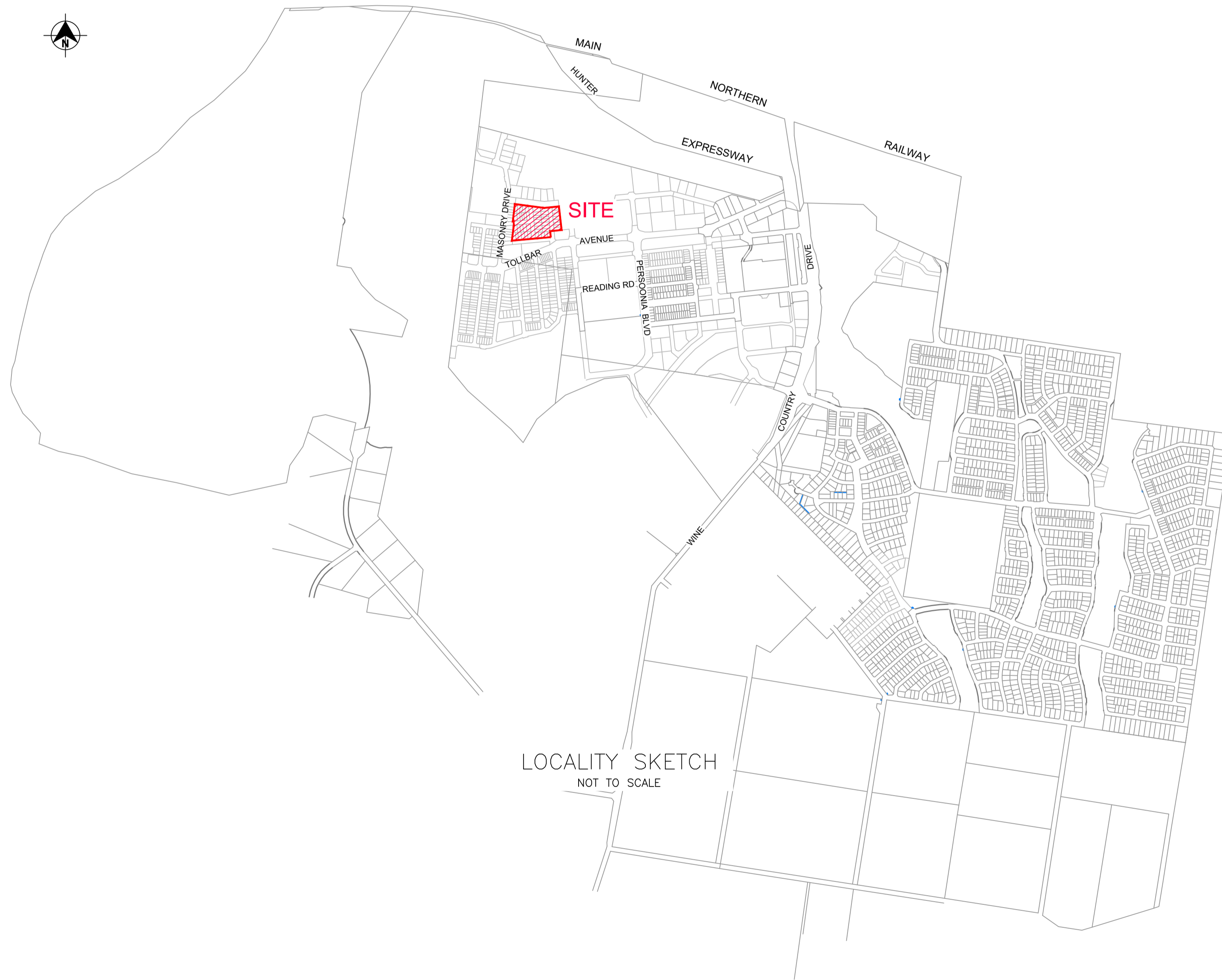


# PROPOSED SUBDIVISION BRIDGING RESIDENTIAL - STAGE 7 HUNTLEE

240037(BR7)-WAT-001



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**WORK AS CONSTRUCTED**

THESE DRAWINGS ARE AN ACCURATE REPRESENTATION AS AT 01/06/2026 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	BASS RANDALL	NAME	
SIGNED		SIGNED	
REGISTERED SURVEYOR	DATE 26/06/2026	REGISTERED SURVEYOR	DATE
		CONSTRUCTION MANAGER	

**ORIGIN OF W.A.C. LEVELS**

PM	20029	Co-Ord System	MGA Ground
E	345612.942	MGA Datum	GDA94
N	6382878.917	MGA Zone	56
RL	77.675m		



**WORK AS CONSTRUCTED**

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

REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY	SCALES
A	22.05.25	INITIAL ISSUE	I.B.	C.H.	G.S.	C.B.	
B	17.06.25	AMENDED ISSUE	I.B.	C.H.	G.S.	C.B.	
0	25.07.25	CONSTRUCTION ISSUE	J.N.	C.H.	G.S.	C.B.	
1	03.10.25	AMENDED CONSTRUCTION ISSUE	I.B.	C.H.	G.S.	C.B.	
2	11.11.25	AMENDED CONSTRUCTION ISSUE	I.B.	C.H.	G.S.	C.B.	
3	26.06.26	WORK AS CONSTRUCTED	I.B.	C.H.	G.S.	C.B.	

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CLIENT

PROPERTY DESCRIPTION

PROPOSED SUBDIVISION  
BRIDGING RESIDENTIAL - STAGE 7  
HUNTLEE

PROJECT  
POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION

PLAN TITLE  
COVER SHEET, LOCALITY PLAN & DRAWING INDEX

SURVEYED Daly,Smith	DATUM GDA94 M.G.A. ZONE 56	A.H.D.	PROJECT No. 240037(BR7) -	DISCIPLINE WAC	NUMBER 001	REV. 3
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240037(BR7)-WAT-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:**

