PROPOSED SUBDIVISION
STAGE 32
HUNTLEE

DIAL1100
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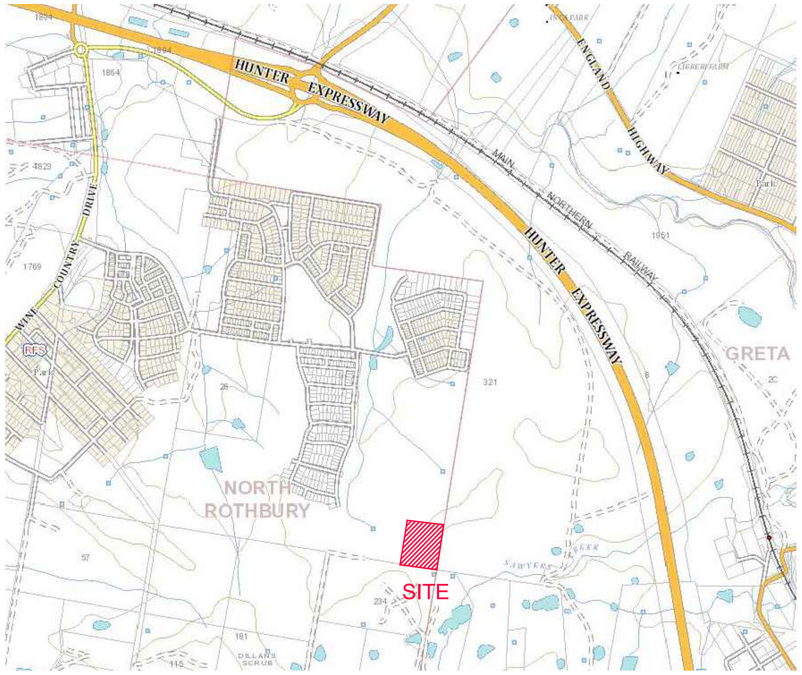
240037(32)-WAC-001



LOCALITY SKETCH
NOT TO SCALE

DRAWING INDEX	
DRAWING NUMBER	DRAWING TITLE
240037(32)-WAT-001	COVER SHEET, LOCALITY PLAN & DRAWING INDEX
240037(32)-WAT-002	GENERAL NOTES
240037(32)-WAT-003	OVERALL SITE PLAN
240037(32)-WAT-101	POTABLE WATER DETAIL PLAN - SHEET 1
240037(32)-WAT-102	POTABLE WATER DETAIL PLAN - SHEET 2
240037(32)-WAT-103	POTABLE WATER DETAIL PLAN - SHEET 3
240037(32)-WAT-104	POTABLE WATER DETAIL PLAN - SHEET 4
240037(32)-WAT-201	RECYCLED WATER DETAIL PLAN - SHEET 1
240037(32)-WAT-202	RECYCLED WATER DETAIL PLAN - SHEET 2
240037(32)-WAT-203	RECYCLED WATER DETAIL PLAN - SHEET 3
240037(32)-WAT-204	RECYCLED WATER DETAIL PLAN - SHEET 4
240037(32)-WAT-301	PRESSURE SEWER DETAIL PLAN - SHEET 1
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240037(32)-WAT-303	PRESSURE SEWER DETAIL PLAN - SHEET 3
240037(32)-WAT-304	PRESSURE SEWER DETAIL PLAN - SHEET 4
240037(32)-WAT-401	TYPICAL PIPEWORK TRENCHING DETAIL
240037(32)-WAT-402	TYPICAL PROPERTY CONNECTION DETAILS
240037(32)-WAT-403	WASTE WATER COLLECTION TANK LEVEL DETAILS
240037(32)-WAT-404	THRUST BLOCK DETAILS

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 ADWJohnson Pty Ltd — COMPANY
NAME MATHEW DAVID LONDON — NAME
SIGNED — DATE 28/04/2023 — SIGNED — DATE ...../...../.....
REGISTERED SURVEYOR — 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

REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY
A	08.11.2021	INITIAL ISSUE	G.S.	C.B.	G.S.	C.B.
0	11.07.2022	ISSUED FOR CONSTRUCTION	G.S.	C.B.	G.S.	C.B.
1	15.07.2022	UPDATED WATER PIPE DATA TABLES	G.S.	C.B.	G.S.	C.B.
2	28.09.2022	UPDATED SERVICES AND HYDRANT LOCATIONS	G.S.	C.B.	G.S.	C.B.
3	13.10.2022	UPDATED SERVICES LOCATIONS –LOT 3207	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	**05.05.2023**	**WORK AS CONSTRUCTED**	**I.B.**	**S.S.**	**G.S.**	**C.B.**

SCALES

DESIGN FILE N:\240037\DWG\Water & Sewer\Stage 32 Water and Sewer\x-240037(32)-huntlee-water.dwg

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

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CLIENT: altogether.

PROPERTY DESCRIPTION
PROPOSED SUBDIVISION
STAGE 32
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(32)	WAC	001	5

Plotted By: glenns Plot Date: 05/05/23 – 10:50 Cad File: N:\240072\DWG\water & sewer\stage 32-wac\240037(32)-WAC-001.dwg

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(32)-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 WSAA, PRESSURE SEWERAGE CODE OF AUSTRALIA – WSA 07-2007 VERSION 1.1 AND POLYETHYLENE PIPELINE CODE WSA 01-2004.
2. ALL EQUIPMENT, MATERIALS AND ACCESSORIES USED IN THIS CONTRACT SHALL BE NEW AND SHALL COMPLY WITH ALTOGETHER REQUIREMENTS. BUTT FUSION FITTINGS DENOTED HEREWITH HAVE BEEN DERIVED FROM THE GEORG FISCHER PIPING SYSTEMS BUTT FUSION PRODUCT RANGE. ELECTROFUSION FITTINGS DENOTED HEREWITH HAVE BEEN DERIVED FROM THE PLASSON "POLYETHYLENE PIPING SYSTEMS"PRODUCT RANGE.
3. ALL SERVICES SHOWN ARE INDICATIVE ONLY. A CURRENT SERVICES SEARCH AND SITE CHECK OF ALL EXISTING SERVICES WILL BE REQUIRED PRIOR TO COMMENCEMENT OF ANY WORKS.
   THE CONSTRUCTOR IS TO DETERMINE LEVELS AND LOCATIONS OF ALL EXISTING SERVICES IN THE VICINITY OF THE CONSTRUCTION SITE AND ANY CONSTRUCTED STRUCTURES FOR PROPOSED SERVICES, SUCH AS DUCTING FOR WATER OR ELECTRICITY WITHIN THE SUBDIVISION.
   THE CONTRACTOR MUST ENSURE ALL SERVICES ARE LOCATED BY THE RELEVANT AUTHORITY PRIOR TO COMMENCEMENT OF WORKS.
4. PRESSURE SEWER MAINS SHALL BE BLACK POLYETHYLENE (PE100 PN16) WITH A CREAM STRIPE AS PER WSA 02-2007 AND ALTOGETHER SUPPLEMENTARY MANUAL TO WSAA.
5. ALL POLYETHYLENE MAINS ≤ DN200 SHALL BE JOINED USING ELECTROFUSION JOINTING TECHNIQUES IN ACCORDANCE WITH MANUFACTURERS REQUIREMENTS.
   ALL POLYETHYLENE MAINS ≥ DN200 SHALL BE JOINED USING BUTTWELD JOINTING TECHNIQUES IN ACCORDANCE WITH MANUFACTURERS REQUIREMENTS.
6. MAIN TO BE LAID GENERALLY AS INDICATED IN SERVICE ALLOCATION DIAGRAMS.
   INSTRUCTION NOTES SHALL TAKE PRECEDENCE OVER DIAGRAMS WHERE PROVIDED.
   600mm HORIZONTAL CLEARANCE TO BE MAINTAINED BETWEEN ALL SEWER AND WATER MAINS.
   MINIMUM PIPE COVER SHALL BE 800mm IN FOOTWAYS AND 1000mm IN ROADWAYS.
   MAXIMUM PIPE COVER SHALL GENERALLY BE 1500mm. WHERE COVER FOR A TRENCHED INSTALLATION EXCEEDS 1500mm BUT LESS THAN 2500mm THE MAIN AS A MINIMUM SHALL BE EMBEDDED IN STABILISED SAND.
   THE CONTRACTOR SHALL ENSURE THAT ALL PRESSURE SEWER AND RECYCLED WATER MAINS HAVE SUFFICIENT VERTICAL SEPARATION AS PER THE CLEARANCE TABLE ADJACENT.
7. MAINS CROSSING UNDER EXISTING DRIVEWAYS (SEALED, PAVED OR DECORATIVE) SHALL BE CONDUCTED BY UNDER BORING ONLY UNLESS PERMISSION IS GRANTED BY THE AFFECTED PROPERTY OWNER.
8. MAINS WITHIN 2.0m OF ELECTRICITY OR POWER POLES SHALL BE CONDUCTED BY BORING TECHNOLOGY (UNLESS AGREED TO BY THE 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.
    SMALL MAINS (≤ DN110)
    http://information.altogethergroup.com.au/governance/Land_Housing/PSS-1017A-FS.pdf
    LARGE MAINS (> DN110)
    http://information.altogethergroup.com.au/governance/Land_Housing/PSS-1017B-FS.pdf
14. LOCALISED DEEPENING OF MAINS MAY BE REQUIRED TO FACILITATE AIR VALVE INSTALLATION.
    THE CONTRACTOR SHALL ENSURE THAT THE AIR VALVE OFFTAKE IS LOCATED AT A HIGH POINT (NATURAL OR ARTIFICIAL) IN THE MAIN (i.e. MAIN SHALL GRADE DOWNWARDS EITHER SIDE OF THE AIR VALVE).
15. DETECTABLE MARKING TAPE SHALL BE LAID ON TOP OF THE PIPE EMBEDMENT MATERIAL BEFORE BACKFILLING AND CONNECTED TO SURFACE FITTINGS.
16. ALL SURFACE FITTINGS LOCATED IN TRAFFICABLE AREAS (i.e. ROADWAYS, PATHS etc.) SHALL HAVE HEAVY DUTY SURROUNDS INSTALLED.
17. DURING CONSTRUCTION, ALL OPEN ENDS OF PIPE SHALL BE CAPPED OFF TO PREVENT ENTRY OF FOREIGN MATTER.
18. ALL VALVES SHALL BE RESILIENT SEATED SLUICE VALVES (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 Φ25mm INSTRUMENTATION CONDUIT (ORANGE) AND 1 x Φ25mm 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 21.3.4) ARE:
    TRAFFICABLE
    PIPE EMBEDMENT ZONE: NIL TRENCH FILL ZONE: 1 TEST/300mm LAYER OF FILL AT EACH ROAD CROSSING.
    NON-TRAFFICABLE
    PIPE EMBEDMENT ZONE: NIL TRENCH FILL ZONE: 1 TEST/900mm OF FILL AND EACH 100 LINEAL METRES OF PIPE.
26. BOUNDARY KITS (COMPLETE) SHALL BE NOV SUPPLIED (NOV PSS-BK4).
    e one COLLECTION TANK (ESD 20-0032/ESD 20-0033) SHALL BE INSTALLED WITH BOUNDARY KIT (REFER ALTOGETHER STANDARD DRAWINGS PSS-1112-FS AND PSS-1113-FS). PUMP TO BE INSTALLED BY OTHERS.
27. ALL MAINS (UP TO THE BOUNDARY KIT) SHALL BE PRESSURE TESTED TO 1600 kPa.
    ALL LINES FROM THE WASTEWATER COLLECTION TANK TO THE MANUAL ISOLATION VALVE WITHIN THE BOUNDARY KIT TO BE PRESSURE TESTED TO 1000KPa.
28. ALL MAINS SHALL BE FLUSHED WITH WATER TO REMOVE ANY DEBRIS PRIOR TO COMMISSIONING.
29. SURFACE IDENTIFICATION MARKERS ARE TO BE PROVIDED TO 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 WSAA AND WSA 03-2011-3.1 (SYDNEY WATER EDITION 2014).
2. POTABLE WATER SHALL BE UTILISED FOR FIRE FIGHTING PURPOSES.
3. ALL EQUIPMENT, MATERIALS AND ACCESSORIES USED IN THIS CONTRACT SHALL BE NEW, SHALL CONFORM TO THE APPROPRIATE CURRENT AUSTRALIAN STANDARDS AND SHALL COMPLY WITH ALTOGETHER REQUIREMENTS.
4. ALL SERVICES SHOWN ARE INDICATIVE ONLY. A CURRENT SERVICES SEARCH AND SITE CHECK OF ALL EXISTING SERVICES WILL BE REQUIRED PRIOR TO COMMENCEMENT OF ANY WORKS.
   THE CONSTRUCTOR IS TO DETERMINE LEVELS AND LOCATIONS OF ALL EXISTING SERVICES IN THE VICINITY OF THE CONSTRUCTION SITE AND ANY CONSTRUCTED STRUCTURES FOR PROPOSED SERVICES, SUCH AS DUCTING FOR WATER OR ELECTRICITY WITHIN THE SUBDIVISION.
   THE CONTRACTOR MUST ENSURE ALL SERVICES ARE LOCATED BY THE RELEVANT AUTHORITY PRIOR TO COMMENCEMENT OF WORKS.
5. THE CONSTRUCTOR SHALL VERIFY WITH THE SITE SUPERVISOR THE POSITION AND LEVEL OF ALL EXISTING AND PROPOSED BOUNDARIES PERTINENT TO THE INFRASTRUCTURE INSTALLATIONS.
6. MAIN TO BE LAID GENERALLY AS INDICATED IN SERVICE ALLOCATION DIAGRAMS.
   INSTRUCTION NOTES SHALL TAKE PRECEDENCE OVER DIAGRAMS WHERE PROVIDED.
   600mm HORIZONTAL CLEARANCE TO BE MAINTAINED BETWEEN ALL SEWER AND WATER MAINS.
   MINIMUM PIPE COVER SHALL BE 600mm IN FOOTWAYS (TYPE B EMBEDMENT: WAT-1202-V) AND 800mm IN ROADWAYS (TYPE L EMBEDMENT: WAT-1204-V).
   MAXIMUM PIPE COVER SHALL GENERALLY BE 1500mm. WHERE COVER FOR A TRENCHED INSTALLATION EXCEEDS 1500mm BUT LESS THAN 2500mm THE MAIN AS A MINIMUM SHALL BE EMBEDDED IN STABILISED SAND.
   THE CONTRACTOR SHALL ENSURE THAT ALL RECYCLED WATER MAINS AND PRESSURE SEWER MAINS HAVE SUFFICIENT VERTICAL SEPARATION AS PER THE CLEARANCE TABLE ADJACENT.
7. ALL POTABLE WATERMAINS TO BE BLUE PVC-M (PN16).
   ALL RECYCLED WATERMAINS SHALL BE LILAC PVC-M (PN16).
   DIFFERENTIATION OF POTABLE AND RECYCLED WATER SYSTEMS SHALL BE AS PER TABLE 4.1 WSA03-2011 WITH BOTH SERVICES BEING CLASSIFIED AS WATER MAINS.
   RECYCLED WATER MAINS SHALL ALWAYS BE LOWER THAN POTABLE WATER MAINS.
   150mm VERTICAL CLEARANCE BETWEEN POTABLE WATER AND RECYCLED WATER MAINS SHALL BE PROVIDED.
8. MAXIMUM JOINT DEFLECTIONS TO BE IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS.
9. LOCALLY LOWER PIPEWORK IN VICINITY OF STOP VALVES TO ENSURE SUFFICIENT COVER IS MAINTAINED OVER VALVES. LOWERING OF PIPEWORK SHALL BE ACHIEVED OVER A NUMBER OF PIPE LENGTHS EITHER SIDE OF VALVES TO ELIMINATE ANY SHARP DEFLECTIONS.
10. ALL PIPE BEDDING MATERIAL SHALL COMPLY WITH WSAA PRODUCT SPECIFICATION PS-350, 368 AND 369.
    GEOTECHNICAL CONDITIONS SHOULD BE ASSESSED DURING CONSTRUCTION BY THE CONTRACTOR IN ASSOCIATION WITH THE ALTOGETHER REPRESENTATIVE TO DETERMINE THE NEED TO MODIFY EMBEDMENT/TRENCHFILL TYPE AND THE NED FOR TRENCH DRAINAGE/BULKHEADS.
11. DURING CONSTRUCTION, ALL OPEN ENDS OF PIPES SHALL BE CAPPED OFF TO PREVENT ENTRY OF FOREIGN MATTER.
12. HYDRANTS , STOP VALVES AND ALL OTHER FITTINGS TO BE THE SAME SIZE AS THE THROUGH WATER MAIN AND ANTI CLOCKWISE CLOSING.
13. HYDRANTS MUST NOT BE INSTALLED IN POTENTIAL DRIVEWAY LOCATIONS. HYDRANTS AND WATER SERVICES SHALL BE NOMINALLY AT LEAST 5.0m FROM EACH BOUNDARY OR ON BOUNDARIES. WHERE POSSIBLE, FITTINGS SHALL BE LOCATED BEHIND KERB INLET PITS.
14. THRUST BLOCKS SHALL BE INSTALLED IN ACCORDANCE WITH WAT-1205.
15. ALL PROPERTY (MAIN TO METER) SERVICE CONNECTIONS SHALL BE CONSTRUCTED STRICTLY IN ACCORDANCE WITH ALTOGETHER REQUIREMENTS.
    REFER TO ALTOGETHER WEBSITE FOR CURRENT VERSION.
    SINGLE SERVICE: *http://information.altogethergroup.com.au/governance/Land_Housing/WAT-1854-FS.pdf*
    DUAL SERVICE: *http://information.altogethergroup.com.au/governance/Land_Housing/WAT-1855-FS.pdf*
16. PROPERTY SERVICE CONNECTION IS SHALL BE FLUSHED AND LOCKED (BY THE 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 . 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) :
    TRAFFICABLE
    PIPE EMBEDMENT ZONE: NIL TRENCH FILL ZONE: 1 TEST/300mm LAYER OF FILL AT EACH ROAD CROSSING.
    NON-TRAFFICABLE
    PIPE EMBEDMENT ZONE: NIL TRENCH FILL ZONE: 1 TEST/900MM OF FILL AND EACH 100 LINEAL METERS OF PIPE.
    PROPERTY SERVICES
    TEST 1 OF EVERY 5 PROPERTY SERVICE TRENCHES.
    TESTING SHALL BE IN ACCORDANCE WITH TABLE 16.1 AND 17.1 OF THE WATER SUPPLY CODE OF AUSTRALIA.
26. SURFACE IDENTIFICATION MARKERS ARE TO BE PROVIDED TO 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.

