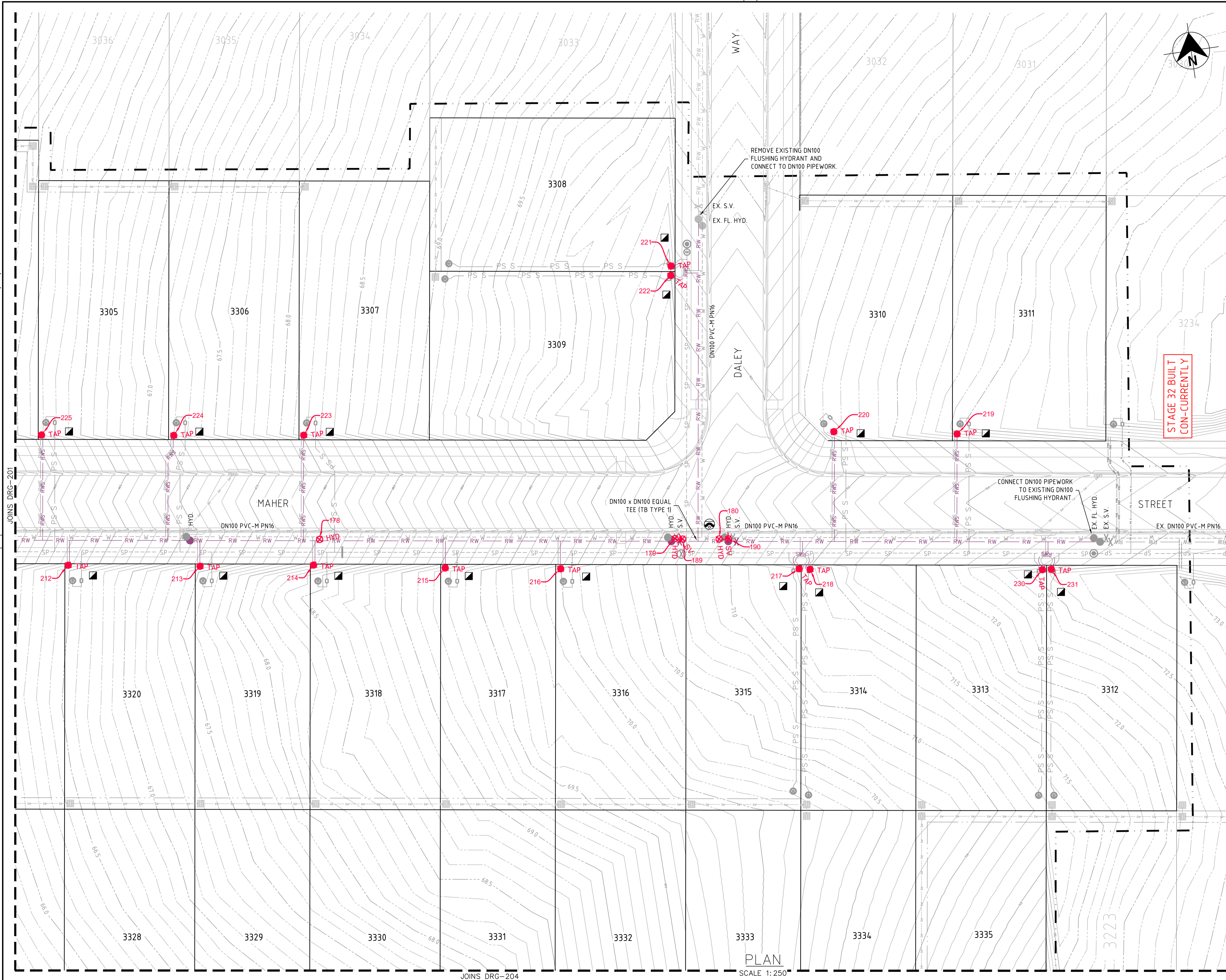
CONSTRUCTION ISSUE

PLAN
 SCALE 1:250

<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>10.11.2021</td> <td>INITIAL ISSUE</td> <td>G.S.</td> <td>C.B.</td> <td>G.S.</td> <td>C.B.</td> <td rowspan="2">0 5.0 10.0 12.5m SCALE: 1:250 (FULL)</td> </tr> <tr> <td>C</td> <td>02.03.2022</td> <td>CLIENT COMMENTS</td> <td>G.S.</td> <td>C.B.</td> <td>G.S.</td> <td>C.B.</td> </tr> <tr> <td>D</td> <td>04.03.2022</td> <td>FOR APPROVAL</td> <td>G.S.</td> <td>C.B.</td> <td>G.S.</td> <td>C.B.</td> <td rowspan="2"> </td> </tr> <tr> <td>E</td> <td>15.06.2022</td> <td>FOR APPROVAL</td> <td>G.S.</td> <td>C.B.</td> <td>G.S.</td> <td>C.B.</td> </tr> <tr> <td>O</td> <td>11.07.2022</td> <td>ISSUED FOR CONSTRUCTION</td> <td>G.S.</td> <td>C.B.</td> <td>G.S.</td> <td>C.B.</td> <td rowspan="2"> </td> </tr> <tr> <td>1</td> <td>06.10.2022</td> <td>ISSUED FOR CONSTRUCTION</td> <td>G.S.</td> <td>N.C.</td> <td>G.S.</td> <td>C.B.</td> </tr> <tr> <td>2</td> <td>05.05.2023</td> <td>WORK AS CONSTRUCTED</td> <td>I.B.</td> <td>S.S.</td> <td>G.S.</td> <td>C.B.</td> <td> </td> </tr> </tbody> </table>	REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY	SCALES	A	10.11.2021	INITIAL ISSUE	G.S.	C.B.	G.S.	C.B.	0 5.0 10.0 12.5m SCALE: 1:250 (FULL)	C	02.03.2022	CLIENT COMMENTS	G.S.	C.B.	G.S.	C.B.	D	04.03.2022	FOR APPROVAL	G.S.	C.B.	G.S.	C.B.		E	15.06.2022	FOR APPROVAL	G.S.	C.B.	G.S.	C.B.	O	11.07.2022	ISSUED FOR CONSTRUCTION	G.S.	C.B.	G.S.	C.B.		1	06.10.2022	ISSUED FOR CONSTRUCTION	G.S.	N.C.	G.S.	C.B.	2	05.05.2023	WORK AS CONSTRUCTED	I.B.	S.S.	G.S.	C.B.		<p>DESIGN FILE N:\JOBNUMBER\Design\12D\</p> <p>Plotted By: glenns Plot Date: 05/05/23 - 10:24 Cad File: N:\240072\DWG\water & sewer\stage 33-wac\240037(33)-WAC-104.dwg</p>	<p>ALL DIMENSIONS ARE IN METRES U.N.O. 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@adwjohson.com.au www.adwjohson.com.au ABN 62 129 445 398</p>	<p>CLIENT</p> <p></p>	<p>PROPERTY DESCRIPTION</p> <p>PROPOSED SUBDIVISION STAGE 33 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 4</p>	<table border="1"> <tr> <th>PROJECT No.</th> <th>DISCIPLINE</th> <th>NUMBER</th> <th>REV.</th> </tr> <tr> <td>240037(33)</td> <td>WAC</td> <td>104</td> <td>2</td> </tr> </table>	PROJECT No.	DISCIPLINE	NUMBER	REV.	240037(33)	WAC	104	2
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240037(33)	WAC	104	2																																																																										

240037(33)-WAC-204

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RECYCLED WATER PIPE DATA		
PIPE SIZE (mm)	PIPE MATERIAL	TOTAL LENGTH (m)
DN100	PVC-M PN16	672
DN25 (LATERAL)	PE100 PN16	374

- NOTES:**
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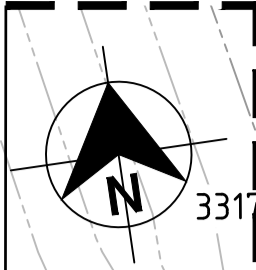
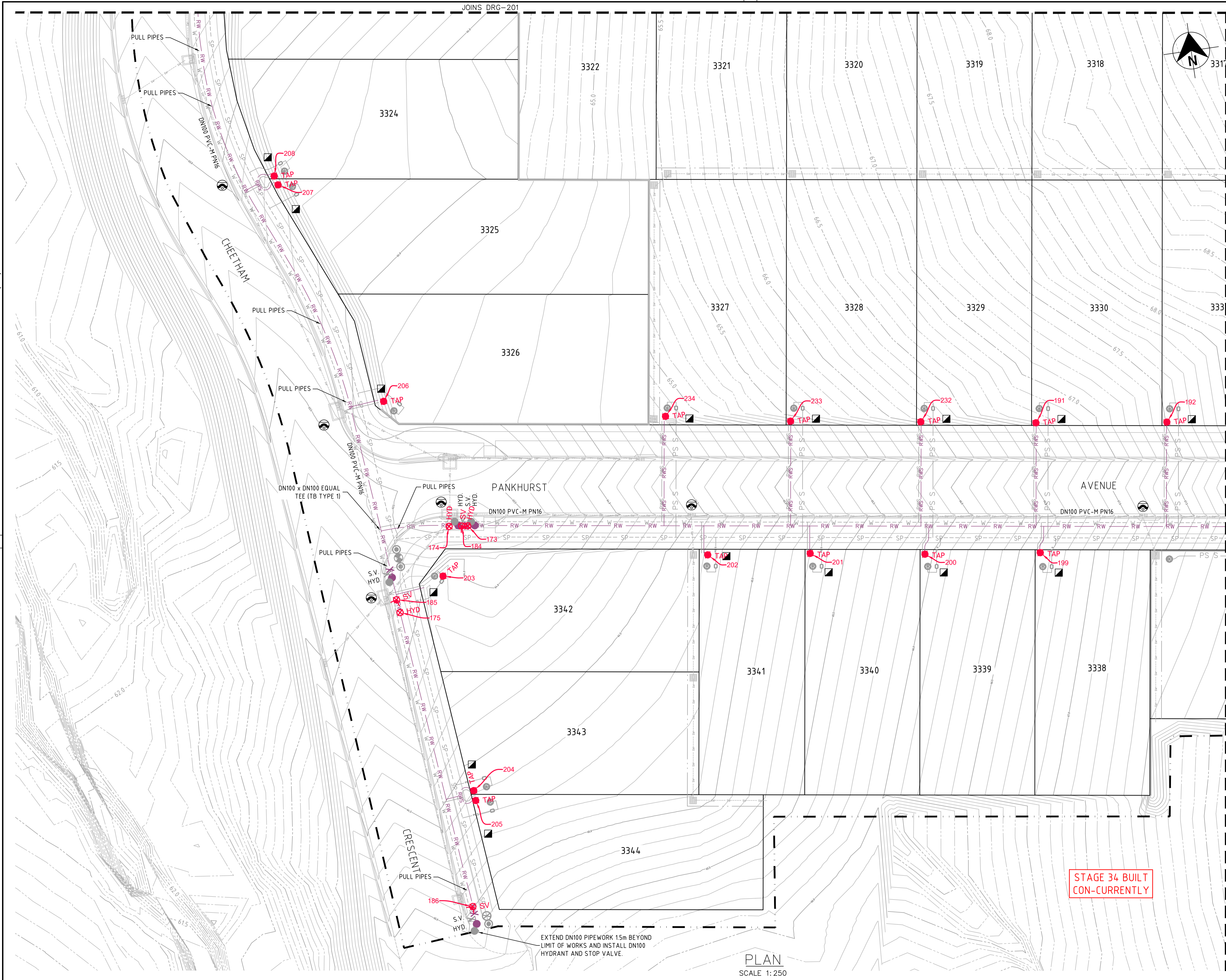
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CONSTRUCTION ISSUE