- ALL WORKS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE DESIGN DRAWINGS, ALTOGETHER SUPPLEMENTARY MANUAL TO WSA, PRESSURE SEWERAGE CODE OF AUSTRALIA - WSA 07-2007 VERSION 1.1 AND POLYETHYLENE PIPELINE CODE WSA 01-2004.
- ALL EQUIPMENT, MATERIALS AND ACCESSORIES USED IN THIS CONTRACT SHALL BE NEW AND SHALL COMPLY WITH ALTOGETHER REQUIREMENTS. BUTT FUSION FITTINGS DENOTED HEREWITH HAVE BEEN DERIVED FROM THE GEORG FISCHER PIPING SYSTEMS BUTT FUSION PRODUCT RANGE. ELECTROFUSION FITTINGS DENOTED HEREWITH HAVE BEEN DERIVED FROM THE PLASSON "POLYETHYLENE PIPING SYSTEMS" PRODUCT RANGE.
- ALL SERVICES SHOWN ARE INDICATIVE ONLY. A CURRENT SERVICES SEARCH AND SITE CHECK OF ALL EXISTING SERVICES WILL BE REQUIRED PRIOR TO COMMENCEMENT OF ANY WORKS. THE CONSTRUCTOR IS TO DETERMINE LEVELS AND LOCATIONS OF ALL EXISTING SERVICES IN THE VICINITY OF THE CONSTRUCTION SITE AND ANY CONSTRUCTED STRUCTURES FOR PROPOSED SERVICES, SUCH AS DUCTING FOR WATER OR ELECTRICITY WITHIN THE SUBDIVISION. THE CONTRACTOR MUST ENSURE ALL SERVICES ARE LOCATED BY THE RELEVANT AUTHORITY PRIOR TO COMMENCEMENT OF WORKS.
- PRESSURE SEWER MAINS SHALL BE BLACK POLYETHYLENE (PE100 PN16) WITH A CREAM STRIPE AS PER WSA 02-2007 AND ALTOGETHER SUPPLEMENTARY MANUAL TO WSA.
- ALL POLYETHYLENE MAINS ≤ DN200 SHALL BE JOINED USING ELECTROFUSION JOINTING TECHNIQUES IN ACCORDANCE WITH MANUFACTURERS REQUIREMENTS. ALL POLYETHYLENE MAINS ≥ DN200 SHALL BE JOINED USING BUTTWELD JOINTING TECHNIQUES IN ACCORDANCE WITH MANUFACTURERS REQUIREMENTS.
- MAIN TO BE LAID GENERALLY AS INDICATED IN SERVICE ALLOCATION DIAGRAMS. INSTRUCTION NOTES SHALL TAKE PRECEDENCE OVER DIAGRAMS WHERE PROVIDED. 600mm HORIZONTAL CLEARANCE TO BE MAINTAINED BETWEEN ALL SEWER AND WATER MAINS. MINIMUM PIPE COVER SHALL BE 800mm IN FOOTWAYS AND 1000mm IN ROADWAYS. MAXIMUM PIPE COVER SHALL GENERALLY BE 1500mm. WHERE COVER FOR A TRENCHED INSTALLATION EXCEEDS 1500mm BUT LESS THAN 2500mm THE MAIN AS A MINIMUM SHALL BE EMBEDDED IN STABILISED SAND. THE CONTRACTOR SHALL ENSURE THAT ALL PRESSURE SEWER AND RECYCLED WATER MAINS HAVE SUFFICIENT VERTICAL SEPARATION AS PER THE CLEARANCE TABLE ADJACENT.
- MAINS CROSSING UNDER EXISTING DRIVEWAYS (SEALED, PAVED OR DECORATIVE) SHALL BE CONDUCTED BY UNDER BORING ONLY UNLESS PERMISSION IS GRANTED BY THE AFFECTED PROPERTY OWNER.
- MAINS WITHIN 2.0m OF ELECTRICITY OR POWER POLES SHALL BE CONDUCTED BY BORING TECHNOLOGY (UNLESS AGREED TO BY THE ALTOGETHER REPRESENTATIVE).
- ALL PIPE BEDDING MATERIAL SHALL COMPLY WITH WSA PRODUCT SPECIFICATION WSA-PS350 AND WSA-PS351.
- ALL BENDS SHALL BE ELECTROFUSION OR BUTT WELD SWEEP BENDS. FABRICATED BENDS SHALL NOT BE USED IN LIEU. KNUCKLE ELBOWS ARE NOT PERMITTED.
- MINIMUM BENDING RADIUS FOR PN16 PE100 (SDR11) SHALL BE 20 x DN. (i.e. DN400 : R8.0m, DN250 : R5.0m, DN200 : R4.0m, DN160 : R3.2m, DN125 : R2.5m, DN90 : R1.8m, DN75 : R1.5m, DN63 : R1.3m, DN50 : R1.0m, DN40 : R0.8m).
- ALL HOUSE SERVICE LATERALS SHALL BE DN40 (PE100 PN16).
- FLUSHING PITS SHALL CONFORM WITH ALTOGETHER STANDARD DRAWINGS. REFER TO ALTOGETHER WEBSITE FOR CURRENT VERSION. SMALL MAINS (≤ DN100) [http://information.altogethergroup.com.au/governance/Land\\_Housing/PSS-1017A-FS.pdf](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](http://information.altogethergroup.com.au/governance/Land_Housing/PSS-1017B-FS.pdf)
- LOCALISED DEEPENING OF MAINS MAY BE REQUIRED TO FACILITATE AIR VALVE INSTALLATION. THE CONTRACTOR SHALL ENSURE THAT THE AIR VALVE OFFTAKE IS LOCATED AT A HIGH POINT (NATURAL OR ARTIFICIAL) IN THE MAIN (i.e. MAIN SHALL GRADE DOWNWARDS EITHER SIDE OF THE AIR VALVE).
- DETECTABLE MARKING TAPE SHALL BE LAID ON TOP OF THE PIPE EMBEDMENT MATERIAL BEFORE BACKFILLING AND CONNECTED TO SURFACE FITTINGS.
- ALL SURFACE FITTINGS LOCATED IN TRAFFICABLE AREAS (i.e. ROADWAYS, PATHS etc.) SHALL HAVE HEAVY DUTY SURROUNDS INSTALLED.
- DURING CONSTRUCTION, ALL OPEN ENDS OF PIPE SHALL BE CAPPED OFF TO PREVENT ENTRY OF FOREIGN MATTER.
- ALL VALVES SHALL BE RESILIENT SEATED SLUICE VALVES (CLOCKWISE CLOSING), SHALL BE RESTRAINED IN ACCORDANCE WITH WAT-1207 AND SHALL COMPLY WITH ALTOGETHER STANDARD DRAWING PSS-1015-FS.
- ALL MAINS SHALL BE TESTED IN ACCORDANCE WITH WSA 07-2007 VERSION 1.1.
- FOR LOTS WITH TANKS IN THE REAR, 1 x #25mm INSTRUMENTATION CONDUIT (ORANGE) AND 1 x #25mm ELECTRICAL CONDUIT (ORANGE)(WITH DRAW WIRES) SHALL BE INSTALLED FROM THE COLLECTION TANK TO WATER METERS. THE CONDUITS SHALL BE LAID IN A COMMON TRENCH WITH THE SEWERAGE AND MAINTAIN A MINIMUM HORIZONTAL CLEARANCE OF 400mm. (REFER TO ALTOGETHER STANDARD DRAWINGS FOR SETOUT DIMENSIONS).
- THE CONSTRUCTOR SHALL PROVIDE HUNTLER WATER WITH MINIMUM OF 7 DAYS NOTICE IN WRITING OF INTENT TO CONNECT NEW MAINS TO EXISTING INFRASTRUCTURE. CONNECTIONS ARE NOT PERMITTED UNTIL COMPLIANT TEST RESULTS HAVE BEEN PROVIDED AND CONFIRMATION IS PROVIDED BY THE ALTOGETHER REPRESENTATIVE.
- UPON COMPLETION OF WORKS, ALL SURFACES MUST BE RESTORED AS CLOSE AS POSSIBLE, TO THE CONDITION HAT EXISTED PRIOR TO COMMENCEMENT OF WORKS.
- PERMISSION OF ENTRY MUST BE OBTAINED BY THE CONTRACTOR FROM THE OWNER/OCCUPIER PRIOR TO COMMENCEMENT OF WORK IN PRIVATE PROPERTY.
- BURIED FITTINGS ARE NOT TO BE BACKFILLED UNTIL W.A.C. DETAILS HAVE BEEN OBTAINED AND APPROVAL FOR BACKFILLING GIVEN BY THE ALTOGETHER REPRESENTATIVE. THE CONTRACTOR SHALL PROVIDE M.G.A. COORDINATED WORK-AS-CONSTRUCTED INFORMATION REGARDING THE INSTALLATION OF ALL BURIED FITTINGS.
- THE MINIMUM NUMBER OF COMPACTION TESTS REQUIRED TO SATISFY THE PRESSURE SEWER CODE OF AUSTRALIA (CLAUSE 213.4) ARE:  
TRAFFICABLE  
PIPE EMBEDMENT ZONE: NIL TRENCH FILL ZONE: 1 TEST/300mm LAYER OF FILL AT EACH ROAD CROSSING.  
NON-TRAFFICABLE  
PIPE EMBEDMENT ZONE: NIL TRENCH FILL ZONE: 1 TEST/900mm OF FILL AND EACH 100 LINEAL METRES OF PIPE.
- BOUNDARY KITS (COMPLETE) SHALL BE NOV SUPPLIED (NOV PSS-BK4).  
e one COLLECTION TANK (ESD 20-0032/ESD 20-0033) SHALL BE INSTALLED WITH BOUNDARY KIT (REFER ALTOGETHER STANDARD DRAWINGS PSS-1112-FS AND PSS-1113-FS). PUMP TO BE INSTALLED BY OTHERS.
- ALL MAINS (UP TO THE BOUNDARY KIT) SHALL BE PRESSURE TESTED TO 1600 kPa.  
ALL LINES FROM THE WASTEWATER COLLECTION TANK TO THE MANUAL ISOLATION VALVE WITHIN THE BOUNDARY KIT TO BE PRESSURE TESTED TO 1000kPa.
- ALL MAINS SHALL BE FLUSHED WITH WATER TO REMOVE ANY DEBRIS PRIOR TO COMMISSIONING.
- SURFACE IDENTIFICATION MARKERS ARE TO BE PROVIDED TO ALTOGETHER REQUIREMENTS.
- ROPE OFF ALL PRESSURE SEWER UNITS AND FLUSHING POINTS TO LIMIT DAMAGE DURING CONSTRUCTION.
- PRESSURE TRANSMITTER TO BE MEASUREX MRB21 GENERAL PURPOSE TRANSMITTER WITH MICROSPIDER LOGGING TELEMETRY AND ALARM PER ALTOGETHER REQUIREMENTS.
- WORK-AS-CONSTRUCTED DOCUMENTATION SHALL BE PROVIDED BY THE CONTRACTOR STRICTLY IN ACCORDANCE WITH THE ALTOGETHER Q.A. SUBMISSION CHECKLIST.

**PRESSURE SEWER NOTES:**

- FLUSHING POINT KITS TO BE TRAFFICABLE ENCLOSED - CLASS B. HOWEVER IF INSTALLATION TO BE INSTALLED IN FOOTPATH OR DRIVEWAY, CEMENT TRAFFICABLE ENCLOSURE - CLASS C/D IS REQUIRED.

**POTABLE WATER AND RECYCLED WATER NOTES:**

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

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

**GENERAL NOTES:**

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

**CLEARANCES BETWEEN PIPELINES AND UNDERGROUND SERVICES**

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

**NOTES:**

- VERTICAL CLEARANCES APPLY WHERE PIPELINES CROSS OTHER UTILITY SERVICES, EXCEPT IN THE CASE OF WATER/SEWER MAINS WHEN A VERTICAL SEPARATION SHALL ALWAYS BE MAINTAINED, EVEN WHEN THE PRESSURE SEWER AND WATER MAIN ARE PARALLEL. THE PRESSURE SEWER SHOULD ALWAYS BE LOCATED BELOW THE WATER MAIN TO MINIMISE THE POSSIBILITY OF BACKFLOW CONTAMINATION IN THE EVENT OF A PRESSURE MAIN BREAK.
- WATER MAINS INCLUDES MAINS SUPPLYING BOTH POTABLE AND RECYCLED WATER.
- FOR AREAS WITH EXISTING WATER RETICULATION, CLEARANCES CAN BE FURTHER REDUCED TO 600mm WITH THE APPROVAL OF THE WATER AUTHORITY.
- CLEARANCES CAN BE FURTHER REDUCED TO 150mm FOR DISTANCES UP TO 2.0m WHEN PASSING INSTALLATIONS SUCH AS POLES, PITS, AND SMALL STRUCTURES, PROVIDING THE STRUCTURE IS NOT DE-STABILISED IN THE PROCESS.
- CLEARANCES FROM KERBS SHALL BE MEASURED FROM THE NEAREST POINT OF THE KERB. FOR WATER/SEWER < DN 375, CLEARANCES FROM KERBS CAN BE PROGRESSIVELY REDUCED UNTIL THE MINIMUM OF 150mm IS REACHED FOR WATER/SEWER < DN200.
- WHERE A PARALLEL SEWER IS AT MINIMUM VERTICAL CLEARANCE LOWER THAN THE WATER MAIN (1500mm), MAINTAIN A MINIMUM HORIZONTAL OF 1000mm. THIS MINIMUM CLEARANCE CAN BE PROGRESSIVELY REDUCED TO 600mm AS THE VERTICAL CLEARANCE IS INCREASED TO 750mm.
- FOR PRESSURE SEWER LATERALS, MINIMUM VERTICAL CLEARANCES MAY BE REDUCED TO 150mm PROVIDING THERE IS NO JOINT IN THE LATERAL WITHIN 500mm OF EITHER SIDE OF THE SERVICE BEING CROSSED.
- AN ADDITIONAL CLEARANCE FROM HIGH VOLTAGE ELECTRICAL INSTALLATIONS SHOULD BE MAINTAINED ABOVE THE CONDUITS OR CABLES TO ALLOW FOR A PROTECTIVE BARRIER AND MARKING TO BE PROVIDED.
- WATER MAINS SHOULD ALWAYS CROSS OVER SEWERS AND STORMWATER DRAINS. FOR CASES WHERE THERE IS NO ALTERNATIVE AND THE MAIN MUST CROSS UNDER THE SEWER, THE DESIGN SHALL NOMINATE AN APPROPRIATE PROTECTION TREATMENT (JOINT-FREE IN THE VICINITY OF THE SEWER).