DIAL1100
BEFORE YOU DIG

CLEARANCES BETWEEN PIPELINES AND UNDERGROUND SERVICES

UTILITY (EXISTING OR PROPOSED SERVICE)	MINIMUM HORIZONTAL CLEARANCE (mm) NEW MAIN SIZE ≤ DN200	MINIMUM HORIZONTAL CLEARANCE (mm) NEW MAIN SIZE ≥ DN200	MINIMUM VERTICAL CLEARANCE (mm)
WATER MAINS > DN375	600	600	300
WATER MAINS < DN375	300 [4]	600	150
GAS MAINS	300 [4]	600	150
TELECOMMUNICATION CONDUITS AND CABLES	300 [4]	600	150
ELECTRICITY CONDUITS AND CONDUITS	200	1000	225 [8]
STORMWATER DRAINS	300 [4]	600	150 [9]
SEWERS (GRAVITY)	1000 [6] / 600	1000 [6] / 600	500 [9]
SEWERS (PRESSURE AND VACUUM)	600	600	300 [9]
KERBS	150	600 [5]	150 (WHERE POSSIBLE)

NOTES:

1. *VERTICAL CLEARANCES APPLY WHERE PIPELINES CROSS OTHER UTILITY SERVICES, EXCEPT IN THE CASE OF WATER/SEWER MAINS WHEN A VERTICAL SEPARATION SHALL ALWAYS BE MAINTAINED, EVEN WHEN THE PRESSURE SEWER AND WATER MAIN ARE PARALLEL. THE PRESSURE SEWER SHOULD ALWAYS BE LOCATED BELOW THE WATER MAIN TO MINIMISE THE POSSIBILITY OF BACKFLOW CONTAMINATION IN THE EVENT OF A PRESSURE MAIN BREAK.*
2. *WATER MAINS INCLUDES MAINS SUPPLYING BOTH POTABLE AND RECYCLED WATER.*
3. *FOR AREAS WITH EXISTING WATER RETICULATION, CLEARANCES CAN BE FURTHER REDUCED TO 600mm WITH THE APPROVAL OF THE WATER AUTHORITY.*
4. *CLEARANCES CAN BE FURTHER REDUCED TO 150mm FOR DISTANCES UP TO 2.0m WHEN PASSING INSTALLATIONS SUCH AS POLES, PITS, AND SMALL STRUCTURES, PROVIDING THE STRUCTURE IS NOT DE-STABILISED IN THE PROCESS.*
5. *CLEARANCES FROM KERBS SHALL BE MEASURED FROM THE NEAREST POINT OF THE KERB. FOR WATER/SEWER ≤ DN 375, CLEARANCES FROM KERBS CAN BE PROGRESSIVELY REDUCED UNTIL THE MINIMUM OF 150mm IS REACHED FOR WATER/SEWER > DN200.*
6. *WHERE A PARALLEL SEWER IS AT MINIMUM VERTICAL CLEARANCE LOWER THAN THE WATER MAIN (500mm), MAINTAIN A MINIMUM HORIZONTAL OF 1000mm. THIS MINIMUM CLEARANCE CAN BE PROGRESSIVELY REDUCED TO 600mm AS THE VERTICAL CLEARANCE IS INCREASED TO 750mm.*
7. *FOR PRESSURE SEWER LATERALS, MINIMUM VERTICAL CLEARANCES MAY BE REDUCED TO 150mm PROVIDING THERE IS NO JOINT IN THE LATERAL WITHIN 500mm OF EITHER SIDE OF THE SERVICE BEING CROSSED.*
8. *AN ADDITIONAL CLEARANCE FROM HIGH VOLTAGE ELECTRICAL INSTALLATIONS SHOULD BE MAINTAINED ABOVE THE CONDUITS OR CABLES TO ALLOW FOR A PROTECTIVE BARRIER AND MARKING TO BE PROVIDED.*
9. *WATER MAINS SHOULD ALWAYS CROSS OVER SEWERS AND STORMWATER DRAINS. FOR CASES WHERE THERE IS NO ALTERNATIVE AND THE MAIN MUST CROSS UNDER THE SEWER, THE DESIGN SHALL NOMINATE AN APPROPRIATE PROTECTION TREATMENT (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 ADWJohnson Pty Ltd COMPANY
NAME MATHEW DAVID LONDON NAME
SIGNED DATE 28/04/2023 SIGNED DATE ...../...../.....
REGISTERED SURVEYOR CONSTRUCTION MANAGER

ORIGIN OF W.A.C. LEVELS

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N: 6 382 878. 917
RL: 77.675m

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Date Approved:11/07/2022

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REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY
A	08.11.2021	INITIAL ISSUE	G.S.	C.B.	G.S.	C.B.
0	11.07.2022	ISSUED FOR CONSTRUCTION	G.S.	C.B.	G.S.	C.B.
1	15.07.2022	UPDATED WATER PIPE DATA TABLES	G.S.	C.B.	G.S.	C.B.
2	28.09.2022	UPDATED SERVICES AND HYDRANT LOCATIONS	G.S.	C.B.	G.S.	C.B.
3	13.10.2022	UPDATED SERVICES LOCATIONS –LOT 3207	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	05.05.2023	WORK AS CONSTRUCTED	I.B.	S.S.	G.S.	C.B.

SCALES

DESIGN FILE N:\240037\DWG\Water & Sewer\Stage 32 Water and Sewer\x-240037(32)-huntlee-water.dwg 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: altogether.

PROPERTY DESCRIPTION
PROPOSED SUBDIVISION
STAGE 32
HUNTLEE

PROJECT: POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION

PLAN TITLE: GENERAL NOTES

SURVEYED	DATUM	PROJECT No.	DISCIPLINE	NUMBER	REV.
Daly.Smith Pty Ltd	GDA94 M.G.A. ZONE 56 A.H.D.	240037(32)	WAC	002	5

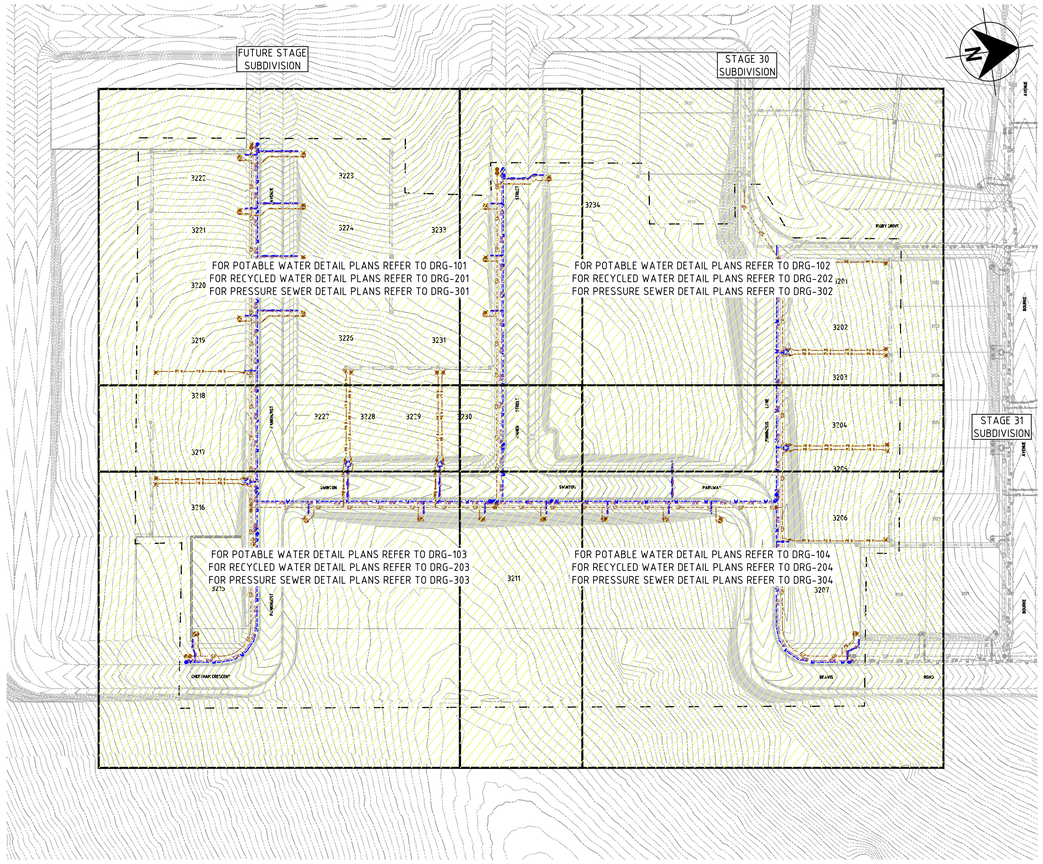
Plotted By: glenns Plot Date: 05/05/23 – 10:50 Cad File: N:\240072\DWG\water & sewer\stage 32-wac\240037(32)-WAC-001.dwg

240037(32)-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.

DIAL1100
BEFORE YOU DIG



PLAN
SCALE 1:1000

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 ADWJohnson Pty Ltd — COMPANY
NAME MATHEW DAVID LONDON — NAME
SIGNED — DATE 28/04/2023 — SIGNED — DATE ...../...../.....
REGISTERED SURVEYOR — 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

REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY
A	08.11.2021	INITIAL ISSUE	G.S.	C.B.	G.S.	C.B.
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3	13.10.2022	UPDATED SERVICES LOCATIONS –LOT 3207	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	**05.05.2023**	**WORK AS CONSTRUCTED**	**I.B.**	**S.S.**	**G.S.**	**C.B.**

SCALES

DESIGN FILE N:\240037\DWG\Water & Sewer\Stage 32 Water and Sewer\x-240037(32)-huntlee-water.dwg

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

adw Johnson
Hunter Office
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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 32
HUNTLEE

PROJECT: POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION

PLAN TITLE: OVERALL SITE PLAN

SURVEYED	DATUM	PROJECT No.	DISCIPLINE	NUMBER	REV.
Daly.Smith Pty Ltd	GDA94 M.G.A. ZONE 56 A.H.D.	240037(32)	WAC	003	5

Plotted By: glenns Plot Date: 05/05/23 – 10:50 Cad File: N:\240072\DWG\water & sewer\stage 32–wac\240037(32)–WAC–001.dwg

240037(32)-WAC-104

STAGE 33 BUILT CON-CURRENTLY

STAGE 33 BUILT CON-CURRENTLY

EXTEND DN100 PIPEWORK 1.5m BEYOND LIMIT OF WORKS AND INSTALL DN100 FLUSHING HYDRANT AND STOP VALVE.

EXTEND DN100 PIPEWORK 1.5m BEYOND LIMIT OF WORKS AND INSTALL DN100 FLUSHING HYDRANT AND STOP VALVE.

FL. HYD.
S.V.

FL. HYD.
S.V.

HYD.
S.V.

HYD.
S.V.

HYD.