<table border="1"> <thead> <tr> <th>REV.</th> <th>DATE</th> <th>AMENDMENT</th> <th>DRAWN</th> <th>CHECK</th> <th>DESIGN</th> <th>VERIFY</th> <th>SCALES</th> </tr> </thead> <tbody> <tr> <td>A</td> <td>10.11.2021</td> <td>INITIAL ISSUE</td> <td>G.S.</td> <td>C.B.</td> <td>G.S.</td> <td>C.B.</td> <td rowspan="2">SCALE: 1:250 (FULL)</td> </tr> <tr> <td>C</td> <td>02.03.2022</td> <td>CLIENT COMMENTS</td> <td>G.S.</td> <td>C.B.</td> <td>G.S.</td> <td>C.B.</td> </tr> <tr> <td>D</td> <td>04.03.2022</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>E</td> <td>15.06.2022</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>O</td> <td>11.07.2022</td> <td>ISSUED 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>06.10.2022</td> <td>ISSUED FOR CONSTRUCTION</td> <td>G.S.</td> <td>N.C.</td> <td>G.S.</td> <td>C.B.</td> <td></td> </tr> <tr> <td>2</td> <td>05.05.2023</td> <td>WORK AS CONSTRUCTED</td> <td>I.B.</td> <td>S.S.</td> <td>G.S.</td> <td>C.B.</td> <td></td> </tr> </tbody> </table>	REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY	SCALES	A	10.11.2021	INITIAL ISSUE	G.S.	C.B.	G.S.	C.B.	SCALE: 1:250 (FULL)	C	02.03.2022	CLIENT COMMENTS	G.S.	C.B.	G.S.	C.B.	D	04.03.2022	FOR APPROVAL	G.S.	C.B.	G.S.	C.B.		E	15.06.2022	FOR APPROVAL	G.S.	C.B.	G.S.	C.B.		O	11.07.2022	ISSUED FOR CONSTRUCTION	G.S.	C.B.	G.S.	C.B.		1	06.10.2022	ISSUED FOR CONSTRUCTION	G.S.	N.C.	G.S.	C.B.		2	05.05.2023	WORK AS CONSTRUCTED	I.B.	S.S.	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@adwjohnson.com.au www.adwjohnson.com.au ABN 62 129 445 398</p>	<p>CLIENT </p>	<p>PROPERTY DESCRIPTION PROPOSED SUBDIVISION STAGE 33 HUNTLEE</p>	<p>PROJECT POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION</p>
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<p>DESIGN FILE N: \JOBNUMBER\Design\120\</p>		<p>ALL DIMENSIONS ARE IN METRES U.N.O. DO NOT SCALE</p>		<p>SURVEYED Daly, Smith Pty Ltd</p>		<p>DATUM GDA94 M.G.A. ZONE 56 A.H.D.</p>		<p>PROJECT No. 240037(33) -</p>		<p>DISCIPLINE WAC</p>		<p>NUMBER 202</p>		<p>REV. 2</p>																																																					

240037(33)-WAC-204

100mm AT FULL SIZE
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WORK AS CONSTRUCTED
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COMPANY ADW Johnson Pty Ltd COMPANY
 NAME MATHEW DAVID LONDON NAME
 SIGNED [Signature] DATE 28/04/2023 SIGNED [Signature] 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 RW RW PVC-M RECYCLED WATER RETICULATION
 - RWS RWS RWS RECYCLED WATER PROPERTY SERVICE
 - W W W PVC-M POTABLE WATER RETICULATION
 - PWS PWS PWS POTABLE WATER PROPERTY SERVICE
 - SP SP SP PE PRESSURE SEWER RETICULATION
 - 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 SW STORMWATER PIPEWORK
 - SV SV SV STOP VALVE
 - HYD HYD HYDRANT
 - FL HYD FL HYD FLUSHING HYDRANT
 - PS S PS S PROPERTY SERVICE CONNECTION
 - LAY WATER MAIN OVER STORMWATER PIPE (300mm MIN. VERTICAL CLEARANCE) - REFER TO WAT-1255-H
 - 90° HORIZONTAL BEND ANGLE IN MAIN
 - PROPOSED EASEMENT
 - SUBDIVISION STAGE BOUNDARY

- RECYCLED WATER PROPERTY SERVICE CONNECTIONS**
- TOTAL 44 CONNECTIONS
- SINGLE SERVICES IN ACCORDANCE WITH WAT-1106-V
 - 14 x SHORT SIDE
 - 18 x LONG SIDE
 - SPLIT SERVICES IN ACCORDANCE WITH WAT-1107-V
 - 4 x SHORT SIDE
 - 2 x LONG SIDE

RECYCLED WATER PIPE DATA		
PIPE SIZE (mm)	PIPE MATERIAL	TOTAL LENGTH (m)
DN100	PVC-M PN16	672
DN25 (LATERAL)	PE100 PN16	374

- NOTES:**
- LOCALLY PULL PIPES TO AVOID ANY POTENTIAL CLASH WITH STORMWATER PIT.
 - FOR POTABLE WATER PIPEWORK DETAIL PLANS REFER TO DRGS-101 TO 104.
 - FOR PRESSURE SEWER PIPEWORK DETAIL PLANS REFER TO DRGS-301 TO 304.
 - FOR TYPICAL SERVICE CONNECTION DETAILS REFER TO DRG-402.

STAGE 34 BUILT CON-CURRENTLY

APPROVED FOR CONSTRUCTION
 BY ADW Johnson Pty Ltd
 Date Approved: 11/07/2022

CONSTRUCTION ISSUE

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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
 PROPOSED SUBDIVISION
 STAGE 33
 HUNTLEE

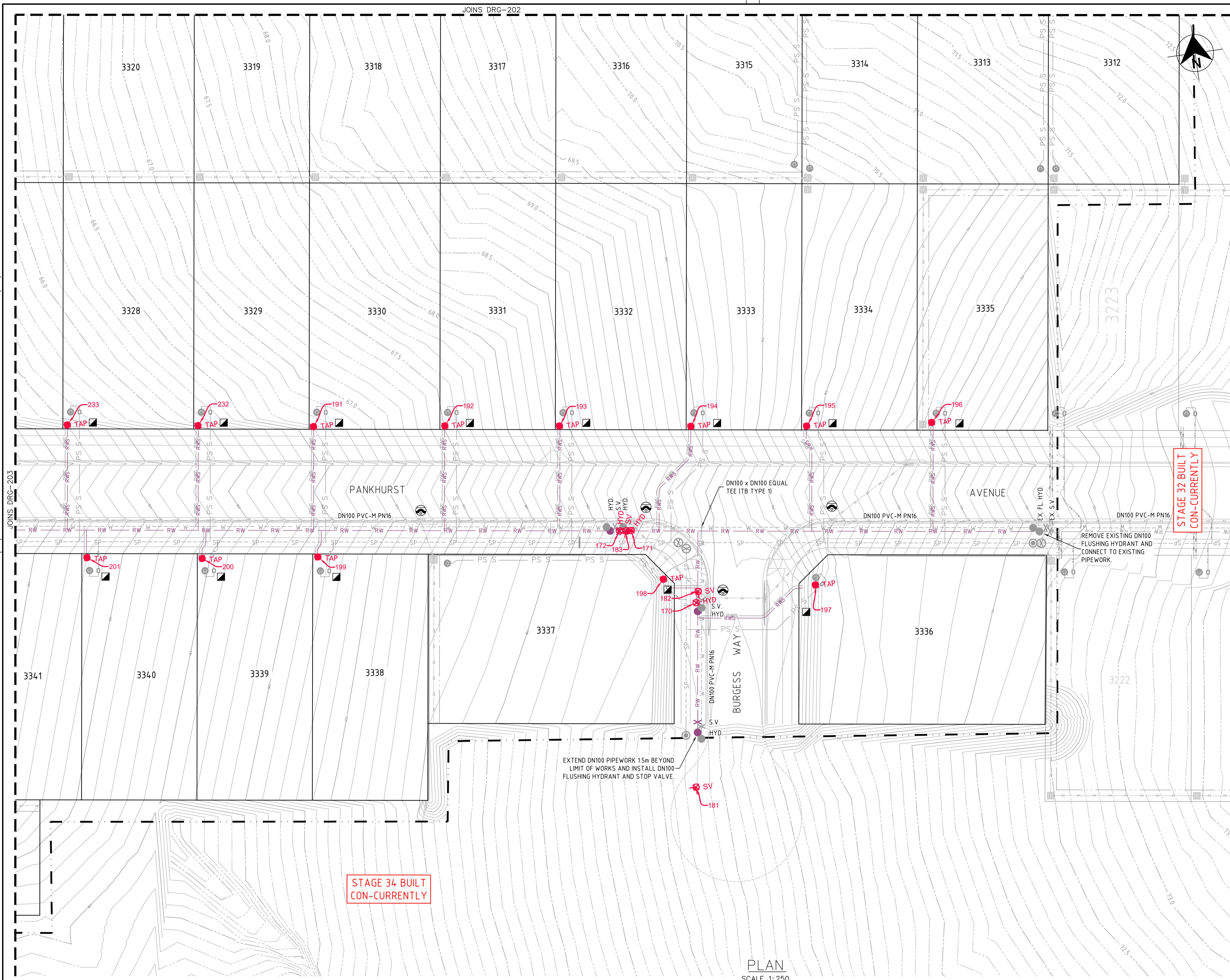
PROPERTY DESCRIPTION
 SURVEYED
 Daly, Smith Pty Ltd

DATUM
 GDA94 M.G.A. ZONE 56 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(33)	WAC	203	2

240037(33)-WAC-204

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 SIGNED [Signature] DATE 28/04/2023 SIGNED DATE
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 - 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**
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PIPE SIZE (mm)	PIPE MATERIAL	TOTAL LENGTH (m)
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DN25 (LATERAL)	PE100 PN16	374

- NOTES:**
- LOCALLY PULL PIPES TO AVOID ANY POTENTIAL CLASH WITH STORMWATER PIT.
 - FOR POTABLE WATER PIPEWORK DETAIL PLANS REFER TO DRGS-101 TO 104.
 - FOR PRESSURE SEWER PIPEWORK DETAIL PLANS REFER TO DRGS-301 TO 304.
 - FOR TYPICAL SERVICE CONNECTION DETAILS REFER TO DRG-402.

APPROVED FOR CONSTRUCTION
 BY ADW Johnson Pty Ltd
 Date Approved: 11/07/2022

CONSTRUCTION ISSUE

PLAN
 SCALE 1:250

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240037(33)-WAC-304

100mm AT FULL SIZE
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NOTE:
ISOLATION VALVE INSTALLED WITHIN
STAGE 30 ON CORNER OF RIGBY STREET
AND CHEETHAM BEND TO BE CLOSED ON
COMMISSIONING OF STAGE 32 WORKS.

REMOVE EXISTING DN50 FLUSHING
POINT. RETAIN ISOLATION VALVE
AND CONNECT NEW DN50 PIPEWORK.