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

**WORK AS CONSTRUCTED**

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COMPANY ADWJohnson Pty Ltd COMPANY  
NAME BASS RANDALL NAME  
SIGNED *Bass Randall* DATE 26/06/2026 SIGNED \_\_\_\_\_ DATE \_\_\_\_\_  
REGISTERED SURVEYOR CONSTRUCTION MANAGER

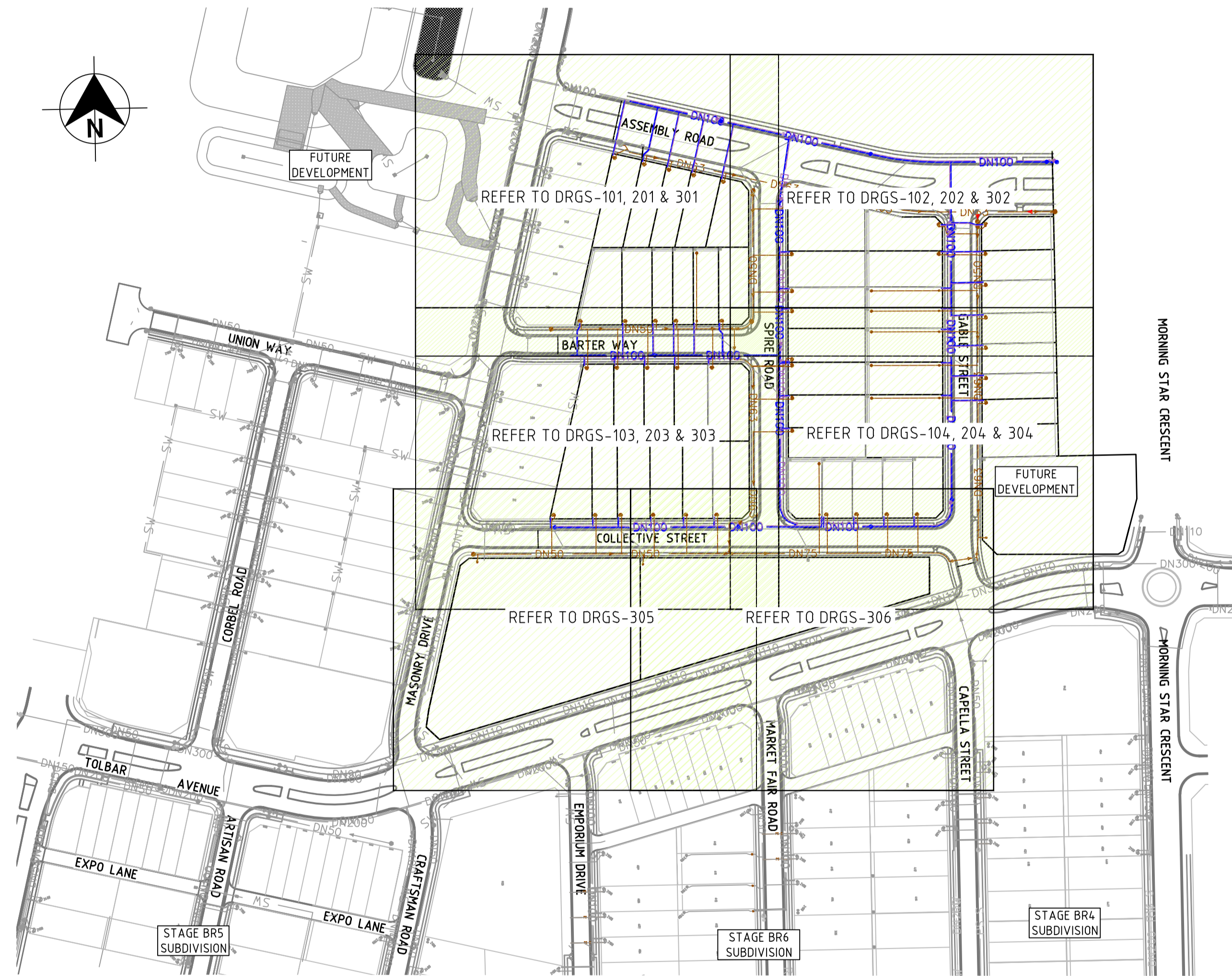
**ORIGIN OF W.A.C. LEVELS**

PM 20029 Co-Ord System: MGA Ground  
E: 345612.942 MGA Datum: GDA94  
N: 6382878.917 MGA Zone: 56  
RL: 77.675m



**WORK AS CONSTRUCTED**

REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY	SCALES	CLIENT	PROPERTY DESCRIPTION	PROJECT		
A	22.05.25	INITIAL ISSUE	I.B.	C.H.	G.S.	C.B.				<p>Hunter Office Unit 7/335 Hillsborough Rd Warners Bay N.S.W. 2282 Phone: (02) 4978 5100 Fax: (02) 4978 5199 email: hunter@adwjohnson.com.au www.adwjohnson.com.au ABN 62 129 445 398</p>	<p>PROPOSED SUBDIVISION BRIDGING RESIDENTIAL - STAGE 7 HUNTLER</p>	POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION
B	17.06.25	AMENDED ISSUE	I.B.	C.H.	G.S.	C.B.	PLAN TITLE					
0	25.07.25	CONSTRUCTION ISSUE	J.N.	C.H.	G.S.	C.B.	GENERAL NOTES					
1	03.10.25	AMENDED CONSTRUCTION ISSUE	I.B.	C.H.	G.S.	C.B.						
2	11.11.25	AMENDED CONSTRUCTION ISSUE	I.B.	C.H.	G.S.	C.B.						
3	26.06.26	WORK AS CONSTRUCTED	I.B.	C.H.	G.S.	C.B.	<p>SURVEYED Daly,Smith</p> <p>DATUM GDA94 M.G.A. ZONE 56 A.H.D.</p> <p>PROJECT No. 240037(BR7) - DISCIPLINE WAC - NUMBER 002 - REV. 3</p>					



PLAN  
SCALE 1:1500

**WORK AS CONSTRUCTED**

THESE DRAWINGS ARE AN ACCURATE REPRESENTATION AS AT 01/06/2026 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 BASS RANDALL      NAME  
SIGNED *Bass Randall* DATE 26/06/2026      SIGNED      DATE  
REGISTERED SURVEYOR      CONSTRUCTION MANAGER

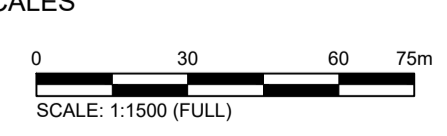
**ORIGIN OF W.A.C. LEVELS**

PM 20029      Co-Ord System: MGA Ground  
E: 345612.942      MGA Datum: GDA94  
N: 6382878.917      MGA Zone: 56  
RL: 77.675m



**WORK AS CONSTRUCTED**

REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY	SCALES
A	22.05.25	INITIAL ISSUE	I.B.	C.H.	G.S.	C.B.	
B	17.06.25	AMENDED ISSUE	I.B.	C.H.	G.S.	C.B.	
0	25.07.25	CONSTRUCTION ISSUE	J.N.	C.H.	G.S.	C.B.	
1	03.10.25	AMENDED CONSTRUCTION ISSUE	I.B.	C.H.	G.S.	C.B.	
2	11.11.25	AMENDED CONSTRUCTION ISSUE	I.B.	C.H.	G.S.	C.B.	
3	26.06.26	WORK AS CONSTRUCTED	I.B.	C.H.	G.S.	C.B.	