TAP

DN100 PVC-M PN16

AVENUE

STREET

PANKHURST

MAHER

3222 3223 3234 3221 3224 3233 3220 3225 3232 3219 3226 3231 3218 3227 3228 3229 3230 3217

100 103 104 106 105 87 88 107 109 108 110 111 112 113 114 115 86 97 131 132 133 134

JOINS DRG-103

JOINS DRG-102

STAGE 34 BUILT CON-CURRENTLY

PLAN
SCALE 1:250

DIAL 1100 BEFORE YOU DIG

WORK AS CONSTRUCTED

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COMPANY	ADWJohnson Pty Ltd	COMPANY	
NAME	MATHEW DAVID LONDON	NAME	
SIGNED		DATE 28/04/2023 SIGNED	DATE ...../...../.....
	REGISTERED SURVEYOR		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 RW — PVC-M RECYCLED WATER RETICULATION
- RWS RWS — RECYCLED WATER PROPERTY SERVICE
- SP SP — PE PRESSURE SEWER RETICULATION
- PS S PS S — PE PRESSURE SEWER PROPERTY SERVICE
- EX PW EX PW — EXISTING POTABLE WATER RETICULATION
- EX RW EX RW — EXISTING RECYCLED WATER RETICULATION
- EX PS EX PS — EXISTING PRESSURE SEWER RETICULATION
- SW SW — STORMWATER PIPEWORK
- SV. — STOP VALVE
- HYD. — HYDRANT
- FL HYD. — FLUSHING HYDRANT
- PROPERTY SERVICE CONNECTION
- LAY WATER MAIN OVER STORMWATER PIPE (300mm MIN. VERTICAL CLEARANCE) - REFER TO WAT-1255-H
- 11.25° 22.5° — HORIZONTAL BEND ANGLES IN MAIN
- PROPOSED EASEMENT
- SUBDIVISION STAGE BOUNDARY

POTABLE WATER PROPERTY SERVICE CONNECTIONS
TOTAL 35 CONNECTIONS
- SINGLE SERVICES IN ACCORDANCE WITH WAT-1106-V
  - -17 x SHORT SIDE
  - -6 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	620
DN20 (LATERAL)	PE100 PN16	218

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
A	08.11.2021	INITIAL ISSUE	G.S.	C.B.	G.S.	C.B.
0	11.07.2022	ISSUED FOR CONSTRUCTION	G.S.	C.B.	G.S.	C.B.
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2	28.09.2022	UPDATED SERVICES AND HYDRANT LOCATIONS	G.S.	C.B.	G.S.	C.B.
3	13.10.2022	UPDATED SERVICES LOCATIONS -LOT 3207	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	05.05.2023	WORK AS CONSTRUCTED	I.B.	S.S.	G.S.	C.B.

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

DESIGN FILE N:\240037\DWG\Water & Sewer\Stage 32 Water and Sewer\x-240037(32)-huntlee-water.dwg
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adw johnson
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Fax: (02) 4978 5199
email: hunter@adwjohnson.com.au
www.adwjohnson.com.au
ABN 62 129 445 398

CLIENT: altogether.

PROPERTY DESCRIPTION
PROPOSED SUBDIVISION
STAGE 32
HUNTLEE

PROJECT: POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION

PLAN TITLE: POTABLE WATER DETAIL PLAN - SHEET 1

SURVEYED	DATUM	PROJECT No.	DISCIPLINE	NUMBER	REV.
Daly.Smith Pty Ltd	GDA94 M.G.A. ZONE 56 A.H.D.	240037(32)	WAC	101	5

Plotted By: glenns Plot Date: 05/05/23 - 10:51 Cad File: N:\240072\DWG\water & sewer\stage 32-wac\240037(32)-WAC-104.dwg

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(32)-WAC-104

STAGE 33 BUILT CON-CURRENTLY

EXTEND DN100 PIPEWORK 1.5m BEYOND LIMIT OF WORKS AND INSTALL DN100 FLUSHING HYDRANT AND STOP VALVE.

FL. HYD.
S.V.
115
TAP
87
HYD
SV
114
98
113
112
97
HYD.
S.V.
86
HYD
137
TAP
INSTALL WATER SERVICE TO PARK

STREET
DN100 PVC-M PN16
MAHER
JOINS DRG-101

3233
3234
3232
3231
3230
3030
3031
3032

EX. DN150 PVC-M PN16
EX. HYD.
RIGBY DRIVE
DN150 x DN100 REDUCING TEE (TB TYPE 6)
EX. DN150 PVC-M PN16
PULL PIPES
S.V.
HYD.
92
SV
HYD
80
TAP
121
LANE
DN100 PVC-M PN16
JENNINGS
DN100 PVC-M PN16

3201
3202
3203
3204
3205
3028
3029
3121
3122
3123
3124
3125
3126

120
TAP
119
TAP
118
TAP
117
TAP

JOINS DRG-104

PLAN
SCALE 1:250

N

DIAL 1100 BEFORE YOU DIG

WORK AS CONSTRUCTED

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COMPANY	ADWJohnson Pty Ltd	COMPANY	
NAME	MATHEW DAVID LONDON	NAME	
SIGNED		DATE 28/04/2023	SIGNED DATE ...../...../.....
	REGISTERED SURVEYOR		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 RW — PVC-M RECYCLED WATER RETICULATION
- RWS RWS — RECYCLED WATER PROPERTY SERVICE
- SP SP — PE PRESSURE SEWER RETICULATION
- PS S PS S — PE PRESSURE SEWER PROPERTY SERVICE
- EX PW EX PW — EXISTING POTABLE WATER RETICULATION
- EX RW EX RW — EXISTING RECYCLED WATER RETICULATION
- EX PS EX PS — EXISTING PRESSURE SEWER RETICULATION
- SW SW — STORMWATER PIPEWORK
- SV. — STOP VALVE
- HYD. — HYDRANT
- FL HYD. — FLUSHING HYDRANT
- PROPERTY SERVICE CONNECTION
- LAY WATER MAIN OVER STORMWATER PIPE (300mm MIN. VERTICAL CLEARANCE) - REFER TO WAT-1255-H
- 11.25° 22.5° — HORIZONTAL BEND ANGLES IN MAIN
- PROPOSED EASEMENT
- SUBDIVISION STAGE BOUNDARY

POTABLE WATER PROPERTY SERVICE CONNECTIONS
TOTAL 35 CONNECTIONS
- SINGLE SERVICES IN ACCORDANCE WITH WAT-1106-V
  - -17 x SHORT SIDE
  - -6 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	620
DN20 (LATERAL)	PE100 PN16	218

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
A	08.11.2021	INITIAL ISSUE	G.S.	C.B.	G.S.	C.B.
0	11.07.2022	ISSUED FOR CONSTRUCTION	G.S.	C.B.	G.S.	C.B.
1	15.07.2022	UPDATED WATER PIPE DATA TABLES	G.S.	C.B.	G.S.	C.B.
2	28.09.2022	UPDATED SERVICES AND HYDRANT LOCATIONS	G.S.	C.B.	G.S.	C.B.
3	13.10.2022	UPDATED SERVICES LOCATIONS –LOT 3207	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	**05.05.2023**	**WORK AS CONSTRUCTED**	**I.B.**	**S.S.**	**G.S.**	**C.B.**

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

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

DESIGN FILE N:\240037\DWG\Water & Sewer\Stage 32 Water and Sewer\x-240037(32)-huntlee-water.dwg

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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 32
HUNTLEE

PROJECT: POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION

PLAN TITLE: POTABLE WATER DETAIL PLAN - SHEET 2

SURVEYED	DATUM	PROJECT No.	DISCIPLINE	NUMBER	REV.
Daly.Smith Pty Ltd	GDA94 M.G.A. ZONE 56 A.H.D.	240037(32)	WAC	102	5

Plotted By: glenns Plot Date: 05/05/23 – 10:51 Cad File: N:\240072\DWG\water & sewer\stage 32-wac\240037(32)-WAC-104.dwg

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(32)-WAC-104

JOINS DRG-101

STAGE 34 BUILT CON-CURRENTLY

3218 3217 3216 3215 3227 3228 3229 3230 3214 3213 3212 3211 3210

AVENUE

STREET

MAHER

SWINTON

PARKWAY

PANKHURST

CHEETHAM CRESCENT

DN100 PVC-M PN16

DN100 x DN100 EQUAL TEE (TB TYPE 1)

EXTEND DN100 PIPEWORK 1.5m BEYOND LIMIT OF WORKS AND INSTALL DN100 FLUSHING HYDRANT AND STOP VALVE.

JOINS DRG-104

DIAL 1100 BEFORE YOU DIG

WORK AS CONSTRUCTED

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COMPANY	ADWJohnson Pty Ltd	COMPANY	
NAME	MATHEW DAVID LONDON	NAME	
SIGNED		DATE 28/04/2023	SIGNED DATE ...../...../.....
	REGISTERED SURVEYOR		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

- PVC-M POTABLE WATER RETICULATION
- POTABLE WATER PROPERTY SERVICE
- PVC-M RECYCLED WATER RETICULATION
- RECYCLED WATER PROPERTY SERVICE
- PE PRESSURE SEWER RETICULATION
- PE PRESSURE SEWER PROPERTY SERVICE
- EXISTING POTABLE WATER RETICULATION
- EXISTING RECYCLED WATER RETICULATION
- EXISTING PRESSURE SEWER RETICULATION
- STORMWATER PIPEWORK
- SV. STOP VALVE
- HYD. HYDRANT
- FL HYD. FLUSHING HYDRANT
- PROPERTY SERVICE CONNECTION
- LAY WATER MAIN OVER STORMWATER PIPE (300mm MIN. VERTICAL CLEARANCE) - REFER TO WAT-1255-H
- 11.25° 22.5° HORIZONTAL BEND ANGLES IN MAIN
- PROPOSED EASEMENT
- SUBDIVISION STAGE BOUNDARY

POTABLE WATER PROPERTY SERVICE CONNECTIONS
TOTAL 35 CONNECTIONS
- SINGLE SERVICES IN ACCORDANCE WITH WAT-1106-V
  - -17 x SHORT SIDE
  - -6 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	620
DN20 (LATERAL)	PE100 PN16	218

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

PLAN
SCALE 1:250

REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY
A	08.11.2021	INITIAL ISSUE	G.S.	C.B.	G.S.	C.B.
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3	13.10.2022	UPDATED SERVICES LOCATIONS –LOT 3207	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	05.05.2023	WORK AS CONSTRUCTED	I.B.	S.S.	G.S.	C.B.

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

DESIGN FILE N:\240037\DWG\Water & Sewer\Stage 32 Water and Sewer\x-240037(32)-huntlee-water.dwg

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: altogether.

PROPERTY DESCRIPTION
PROPOSED SUBDIVISION
STAGE 32
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 3

PROJECT No.	DISCIPLINE	NUMBER	REV.
240037(32)	WAC	103	5

Plotted By: glenns Plot Date: 05/05/23 – 10:51 Cad File: N:\240072\DWG\water & sewer\stage 32-wac\240037(32)-WAC-104.dwg

100mm AT FULL SIZE

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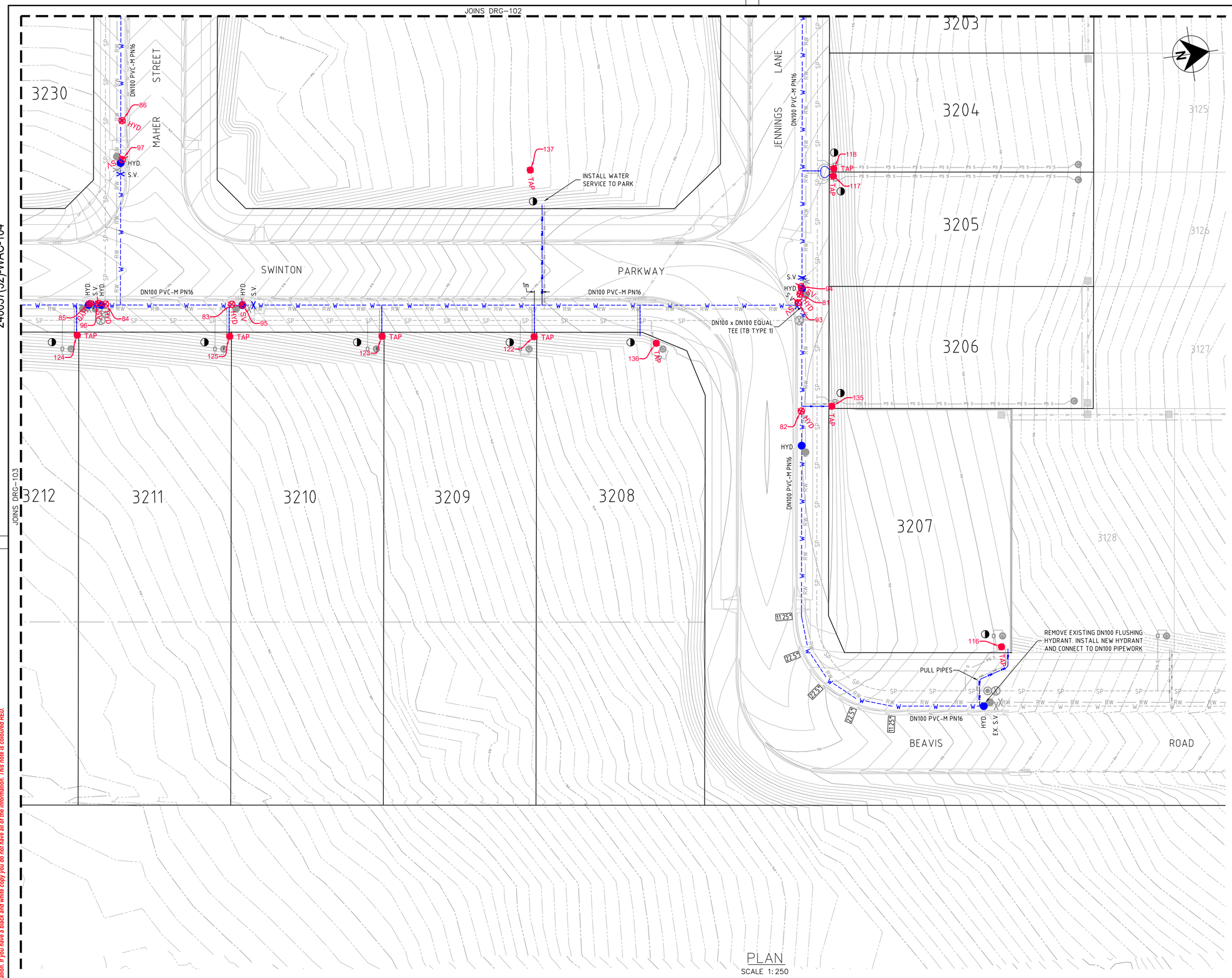

PLAN
SCALE 1:250

DIAL1100 BEFORE YOU DIG

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COMPANY	ADWJohnson Pty Ltd	COMPANY	
NAME	MATHEW DAVID LONDON	NAME	
SIGNED		DATE 28/04/2023	SIGNED DATE ...../...../.....
	REGISTERED SURVEYOR		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

- PVC-M POTABLE WATER RETICULATION
- POTABLE WATER PROPERTY SERVICE
- PVC-M RECYCLED WATER RETICULATION
- RECYCLED WATER PROPERTY SERVICE
- PE PRESSURE SEWER RETICULATION
- PE PRESSURE SEWER PROPERTY SERVICE
- EXISTING POTABLE WATER RETICULATION
- EXISTING RECYCLED WATER RETICULATION
- EXISTING PRESSURE SEWER RETICULATION
- STORMWATER PIPEWORK
- SV. STOP VALVE
- HYD. HYDRANT
- FL HYD. FLUSHING HYDRANT
- PROPERTY SERVICE CONNECTION
- LAY WATER MAIN OVER STORMWATER PIPE (300mm MIN. VERTICAL CLEARANCE) - REFER TO WAT-1255-H
- 11.25° 22.5° HORIZONTAL BEND ANGLES IN MAIN
- PROPOSED EASEMENT
- SUBDIVISION STAGE BOUNDARY

POTABLE WATER PROPERTY SERVICE CONNECTIONS
TOTAL 35 CONNECTIONS
- SINGLE SERVICES IN ACCORDANCE WITH WAT-1106-V
  - 17 x SHORT SIDE
  - 6 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	620
DN20 (LATERAL)	PE100 PN16	218

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
A	08.11.2021	INITIAL ISSUE	G.S.	C.B.	G.S.	C.B.
0	11.07.2022	ISSUED FOR CONSTRUCTION	G.S.	C.B.	G.S.	C.B.
1	15.07.2022	UPDATED WATER PIPE DATA TABLES	G.S.	C.B.	G.S.	C.B.
2	28.09.2022	UPDATED SERVICES AND HYDRANT LOCATIONS	G.S.	C.B.	G.S.	C.B.
3	13.10.2022	UPDATED SERVICES LOCATIONS -LOT 3207	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	05.05.2023	WORK AS CONSTRUCTED	I.B.	S.S.	G.S.	C.B.