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COMPANY ADW Johnson Pty Ltd
NAME MATHEW DAVID LONDON
SIGNED *MatheW* DATE 28/04/2023
REGISTERED SURVEYOR

COMPANY NAME
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

- LEGEND**
- SP --- SP PE PRESSURE SEWER RETICULATION
 - PS S --- PS S PE PRESSURE SEWER PROPERTY SERVICE
 - EX PW --- EX PW 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
 - I.V. ⊕ ISOLATION VALVE
 - I.V. (NC) ⊕ ISOLATION VALVE - NORMALLY CLOSED
 - F.P. ⊙ FLUSHING POINT
 - ⊕ WASTEWATER COLLECTION TANK AND BOUNDARY KIT
 - ➔ PRESSURE SEWER FLOW DIRECTION (SEE NOTE 7)
 - ➔ 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 44 CONNECTIONS
• SINGLE SERVICES
- 22 x SHORT SIDE
- 22 x LONG SIDE

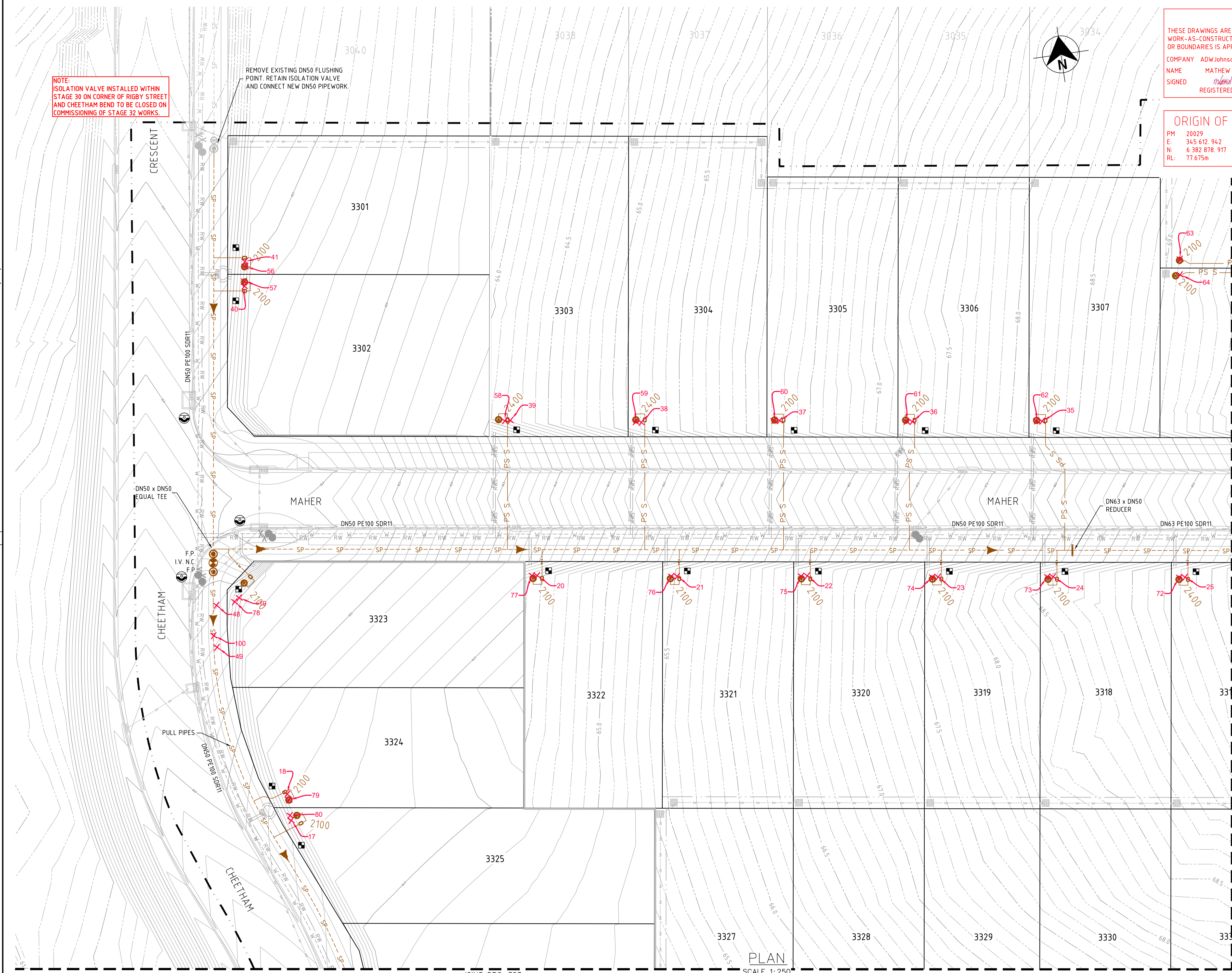
PRESSURE SEWER PIPE DATA

PIPE SIZE (mm)	PIPE MATERIAL	TOTAL LENGTH (m)
DN63	PE100 SDR11	157
DN50	PE100 SDR11	519
DN4.0 (LATERAL)	PE100 SDR11	653

- NOTES:**
- FOR POTABLE WATER PIPEWORK DETAIL PLANS REFER TO DRGS-101 TO 104.
 - FOR RECYCLED WATER PIPEWORK DETAIL PLANS REFER TO DRGS-201 TO 204.
 - FOR TYPICAL SERVICE CONNECTION DETAILS REFER TO DRG-402.
 - FOR TYPICAL FLOW MONITORING POINT TYPICAL DETAILS REFER TO STANDARD DRAWING PSS-107-FS.
 - FOR FLOW MONITORING POINT TYPICAL DETAILS REFER TO STANDARD DRAWING PSS-115-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: 11/07/2022

CONSTRUCTION ISSUE



PLAN
SCALE 1:250

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SCALE 1:250 (FULL)

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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
altogether.

PROPERTY DESCRIPTION
PROPOSED SUBDIVISION
STAGE 33
HUNTLEE

SURVEYED
Daly,Smith Pty Ltd

DATUM
GDA94 M.G.A. ZONE 56 A.H.D.

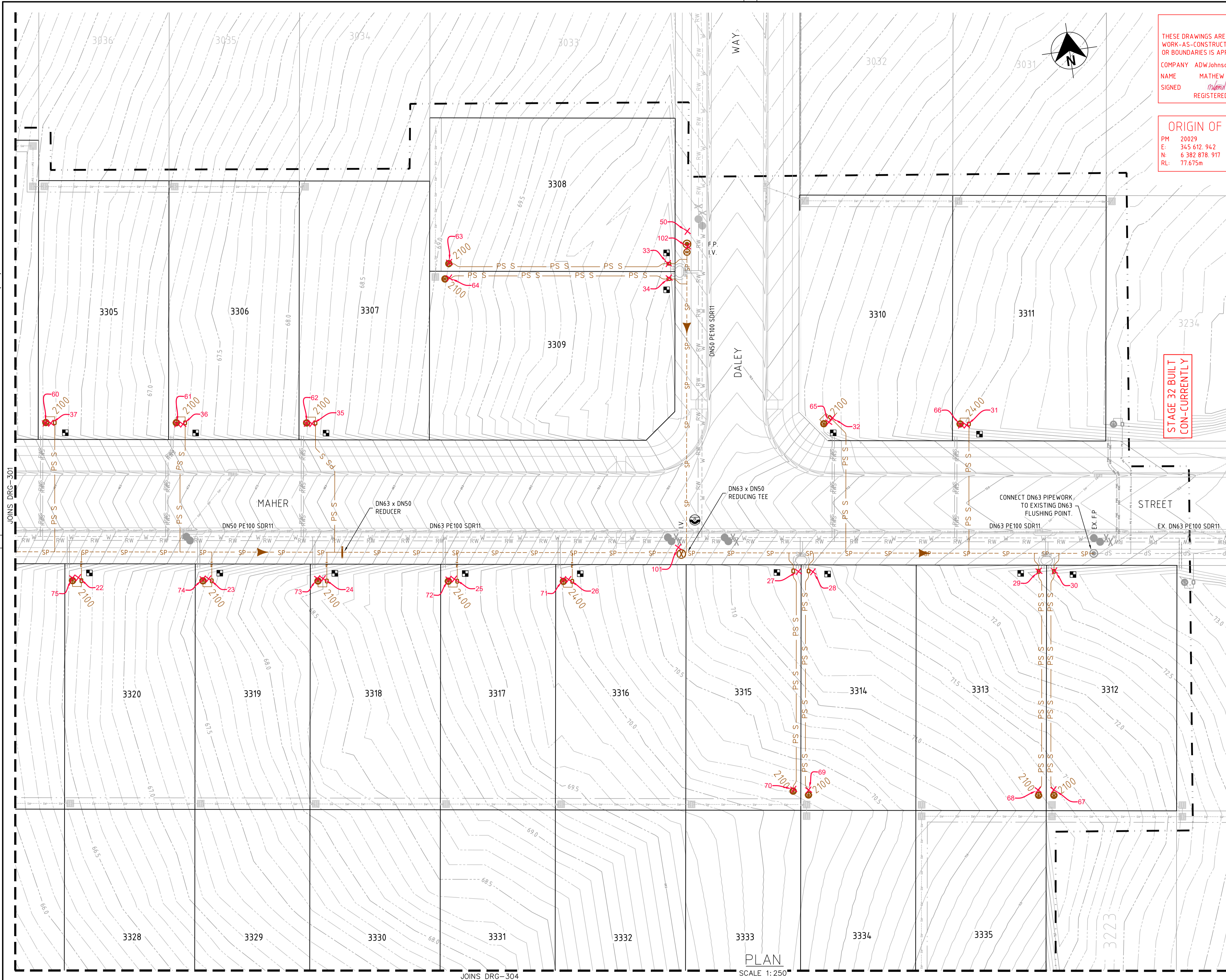
PROJECT
POTABLE WATER, RECYCLED WATER AND
PRESSURE SEWER RETICULATION

PLAN TITLE
PRESSURE SEWER DETAIL
PLAN - SHEET 1

PROJECT No. 240037(33) - DISCIPLINE WAC - NUMBER 301 - REV. 2

240037(33)-WAC-304

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ORIGIN OF W.A.C. LEVELS

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 - RW RW PVC-M RECYCLED WATER RETICULATION
 - RWS RWS RECYCLED WATER PROPERTY SERVICE
 - EX PS EX PRESSURE SEWER RETICULATION
 - EX PW EX POTABLE WATER RETICULATION
 - EX RW EX RECYCLED WATER RETICULATION
 - SW STORMWATER PIPEWORK
 - I.V. ISOLATION VALVE
 - I.V. (NC) ISOLATION VALVE - NORMALLY CLOSED
 - F.P. FLUSHING POINT
 - WASTEWATER COLLECTION TANK AND BOUNDARY KIT
 - PRESSURE SEWER FLOW DIRECTION (SEE NOTE 7)
 - 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 44 CONNECTIONS
 • SINGLE SERVICES
 -22 x SHORT SIDE
 -22 x LONG SIDE

PRESSURE SEWER PIPE DATA		
PIPE SIZE (mm)	PIPE MATERIAL	TOTAL LENGTH (m)
DN63	PE100 SDR11	157
DN50	PE100 SDR11	519
DN40 (LATERAL)	PE100 SDR11	653

- NOTES:**
- FOR POTABLE WATER PIPEWORK DETAIL PLANS REFER TO DRGS-101 TO 104.
 - FOR RECYCLED WATER PIPEWORK DETAIL PLANS REFER TO DRGS-201 TO 204.
 - FOR TYPICAL SERVICE CONNECTION DETAILS REFER TO DRG-402.
 - FOR FLUSHING POINT TYPICAL DETAILS REFER TO STANDARD DRAWING PSS-107-FS.
 - FOR FLOW MONITORING POINT TYPICAL DETAILS REFER TO STANDARD DRAWING PSS-115-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: 11/07/2022

CONSTRUCTION ISSUE

REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY	SCALES
A	10.11.2021	INITIAL ISSUE	G.S.	C.B.	G.S.	C.B.	SCALE: 1:250 (FULL)
C	02.03.2022	CLIENT COMMENTS	G.S.	C.B.	G.S.	C.B.	
D	04.03.2022	FOR APPROVAL	G.S.	C.B.	G.S.	C.B.	
E	15.06.2022	FOR APPROVAL	G.S.	C.B.	G.S.	C.B.	
O	11.07.2022	ISSUED FOR CONSTRUCTION	G.S.	C.B.	G.S.	C.B.	
1	06.10.2022	ISSUED FOR CONSTRUCTION	G.S.	N.C.	G.S.	C.B.	
2	05.05.2023	WORK AS CONSTRUCTED	I.B.	S.S.	G.S.	C.B.	