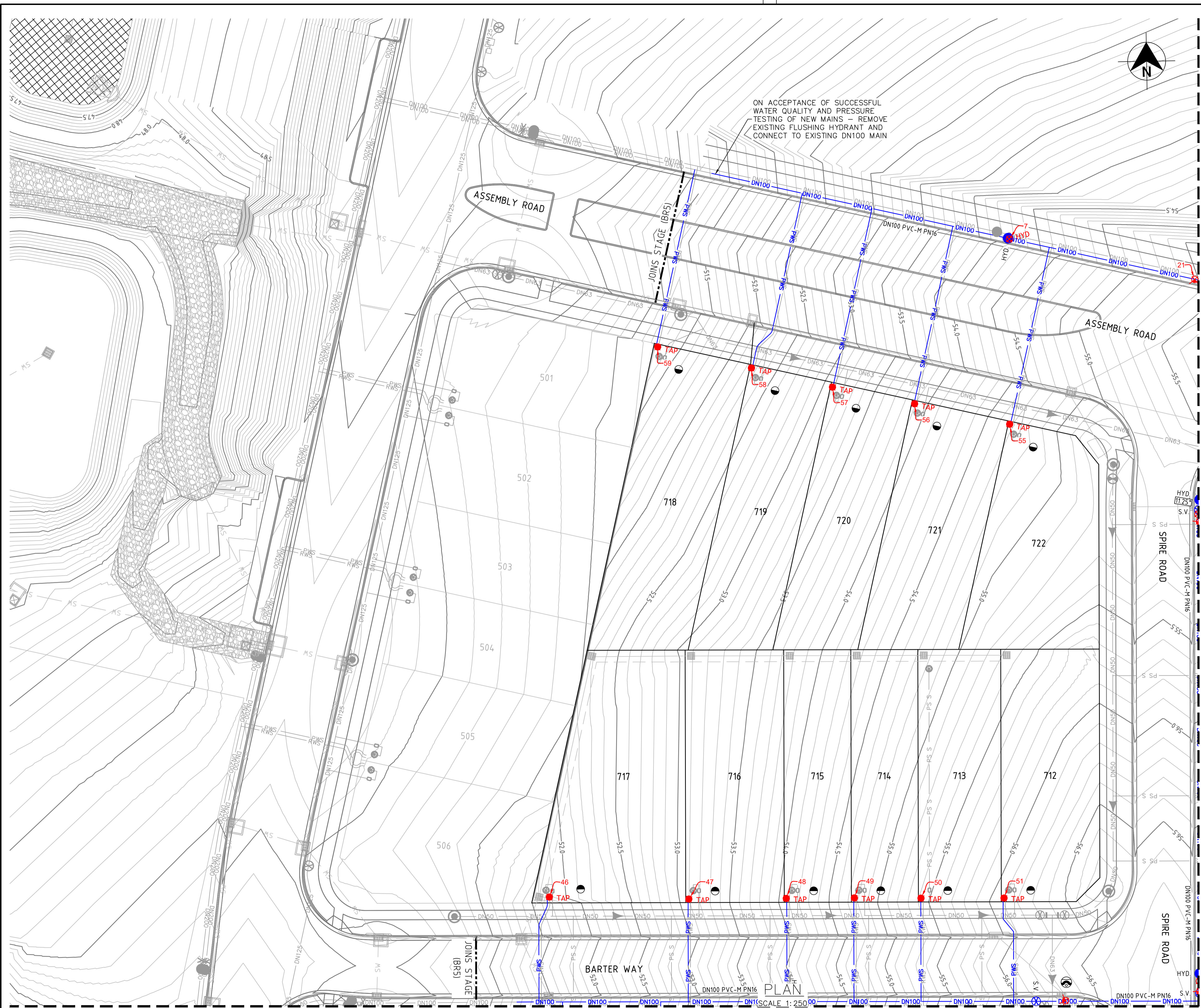
**adw Johnson**

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

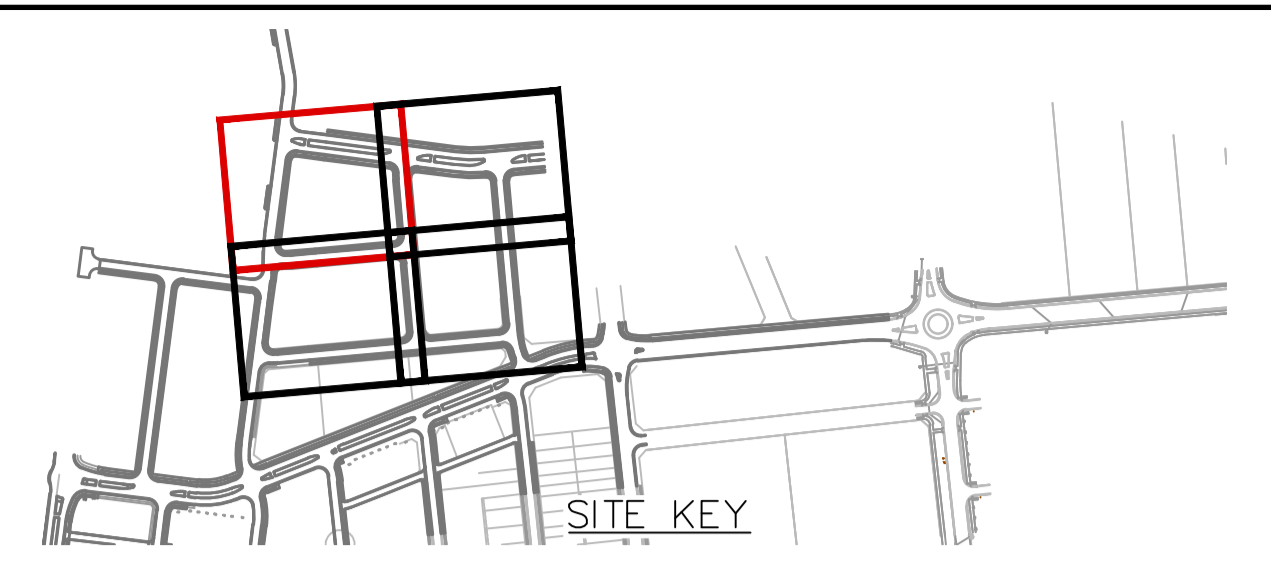
CLIENT

PROPERTY DESCRIPTION		
PROPOSED SUBDIVISION BRIDGING RESIDENTIAL - STAGE 7 HUNTLEE		
SURVEYED	DATUM	A.H.D.
Daly,Smith	GDA94 M.G.A. ZONE 56	

PROJECT			
POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION			
PLAN TITLE			
OVERALL SITE PLAN			
PROJECT No.	DISCIPLINE	NUMBER	REV.
240037(BR7) -	WAC	003	3



ON ACCEPTANCE OF SUCCESSFUL WATER QUALITY AND PRESSURE TESTING OF NEW MAINS - REMOVE EXISTING FLUSHING HYDRANT AND CONNECT TO EXISTING DN100 MAIN



**LEGEND**

DN100	PVC-M POTABLE WATER RETICULATION
PWS	PE POTABLE WATER PROPERTY SERVICE
DN100	PE POTABLE WATER PROPERTY SERVICE
RWS	PE POTABLE WATER PROPERTY SERVICE
DN63	PE RECYCLED WATER RETICULATION
PS S	PE RECYCLED WATER PROPERTY SERVICE
PS S	PE PRESSURE SEWER RETICULATION
PS S	PE PRESSURE SEWER PROPERTY SERVICE
SW	STORMWATER PIPEWORK
NBN	EXISTING NBN CABLE (FROM BYDA PLANS ONLY)
G	EXISTING GAS MAIN (FROM BYDA PLANS ONLY)
ex E	EXISTING U/G POWER CABLE (FROM BYDA PLANS ONLY)
S.V.	STOP VALVE
S.V.N.C.	STOP VALVE NORMALLY CLOSED
HYD.	HYDRANT
FL. HYD.	FLUSHING HYDRANT
●	PROPERTY SERVICE CONNECTION
○	LAY WATER MAIN OVER STORMWATER PIPE (300mm MIN. VERTICAL CLEARANCE) - REFER TO WAT-1255-H
112.5° 22.5° 65° 90°	HORIZONTAL BEND ANGLE IN MAIN
- - - - -	LIMIT OF SUBDIVISION WORKS

**POTABLE WATER PROPERTY SERVICE CONNECTIONS**  
 TOTAL 51 CONNECTIONS  
 \* SINGLE SERVICES IN ACCORDANCE WITH WAT-1106-V  
 -32 x SHORT SIDE  
 -19 x LONG SIDE

POTABLE WATER PIPE DATA		
PIPE SIZE (mm)	PIPE MATERIAL	TOTAL LENGTH (m)
DN100	PVC-M PN16	741

- NOTES:**
- FOR RECYCLED WATER PIPEWORK DETAIL PLANS REFER TO DRGS-201 TO 203.
  - FOR PRESSURE SEWER PIPEWORK DETAIL PLANS REFER TO DRGS-301 TO 303.
  - FOR TYPICAL SERVICE CONNECTION DETAILS REFER TO DRG-402.
  - CONTRACTOR TO CONFIRM SHUTDOWN REQUIREMENTS AND SHUTDOWN DATE WITH ALTOGETHER WORKS SUPERVISOR AT A MINIMUM OF 2 WEEKS PRIOR TO PROPOSED REQUESTED SHUTDOWN DATE.
- PROVIDE SHUTDOWN PLAN DETAILING:**
- DURATION OF REQUIRED SHUTDOWN
  - ISOLATION VALVES TO BE CLOSED
  - FLUSHING PLAN
- SEEK APPROVAL FROM ALTOGETHER WORKS SUPERVISOR TO PERFORM HOT TAP CONNECTION IF PREFERRED CONSTRUCTION METHODOLOGY FOR CONNECTION.

**WORK AS CONSTRUCTED**

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COMPANY	ADW Johnson Pty Ltd	COMPANY	
NAME	BASS RANDALL	NAME	
SIGNED	<i>Bass Randall</i>	DATE	26/06/2026
	REGISTERED SURVEYOR	SIGNED	
		DATE	
			CONSTRUCTION MANAGER

**ORIGIN OF W.A.C. LEVELS**

PM	20029	Co-Ord System:	MGA Ground
E	345612.942	MGA Datum:	GDA94
N	6382878.917	MGA Zone:	56
RL	77.675m		



**WORK AS CONSTRUCTED**

REV.	DATE	AMENDMENT
A	22.05.25	INITIAL ISSUE
B	17.06.25	AMENDED ISSUE
0	25.07.25	CONSTRUCTION ISSUE
1	03.10.25	AMENDED CONSTRUCTION ISSUE
2	11.11.25	AMENDED CONSTRUCTION ISSUE
3	26.06.26	WORK AS CONSTRUCTED

DRAWN	CHECK	DESIGN	VERIFY
I.B.	C.H.	G.S.	C.B.
I.B.	C.H.	G.S.	C.B.
J.N.	C.H.	G.S.	C.B.
I.B.	C.H.	G.S.	C.B.
I.B.	C.H.	G.S.	C.B.
I.B.	C.H.	G.S.	C.B.

**adw Johnson**

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

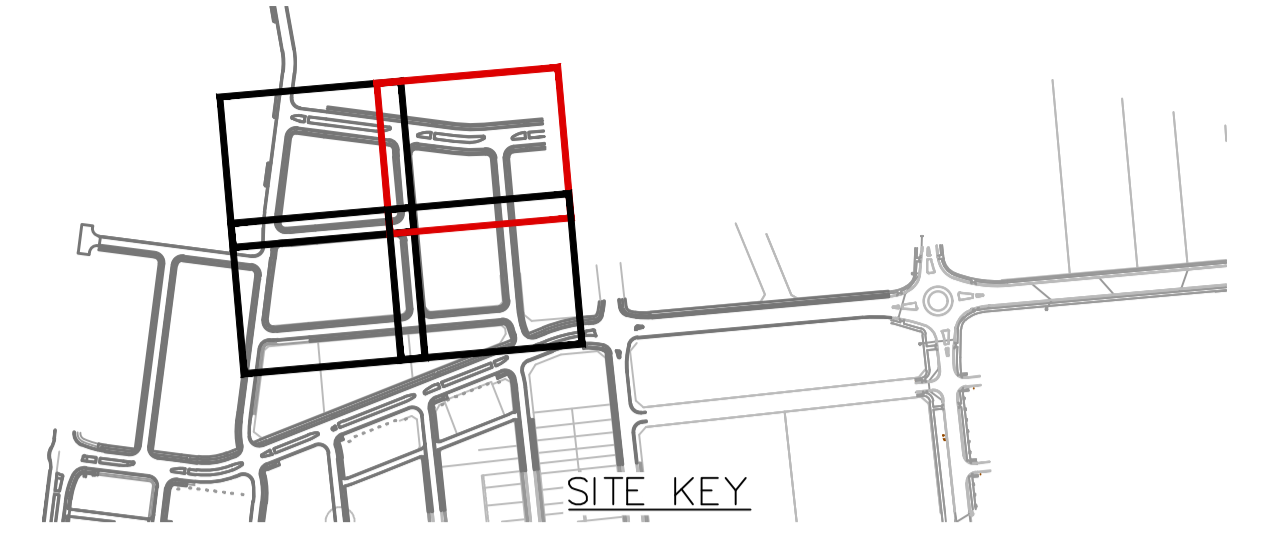
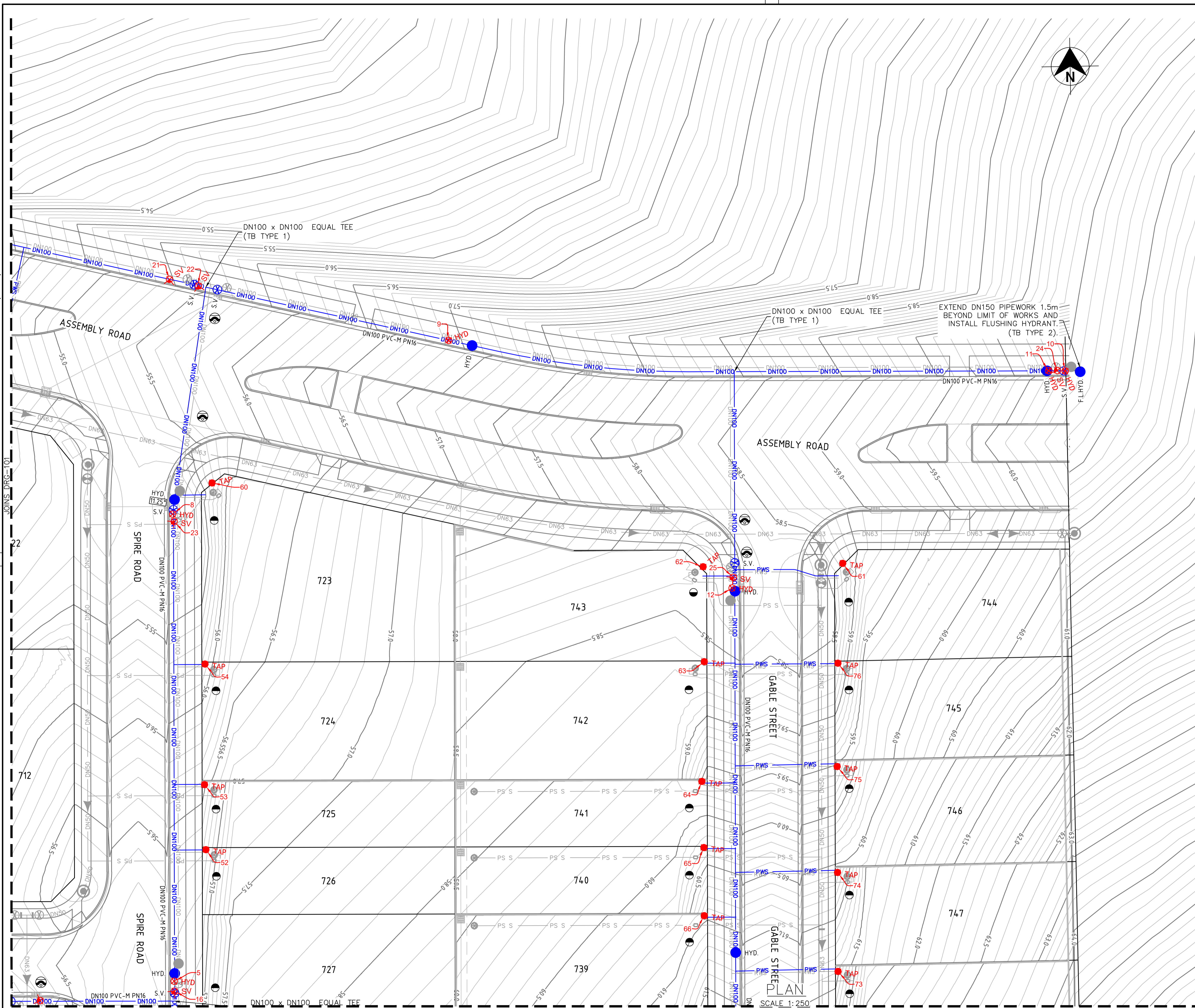
CLIENT