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

DESIGN FILE N:\240037\DWG\Water & Sewer\Stage 32 Water and Sewer\x-240037(32)-huntlee-water.dwg

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: altogether.

PROPERTY DESCRIPTION: PROPOSED SUBDIVISION STAGE 32 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 4

PROJECT No.	DISCIPLINE	NUMBER	REV.
240037(32)	WAC	104	5

Plotted By: glenns Plot Date: 05/05/23 - 10:51 Cad File: N:\240072\DWG\water & sewer\stage 32-wac\240037(32)-WAC-104.dwg

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(32)-WAC-204

STAGE 33 BUILT CON-CURRENTLY

STAGE 33 BUILT CON-CURRENTLY

EXTEND DN100 PIPEWORK 1.5m BEYOND LIMIT OF WORKS AND INSTALL DN100 FLUSHING HYDRANT AND STOP VALVE.

EXTEND DN100 PIPEWORK 1.5m BEYOND LIMIT OF WORKS AND INSTALL DN100 FLUSHING HYDRANT AND STOP VALVE.

3222 3223 3234 3221 3224 3233 3220 3225 3232 3219 3226 3231 3218 3227 3228 3229 3230 3217

AVENUE — DN100 PVC-M PN16

STREET — DN100 PVC-M PN16

PANKHURST — DN100 PVC-M PN16

MAHER — DN100 PVC-M PN16

JOINS DRG-202

JOINS DRG-203

STAGE 34 BUILT CON-CURRENTLY

PLAN
SCALE 1:250

DIAL 1100 BEFORE YOU DIG

WORK AS CONSTRUCTED

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COMPANY	ADWJohnson Pty Ltd	COMPANY	
NAME	MATHEW DAVID LONDON	NAME	
SIGNED		DATE 28/04/2023	SIGNED DATE ...../...../.....
	REGISTERED SURVEYOR		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

- PVC-M RECYCLED WATER RETICULATION
- RECYCLED WATER PROPERTY SERVICE
- PVC-M POTABLE WATER RETICULATION
- POTABLE WATER PROPERTY SERVICE
- PE PRESSURE SEWER RETICULATION
- PE PRESSURE SEWER PROPERTY SERVICE
- EXISTING RECYCLED WATER RETICULATION
- EXISTING POTABLE WATER RETICULATION
- EXISTING PRESSURE SEWER RETICULATION
- STORMWATER PIPEWORK
- 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
- 11.25° 22.5° HORIZONTAL BEND ANGLES IN MAIN
- PROPOSED EASEMENT
- SUBDIVISION STAGE BOUNDARY

RECYCLED WATER PROPERTY SERVICE CONNECTIONS
TOTAL 35 CONNECTIONS
- SINGLE SERVICES IN ACCORDANCE WITH WAT-1106-V
  - -17 x SHORT SIDE
  - -6 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	620
DN63	PE100 PN16	14
DN25 (LATERAL)	PE100 PN16	201

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 104.
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

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3	13.10.2022	UPDATED SERVICES LOCATIONS -LOT 3207	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	05.05.2023	WORK AS CONSTRUCTED	I.B.	S.S.	G.S.	C.B.

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

DESIGN FILE N:\240037\DWG\Water & Sewer\Stage 32 Water and Sewer\x-240037(32)-huntlee-water.dwg

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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 32
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
RECYCLED WATER DETAIL
PLAN - SHEET 1

PROJECT No. 240037(32) - DISCIPLINE WAC - NUMBER 201 REV. 5

Plotted By: glenns Plot Date: 05/05/23 - 10:51 Cad File: N:\240072\DWG\water & sewer\stage 32-wac\240037(32)-WAC-204.dwg

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.

STAGE 33 BUILT CON-CURRENTLY

EXTEND DN100 PIPEWORK 1.5m BEYOND LIMIT OF WORKS AND INSTALL DN100 FLUSHING HYDRANT AND STOP VALVE.

FL. HYD.
S.V.
TAP 172
142
154
171
170
169
144
153
HYD.
SV
S.V.
193
INSTALL WATER SERVICE TO PARK
DN100 PVC-M PN16
EX. DN100 PVC-M PN16
EX. HYD.
DN100 x DN100 REDUCING TEE (TB TYPE 1)
PULL PIPES
150
138
164
163
162
161
160
3234
3233
3232
3231
3230
3201
3202
3203
3204
3205
3030
3031
3032
3028
3029
3010
3121
3122
3123
3124
3125
3126
STREET
MAHER
LANE
JENNINGS
RIGBY DRIVE
JOINS DRG-201
JOINS DRG-204
PLAN
SCALE 1:250

DIAL1100 BEFORE YOU DIG

WORK AS CONSTRUCTED

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COMPANY	ADWJohnson Pty Ltd	COMPANY	
NAME	MATHEW DAVID LONDON	NAME	
SIGNED		DATE 28/04/2023	SIGNED DATE ...../...../.....
	REGISTERED SURVEYOR		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

- PVC-M RECYCLED WATER RETICULATION
- RECYCLED WATER PROPERTY SERVICE
- PVC-M POTABLE WATER RETICULATION
- POTABLE WATER PROPERTY SERVICE
- PE PRESSURE SEWER RETICULATION
- PE PRESSURE SEWER PROPERTY SERVICE
- EXISTING RECYCLED WATER RETICULATION
- EXISTING POTABLE WATER RETICULATION
- EXISTING PRESSURE SEWER RETICULATION
- STORMWATER PIPEWORK
- 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
- 11.25° 22.5° HORIZONTAL BEND ANGLES IN MAIN
- PROPOSED EASEMENT
- SUBDIVISION STAGE BOUNDARY

RECYCLED WATER PROPERTY SERVICE CONNECTIONS
TOTAL 35 CONNECTIONS
- SINGLE SERVICES IN ACCORDANCE WITH WAT-1106-V
  - -17 x SHORT SIDE
  - -6 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	620
DN63	PE100 PN16	14
DN25 (LATERAL)	PE100 PN16	201

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 104.
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

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3	13.10.2022	UPDATED SERVICES LOCATIONS -LOT 3207	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	05.05.2023	WORK AS CONSTRUCTED	I.B.	S.S.	G.S.	C.B.

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

DESIGN FILE N:\240037\DWG\Water & Sewer\Stage 32 Water and Sewer\x-240037(32)-huntlee-water.dwg
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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 32
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
RECYCLED WATER DETAIL
PLAN - SHEET 2

PROJECT No. 240037(32) - DISCIPLINE WAC - NUMBER 202 REV. 5

Plotted By: glenns Plot Date: 05/05/23 - 10:52 Cad File: N:\240072\DWG\water & sewer\stage 32-wac\240037(32)-WAC-204.dwg

240037(32)-WAC-204

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(32)-WAC-204

JOINS DRG-201

STAGE 34 BUILT CON-CURRENTLY

3218 3217 3216 3215 3227 3228 3229 3230 3214 3213 3212 3211 3210

AVENUE

PANKHURST

MAHER STREET

SWINTON

PARKWAY

CHEETHAM CRESCENT

DN100 PVC-M PN16

DN100 x DN100 EQUAL TEE (TB TYPE 1)

EXTEND DN100 PIPEWORK 1.5m BEYOND LIMIT OF WORKS AND INSTALL DN100 FLUSHING HYDRANT AND STOP VALVE.

11.25° 22.5°

JOINS DRG-204

PLAN
SCALE 1:250

DIAL 1100 BEFORE YOU DIG

WORK AS CONSTRUCTED

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COMPANY ADWJohnson Pty Ltd — COMPANY
NAME MATHEW DAVID LONDON — NAME
SIGNED — DATE 28/04/2023 — SIGNED — DATE ...../...../.....
REGISTERED SURVEYOR — 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

- PVC-M RECYCLED WATER RETICULATION
- RECYCLED WATER PROPERTY SERVICE
- PVC-M POTABLE WATER RETICULATION
- POTABLE WATER PROPERTY SERVICE
- PE PRESSURE SEWER RETICULATION
- PE PRESSURE SEWER PROPERTY SERVICE
- EXISTING RECYCLED WATER RETICULATION
- EXISTING POTABLE WATER RETICULATION
- EXISTING PRESSURE SEWER RETICULATION
- STORMWATER PIPEWORK
- 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
- 11.25° 22.5° HORIZONTAL BEND ANGLES IN MAIN
- PROPOSED EASEMENT
- SUBDIVISION STAGE BOUNDARY

RECYCLED WATER PROPERTY SERVICE CONNECTIONS
TOTAL 35 CONNECTIONS
- SINGLE SERVICES IN ACCORDANCE WITH WAT-1106-V
  - -17 x SHORT SIDE
  - -6 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	620
DN63	PE100 PN16	14
DN25 (LATERAL)	PE100 PN16	201

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 104.
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

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3	13.10.2022	UPDATED SERVICES LOCATIONS -LOT 3207	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	05.05.2023	WORK AS CONSTRUCTED	I.B.	S.S.	G.S.	C.B.

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

DESIGN FILE N:\240037\DWG\Water & Sewer\Stage 32 Water and Sewer\x-240037(32)-huntlee-water.dwg
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ABN 62 129 445 398

CLIENT altogether.

PROPERTY DESCRIPTION
PROPOSED SUBDIVISION
STAGE 32
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
RECYCLED WATER DETAIL
PLAN - SHEET 3

PROJECT No.	DISCIPLINE	NUMBER	REV.
240037(32)	WAC	203	5

Plotted By: glenns Plot Date: 05/05/23 - 10:52 Cad File: N:\240072\DWG\water & sewer\stage 32-wac\240037(32)-WAC-204.dwg

100mm AT FULL SIZE
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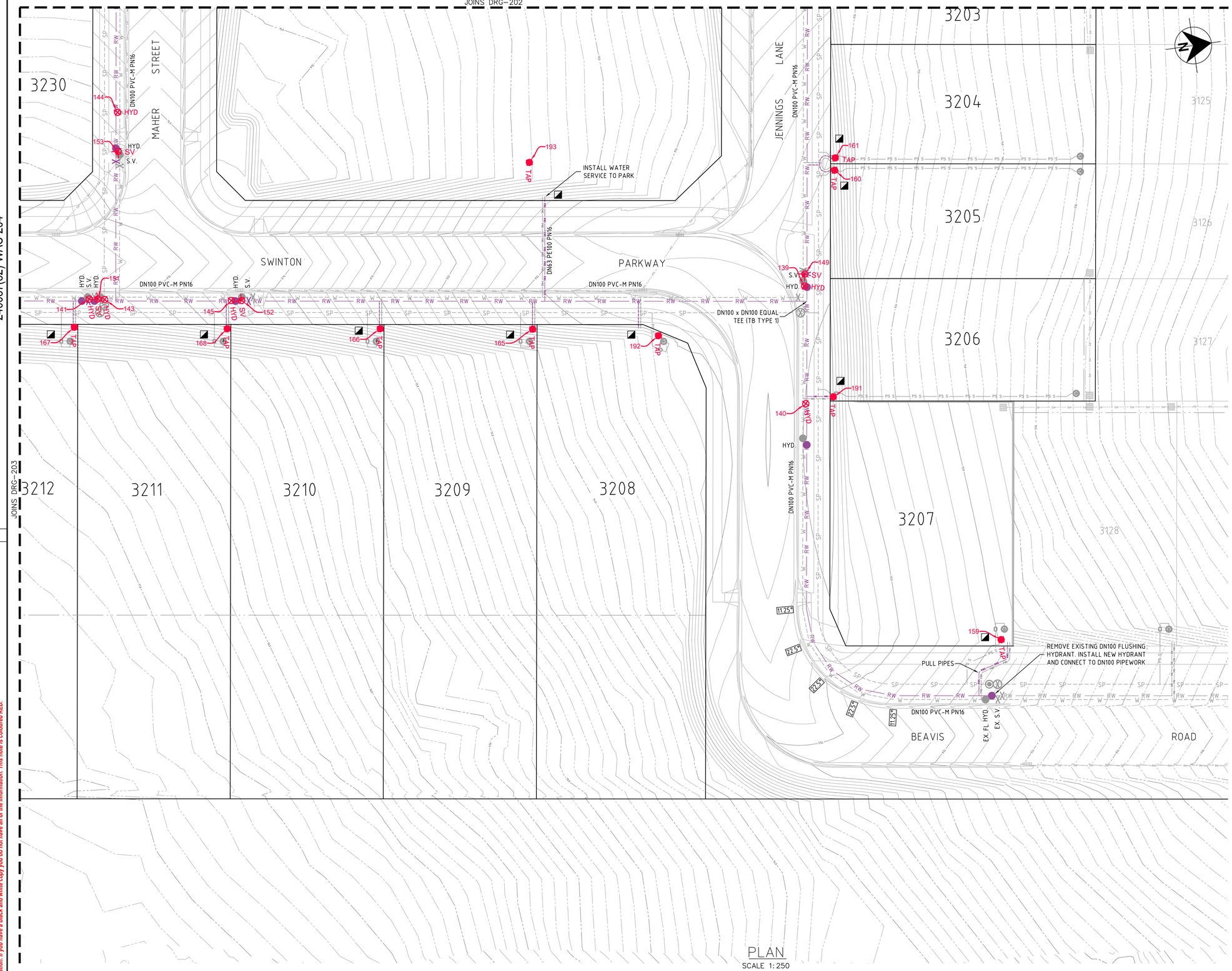

PLAN
SCALE 1:250

100mm AT FULL SIZE

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COMPANY	ADWJohnson Pty Ltd	COMPANY	
NAME	MATHEW DAVID LONDON	NAME	
SIGNED		DATE 28/04/2023	SIGNED DATE ...../...../.....
	REGISTERED SURVEYOR		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

- PVC-M RECYCLED WATER RETICULATION
- RECYCLED WATER PROPERTY SERVICE
- PVC-M POTABLE WATER RETICULATION
- POTABLE WATER PROPERTY SERVICE
- PE PRESSURE SEWER RETICULATION
- PE PRESSURE SEWER PROPERTY SERVICE
- EXISTING RECYCLED WATER RETICULATION
- EXISTING POTABLE WATER RETICULATION
- EXISTING PRESSURE SEWER RETICULATION
- STORMWATER PIPEWORK
- S.V. 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
- 11.25° 22.5° HORIZONTAL BEND ANGLES IN MAIN
- PROPOSED EASEMENT
- SUBDIVISION STAGE BOUNDARY

RECYCLED WATER PROPERTY SERVICE CONNECTIONS
TOTAL 35 CONNECTIONS
- SINGLE SERVICES IN ACCORDANCE WITH WAT-1106-V
  - -17 x SHORT SIDE
  - -6 x LONG SIDE
- SPLIT SERVICES IN ACCORDANCE WITH WAT-1107-V
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  - -2 x LONG SIDE

RECYCLED WATER PIPE DATA		
PIPE SIZE (mm)	PIPE MATERIAL	TOTAL LENGTH (m)
DN100	PVC-M PN16	620
DN63	PE100 PN16	14
DN25 (LATERAL)	PE100 PN16	201

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 104.
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APPROVED FOR CONSTRUCTION
BY ADW Johnson Pty Ltd
Date Approved:11/07/2022

CONSTRUCTION ISSUE

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4	16.01.2023	UPDATED HYD. LOCATIONS ADJACENT TO LOTS 3030/3031	G.S.	C.B.	G.S.	C.B.
5	**05.05.2023**	**WORK AS CONSTRUCTED**	**I.B.**	**S.S.**	**G.S.**	**C.B.**

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

DESIGN FILE N:\240037\DWG\Water & Sewer\Stage 32 Water and Sewer\x-240037(32)-huntlee-water.dwg
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email: hunter@adwjohnson.com.au
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ABN 62 129 445 398

CLIENT: altogether.