ALL DIMENSIONS ARE IN METRES U.N.O. 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 33
 HUNTLEE

SURVEYED
 Daly, Smith Pty Ltd

DATUM
 GDA94 M.G.A. ZONE 56 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(33)	WAC	302	2

240037(33)-WAC-304

100mm AT FULL SIZE
This plan includes coloured information. If you have a black and white copy you do not have all of the information. This note is coloured RED.

JOINS DRG-301

WORK AS CONSTRUCTED

THESE DRAWINGS ARE AN ACCURATE REPRESENTATION AS AT 30/03/2023 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	<i>MatheW</i>	DATE	28/04/2023
	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		

LEGEND

- SP - SP PE PRESSURE SEWER RETICULATION
- PS S - PS S PE PRESSURE SEWER PROPERTY SERVICE
- EX PW - EX PW 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
- I.V. ISOLATION VALVE
- I.V. (NC) ISOLATION VALVE - NORMALLY CLOSED
- F.P. FLUSHING POINT
- WASTEWATER COLLECTION TANK AND BOUNDARY KIT
- PRESSURE SEWER FLOW DIRECTION (SEE NOTE 7)
- 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

PROPERTY SERVICE CONNECTIONS
 TOTAL 44 CONNECTIONS
 • SINGLE SERVICES
 - 22 x SHORT SIDE
 - 22 x LONG SIDE

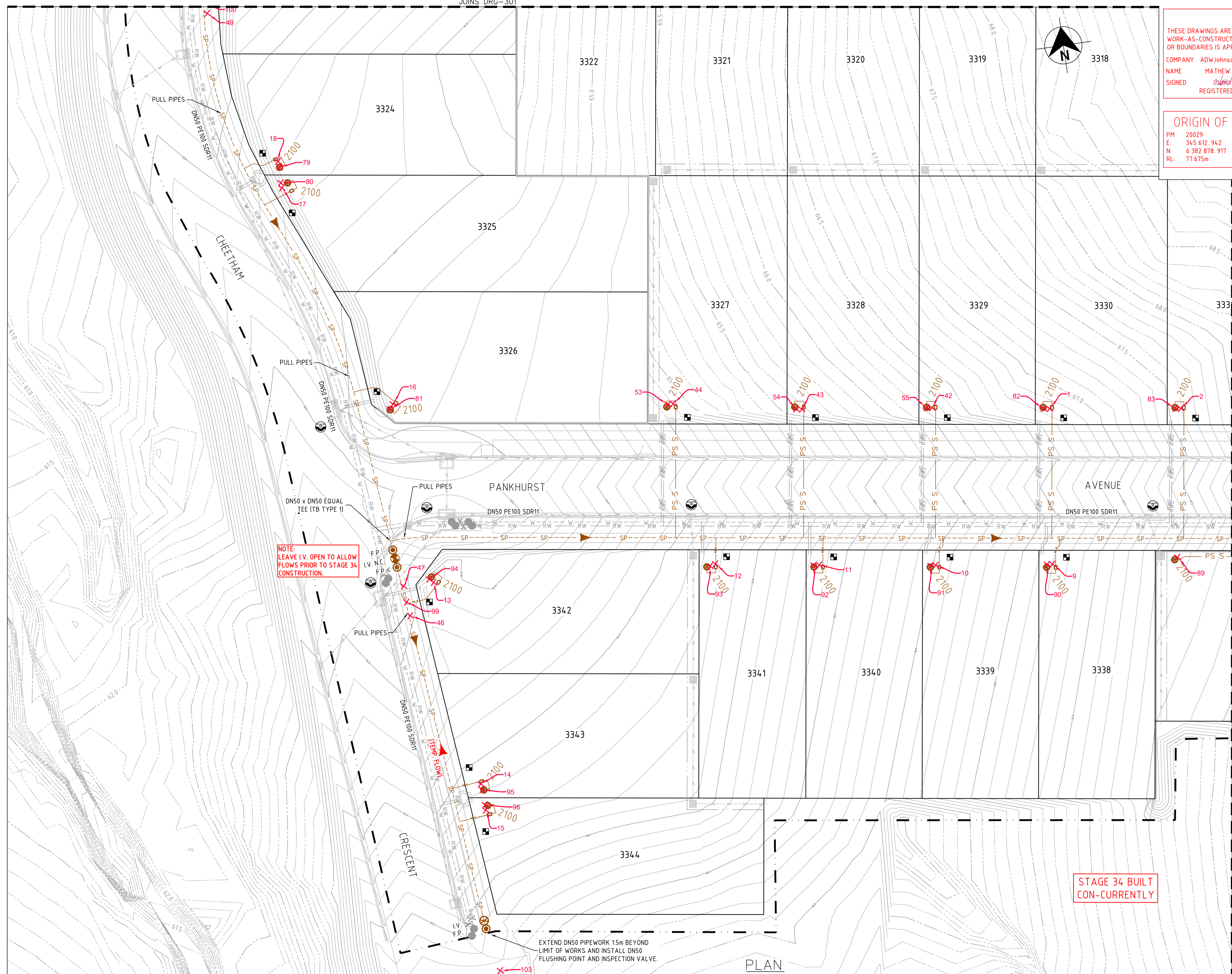
PRESSURE SEWER PIPE DATA		
PIPE SIZE (mm)	PIPE MATERIAL	TOTAL LENGTH (m)
DN63	PE100 SDR11	157
DN50	PE100 SDR11	519
DN40 (LATERAL)	PE100 SDR11	653

- NOTES:
- FOR POTABLE WATER PIPEWORK DETAIL PLANS REFER TO DRGS-101 TO 104.
 - FOR RECYCLED WATER PIPEWORK DETAIL PLANS REFER TO DRGS-201 TO 204.
 - 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).

STAGE 34 BUILT CON-CURRENTLY

APPROVED FOR CONSTRUCTION
 BY ADW Johnson Pty Ltd
 Date Approved: 11/07/2022

CONSTRUCTION ISSUE



PLAN SCALE 1:250

REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY	SCALES
A	10.11.2021	INITIAL ISSUE	G.S.	C.B.	G.S.	C.B.	0 5 10 12.5m SCALE: 1:250 (FULL)
C	02.03.2022	CLIENT COMMENTS	G.S.	C.B.	G.S.	C.B.	
D	04.03.2022	FOR APPROVAL	G.S.	C.B.	G.S.	C.B.	
E	15.06.2022	FOR APPROVAL	G.S.	C.B.	G.S.	C.B.	
O	11.07.2022	ISSUED FOR CONSTRUCTION	G.S.	C.B.	G.S.	C.B.	
1	06.10.2022	ISSUED FOR CONSTRUCTION	G.S.	N.C.	G.S.	C.B.	
2	05.05.2023	WORK AS CONSTRUCTED	I.B.	S.S.	G.S.	C.B.	

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 Hunter Office
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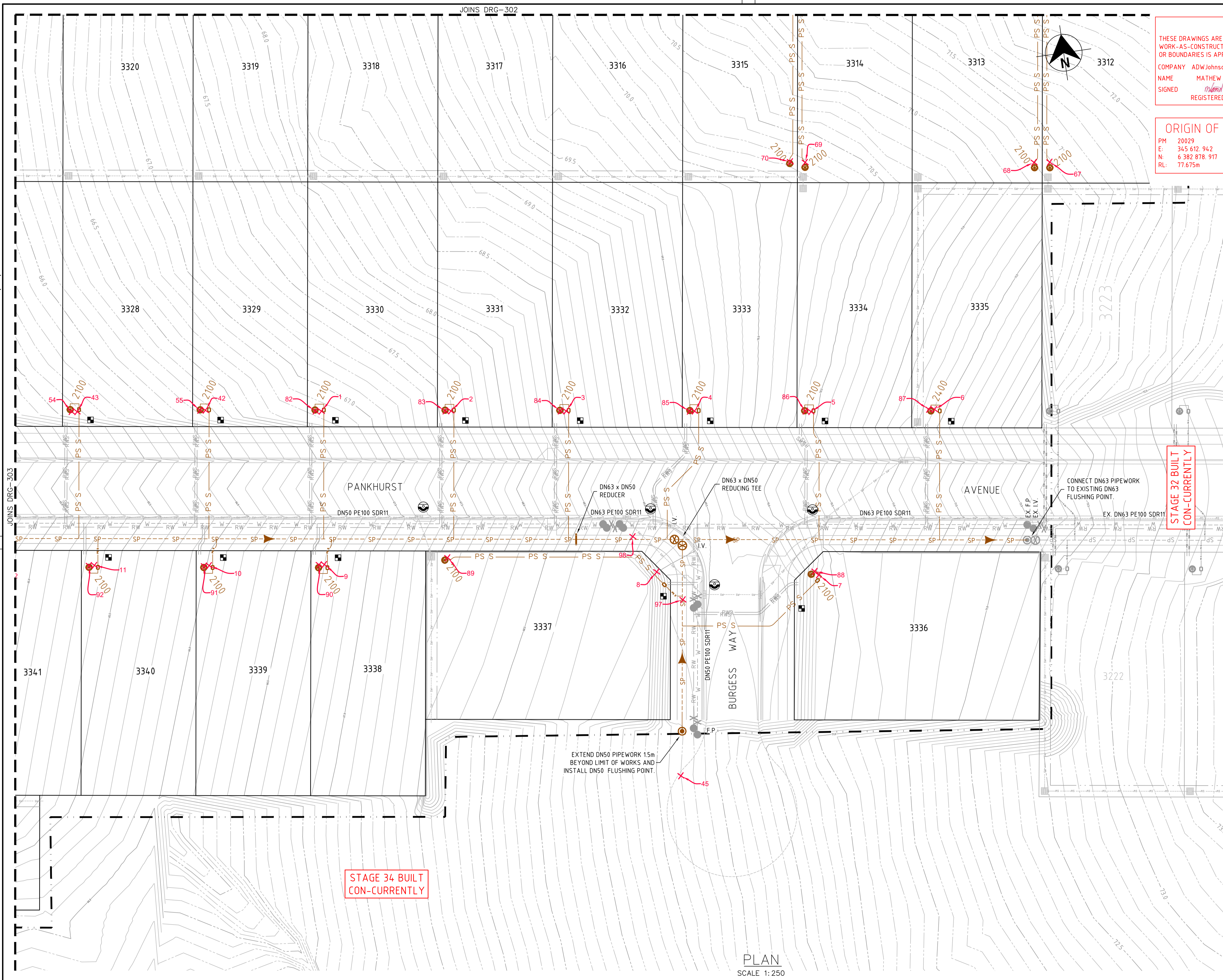
CLIENT

PROPERTY DESCRIPTION
 PROPOSED SUBDIVISION
 STAGE 33
 HUNTLEE

PROJECT	POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION		
PLAN TITLE	PRESSURE SEWER DETAIL PLAN - SHEET 3		
PROJECT No.	DISCIPLINE	NUMBER	REV.
240037(33)	WAC	303	2

240037(33)-WAC-304

100mm AT FULL SIZE
This plan includes coloured information. If you have a black and white copy you do not have all of the information. This note is coloured RED.