PROPERTY DESCRIPTION		
PROPOSED SUBDIVISION BRIDGING RESIDENTIAL - STAGE 7 HUNTLEE		
SURVEYED	DATUM	A.H.D.
Daly,Smith	GDA94 M.G.A. ZONE 56	

PROJECT			
POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION			
PLAN TITLE			
POTABLE WATER DETAIL PLAN 1			
PROJECT No.	DISCIPLINE	NUMBER	REV.
240037(BR7)	WAC	101	3

240037(BR7)-WAT-101

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.



- LEGEND**
- DN100 PVC-M POTABLE WATER RETICULATION
  - PWS PE POTABLE WATER PROPERTY SERVICE
  - DN100 PVC-M RECYCLED WATER RETICULATION
  - RWS PE RECYCLED WATER PROPERTY SERVICE
  - DN63 PE PRESSURE SEWER RETICULATION
  - PS S PE PRESSURE SEWER PROPERTY SERVICE
  - SW STORMWATER PIPEWORK
  - NBN EXISTING NBN CABLE (FROM BYDA PLANS ONLY)
  - G EXISTING GAS MAIN (FROM BYDA PLANS ONLY)
  - ex E EXISTING U/G POWER CABLE (FROM BYDA PLANS ONLY)
  - S.V. STOP VALVE
  - S.V. N.C. STOP VALVE NORMALLY CLOSED
  - HYD. HYDRANT
  - FL. HYD. FLUSHING HYDRANT
  - PROPERTY SERVICE CONNECTION
  - LAY WATER MAIN OVER STORMWATER PIPE (300mm MIN. VERTICAL CLEARANCE) - REFER TO WAT-1255-H
  - 112.5° 22.5° 45° 90° HORIZONTAL BEND ANGLE IN MAIN
  - LIMIT OF SUBDIVISION WORKS

- POTABLE WATER PROPERTY SERVICE CONNECTIONS**  
 TOTAL 51 CONNECTIONS  
 • SINGLE SERVICES IN ACCORDANCE WITH WAT-1106-V  
 - 32 x SHORT SIDE  
 - 19 x LONG SIDE

POTABLE WATER PIPE DATA		
PIPE SIZE (mm)	PIPE MATERIAL	TOTAL LENGTH (m)
DN100	PVC-M PN16	741

- NOTES:**
- FOR RECYCLED WATER PIPEWORK DETAIL PLANS REFER TO DRGS-201 TO 203.
  - FOR PRESSURE SEWER PIPEWORK DETAIL PLANS REFER TO DRGS-301 TO 303.
  - FOR TYPICAL SERVICE CONNECTION DETAILS REFER TO DRG-402.
  - CONTRACTOR TO CONFIRM SHUTDOWN REQUIREMENTS AND SHUTDOWN DATE WITH ALTOGETHER WORKS SUPERVISOR AT A MINIMUM OF 2 WEEKS PRIOR TO PROPOSED REQUESTED SHUTDOWN DATE.
- PROVIDE SHUTDOWN PLAN DETAILING:  
 • DURATION OF REQUIRED SHUTDOWN  
 • ISOLATION VALVES TO BE CLOSED  
 • FLUSHING PLAN  
 5. SEEK APPROVAL FROM ALTOGETHER WORKS SUPERVISOR TO PERFORM HOTTAP CONNECTION IF PREFERRED CONSTRUCTION METHODOLOGY FOR CONNECTION.

**WORK AS CONSTRUCTED**

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COMPANY ADW Johnson Pty Ltd      COMPANY  
 NAME BASS RANDALL      NAME  
 SIGNED *Bass Randall*      DATE 26/06/2026      SIGNED      DATE      /      /      /  
 REGISTERED SURVEYOR      CONSTRUCTION MANAGER

**ORIGIN OF W.A.C. LEVELS**

PM 20029  
 E: 345612.942  
 N: 6382878.917  
 RL: 17.675m

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



**WORK AS CONSTRUCTED**

REV.	DATE	AMENDMENT
A	22.05.25	INITIAL ISSUE
B	17.06.25	AMENDED ISSUE
0	25.07.25	CONSTRUCTION ISSUE
1	03.10.25	AMENDED CONSTRUCTION ISSUE
2	11.11.25	AMENDED CONSTRUCTION ISSUE
3	26.06.26	WORK AS CONSTRUCTED

DRAWN	CHECK	DESIGN	VERIFY
I.B.	C.H.	G.S.	C.B.
I.B.	C.H.	G.S.	C.B.
I.B.	C.H.	G.S.	C.B.
I.B.	C.H.	G.S.	C.B.
I.B.	C.H.	G.S.	C.B.
I.B.	C.H.	G.S.	C.B.

**adw Johnson**

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

CLIENT

PROPERTY DESCRIPTION

PROPOSED SUBDIVISION  
 BRIDGING RESIDENTIAL - STAGE 7  
 HUNTLEE

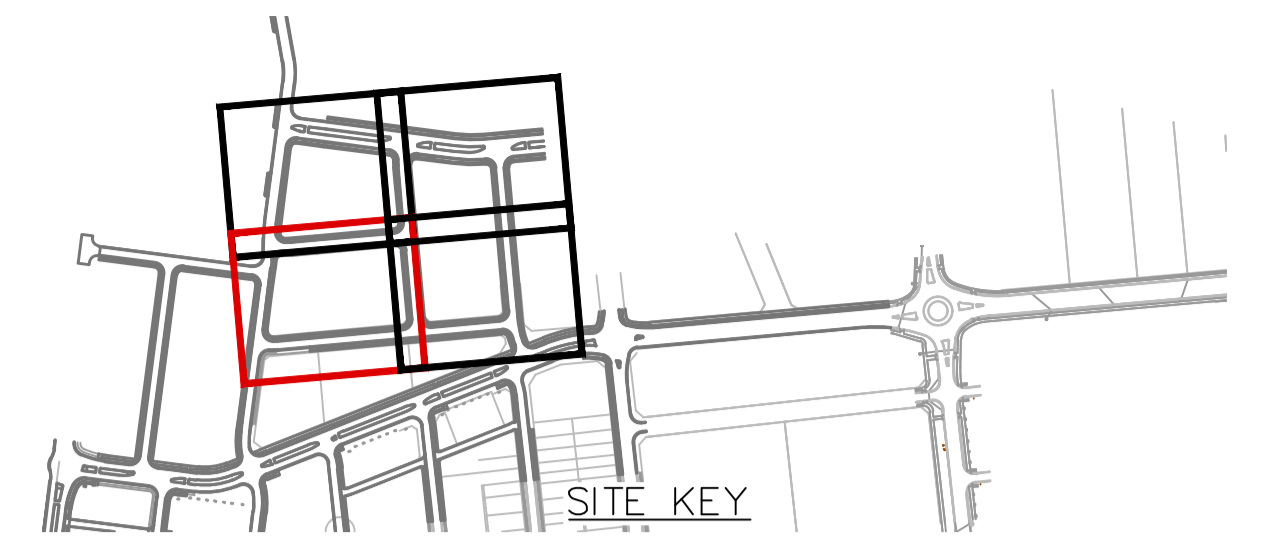
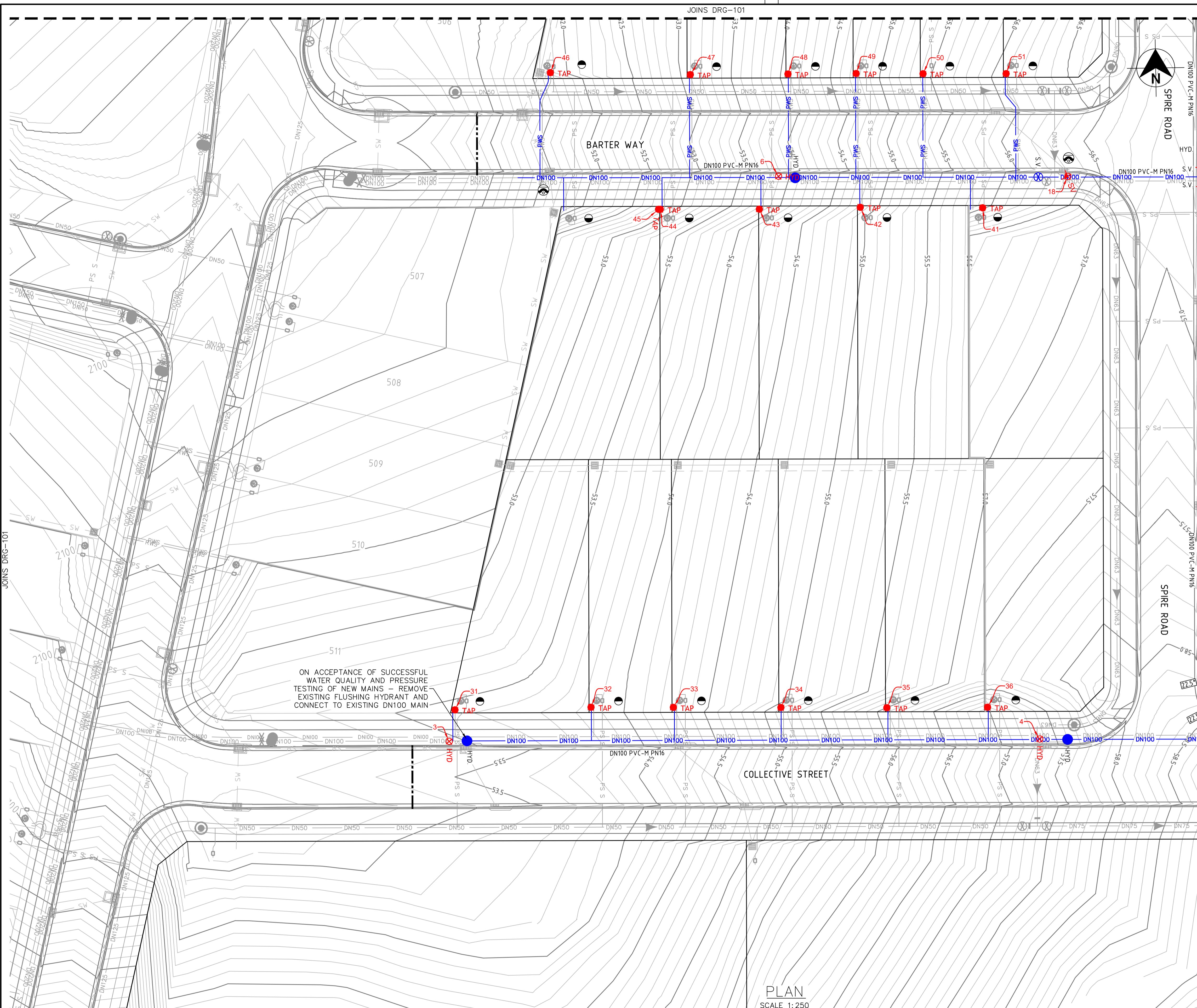
SURVEYED Daly,Smith      DATUM GDA94 M.G.A. ZONE 56      A.H.D.