PROPERTY DESCRIPTION
PROPOSED SUBDIVISION
STAGE 32
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: RECYCLED WATER DETAIL PLAN - SHEET 4

PROJECT No.	DISCIPLINE	NUMBER	REV.
240037(32)	WAC	204	5

Plotted By: glenns Plot Date: 05/05/23 - 10:52 Cad File: N:\240072\DWG\water & sewer\stage 32-wac\240037(32)-WAC-204.dwg

240037(32)-WAC-304

STAGE 33 BUILT CON-CURRENTLY

STAGE 33 BUILT CON-CURRENTLY

EXTEND DN63 PIPEWORK 1.5m BEYOND LIMIT OF WORKS AND INSTALL DN63 FLUSHING POINT.

EXTEND DN63 PIPEWORK 1.5m BEYOND LIMIT OF WORKS AND INSTALL DN63 FLUSHING POINT.

STAGE 34 BUILT CON-CURRENTLY

3222 3223 3234 3221 3224 3233 3220 3225 3232 3219 3226 3231 3218 3227 3228 3229 3230 3217

AVENUE

STREET

PANKHURST

MAHER

DN63 PE100 PN16

JOINS DRG-303

JOINS DRG-302

F.P. I.V.

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		DATE 28/04/2023 SIGNED	DATE ...../...../.....
	REGISTERED SURVEYOR		CONSTRUCTION MANAGER

DIAL 1100 BEFORE YOU DIG

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

- EX PS — PE PRESSURE SEWER RETICULATION
- PS S — PS S — PE PRESSURE SEWER PROPERTY SERVICE
- W — PVC-M POTABLE WATER RETICULATION
- PWS — PWS — POTABLE WATER PROPERTY SERVICE
- RW — PVC-M RECYCLED WATER RETICULATION
- RWS — RWS — RWS — RECYCLED WATER PROPERTY SERVICE
- EX PS — EXISTING PRESSURE SEWER RETICULATION
- EX PW — EXISTING POTABLE WATER RETICULATION
- 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 34 CONNECTIONS
- SINGLE SERVICES
  - 25 x SHORT SIDE
  - 9 x LONG SIDE

PRESSURE SEWER PIPE DATA

PIPE SIZE (mm)	PIPE MATERIAL	TOTAL LENGTH (m)
DN110	PE100 SDR11	110
DN90	PE100 SDR11	96
DN75	PE100 SDR11	79
DN63	PE100 SDR11	359
DN40 (LATERAL)	PE100 SDR11	612

NOTES:
1. FOR POTABLE WATER PIPEWORK DETAIL PLANS REFER TO DRGS-101 TO 104.
2. FOR RECYCLED WATER PIPEWORK DETAIL PLANS REFER TO DRGS-201 AND 204.
3. FOR TYPICAL SERVICE CONNECTION DETAILS REFER TO DRG-402.
4. FOR FLUSHING POINT TYPICAL DETAILS REFER TO STANDARD DRAWING PSS-1017-FS.
5. FOR FLOW MONITORING POINT TYPICAL DETAILS REFER TO STANDARD DRAWING PSS-1115-FS.
6. CONTRACTOR MAY BEND POLYETHYLENE PIPEWORK IN PLACE OF USING STANDARD FITTINGS WITH A MIN. BENDING RADIUS OF 20 x PIPE DIAM.
7. 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

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
A	08.11.2021	INITIAL ISSUE	G.S.	C.B.	G.S.	C.B.
0	11.07.2022	ISSUED FOR CONSTRUCTION	G.S.	C.B.	G.S.	C.B.
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3	13.10.2022	UPDATED SERVICES LOCATIONS -LOT 3207	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	05.05.2023	WORK AS CONSTRUCTED	I.B.	S.S.	G.S.	C.B.

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

DESIGN FILE N:\240037\DWG\Water & Sewer\Stage 32 Water and Sewer\x-240037(32)-huntlee-water.dwg
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: altogether.

PROPERTY DESCRIPTION
PROPOSED SUBDIVISION
STAGE 32
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(32) - DISCIPLINE WAC - NUMBER 301 REV. 5

Plotted By: glenns Plot Date: 05/05/23 - 10:52 Cad File: N:\240072\DWG\water & sewer\stage 32-wac\240037(32)-WAC-304.dwg

240037(32)-WAC-304

STAGE 33 BUILT CON-CURRENTLY

EXTEND DN63 PIPEWORK 1.5m BEYOND LIMIT OF WORKS AND INSTALL DN63 FLUSHING POINT.

REPLACE EXISTING END-OF-LINE FLUSHING POINT WITH IN-LINE FLUSHING POINT AND CONNECT TO EXISTING PIPEWORK.

EX. I.V.
EX. F.P.

PULL PIPES

PULL PIPES

F.P.
I.V.

STREET

RIGBY DRIVE

LANE

MAHER

JENNINGS

DN63 PE100 PN16

DN110 PE100 PN16

3234
3233
3232
3231
3230
3201
3202
3203
3204
3205
3028
3029
3030
3031
3032
3122
3123
3124
3125
3126

JOINS DRG-301

JOINS DRG-304

PLAN
SCALE 1:250

WORK AS CONSTRUCTED

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COMPANY	ADWJohnson Pty Ltd	COMPANY	
NAME	MATHEW DAVID LONDON	NAME	
SIGNED		DATE 28/04/2023	SIGNED DATE ...../...../.....
	REGISTERED SURVEYOR		CONSTRUCTION MANAGER

DIAL1100 BEFORE YOU DIG

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

- EX PS — PE PRESSURE SEWER RETICULATION
- PS S — PS S — PE PRESSURE SEWER PROPERTY SERVICE
- W — PVC-M POTABLE WATER RETICULATION
- PWS — PWS — POTABLE WATER PROPERTY SERVICE
- PVC-M RECYCLED WATER RETICULATION
- RWS — 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 34 CONNECTIONS
- SINGLE SERVICES
  - 25 x SHORT SIDE
  - 9 x LONG SIDE

PRESSURE SEWER PIPE DATA

PIPE SIZE (mm)	PIPE MATERIAL	TOTAL LENGTH (m)
DN110	PE100 SDR11	110
DN90	PE100 SDR11	96
DN75	PE100 SDR11	79
DN63	PE100 SDR11	359
DN40 (LATERAL)	PE100 SDR11	612

NOTES:
1. FOR POTABLE WATER PIPEWORK DETAIL PLANS REFER TO DRGS-101 TO 104.
2. FOR RECYCLED WATER PIPEWORK DETAIL PLANS REFER TO DRGS-201 AND 204.
3. FOR TYPICAL SERVICE CONNECTION DETAILS REFER TO DRG-402.
4. FOR FLUSHING POINT TYPICAL DETAILS REFER TO STANDARD DRAWING PSS-1017-FS.
5. FOR FLOW MONITORING POINT TYPICAL DETAILS REFER TO STANDARD DRAWING PSS-1115-FS.
6. CONTRACTOR MAY BEND POLYETHYLENE PIPEWORK IN PLACE OF USING STANDARD FITTINGS WITH A MIN. BENDING RADIUS OF 20 x PIPE DIAM.
7. 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

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3	13.10.2022	UPDATED SERVICES LOCATIONS -LOT 3207	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	05.05.2023	WORK AS CONSTRUCTED	I.B.	S.S.	G.S.	C.B.

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

DESIGN FILE N:\240037\DWG\Water & Sewer\Stage 32 Water and Sewer\x-240037(32)-huntlee-water.dwg

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

adw johnson
Hunter Office
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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 32
HUNTLEE

PROJECT: POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION

PLAN TITLE: PRESSURE SEWER DETAIL PLAN - SHEET 2

SURVEYED	DATUM	PROJECT No.	DISCIPLINE	NUMBER	REV.
Daly.Smith Pty Ltd	GDA94 M.G.A. ZONE 56 A.H.D.	240037(32)	WAC	302	5

Plotted By: glenns Plot Date: 05/05/23 - 10:52 Cad File: N:\240072\DWG\water & sewer\stage 32-wac\240037(32)-WAC-304.dwg

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(32)-WAC-304

JOINS DRG-301

STAGE 34 BUILT CON-CURRENTLY

3218 3217 3216 3215 3227 3228 3229 3230 3214 3213 3212 3211 3210

AVENUE PANKHURST STREET MAHER SWINTON PARKWAY CHEETHAM CRESCENT

DN63 PE100 PN16 DN75 PE100 PN16 DN90 PE100 PN16

DN90 x DN75 PE100 SDR11 REDUCER

DN90 x DN63 PE100 SDR11 LONG SPIGOT REDUCING TEE

BELOW GROUND AIR VALVE AND FILTER IN ACCORDANCE WITH PSS 1016B-FS FOR PRESSURE MAINS DN63

EXTEND DN63 PIPEWORK 1.5m BEYOND LIMIT OF WORKS AND INSTALL DN63 FLUSHING POINT.

PULL PIPES

JOINS DRG-304

WORK AS CONSTRUCTED

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COMPANY ADWJohnson Pty Ltd — COMPANY
NAME MATHEW DAVID LONDON — NAME
SIGNED — DATE 28/04/2023 — SIGNED — DATE ...../...../.....
REGISTERED SURVEYOR — CONSTRUCTION MANAGER

DIAL1100 BEFORE YOU DIG

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

- EX PS — PE PRESSURE SEWER RETICULATION
- PS S — PS S — PE PRESSURE SEWER PROPERTY SERVICE
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- PWS — PWS — POTABLE WATER PROPERTY SERVICE
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- EX PS — EXISTING PRESSURE SEWER RETICULATION
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- I.V. — ISOLATION VALVE
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- 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 34 CONNECTIONS
• SINGLE SERVICES
-25 x SHORT SIDE
-9 x LONG SIDE

PRESSURE SEWER PIPE DATA		
PIPE SIZE (mm)	PIPE MATERIAL	TOTAL LENGTH (m)
DN110	PE100 SDR11	110
DN90	PE100 SDR11	96
DN75	PE100 SDR11	79
DN63	PE100 SDR11	359
DN40 (LATERAL)	PE100 SDR11	612

NOTES:
1. FOR POTABLE WATER PIPEWORK DETAIL PLANS REFER TO DRGS-101 TO 104.
2. FOR RECYCLED WATER PIPEWORK DETAIL PLANS REFER TO DRGS-201 AND 204.
3. FOR TYPICAL SERVICE CONNECTION DETAILS REFER TO DRG-402.
4. FOR FLUSHING POINT TYPICAL DETAILS REFER TO STANDARD DRAWING PSS-1017-FS.
5. FOR FLOW MONITORING POINT TYPICAL DETAILS REFER TO STANDARD DRAWING PSS-1115-FS.
6. CONTRACTOR MAY BEND POLYETHYLENE PIPEWORK IN PLACE OF USING STANDARD FITTINGS WITH A MIN. BENDING RADIUS OF 20 x PIPE DIAM.
7. 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

100mm AT FULL SIZE

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4	16.01.2023	UPDATED HYD. LOCATIONS ADJACENT TO LOTS 3030/3031	G.S.	C.B.	G.S.	C.B.
5	**05.05.2023**	**WORK AS CONSTRUCTED**	**I.B.**	**S.S.**	**G.S.**	**C.B.**

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

DESIGN FILE N:\240037\DWG\Water & Sewer\Stage 32 Water and Sewer\x-240037(32)-huntlee-water.dwg

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adw johnson
Hunter Office
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ABN 62 129 445 398

CLIENT altogether.