WORK AS CONSTRUCTED
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COMPANY ADW Johnson Pty Ltd
 NAME MATHEW DAVID LONDON
 SIGNED [Signature] DATE 28/04/2023 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**
- SP S PE PRESSURE SEWER RETICULATION
 - PS S PE PRESSURE SEWER PROPERTY SERVICE
 - EX PW EX POTABLE WATER RETICULATION
 - PWS POTABLE WATER PROPERTY SERVICE
 - RW RW PVC-M RECYCLED WATER RETICULATION
 - RWS RWS RECYCLED WATER PROPERTY SERVICE
 - EX PS EX EXISTING PRESSURE SEWER RETICULATION
 - EX PW EX EXISTING POTABLE WATER RETICULATION
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 - I.V. ISOLATION VALVE
 - I.V. (NC) ISOLATION VALVE - NORMALLY CLOSED
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 - 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 SERVICE CONNECTIONS
 TOTAL 44 CONNECTIONS
 • SINGLE SERVICES
 - 22 x SHORT SIDE
 - 22 x LONG SIDE

PRESSURE SEWER PIPE DATA		
PIPE SIZE (mm)	PIPE MATERIAL	TOTAL LENGTH (m)
DN63	PE100 SDR11	157
DN50	PE100 SDR11	519
DN40 (LATERAL)	PE100 SDR11	653

- NOTES:**
- FOR POTABLE WATER PIPEWORK DETAIL PLANS REFER TO DRGS-101 TO 104.
 - FOR RECYCLED WATER PIPEWORK DETAIL PLANS REFER TO DRGS-201 TO 204.
 - 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: 11/07/2022

CONSTRUCTION ISSUE

REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY	SCALES
A	10.11.2021	INITIAL ISSUE	G.S.	C.B.	G.S.	C.B.	
C	02.03.2022	CLIENT COMMENTS	G.S.	C.B.	G.S.	C.B.	
D	04.03.2022	FOR APPROVAL	G.S.	C.B.	G.S.	C.B.	
E	15.06.2022	FOR APPROVAL	G.S.	C.B.	G.S.	C.B.	
O	11.07.2022	ISSUED FOR CONSTRUCTION	G.S.	C.B.	G.S.	C.B.	
1	06.10.2022	ISSUED FOR CONSTRUCTION	G.S.	N.C.	G.S.	C.B.	
2	05.05.2023	WORK AS CONSTRUCTED	I.B.	S.S.	G.S.	C.B.	

ALL DIMENSIONS ARE IN METRES U.N.O. DO NOT SCALE

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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 33
 HUNTLEE

SURVEYED
 Daly, Smith Pty Ltd

DATUM
 GDA94 M.G.A. ZONE 56 A.H.D.

PROJECT		POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION	
PLAN TITLE			
PRESSURE SEWER DETAIL PLAN - SHEET 4			
PROJECT No.	DISCIPLINE	NUMBER	REV.
240037(33)	WAC	304	2



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

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

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

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

Point Table with columns: Point #, Eastings, Northings, Levels, Codes. Contains 23 rows of survey data.

100mm AT FULL SIZE
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WORK AS CONSTRUCTED
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COMPANY ADW Johnson Pty Ltd
NAME MATHEW DAVID LONDON
SIGNED [Signature] DATE 28/04/2023 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

APPROVED FOR CONSTRUCTION
BY ADW Johnson Pty Ltd
Date Approved: 11/07/2022

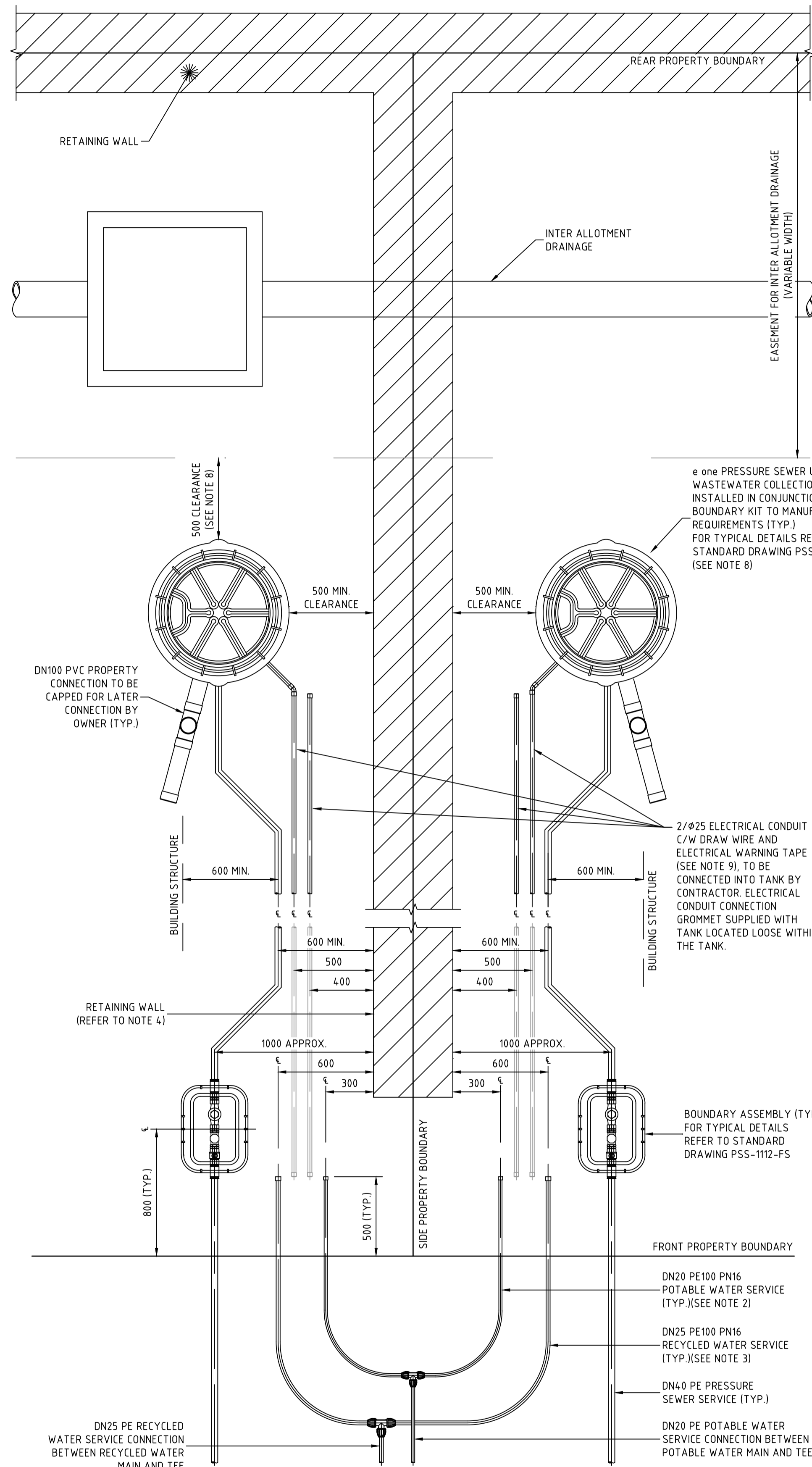
CONSTRUCTION ISSUE

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

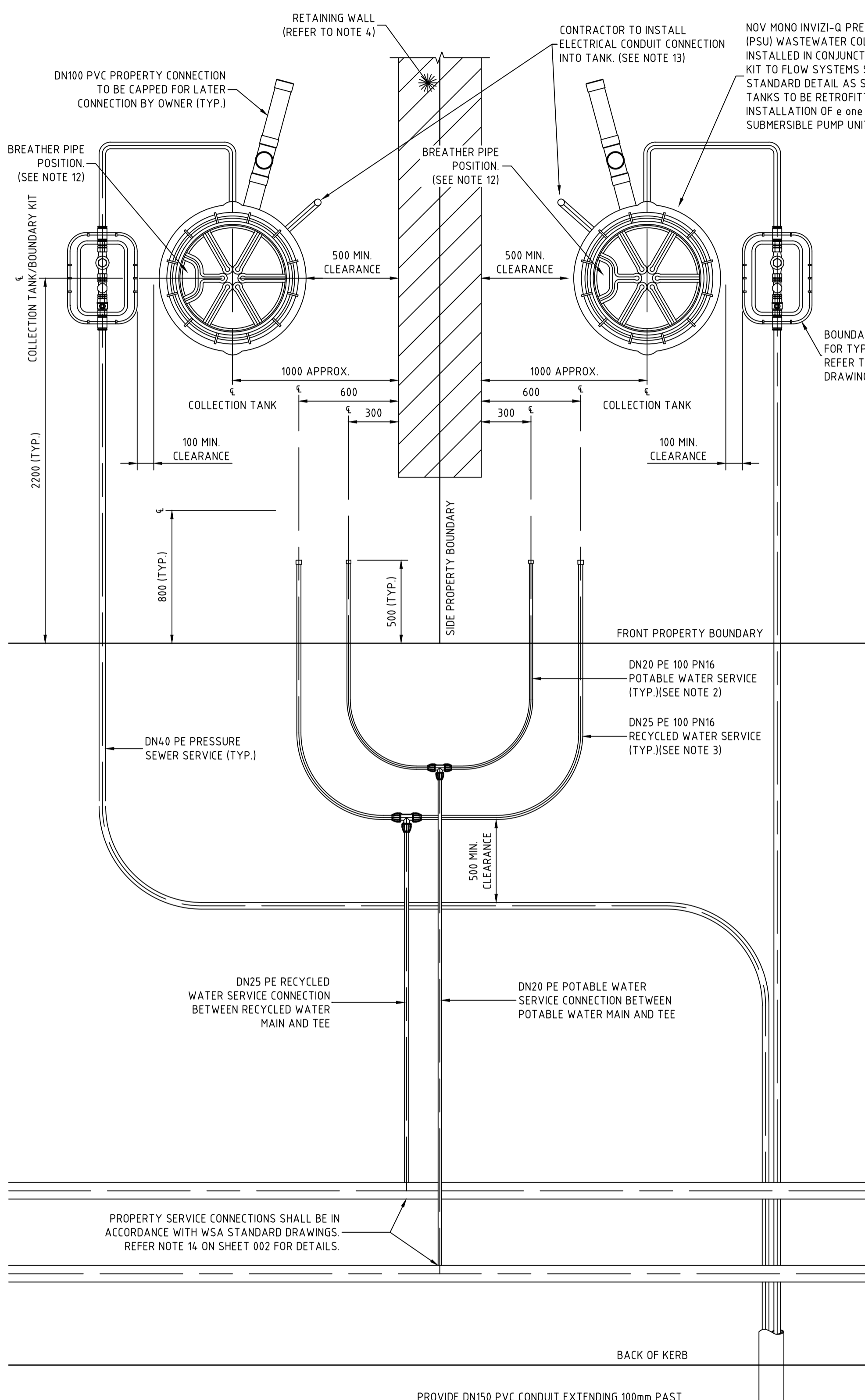
Project information table with columns: REV., DATE, AMENDMENT, DRAWN, CHECK, DESIGN, VERIFY, SCALES, CLIENT, PROPERTY DESCRIPTION, PROJECT, PLAN TITLE, SURVEYED, DATUM, PROJECT No., DISCIPLINE, NUMBER, REV.