PROJECT			
POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION			
PLAN TITLE			
POTABLE WATER DETAIL PLAN 2			
PROJECT No.	DISCIPLINE	NUMBER	REV.
240037(BR7)	WAC	102	3

240037(BR7)-WAT-101

JOINS DRG-101

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.



- LEGEND**
- DN100 PVC-M PN16 POTABLE WATER RETICULATION
  - PWS PE POTABLE WATER PROPERTY SERVICE
  - DN100 PVC-M RECYCLED WATER RETICULATION
  - RWS PE RECYCLED WATER PROPERTY SERVICE
  - DN63 PE PRESSURE SEWER RETICULATION
  - PS S PE PRESSURE SEWER PROPERTY SERVICE
  - SW SW STORMWATER PIPEWORK
  - NBN NBN EXISTING NBN CABLE (FROM BYDA PLANS ONLY)
  - G G EXISTING GAS MAIN (FROM BYDA PLANS ONLY)
  - ex E ex E EXISTING U/G POWER CABLE (FROM BYDA PLANS ONLY)
  - S.V. STOP VALVE
  - S.V. N.C. STOP VALVE NORMALLY CLOSED
  - 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° 55° 90° HORIZONTAL BEND ANGLE IN MAIN
  - LIMIT OF SUBDIVISION WORKS

- POTABLE WATER PROPERTY SERVICE CONNECTIONS**  
TOTAL 51 CONNECTIONS
- SINGLE SERVICES IN ACCORDANCE WITH WAT-1106-V
  - 32 x SHORT SIDE
  - 19 x LONG SIDE

POTABLE WATER PIPE DATA		
PIPE SIZE (mm)	PIPE MATERIAL	TOTAL LENGTH (m)
DN100	PVC-M PN16	741

- NOTES:**
1. FOR RECYCLED WATER PIPEWORK DETAIL PLANS REFER TO DRGS-201 TO 203.
  2. FOR PRESSURE SEWER PIPEWORK DETAIL PLANS REFER TO DRGS-301 TO 303.
  3. FOR TYPICAL SERVICE CONNECTION DETAILS REFER TO DRG-402.
  4. CONTRACTOR TO CONFIRM SHUTDOWN REQUIREMENTS AND SHUTDOWN DATE WITH ALTOGETHER WORKS SUPERVISOR AT A MINIMUM OF 2 WEEKS PRIOR TO PROPOSED REQUESTED SHUTDOWN DATE.
- PROVIDE SHUTDOWN PLAN DETAILING:**
- DURATION OF REQUIRED SHUTDOWN
  - ISOLATION VALVES TO BE CLOSED
  - FLUSHING PLAN
5. SEEK APPROVAL FROM ALTOGETHER WORKS SUPERVISOR TO PERFORM HOT TAP CONNECTION IF PREFERRED CONSTRUCTION METHODOLOGY FOR CONNECTION.

**WORK AS CONSTRUCTED**

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COMPANY	ADW Johnson Pty Ltd	COMPANY	
NAME	BASS RANDALL	NAME	
SIGNED	<i>Bass Randall</i>	DATE	26/06/2026
	REGISTERED SURVEYOR	SIGNED	
		DATE	
			CONSTRUCTION MANAGER

**ORIGIN OF W.A.C. LEVELS**

PM 20029  
E: 345612.942  
N: 6382878.917  
RL: 77.675m

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



**WORK AS CONSTRUCTED**

REV.	DATE	AMENDMENT
A	22.05.25	INITIAL ISSUE
B	17.06.25	AMENDED ISSUE
0	25.07.25	CONSTRUCTION ISSUE
1	03.10.25	AMENDED CONSTRUCTION ISSUE
2	11.11.25	AMENDED CONSTRUCTION ISSUE
3	26.06.26	WORK AS CONSTRUCTED

DRAWN	CHECK	DESIGN	VERIFY	SCALES
I.B.	C.H.	G.S.	C.B.	0 5.0 10.0 12.5m
I.B.	C.H.	G.S.	C.B.	SCALE: 1:250 (FULL)
I.B.	C.H.	G.S.	C.B.	
I.B.	C.H.	G.S.	C.B.	
I.B.	C.H.	G.S.	C.B.	
I.B.	C.H.	G.S.	C.B.	

**adw Johnson**

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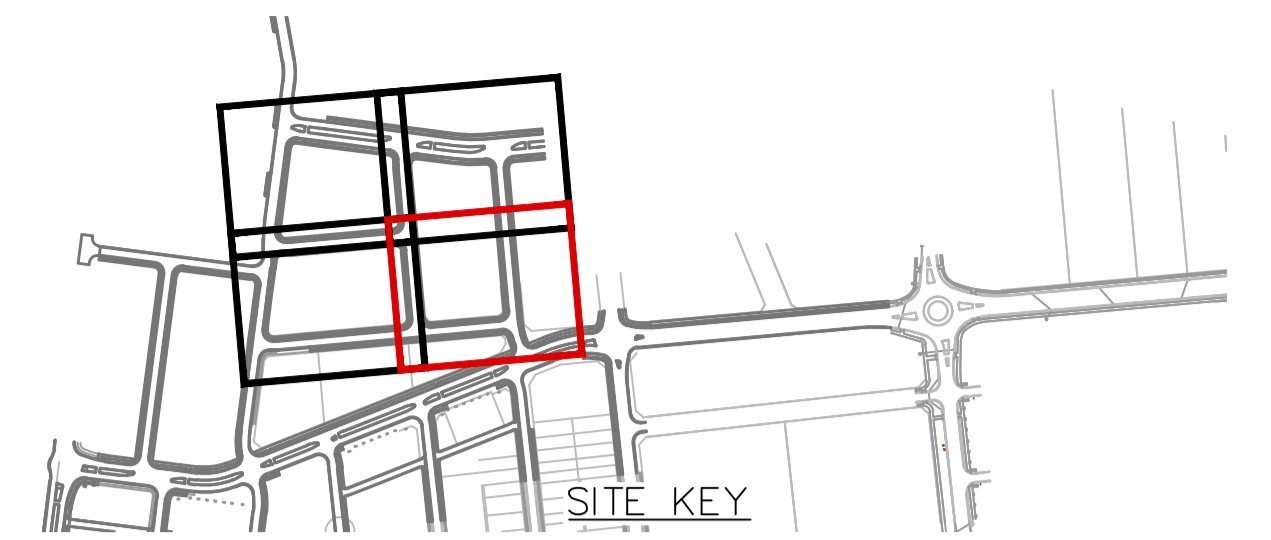
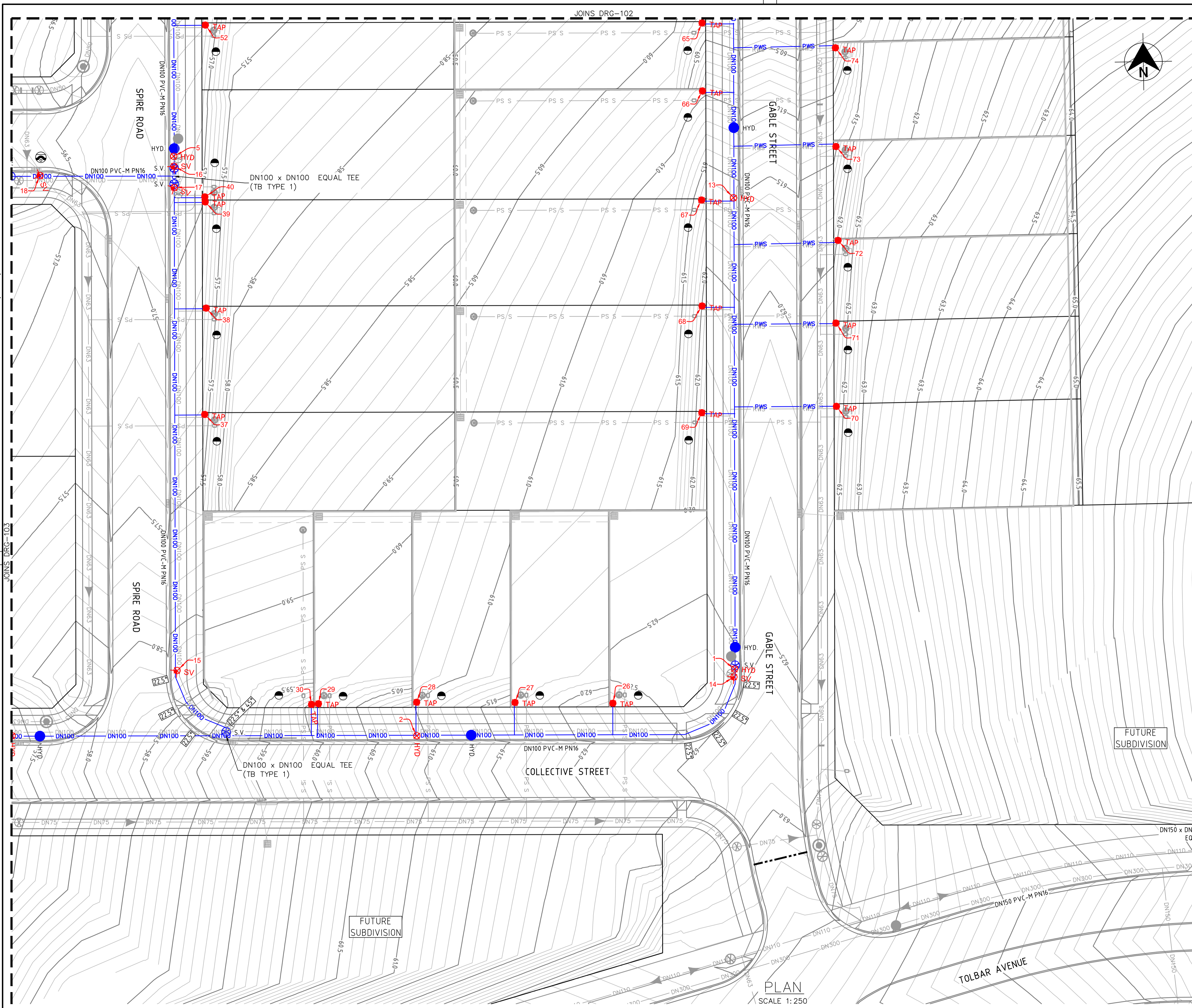
CLIENT