PROPERTY DESCRIPTION
PROPOSED SUBDIVISION
STAGE 32
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 3

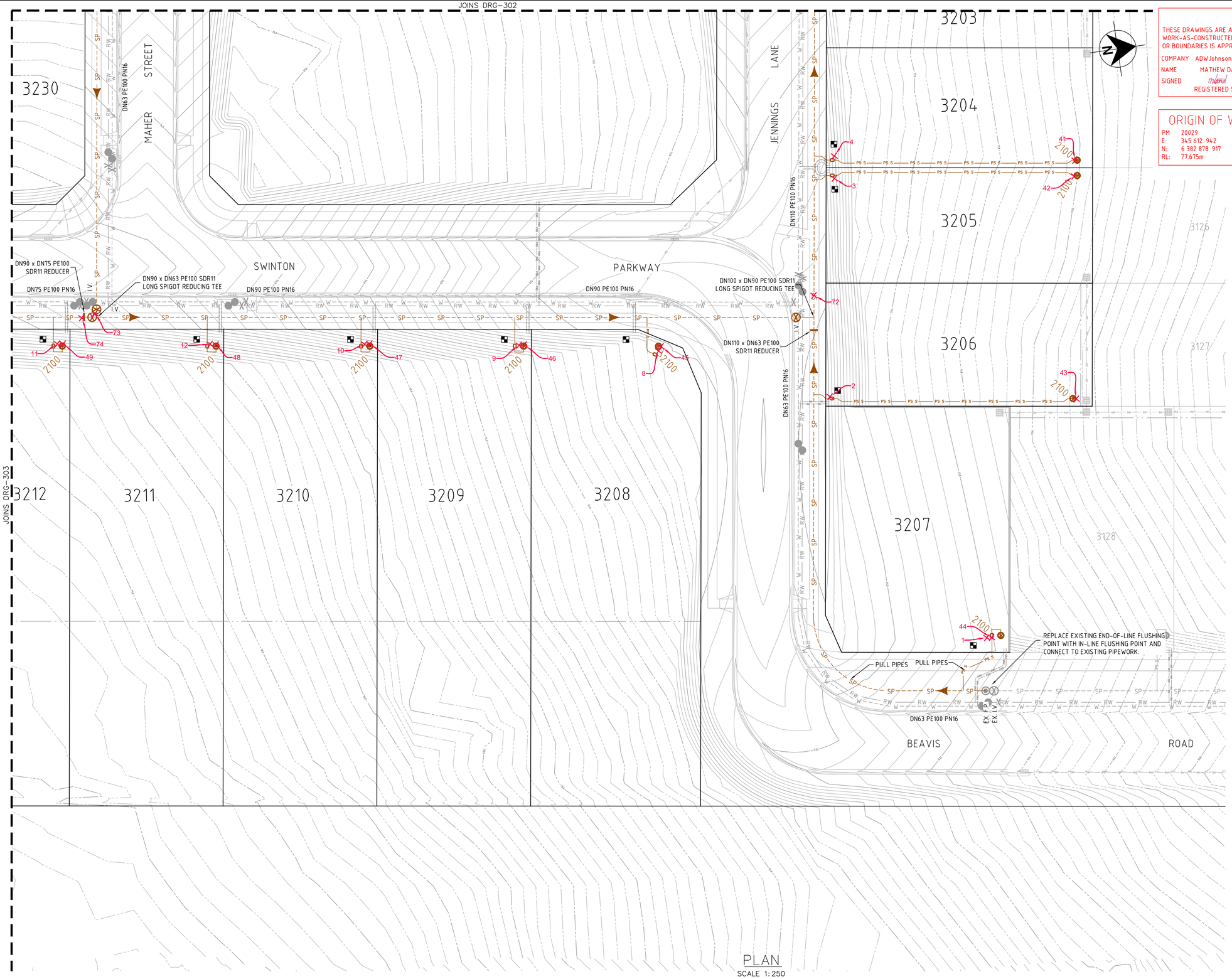
PROJECT No.		DISCIPLINE		NUMBER	REV.
240037(32)	-	WAC	-	303	5

Plotted By: glenns Plot Date: 05/05/23 - 10:52 Cad File: N:\240072\DWG\water & sewer\stage 32-wac\240037(32)-WAC-304.dwg

240037(32)-WAC-304

JOINS DRG-302

JOINS DRG-303



PLAN
SCALE 1:250

WORK AS CONSTRUCTED

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COMPANY	ADWJohnson Pty Ltd	COMPANY	
NAME	MATHEW DAVID LONDON	NAME	
SIGNED		DATE 28/04/2023	SIGNED DATE ...../...../.....
	REGISTERED SURVEYOR		CONSTRUCTION MANAGER

DIAL1100 BEFORE YOU DIG

ORIGIN OF W.A.C. LEVELS

PM 20029
E: 345 612. 942
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RL: 77.675m

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

LEGEND

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- PROPOSED EASEMENT
- SUBDIVISION STAGE BOUNDARY

PRESSURE SEWER PROPERTY SERVICE CONNECTIONS
TOTAL 34 CONNECTIONS
- SINGLE SERVICES
  - -25 x SHORT SIDE
  - -9 x LONG SIDE

PRESSURE SEWER PIPE DATA		
PIPE SIZE (mm)	PIPE MATERIAL	TOTAL LENGTH (m)
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DN40 (LATERAL)	PE100 SDR11	612

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

CONSTRUCTION ISSUE

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5	05.05.2023	WORK AS CONSTRUCTED	I.B.	S.S.	G.S.	C.B.

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

DESIGN FILE N:\240037\DWG\Water & Sewer\Stage 32 Water and Sewer\x-240037(32)-huntlee-water.dwg
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adw johnson
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ABN 62 129 445 398

CLIENT: altogether.

PROPERTY DESCRIPTION
PROPOSED SUBDIVISION
STAGE 32
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(32)	WAC	304	5

100mm AT FULL SIZE

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Plotted By: glenns Plot Date: 05/05/23 - 10:52 Cad File: N:\240072\DWG\water & sewer\stage 32-wac\240037(32)-WAC-304.dwg

240037(32)-WAC-305

100mm AT FULL SIZE

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Point Table				
Point #	Eastings	Northings	Levels	Codes
1	347040.94	6382500.42	72.13	seBDYKIT
2	347006.98	6382484.79	73.05	seBDYKIT
3	346978.98	6382489.46	72.73	seBDYKIT
4	346976.10	6382489.86	72.72	seBDYKIT
5	346948.21	6382493.90	72.00	seBDYKIT
6	346945.30	6382494.39	72.02	seBDYKIT
7	346919.06	6382498.11	71.28	seBDYKIT
8	346997.89	6382463.59	73.26	seBDYKIT
9	346994.51	6382445.74	73.91	seBDYKIT
10	346991.48	6382425.89	74.87	seBDYKIT
11	346985.64	6382386.36	76.11	seBDYKIT
12	346988.56	6382406.01	75.60	seBDYKIT
13	346920.24	6382397.64	73.89	seBDYKIT
14	346902.40	6382400.43	73.59	seBDYKIT
15	346885.61	6382402.78	73.07	seBDYKIT
16	346879.54	6382424.15	73.16	seBDYKIT
17	346860.26	6382345.44	72.22	seBDYKIT
18	346857.72	6382325.18	72.37	seBDYKIT
19	346875.64	6382323.14	73.44	seBDYKIT
20	346876.98	6382343.22	73.24	seBDYKIT
21	346893.78	6382340.98	74.21	seBDYKIT
22	346911.47	6382338.29	74.82	seBDYKIT
23	346892.51	6382320.75	74.23	seBDYKIT
24	346910.35	6382318.14	75.08	seBDYKIT
25	346927.48	6382316.62	75.72	seBDYKIT
26	346961.86	6382311.50	76.28	seBDYKIT
27	346963.83	6382311.36	76.29	seBDYKIT
28	347010.04	6382288.90	75.02	seBDYKIT
29	346977.98	6382330.16	76.51	seBDYKIT
30	346982.90	6382366.40	76.33	seBDYKIT
31	346965.03	6382376.75	75.99	seBDYKIT
32	346964.76	6382374.77	76.00	seBDYKIT
33	346960.74	6382347.02	76.09	seBDYKIT
34	346960.44	6382345.37	76.14	seBDYKIT
35	346872.66	6382408.62	72.34	seFP
36	346853.22	6382329.50	72.09	seFP
37	347012.75	6382283.35	74.45	seFP
38	346921.53	6382529.48	70.10	seSPT3201
39	346950.28	6382525.18	70.54	seSPT3202
40	346952.30	6382524.86	70.54	seSPT3203
41	346981.19	6382520.76	70.67	seSPT3204
42	346983.18	6382520.37	70.67	seSPT3205
43	347011.92	6382516.43	70.36	seSPT3206
44	347041.02	6382501.06	72.10	seSPT3207
45	346997.36	6382463.98	73.31	seSPT3208
46	346994.55	6382446.41	73.94	seSPT3209
47	346991.53	6382426.56	74.92	seSPT3210
48	346988.74	6382406.77	75.65	seSPT3211
49	346985.76	6382387.09	76.16	seSPT3212
50	346983.04	6382367.10	76.36	seSPT3213
51	346977.38	6382329.76	76.58	seSPT3214
52	347009.93	6382288.19	75.00	seSPT3215
53	346959.16	6382283.00	74.46	seSPT3216
54	346957.61	6382283.24	74.45	seSPT3217
55	346923.32	6382288.21	74.73	seSPT3218

Point Table				
Point #	Eastings	Northings	Levels	Codes
56	346909.62	6382318.21	75.07	seSPT3219
57	346891.84	6382320.81	74.22	seSPT3220
58	346874.91	6382323.26	73.45	seSPT3221
59	346857.00	6382325.29	72.40	seSPT3222
60	346859.60	6382345.60	72.33	seSPT3223
61	346876.26	6382343.35	73.24	seSPT3224
62	346893.04	6382341.07	74.21	seSPT3225
63	346910.80	6382338.42	74.84	seSPT3226
64	346932.11	6382349.41	75.38	seSPT3227
65	346932.49	6382351.37	75.37	seSPT3228
66	346936.56	6382379.01	75.13	seSPT3229
67	346936.79	6382381.05	75.12	seSPT3230
68	346919.57	6382397.63	73.92	seSPT3231
69	346901.74	6382400.41	73.60	seSPT3232
70	346884.94	6382402.79	73.08	seSPT3233
71	346878.78	6382424.27	73.19	seSPT3234
72	346993.66	6382484.62	72.94	seSV
73	346982.46	6382391.77	75.45	seSV
74	346982.76	6382389.98	75.50	seSV
75	346854.93	6382330.05	72.19	seSV
76	346970.44	6382313.17	76.30	seSV
77	346971.33	6382313.08	76.30	seSV
78	346984.90	6382310.14	76.35	seSV
79	347013.26	6382285.98	74.75	seSV
80	346917.88	6382493.68	70.84	waHYD
81	346992.74	6382482.49	72.96	waHYD
82	347007.94	6382480.44	73.00	waHYD
83	346983.30	6382408.62	74.85	waHYD
84	346980.86	6382392.26	75.29	waHYD
85	346980.50	6382390.23	75.40	waHYD
86	346957.38	6382397.88	74.51	waHYD
87	346884.28	6382408.32	72.55	waHYD
88	346900.45	6382325.21	74.53	waHYD
89	347018.58	6382285.42	74.50	waHYD
90	346978.05	6382313.78	76.29	waHYD
91	346968.57	6382315.19	76.24	waHYD
92	346916.83	6382493.81	70.82	waSV
93	346993.82	6382482.06	72.90	waSV
94	346991.80	6382482.78	72.93	waSV
95	346983.58	6382410.02	74.79	waSV
96	346980.65	6382391.32	75.36	waSV
97	346962.44	6382397.16	74.63	waSV
98	346885.64	6382408.13	72.59	waSV
99	347018.81	6382286.52	74.52	waSV
100	346855.23	6382331.77	72.14	waSV
101	346967.36	6382315.38	76.20	waSV
102	346976.74	6382313.92	76.30	waSV
103	346858.51	6382344.48	72.16	waTAP
104	346857.02	6382327.57	72.24	waTAP
105	346874.45	6382324.63	73.31	waTAP
106	346875.13	6382342.28	73.14	waTAP
107	346893.79	6382339.55	74.10	waTAP
108	346909.91	6382337.06	74.72	waTAP
109	346891.46	6382322.33	74.09	waTAP
110	346909.18	6382319.70	74.92	waTAP

Point Table				
Point #	Eastings	Northings	Levels	Codes
111	346926.85	6382317.13	75.56	waTAP
112	346919.12	6382399.21	73.50	waTAP
113	346901.40	6382401.86	73.15	waTAP
114	346884.41	6382404.36	72.67	waTAP
115	346877.78	6382422.99	72.67	waTAP
116	347042.32	6382501.92	71.77	waTAP
117	346978.06	6382489.06	72.62	waTAP
118	346977.10	6382489.25	72.60	waTAP
119	346947.20	6382493.59	71.87	waTAP
120	346946.16	6382493.85	71.84	waTAP
121	346919.58	6382498.06	71.14	waTAP
122	346993.23	6382447.21	73.43	waTAP
123	346990.28	6382427.50	74.32	waTAP
124	346984.35	6382387.99	75.52	waTAP
125	346987.40	6382407.74	74.98	waTAP
126	346962.63	6382311.71	76.20	waTAP
127	346963.18	6382311.61	76.19	waTAP
128	347011.52	6382288.49	74.91	waTAP
129	346977.41	6382331.15	76.35	waTAP
130	346981.78	6382368.25	75.80	waTAP
131	346965.13	6382376.03	75.86	waTAP
132	346965.07	6382375.31	75.84	waTAP
133	346960.92	6382346.42	76.05	waTAP
134	346960.77	6382345.83	76.03	waTAP
135	347007.88	6382484.48	72.91	waTAP
136	346996.39	6382462.92	73.08	waTAP
137	346971.53	6382449.87	73.44	waTAP
138	346917.93	6382494.24	70.86	waHYDR
139	346992.78	6382482.93	72.92	waHYDR
140	347008.00	6382480.86	72.99	waHYDR
141	346980.93	6382390.21	75.42	waHYDR
142	346884.02	6382407.92	72.53	waHYDR
143	346981.28	6382392.20	75.31	waHYDR
144	346957.32	6382397.41	74.54	waHYDR
145	346983.80	6382408.56	74.88	waHYDR
146	346968.41	6382314.74	76.22	waHYDR
147	346977.98	6382313.33	76.30	waHYDR
148	347018.17	6382285.36	74.49	waHYDR
149	346991.22	6382483.18	72.91	waSVR
150	346917.07	6382494.25	70.82	waSVR
151	346981.09	6382391.32	75.34	waSVR
152	346984.01	6382409.89	74.80	waSVR
153	346962.39	6382396.75	74.64	waSVR
154	346885.09	6382407.71	72.58	waSVR
155	346967.19	6382315.02	76.22	waSVR
156	346977.24	6382313.40	76.25	waSVR
157	347018.28	6382286.09	74.50	waSVR
158	346855.21	6382331.27	72.13	waSVR
159	347042.22	6382501.65	71.81	waTAPR
160	346978.37	6382489.00	72.61	waTAPR
161	346976.76	6382489.32	72.61	waTAPR
162	346947.42	6382493.57	71.89	waTAPR
163	346945.86	6382493.90	71.85	waTAPR
164	346919.87	6382498.01	71.15	waTAPR
165	346993.22	6382446.97	73.44	waTAPR

Point Table				
Point #	Eastings	Northings	Levels	Codes
166	346990.27	6382427.27	74.35	waTAPR
167	346984.30	6382387.76	75.51	waTAPR
168	346987.38	6382407.49	74.98	waTAPR
169	346919.41	6382399.18	73.53	waTAPR
170	346901.66	6382401.82	73.12	waTAPR
171	346884.74	6382404.32	72.63	waTAPR
172	346878.12	6382422.91	72.73	waTAPR
173	346858.85	6382344.42	72.17	waTAPR
174	346857.24	6382327.50	72.24	waTAPR
175	346874.78	6382324.56	73.37	waTAPR
176	346875.34	6382342.24	73.17	waTAPR
177	346894.05	6382339.53	74.17	waTAPR
178	346910.17	6382337.00	74.74	waTAPR
179	346891.68	6382322.30	74.12	waTAPR
180	346909.46	6382319.65	74.93	waTAPR
181	346927.14	6382317.07	75.57	waTAPR
182	346963.47	6382311.55	76.18	waTAPR
183	346962.31	6382311.67	76.19	waTAPR
184	347011.52	6382288.78	74.90	waTAPR
185	346977.49	6382330.86	76.39	waTAPR
186	346981.74	6382367.89	75.83	waTAPR
187	346965.20	6382376.35	75.87	waTAPR
188	346965.00	6382375.05	75.84	waTAPR
189	346960.95	6382346.65	76.05	waTAPR
190	346960.72	6382345.62	76.06	waTAPR
191	347007.65	6382484.54	72.90	waTAPR
192	346996.43	6382463.10	73.07	waTAPR
193	346971.59	6382449.69	73.44	waTAPR

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 ADWJohnson Pty Ltd — COMPANY

NAME MATHEW DAVID LONDON — NAME

SIGNED — DATE 28/04/2023 — SIGNED — DATE ...../...../.....