240037(33)-WAC-402

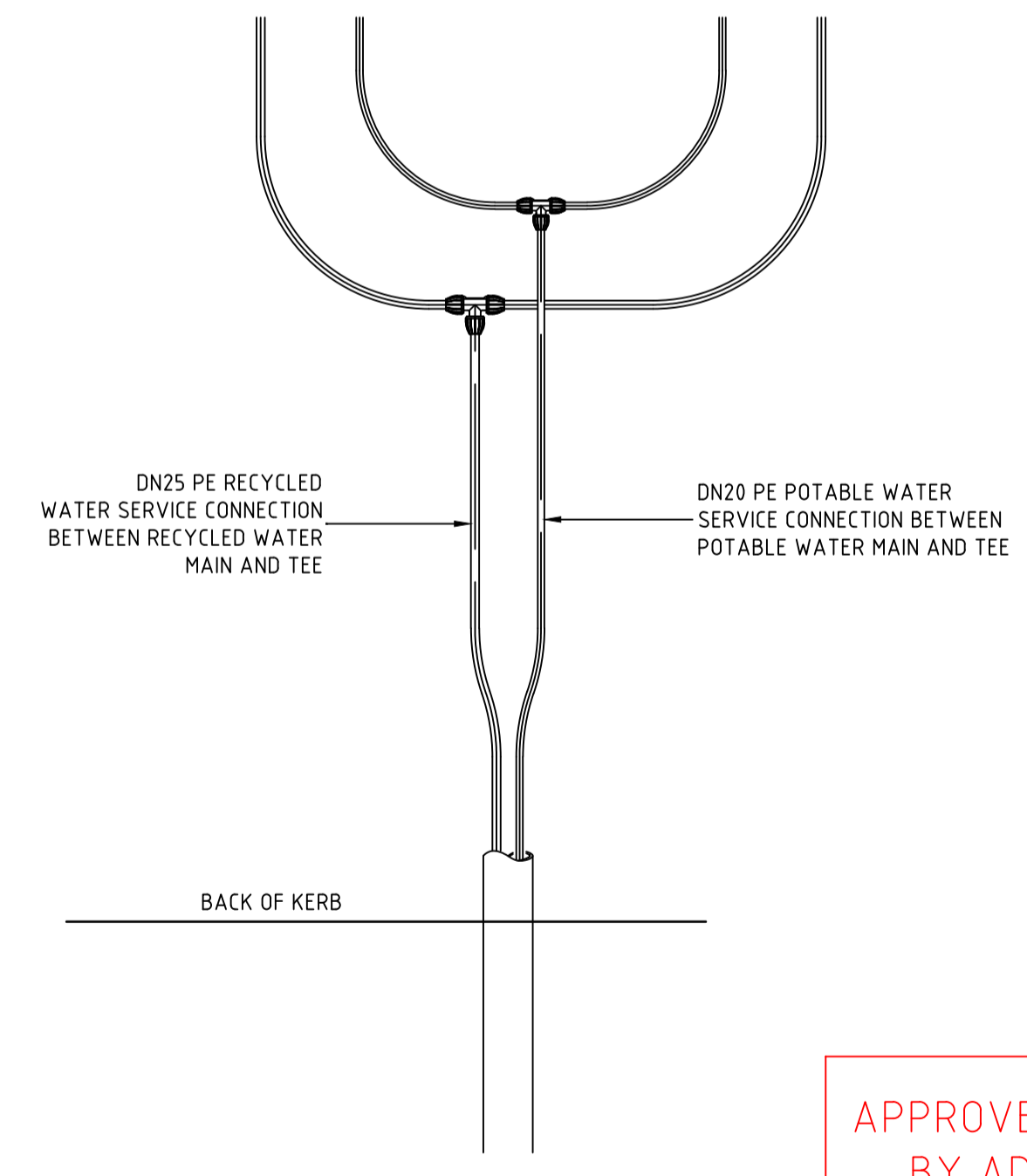
100mm AT FULL SIZE
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TYPICAL PROPERTY CONNECTION DETAIL
(PRESSURE SEWER UNIT AT REAR)
SCALE 1:20



TYPICAL PROPERTY CONNECTION DETAIL
SCALE 1:20



TYPICAL POTABLE WATER AND
RECYCLED WATER CONDUIT DETAIL
(LONG SIDE)
SCALE 1:20

WORK AS CONSTRUCTED
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COMPANY ADW Johnson Pty Ltd
NAME MATHEW DAVID LONDON
SIGNED [Signature] DATE 28/04/2023 REGISTERED SURVEYOR

COMPANY NAME
SIGNED [Signature] DATE 28/04/2023 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

- NOTES:**
- PROPERTY SERVICE CONNECTIONS SHALL BE IN ACCORDANCE WITH WSA STANDARD DRAWINGS FOR DUAL WATER SUPPLY SYSTEMS (SYDNEY WATER VERSION) SUPPLEMENT TO WSA 03-2011.
 - DN20 PE100 PN16 POTABLE WATER SERVICE TO EXTEND 500mm BEYOND PROPERTY BOUNDARY AND BE CAPPED FOR LATER CONNECTION BY PROPERTY OWNER.
 - DN25 PE100 PN16 RECYCLED WATER SERVICE TO EXTEND 500mm BEYOND PROPERTY BOUNDARY AND BE CAPPED FOR LATER CONNECTION BY PROPERTY OWNER.
 - FOR PROPERTY CONNECTIONS WHERE A RETAINING WALL IS NOT PRESENT, SERVICES ARE TO BE OFFSET FROM THE PROPERTY BOUNDARY.
 - WHERE SERVICE CONNECTIONS ARE LOCATED ADJACENT TO TELSTRA PITS/ELECTRICAL PILLARS, A MINIMUM CLEARANCE OF 200mm BETWEEN PITS AND SERVICE PIPEWORK IS TO BE MAINTAINED.
 - MINIMUM BENDING RADIUS FOR PE PIPEWORK IS TO BE 20 x PIPE DIAMETER.
 - ALL POLYETHYLENE FITTINGS SHALL BE JOINED USING ELECTROFUSION JOINTING TECHNIQUES IN ACCORDANCE WITH MANUFACTURERS REQUIREMENTS. ROTATE BENDS AS NECESSARY.
 - PRESSURE SEWER UNIT (PSU) IS TO HAVE 2150mm CLEARANCE FROM BUILDING STRUCTURES.
 - ø25 ELECTRICAL CONDUIT IS TO EXTEND FROM CONNECTION WITH PRESSURE SEWER UNIT (PSU) TO NOM. 500mm INSIDE FRONT PROPERTY BOUNDARY AND BE CAPPED. ELECTRICAL CONDUIT IS TO BE HEAVY DUTY ORANGE. ALL CONDUIT BENDS ARE TO BE LARGE RADIUS SWEEP BENDS.
 - FOR MORE INFORMATION REFER TO FLOW SYSTEMS STANDARD DRAWING FSI-1000-FS.
 - FOR ALTERNATE TANK AND BOUNDARY CONFIGURATIONS, AND DETAILS FOR TANKS INSTALLED ON PROPERTIES WITH BATTERS AND RETAINING WALLS, REFER TO FLOW SYSTEMS STANDARD DRAWINGS FSI-SK03A-FS AND FSI-SK03B-FS.
 - POSITION TANK LID SUCH THAT BREATHER PIPE LOCATION IS ON THE DOWNSLOPE SIDE OF THE BLOCK WHERE POSSIBLE.
 - CONTRACTOR TO INSTALL ELECTRICAL CONDUIT CONNECTION. ELECTRICAL GROMMET SUPPLIED WITH TANK AND LOCATED LOOSE WITHIN TANK. ø25 CONDUIT TO BE PROVIDED WITH LONG RADIUS SWEEP BEND INTO THE VERTICAL POSITION AND LEFT CAPPED ABOVE GROUND LEVEL FOR FUTURE ELECTRICAL CONNECTION BY ELECTRICIAN ONCE DWELLING IS CONSTRUCTED.