PROPERTY DESCRIPTION	
PROPOSED SUBDIVISION BRIDGING RESIDENTIAL - STAGE 7 HUNTLÉE	
SURVEYED	DATUM
Daly,Smith	GDA94 M.G.A. ZONE 56 A.H.D.

PROJECT			
POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION			
PLAN TITLE			
POTABLE WATER DETAIL PLAN 3			
PROJECT No.	DISCIPLINE	NUMBER	REV.
240037(BR7)	WAC	103	3

240037(BR7)-WAT-101

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.



- LEGEND**
- DN100 PVC-M POTABLE WATER RETICULATION
  - PWS PE POTABLE WATER PROPERTY SERVICE
  - DN100 PVC-M RECYCLED WATER RETICULATION
  - RWS PE RECYCLED WATER PROPERTY SERVICE
  - DN63 PE PRESSURE SEWER RETICULATION
  - PS S PE PRESSURE SEWER PROPERTY SERVICE
  - SW SW STORMWATER PIPEWORK
  - NBN EXISTING NBN CABLE (FROM BYDA PLANS ONLY)
  - G EXISTING GAS MAIN (FROM BYDA PLANS ONLY)
  - ex E EXISTING U/G POWER CABLE (FROM BYDA PLANS ONLY)
  - S.V. STOP VALVE
  - S.V. N.C. STOP VALVE NORMALLY CLOSED
  - 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° 45° 90° HORIZONTAL BEND ANGLE IN MAIN
  - LIMIT OF SUBDIVISION WORKS

- POTABLE WATER PROPERTY SERVICE CONNECTIONS**  
TOTAL 51 CONNECTIONS
- SINGLE SERVICES IN ACCORDANCE WITH WAT-1106-V
  - 32 x SHORT SIDE
  - 19 x LONG SIDE

POTABLE WATER PIPE DATA		
PIPE SIZE (mm)	PIPE MATERIAL	TOTAL LENGTH (m)
DN100	PVC-M PN16	741

- NOTES:**
- FOR RECYCLED WATER PIPEWORK DETAIL PLANS REFER TO DRGS-201 TO 203.
  - FOR PRESSURE SEWER PIPEWORK DETAIL PLANS REFER TO DRGS-301 TO 303.
  - FOR TYPICAL SERVICE CONNECTION DETAILS REFER TO DRG-402.
  - CONTRACTOR TO CONFIRM SHUTDOWN REQUIREMENTS AND SHUTDOWN DATE WITH ALTOGETHER WORKS SUPERVISOR AT A MINIMUM OF 2 WEEKS PRIOR TO PROPOSED REQUESTED SHUTDOWN DATE.
- PROVIDE SHUTDOWN PLAN DETAILING:
- DURATION OF REQUIRED SHUTDOWN
  - ISOLATION VALVES TO BE CLOSED
  - FLUSHING PLAN
- SEEK APPROVAL FROM ALTOGETHER WORKS SUPERVISOR TO PERFORM HOT TAP CONNECTION IF PREFERRED CONSTRUCTION METHODOLOGY FOR CONNECTION.

**WORK AS CONSTRUCTED**

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COMPANY	ADW Johnson Pty Ltd	COMPANY	
NAME	BASS RANDALL	NAME	
SIGNED	<i>Bass Randall</i>	DATE	26/06/2026
	REGISTERED SURVEYOR	SIGNED	
		DATE	
			CONSTRUCTION MANAGER

**ORIGIN OF W.A.C. LEVELS**

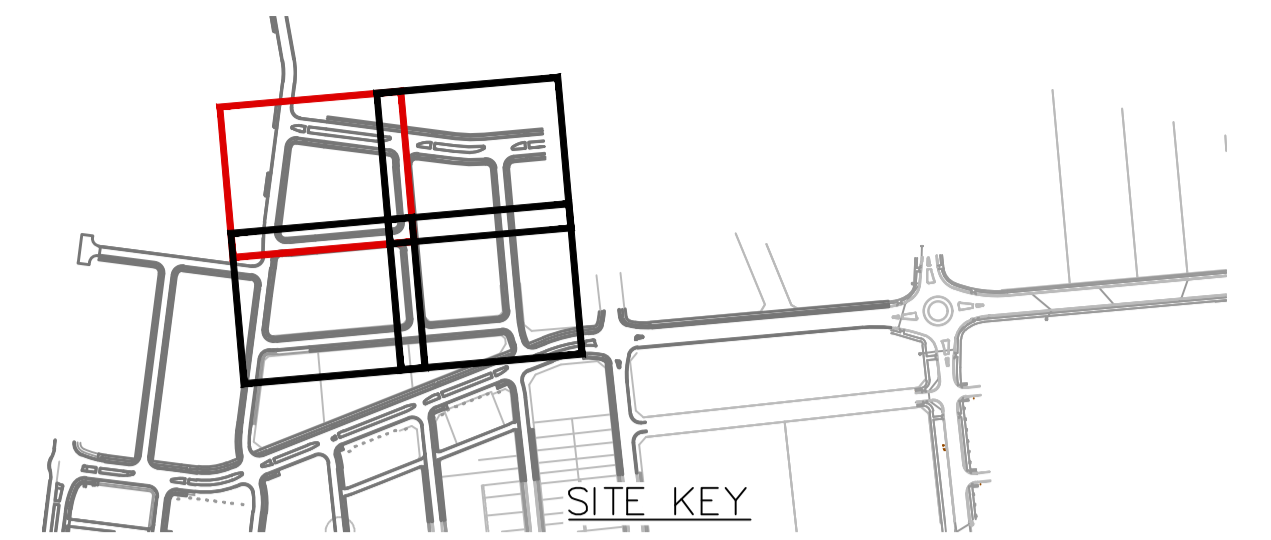
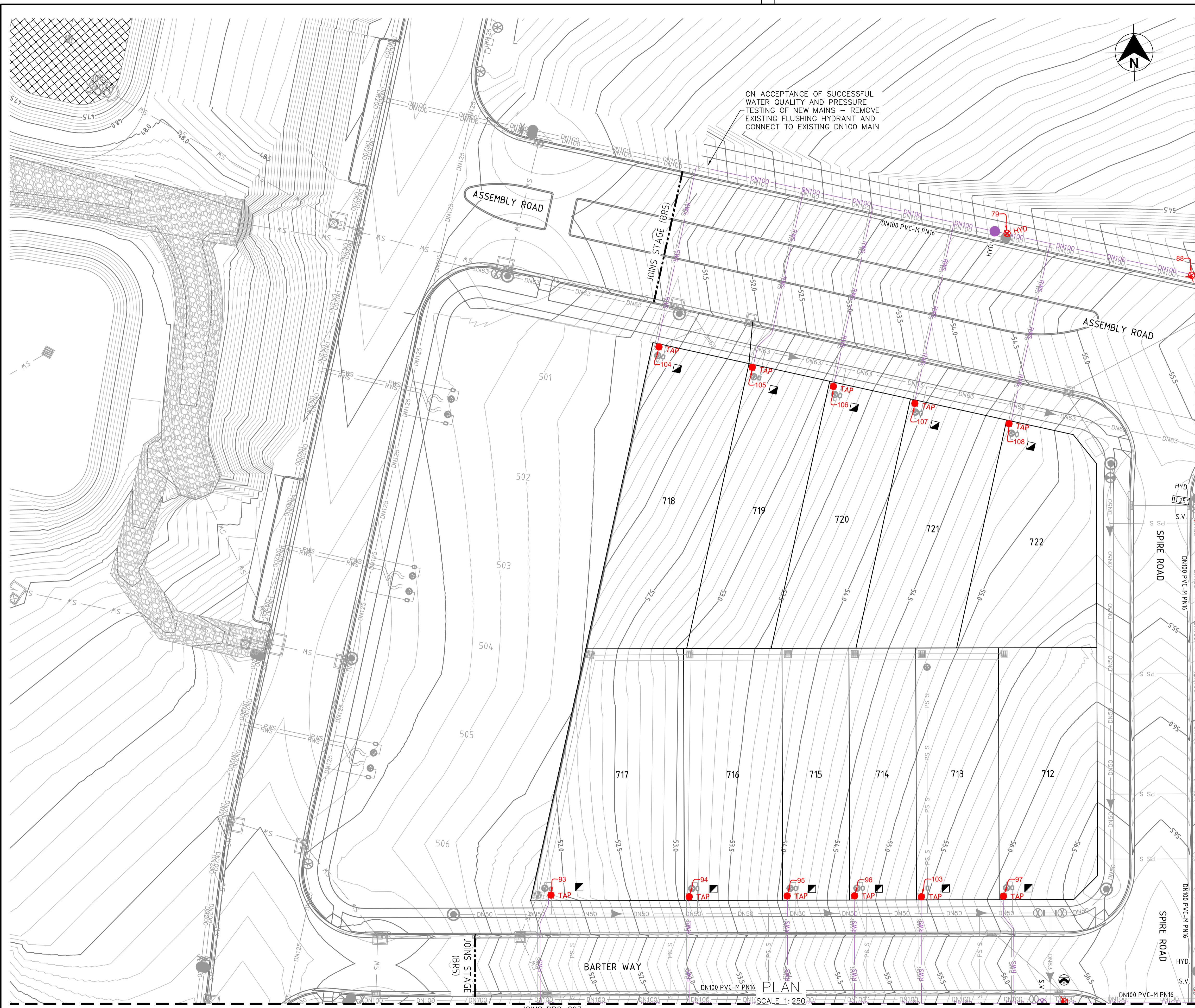
PM	20029	Co-Ord System:	MGA Ground
E	345612.942	MGA Datum:	GDA94
N	6382878.917	MGA Zone:	56
RL	77.675m		