REGISTERED SURVEYOR — 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

REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY
A	08.11.2021	INITIAL ISSUE	G.S.	C.B.	G.S.	C.B.
0	11.07.2022	ISSUED FOR CONSTRUCTION	G.S.	C.B.	G.S.	C.B.
1	15.07.2022	UPDATED WATER PIPE DATA TABLES	G.S.	C.B.	G.S.	C.B.
2	28.09.2022	UPDATED SERVICES AND HYDRANT LOCATIONS	G.S.	C.B.	G.S.	C.B.
3	13.10.2022	UPDATED SERVICES LOCATIONS –LOT 3207	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	05.05.2023	WORK AS CONSTRUCTED	I.B.	S.S.	G.S.	C.B.

SCALES

0 0.1 0.2 0.3 0.4 A1 / A3
1:10 / 1:20

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

DESIGN FILE N:\240037\DWG\Water & Sewer\Stage 32 Water and Sewer\x-240037(32)-huntlee-water.dwg

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 32
HUNTLEE

PROJECT POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION

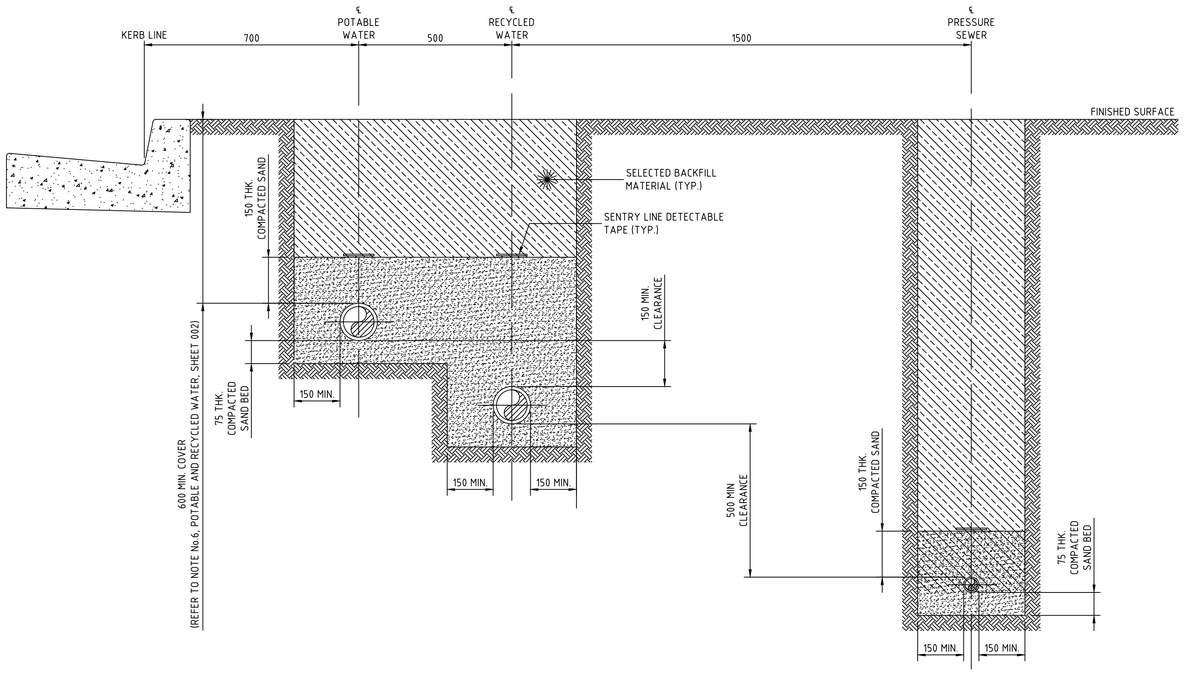
PLAN TITLE

FITTINGS TABLE

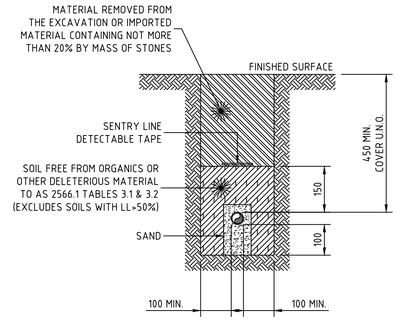
SURVEYED	DATUM	PROJECT No.	DISCIPLINE	NUMBER	REV.
Daly.Smith Pty Ltd	GDA94 M.G.A. ZONE 56 A.H.D.	240037(32)	WAC	305	5

Plotted By: glenns Plot Date: 05/05/23 – 10:53 Cad File: N:\240072\DWG\water & sewer\stage 32–wac\240037(32)–WAC–305.dwg

240037(32)-WAC-401



STREET PRESSURE MAIN
TYPICAL DETAIL
SCALE 1:10



PRIVATE PROPERTY PRESSURE MAIN
TYPICAL DETAIL
SCALE 1:10

NOTES:

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

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	ADWJohnson Pty Ltd	COMPANY	
NAME	MATHEW DAVID LONDON	NAME	
SIGNED		DATE 28/04/2023 SIGNED	DATE ...../...../.....
	REGISTERED SURVEYOR		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

REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY
A	08.11.2021	INITIAL ISSUE	G.S.	C.B.	G.S.	C.B.
0	11.07.2022	ISSUED FOR CONSTRUCTION	G.S.	C.B.	G.S.	C.B.
1	15.07.2022	UPDATED WATER PIPE DATA TABLES	G.S.	C.B.	G.S.	C.B.
2	28.09.2022	UPDATED SERVICES AND HYDRANT LOCATIONS	G.S.	C.B.	G.S.	C.B.
3	13.10.2022	UPDATED SERVICES LOCATIONS –LOT 3207	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	05.05.2023	WORK AS CONSTRUCTED	I.B.	S.S.	G.S.	C.B.

SCALES: 0 0.1 0.2 0.3 0.4 A1 / A3 1:10 / 1:20

DESIGN FILE N:\240037\DWG\Water & Sewer\Stage 32 Water and Sewer\x-240037(32)-huntlee-water.dwg

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: altogether.

PROPERTY DESCRIPTION: PROPOSED SUBDIVISION STAGE 32 HUNTLEE

PROJECT: POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION

PLAN TITLE: TYPICAL PIPEWORK TRENCHING DETAIL

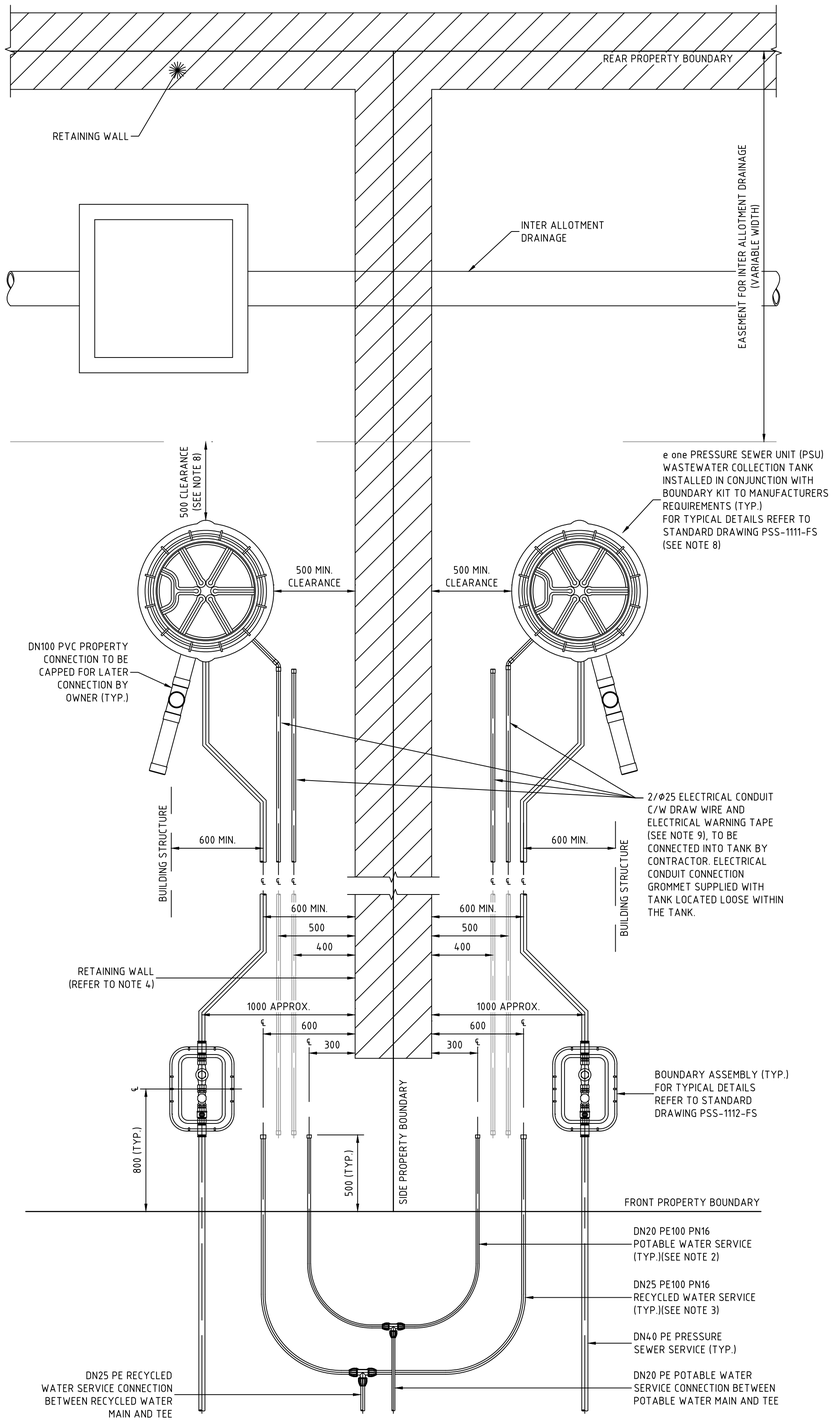
SURVEYED	DATUM	PROJECT No.	DISCIPLINE	NUMBER	REV.
Daly.Smith Pty Ltd	GDA94 M.G.A. ZONE 56 A.H.D.	240037(32)	WAC	401	5

Plotted By: glenns Plot Date: 05/05/23 – 10:53 Cad File: N:\240072\DWG\water & sewer\stage 32-wac\240037(32)-WAC-401.dwg

100mm AT FULL SIZE

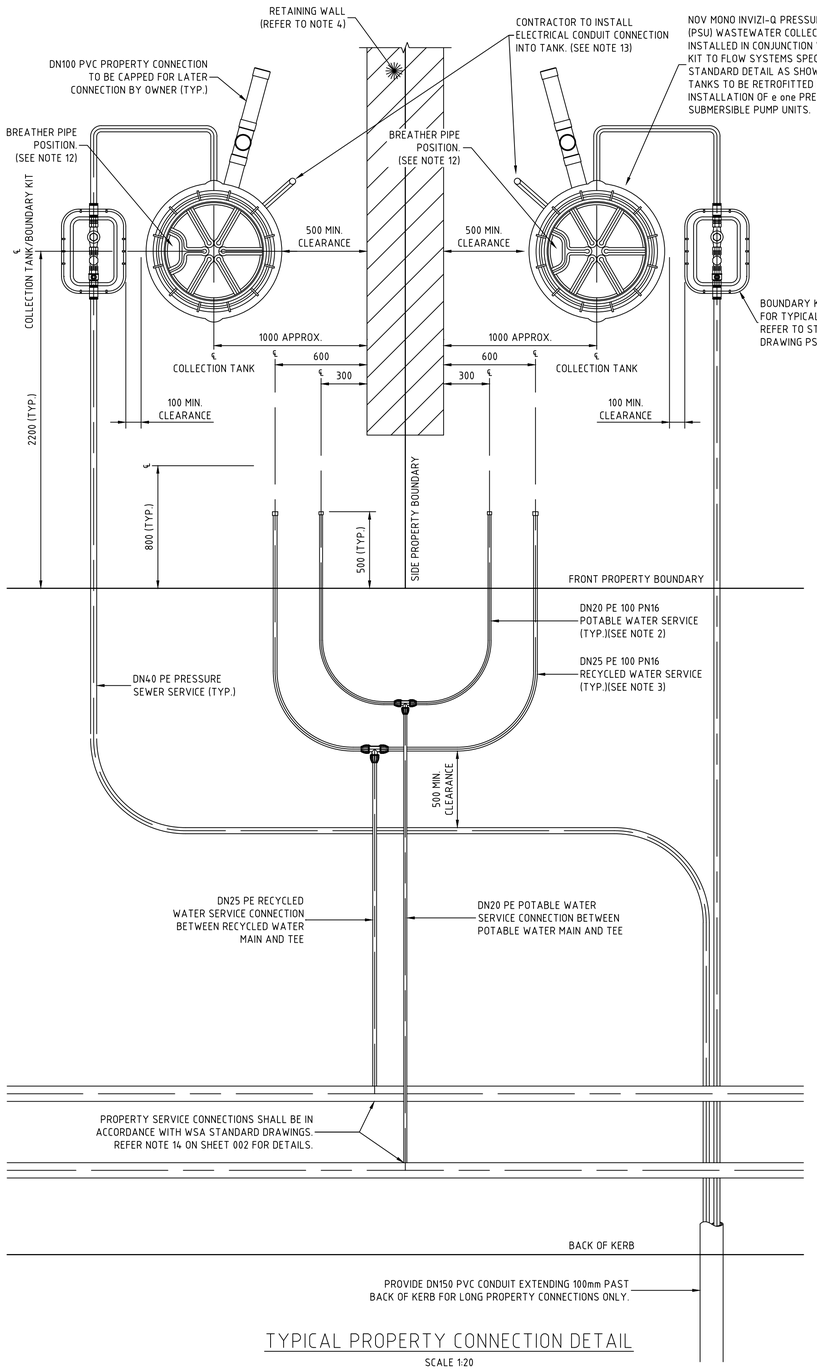
This plan includes coloured information. If you have a black and white copy you do not have all of the information. This note is coloured RED.