APPROVED FOR CONSTRUCTION
BY ADW Johnson Pty Ltd
Date Approved: 11/07/2022

CONSTRUCTION ISSUE

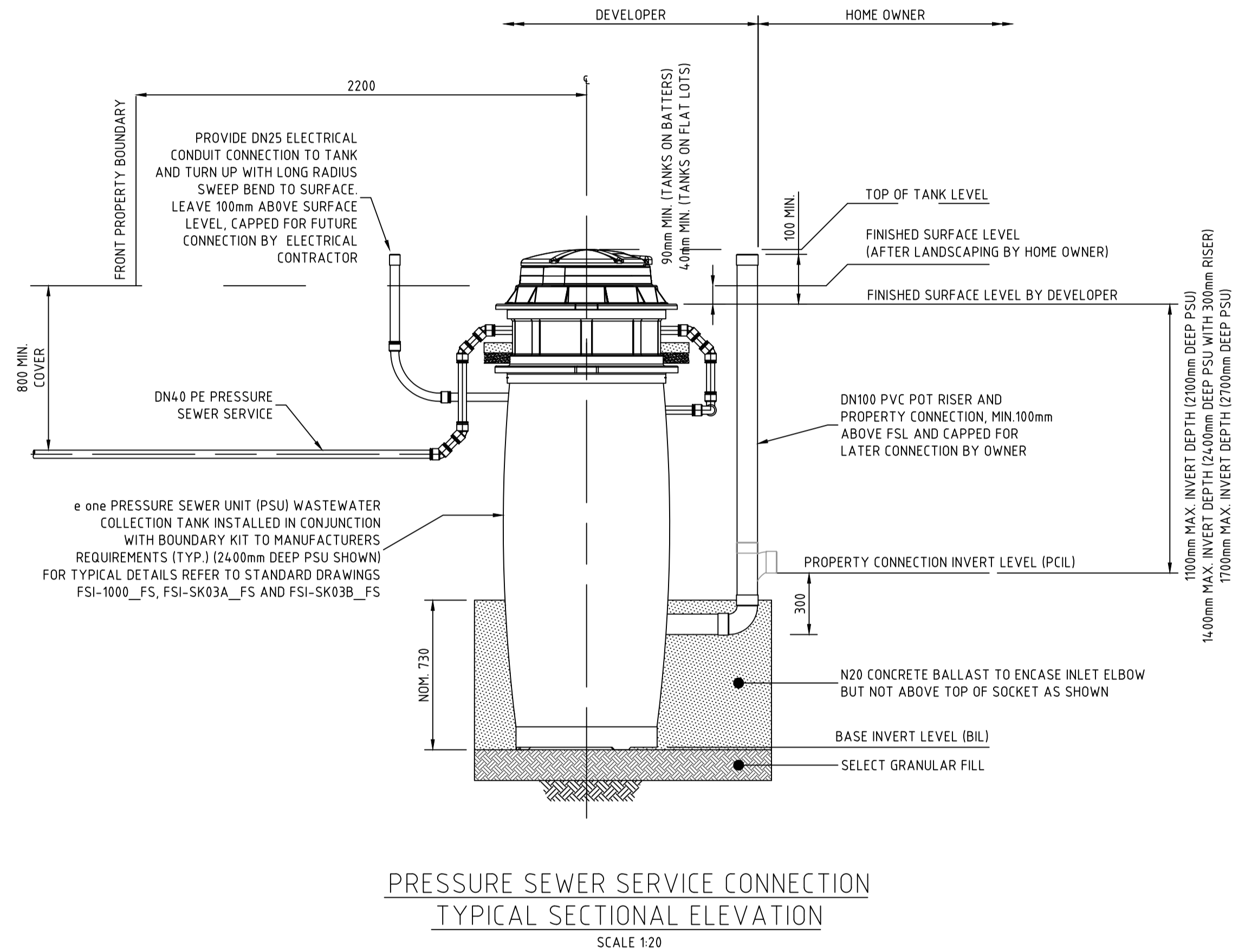
REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY	SCALES	CLIENT	PROPERTY DESCRIPTION	PROJECT	PLAN TITLE	SURVEYED	DATUM	PROJECT No.	DISCIPLINE	NUMBER	REV.
A	10.11.2021	INITIAL ISSUE	G.S.	C.B.	G.S.	C.B.		Hunter Office Unit 7/335 Hillsborough Rd Warners Bay N.S.W. 2282 Phone: (02) 4978 5100 Fax: (02) 4978 5199 email: hunter@adwjohnson.com.au www.adwjohnson.com.au ABN 62 129 445 398	PROPOSED SUBDIVISION STAGE 33 HUNTLEE	POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION	TYPICAL PROPERTY CONNECTION DETAILS	Daly, Smith Pty Ltd	GDA94 M.G.A. ZONE 56 A.H.D.	240037(33)	WAC	402	2
C	02.03.2022	CLIENT COMMENTS	G.S.	C.B.	G.S.	C.B.											
D	04.03.2022	FOR APPROVAL	G.S.	C.B.	G.S.	C.B.											
E	15.06.2022	FOR APPROVAL	G.S.	C.B.	G.S.	C.B.											
O	11.07.2022	ISSUED FOR CONSTRUCTION	G.S.	C.B.	G.S.	C.B.											
1	06.10.2022	ISSUED FOR CONSTRUCTION	G.S.	N.C.	G.S.	C.B.											
2	05.05.2023	WORK AS CONSTRUCTED	I.B.	S.S.	G.S.	C.B.											



240037(33)-WAC-403

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
3301	62.49	62.36	60.36	61.26	2100	FRONT BATTER	346675.85	6382474.35	62.49	61.18	-0.08
3302	62.52	62.39	60.39	61.29	2100	FRONT BATTER	346675.56	6382472.37	62.52	61.21	-0.08
3303	64.28	64.15	61.85	62.75	2400	FRONT	346705.59	6382449.93	64.28	62.67	-0.08
3304	65.30	65.17	62.87	63.77	2400	FRONT	346723.21	6382447.33	65.30	63.69	-0.09
3305	66.35	66.22	64.22	65.12	2100	FRONT	346741.02	6382444.70	66.35	65.04	-0.09
3306	67.35	67.22	65.22	66.12	2100	FRONT	346757.84	6382442.21	67.35	66.04	-0.09
3307	68.32	68.19	66.19	67.09	2100	FRONT	346774.65	6382439.72	68.32	67.01	-0.09
3308	69.23	69.10	67.10	68.00	2100	REAR	346796.00	6382457.60	69.23	67.92	-0.08
3309	69.21	69.08	67.08	67.98	2100	REAR	346795.21	6382455.69	69.21	67.90	-0.09
3310	71.74	71.61	69.61	70.51	2100	FRONT	346841.36	6382429.86	71.74	70.43	-0.09
3311	72.64	72.51	70.21	71.11	2400	FRONT BATTER	346858.94	6382427.27	72.64	71.03	-0.08
3312	71.49	71.36	69.36	70.26	2100	REAR	346864.03	6382377.59	71.49	70.18	-0.09
3313	70.86	70.73	68.73	69.63	2100	REAR	346862.06	6382377.88	70.86	69.55	-0.08
3314	70.38	70.25	68.25	69.15	2100	REAR	346832.38	6382382.27	70.38	68.47	-0.69
3315	70.13	70.00	68.00	68.90	2100	REAR	346830.47	6382383.05	70.13	68.82	-0.09
3316	70.14	70.01	68.71	68.61	2400	FRONT	346804.79	6382414.45	70.14	68.53	-0.08
3317	69.42	69.29	66.99	67.89	2400	FRONT	346789.95	6382416.64	69.42	67.81	-0.08
3318	68.60	68.47	66.47	67.37	2100	FRONT	346773.13	6382419.13	68.60	67.29	-0.09
3319	67.70	67.57	65.57	66.47	2100	FRONT	346758.29	6382421.32	67.70	66.39	-0.08
3320	66.66	66.53	64.53	65.43	2100	FRONT	346741.47	6382423.80	66.66	65.05	-0.39
3321	65.60	65.47	63.47	64.37	2100	FRONT	346724.66	6382426.29	65.60	64.29	-0.09
3322	64.58	64.45	62.45	63.35	2100	FRONT	346707.04	6382428.90	64.58	63.27	-0.09
3323	62.91	62.78	60.78	61.68	2100	FRONT BATTER	346669.85	6382433.73	62.91	61.60	-0.09
3324	63.89	63.76	61.76	62.66	2100	FRONT BATTER	346671.52	6382405.03	63.89	62.58	-0.08
3325	63.90	63.77	61.77	62.67	2100	FRONT BATTER	346672.26	6382402.90	63.90	62.59	-0.09
3326	64.29	64.16	62.16	63.06	2100	FRONT BATTER	346681.12	6382372.05	64.29	62.98	-0.08
3327	64.99	64.86	62.86	63.76	2100	FRONT	346716.44	6382367.26	64.99	63.68	-0.09
3328	65.70	65.57	63.57	64.47	2100	FRONT	346732.76	6382364.85	65.70	64.39	-0.08
3329	66.36	66.23	64.23	65.13	2100	FRONT	346749.58	6382362.36	66.36	65.05	-0.08
3330	66.96	66.83	64.83	65.73	2100	FRONT	346764.42	6382360.17	66.96	65.65	-0.09
3331	67.68	67.55	65.55	66.45	2100	FRONT	346781.23	6382357.68	67.68	66.37	-0.08
3332	68.60	68.47	66.47	67.37	2100	FRONT	346796.07	6382355.49	68.60	67.29	-0.09
3333	69.62	69.49	67.49	68.39	2100	FRONT	346812.89	6382353.00	69.62	68.31	-0.08
3334	70.51	70.38	68.38	69.28	2100	FRONT	346827.73	6382350.81	70.51	69.20	-0.08
3335	71.51	71.38	69.38	70.28	2400	FRONT	346844.05	6382348.39	71.51	69.90	-0.08
3336	70.38	70.25	68.25	69.15	2100	FRONT BATTER	346825.49	6382329.54	70.38	69.07	-0.09
3337	68.28	68.15	66.15	67.05	2100	REAR	346778.36	6382338.30	68.28	66.97	-0.08
3338	66.80	66.67	64.67	65.57	2100	FRONT	346761.89	6382339.72	66.80	65.49	-0.08
3339	66.10	65.97	63.97	64.87	2100	FRONT	346747.05	6382341.91	66.10	64.79	-0.09
3340	65.41	65.28	63.28	64.18	2100	FRONT	346732.22	6382344.10	65.41	64.10	-0.09
3341	64.86	64.73	62.73	63.63	2100	FRONT	346718.56	6382346.12	64.86	63.55	-0.09
3342	64.21	64.08	62.08	62.98	2100	FRONT	346683.25	6382349.97	64.21	62.90	-0.09
3343	64.72	64.59	62.59	63.49	2100	FRONT	346685.97	6382321.83	64.72	63.41	-0.09
3344	64.79	64.66	62.66	63.56	2100	FRONT	346686.16	6382319.77	64.79	63.48	-0.08



WASTEWATER COLLECTION TANK COUNT

TANK SIZE	NUMBER OF
2100	38
2400	6
2700	0

WORK AS CONSTRUCTED
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 COMPANY ADW Johnson Pty Ltd COMPANY
 NAME MATHEW DAVID LONDON NAME
 SIGNED *mdavid* DATE 28/04/2023 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: 11/07/2022

CONSTRUCTION ISSUE

100mm AT FULL SIZE. This plan includes coloured information. If you have a black and white copy you do not have all of the information. This note is coloured RED.