240037(32)-WAC-402



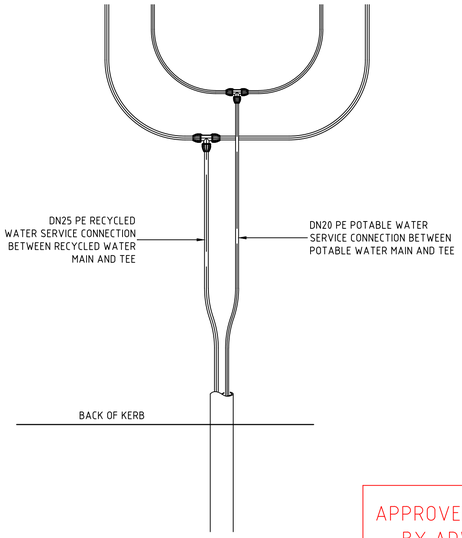
TYPICAL PROPERTY CONNECTION DETAIL (PRESSURE SEWER UNIT AT REAR)

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	ADWJohnson Pty Ltd	COMPANY	
NAME	MATHEW DAVID LONDON	NAME	
SIGNED	DATE 28/04/2023	SIGNED	DATE ...../...../.....
	REGISTERED SURVEYOR		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

DIAL1100 BEFORE YOU DIG

NOTES:

1. PROPERTY SERVICE CONNECTIONS SHALL BE IN ACCORDANCE WITH WSA STANDARD DRAWINGS FOR DUAL WATER SUPPLY SYSTEMS (SYDNEY WATER VERSION)(SUPPLEMENT TO WSA 03-2011).
2. DN20 PE100 PN16 POTABLE WATER SERVICE TO EXTEND 500mm BEYOND PROPERTY BOUNDARY AND BE CAPPED FOR LATER CONNECTION BY PROPERTY OWNER.
3. DN25 PE100 PN16 RECYCLED WATER SERVICE TO EXTEND 500mm BEYOND PROPERTY BOUNDARY AND BE CAPPED FOR LATER CONNECTION BY PROPERTY OWNER.
4. FOR PROPERTY CONNECTIONS WHERE A RETAINING WALL IS NOT PRESENT, SERVICES ARE TO BE OFFSET FROM THE PROPERTY BOUNDARY.
5. 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.
6. MINIMUM BENDING RADIUS FOR PE PIPEWORK IS TO BE 20 x PIPE DIAMETER.
7. ALL POLYETHYLENE FITTINGS SHALL BE JOINED USING ELECTROFUSION JOINTING TECHNIQUES IN ACCORDANCE WITH MANUFACTURERS REQUIREMENTS. ROTATE BENDS AS NECESSARY.
8. PRESSURE SEWER UNIT (PSU) IS TO HAVE 2150mm CLEARANCE FROM BUILDING STRUCTURES.
9. Φ25 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.
10. FOR MORE INFORMATION REFER TO FLOW SYSTEMS STANDARD DRAWING FSI-1000-FS.
11. 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.
12. POSITION TANK LID SUCH THAT BREATHER PIPE LOCATION IS ON THE DOWNSLOPE SIDE OF THE BLOCK WHERE POSSIBLE.
13. CONTRACTOR TO INSTALL ELECTRICAL CONDUIT CONNECTION. ELECTRICAL GROMMET SUPPLIED WITH TANK AND LOCATED LOOSE WITHIN TANK. Φ25 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
A	08.11.2021	INITIAL ISSUE	G.S.	C.B.	G.S.	C.B.
0	11.07.2022	ISSUED FOR CONSTRUCTION	G.S.	C.B.	G.S.	C.B.
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2	28.09.2022	UPDATED SERVICES AND HYDRANT LOCATIONS	G.S.	C.B.	G.S.	C.B.
3	13.10.2022	UPDATED SERVICES LOCATIONS –LOT 3207	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	05.05.2023	WORK AS CONSTRUCTED	I.B.	S.S.	G.S.	C.B.

SCALES: 0 0.1 0.2 0.3 0.4 A1 / A3 1:10 / 1:20

DESIGN FILE N:\240037\DWG\Water & Sewer\Stage 32 Water and Sewer\x-240037(32)-huntlee-water.dwg

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

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Warners Bay N.S.W. 2282
Phone: (02) 4978 5100
Fax: (02) 4978 5199
email: hunter@adwjohnson.com.au
www.adwjohnson.com.au
ABN 62 129 445 398

CLIENT: altogether.

PROPERTY DESCRIPTION: PROPOSED SUBDIVISION STAGE 32 HUNTLEE

PROJECT: POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION

PLAN TITLE: TYPICAL PROPERTY CONNECTION DETAILS

SURVEYED	DATUM	PROJECT No.	DISCIPLINE	NUMBER	REV.
Daly.Smith Pty Ltd	GDA94 M.G.A. ZONE 56 A.H.D.	240037(32)	WAC	402	5

Plotted By: glenns Plot Date: 05/05/23 – 10:53 Cad File: N:\240072\DWG\water & sewer\stage 32-wac\240037(32)-WAC-402.dwg

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(32)-WAC-403

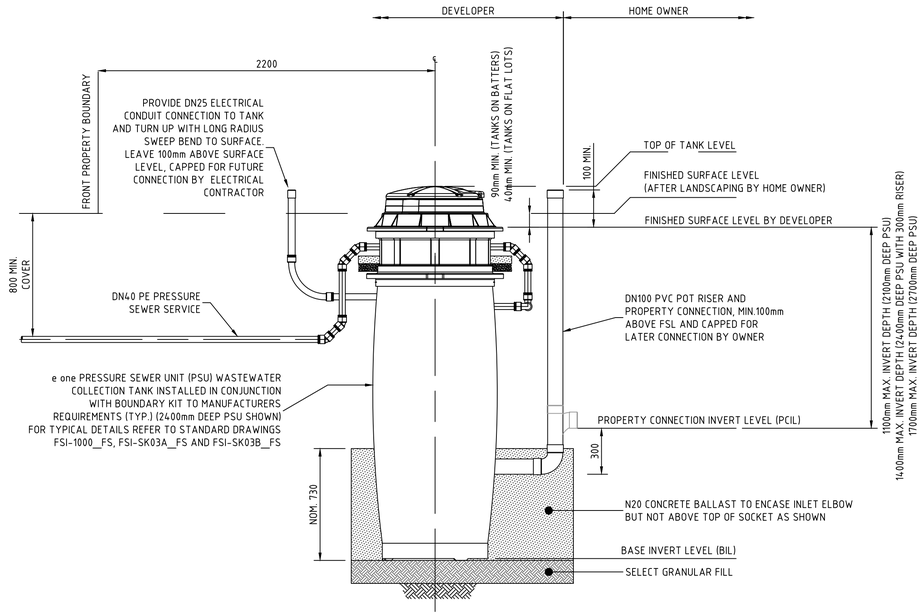
DIAL1100
BEFORE YOU DIG

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
3201	70.30	70.17	68.17	69.07	2100	REAR	346922.57	6382529.21	70.10	68.79	-0.28
3202	70.51	70.38	68.38	69.28	2100	REAR	346950.27	6382525.11	70.54	69.23	-0.05
3203	70.52	70.39	68.39	69.29	2100	REAR	346952.24	6382524.82	70.54	69.22	-0.07
3204	70.65	70.52	68.52	69.42	2100	REAR	346981.20	6382521.04	70.67	69.36	-0.06
3205	70.64	70.51	68.51	69.41	2100	REAR	346983.18	6382520.75	70.67	69.35	-0.06
3206	70.31	70.18	68.18	69.08	2100	REAR	347011.80	6382516.02	70.36	69.04	-0.04
3207	72.09	71.96	69.96	70.86	2100	FRONT	347040.91	6382502.27	72.10	70.79	-0.07
3208	73.30	73.17	71.17	72.07	2100	FRONT BATTER	346997.27	6382463.67	73.31	71.99	-0.08
3209	73.93	73.80	71.80	72.70	2100	FRONT BATTER	346994.72	6382446.32	73.94	72.63	-0.07
3210	74.85	74.72	72.72	73.62	2100	FRONT BATTER	346991.82	6382426.53	74.92	73.60	-0.02
3211	75.64	75.51	73.51	74.41	2100	FRONT BATTER	346988.92	6382406.74	75.65	74.34	-0.07
3212	76.17	76.04	74.04	74.94	2100	FRONT BATTER	346986.02	6382386.95	76.16	74.84	-0.10
3213	76.42	76.29	74.29	75.19	2100	FRONT BATTER	346983.12	6382367.16	76.37	75.05	-0.14
3214	76.59	76.46	74.46	75.36	2100	FRONT BATTER	346977.58	6382329.42	76.58	75.26	-0.10
3215	75.01	74.88	72.88	73.78	2100	FRONT	347009.56	6382288.34	75.00	73.69	-0.09
3216	74.62	74.49	72.49	73.39	2100	REAR	346959.41	6382282.92	74.46	73.14	-0.25
3217	74.64	74.51	72.51	73.41	2100	REAR	346957.43	6382283.21	74.45	73.13	-0.28
3218	74.70	74.57	72.57	73.47	2100	REAR	346923.30	6382288.26	74.73	73.41	-0.06
3219	75.04	74.91	72.61	73.51	2400	FRONT	346909.49	6382317.90	75.07	73.45	-0.06
3220	74.34	74.21	72.21	73.11	2100	FRONT	346891.68	6382320.53	74.22	72.91	-0.20
3221	73.47	73.34	71.34	72.24	2100	FRONT	346874.87	6382323.02	73.45	72.14	-0.10
3222	72.68	72.55	70.55	71.45	2100	FRONT	346857.55	6382325.58	72.41	71.09	-0.36
3223	72.40	72.27	69.67	70.57	2700	FRONT	346859.38	6382346.13	72.33	70.42	-0.15
3224	73.11	72.98	70.38	71.28	2700	FRONT BATTER	346876.20	6382343.64	73.24	71.32	0.04
3225	74.22	74.09	72.09	72.99	2100	FRONT BATTER	346893.02	6382341.16	74.21	72.90	-0.09
3226	74.89	74.76	72.46	73.36	2400	FRONT BATTER	346910.82	6382338.52	74.84	73.22	-0.14
3227	75.41	75.28	73.28	74.18	2100	REAR	346931.64	6382349.40	75.38	74.06	-0.12
3228	75.39	75.26	73.26	74.16	2100	REAR	346932.43	6382351.30	75.37	74.05	-0.11
3229	75.18	75.05	73.05	73.95	2100	REAR	346936.52	6382379.00	75.13	73.82	-0.14
3230	75.17	75.04	73.04	73.94	2100	REAR	346936.78	6382380.99	75.12	73.80	-0.14
3231	73.90	73.77	71.77	72.67	2100	FRONT BATTER	346919.54	6382397.48	73.92	72.60	-0.07
3232	73.62	73.49	71.49	72.39	2100	FRONT BATTER	346901.73	6382400.12	73.60	72.28	-0.11
3233	73.13	73.00	70.40	71.30	2700	FRONT	346884.92	6382402.60	73.08	71.17	-0.13
3234	73.22	73.09	71.09	71.99	2100	FRONT BATTER	346878.72	6382424.34	73.19	71.87	-0.12

WASTEWATER COLLECTION TANK COUNT

TANK SIZE	NUMBER OF
2100	29
2400	2
2700	3



PRESSURE SEWER SERVICE CONNECTION
TYPICAL SECTIONAL ELEVATION
SCALE 1:20

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 ADWJohnson Pty Ltd — COMPANY
NAME MATHEW DAVID LONDON — NAME
SIGNED — DATE 28/04/2023 — SIGNED — DATE...../...../.....
REGISTERED SURVEYOR — 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

REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY
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SCALES: 0 0.1 0.2 0.3 0.4 A1 / A3 1:10 / 1:20

DESIGN FILE N:\240037\DWG\Water & Sewer\Stage 32 Water and Sewer\x-240037(32)-huntlee-water.dwg

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

CLIENT: altogether.

PROPERTY DESCRIPTION: PROPOSED SUBDIVISION STAGE 32 HUNTLEE

PROJECT: POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION

PLAN TITLE: WASTE WATER COLLECTION TANK LEVEL DETAILS

SURVEYED	DATUM	PROJECT No.	DISCIPLINE	NUMBER	REV.
Daly.Smith Pty Ltd	GDA94 M.G.A. ZONE 56 A.H.D.	240037(32)	WAC	403	5

Plotted By: glenns Plot Date: 05/05/23 – 10:53 Cad File: N:\240072\DWG\water & sewer\stage 32–wac\240037(32)–WAC–403.dwg

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.

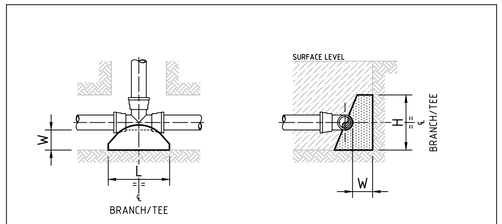
240037(32)-WAC-404

DIAL 1100
BEFORE YOU DIG

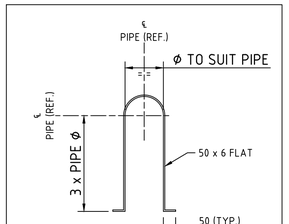
THRUST BLOCK NOTES:

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

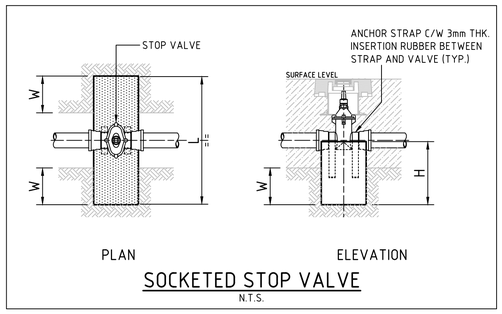
TYPE	FITTING	SOIL AHBP (kPa)	DESIGN STP (kPa)	THRUST	TA (m^2)	LENGTH (L)	HEIGHT (H)	WIDTH (W)
1	DN100 x DN100 EQUAL TEE	100	1500	18.00	0.18	0.45	0.40	0.30
2	DN100 x (45°, 22.5°, 11.25° & 6°) HORIZONTAL BENDS	100	1500	7.50	0.08	N	N	0.30
3	DN100 SOCKETED STOP VALVE	100	1500	18.00	0.18	1.05	0.44	0.30
4	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
6	DN150 x DN100 REDUCING TEE	100	1500	18.00	0.18	0.40	0.45	0.30



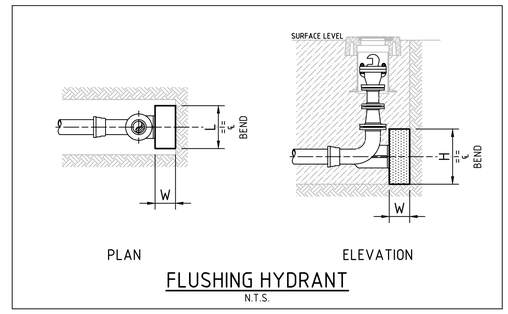
ANGLE BRANCH/TEE
N.T.S.



ANCHOR STRAP
MATERIAL: 316 STAINLESS STEEL
N.T.S.



SOCKETED STOP VALVE
N.T.S.



FLUSHING HYDRANT
N.T.S.

PLAN
SCALE 1:1000

WORK AS CONSTRUCTED

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NAME MATHEW DAVID LONDON — NAME
SIGNED — DATE 28/04/2023 — SIGNED — DATE ...../...../.....
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ORIGIN OF W.A.C. LEVELS

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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

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SCALES

DESIGN FILE N:\240037\DWG\Water & Sewer\Stage 32 Water and Sewer\x-240037(32)-huntlee-water.dwg

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ABN 62 129 445 398

CLIENT: altogether.

PROPERTY DESCRIPTION
PROPOSED SUBDIVISION
STAGE 32
HUNTLEE

PROJECT: POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION

PLAN TITLE: THRUST BLOCK DETAILS

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

PROJECT No. 240037(32) – DISCIPLINE WAC – NUMBER 404 — REV. 5

Plotted By: glenns Plot Date: 05/05/23 – 10:53 Cad File: N:\240072\DWG\water & sewer\stage 32–wac\240037(32)–WAC–404.dwg

100mm AT FULL SIZE
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