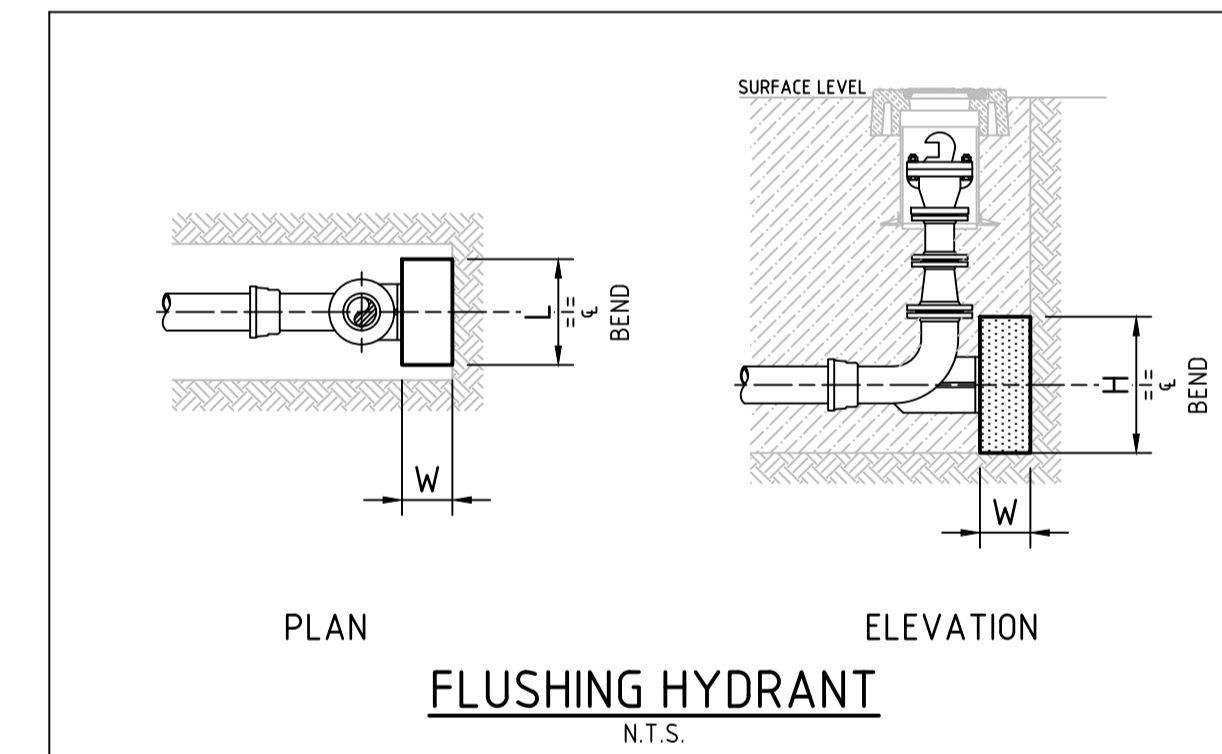
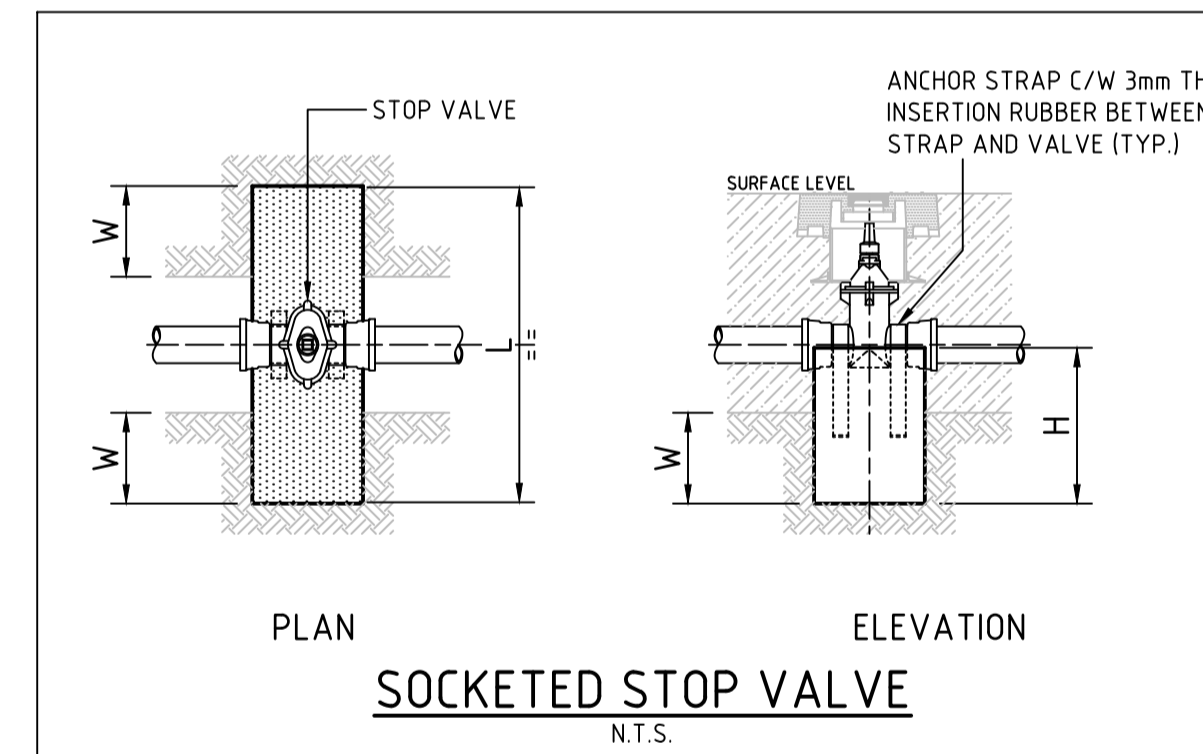
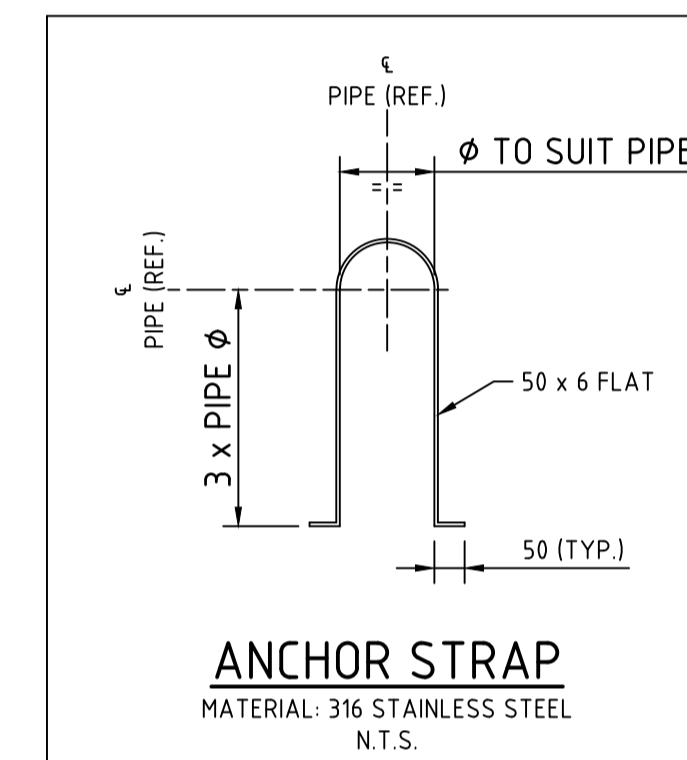
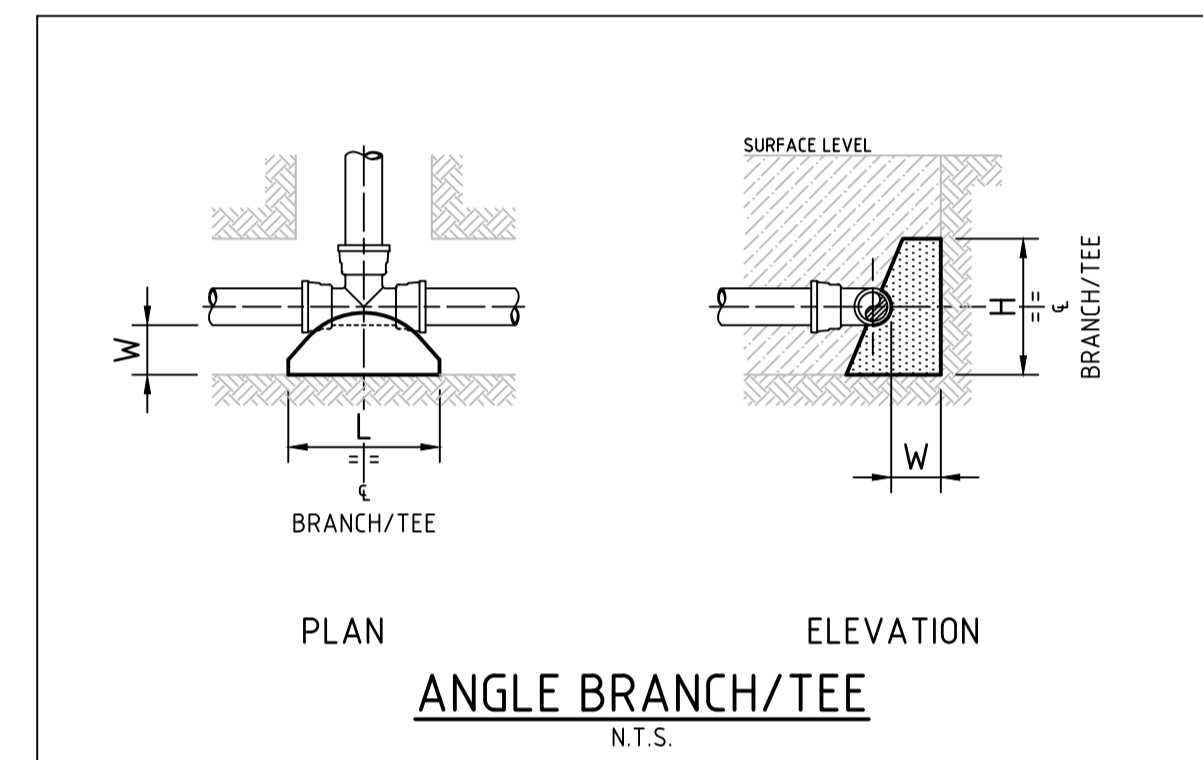
REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY	SCALES	 Hunter Office Unit 7/335 Hillsborough Rd Warners Bay N.S.W. 2282 Phone: (02) 4978 5100 Fax: (02) 4978 5199 email: hunter@adwjohnson.com.au www.adwjohnson.com.au ABN 62 129 445 398	 CLIENT	PROPERTY DESCRIPTION	PROJECT	POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION WASTE WATER COLLECTION TANK LEVEL DETAILS			
A	10.11.2021	INITIAL ISSUE	G.S.	C.B.	G.S.	C.B.	1:10 / 1:20			PROPOSED SUBDIVISION STAGE 33 HUNTLEE	PLAN TITLE				
C	02.03.2022	CLIENT COMMENTS	G.S.	C.B.	G.S.	C.B.				SURVEYED	DATUM	PROJECT No.	DISCIPLINE	NUMBER	REV.
D	04.03.2022	FOR APPROVAL	G.S.	C.B.	G.S.	C.B.				Daly Smith Pty Ltd	GDA94 M.G.A. ZONE 56 A.H.D.	240037(33)	WAC	403	2
E	15.06.2022	FOR APPROVAL	G.S.	C.B.	G.S.	C.B.									
O	11.07.2022	ISSUED FOR CONSTRUCTION	G.S.	C.B.	G.S.	C.B.									
1	06.10.2022	ISSUED FOR CONSTRUCTION	G.S.	N.C.	G.S.	C.B.									
2	05.05.2023	WORK AS CONSTRUCTED	I.B.	S.S.	G.S.	C.B.									



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 (45°, 22.5°, 11.25° & 6°) HORIZONTAL BENDS	100	1500	7.50	0.08	N	N	0.30
3	DN100 SOCKETED STOP VALVE	100	1500	18.00	0.18	1.05	0.44	0.30
4	DN100 FLUSHING HYDRANT	100	1500	18.00	0.18	0.45	0.40	0.30
5	DN100 x 90° HORIZONTAL BEND	100	1500	25.50	0.26	0.55	0.47	0.30



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 COMPANY: ADW Johnson Pty Ltd
 NAME: MATHEW DAVID LONDON
 SIGNED: [Signature] DATE: 28/04/2023
 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: 11/07/2022

CONSTRUCTION ISSUE

REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY	SCALES	CLIENT	PROPERTY DESCRIPTION	PROJECT	PLAN TITLE	SURVEYED	DATUM	PROJECT No.	DISCIPLINE	NUMBER	REV.
A	10.11.2021	INITIAL ISSUE	G.S.	C.B.	G.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@adwjohanson.com.au www.adwjohanson.com.au ABN 62 129 445 398	PROPOSED SUBDIVISION STAGE 33 HUNTLEE	POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION	THRUST BLOCK DETAILS	Daly, Smith Pty Ltd	GDA94 M.G.A. ZONE 56 A.H.D.	240037(33)	WAC	404	2

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