**WORK AS CONSTRUCTED**

REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY	SCALES	CLIENT	PROPERTY DESCRIPTION	PROJECT	PLAN TITLE	PROJECT No.	DISCIPLINE	NUMBER	REV.
A	22.05.25	INITIAL ISSUE	I.B.	C.H.	G.S.	C.B.	0 5.0 10.0 12.5m								
B	17.06.25	AMENDED ISSUE	I.B.	C.H.	G.S.	C.B.									
0	25.07.25	CONSTRUCTION ISSUE	J.N.	C.H.	G.S.	C.B.									
1	03.10.25	AMENDED CONSTRUCTION ISSUE	I.B.	C.H.	G.S.	C.B.									
2	11.11.25	AMENDED CONSTRUCTION ISSUE	I.B.	C.H.	G.S.	C.B.									
3	26.06.26	WORK AS CONSTRUCTED	I.B.	C.H.	G.S.	C.B.									

240037(BR7)-WAT-201

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



- LEGEND**
- DN100 PVC-M RECycled WATER RETICULATION
  - RWS PE RECycled WATER PROPERTY SERVICE
  - DN100 PVC-M POTABLE WATER RETICULATION
  - PWS PE POTABLE WATER PROPERTY SERVICE
  - DN63 PE PRESSURE SEWER RETICULATION
  - PS S PE PRESSURE SEWER PROPERTY SERVICE
  - SW SW STORMWATER PIPEWORK
  - NBN EXISTING NBN CABLE (FROM BYDA PLANS ONLY)
  - G EXISTING GAS MAIN (FROM BYDA PLANS ONLY)
  - ex E EXISTING U/G POWER CABLE (FROM BYDA PLANS ONLY)
  - S.V. STOP VALVE
  - S.V. N.C. STOP VALVE NORMALLY CLOSED
  - HYD. HYDRANT
  - FL. HYD. FLUSHING HYDRANT
  - PROPERTY SERVICE CONNECTION
  - LAY WATER MAIN OVER STORMWATER PIPE (300mm MIN. VERTICAL CLEARANCE) - REFER TO WAT-1255-H
  - 112.5° 122.5° 125° 125° HORIZONTAL BEND ANGLE IN MAIN
  - LIMIT OF SUBDIVISION WORKS

- RECYCLED WATER PROPERTY SERVICE CONNECTIONS**
- TOTAL 51 CONNECTIONS
  - SINGLE SERVICES IN ACCORDANCE WITH WAT-1106-V
    - 32 x SHORT SIDE
    - 19 x LONG SIDE

RECYCLED WATER PIPE DATA		
DN100	PVC-M PN16	741

- NOTES:**
- FOR POTABLE WATER PIPEWORK DETAIL PLANS REFER TO DRGS-101 TO 103.
  - FOR PRESSURE SEWER PIPEWORK DETAIL PLANS REFER TO DRGS-301 TO 303.
  - FOR TYPICAL SERVICE CONNECTION DETAILS REFER TO DRG-402.
  - CONTRACTOR TO CONFIRM SHUTDOWN REQUIREMENTS AND SHUTDOWN DATE WITH ALTOGETHER WORKS SUPERVISOR AT A MINIMUM OF 2 WEEKS PRIOR TO PROPOSED REQUESTED SHUTDOWN DATE. PROVIDE SHUTDOWN PLAN DETAILING:
    - DURATION OF REQUIRED SHUTDOWN
    - ISOLATION VALVES TO BE CLOSED
    - FLUSHING PLAN
  - SEEK APPROVAL FROM ALTOGETHER WORKS SUPERVISOR TO PERFORM HOT TAP CONNECTION IF PREFERRED CONSTRUCTION METHODOLOGY FOR CONNECTION.

**WORK AS CONSTRUCTED**

THESE DRAWINGS ARE AN ACCURATE REPRESENTATION AS AT 01/06/2026 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	BASS RANDALL	NAME	
SIGNED	<i>Bass Randall</i>	DATE	26/06/2026
	REGISTERED SURVEYOR	SIGNED	
		DATE	
			CONSTRUCTION MANAGER

**ORIGIN OF W.A.C. LEVELS**

PM	20029	Co-Ord System	MGA Ground
E	345612.942	MGA Datum	GDA94
N	6382878.917	MGA Zone	56
RL	77.675m		



**WORK AS CONSTRUCTED**

REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY
A	22.05.25	INITIAL ISSUE	I.B.	C.H.	G.S.	C.B.
B	17.06.25	AMENDED ISSUE	I.B.	C.H.	G.S.	C.B.
0	25.07.25	CONSTRUCTION ISSUE	J.N.	C.H.	G.S.	C.B.
1	03.10.25	AMENDED CONSTRUCTION ISSUE	I.B.	C.H.	G.S.	C.B.
2	11.11.25	AMENDED CONSTRUCTION ISSUE	I.B.	C.H.	G.S.	C.B.
3	26.06.26	WORK AS CONSTRUCTED	I.B.	C.H.	G.S.	C.B.

**SCALES**

SCALE: 1:250 (FULL)

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

**adw Johnson**

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

CLIENT

PROPERTY DESCRIPTION

PROPOSED SUBDIVISION  
BRIDGING RESIDENTIAL - STAGE 7  
HUNTLEE

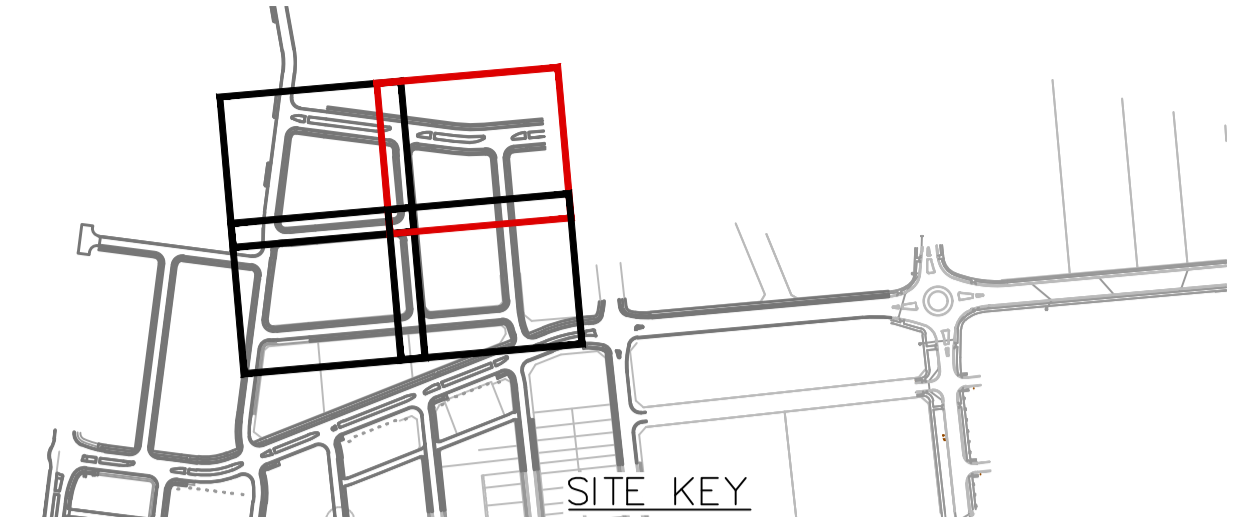
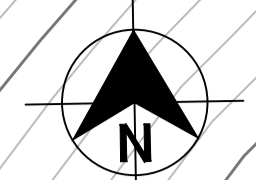
SURVEYED: Daly, Smith  
DATUM: GDA94 M.G.A. ZONE 56  
A.H.D.

PROJECT	POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION		
PLAN TITLE	RECYCLED WATER DETAIL PLAN 1		
PROJECT No.	DISCIPLINE	NUMBER	REV.
240037(BR7)	WAC	201	3

240037(BR7)-WAT-201

JOINS DRG-202

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.



- LEGEND**
- DN100 PVC-M RECYCLED WATER RETICULATION
  - RWS PE RECYCLED WATER PROPERTY SERVICE
  - DN100 PVC-M POTABLE WATER RETICULATION
  - PWS PE POTABLE WATER PROPERTY SERVICE
  - DN63 PE PRESSURE SEWER RETICULATION
  - PS S PE PRESSURE SEWER PROPERTY SERVICE
  - SW SW STORMWATER PIPEWORK
  - NBN NBN EXISTING NBN CABLE (FROM BYDA PLANS ONLY)
  - G G EXISTING GAS MAIN (FROM BYDA PLANS ONLY)
  - ex E ex E EXISTING U/G POWER CABLE (FROM BYDA PLANS ONLY)
  - S.V. STOP VALVE
  - S.V. N.C. STOP VALVE NORMALLY CLOSED
  - 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° 45° 90° HORIZONTAL BEND ANGLE IN MAIN
  - LIMIT OF SUBDIVISION WORKS

- RECYCLED WATER PROPERTY SERVICE CONNECTIONS**  
 TOTAL 51 CONNECTIONS  
 • SINGLE SERVICES IN ACCORDANCE WITH WAT-1106-V  
 • -32 x SHORT SIDE  
 • -19 x LONG SIDE

RECYCLED WATER PIPE DATA		
DN100	PVC-M PN16	741

- NOTES:**
- FOR POTABLE WATER PIPEWORK DETAIL PLANS REFER TO DRGS-101 TO 103.
  - FOR PRESSURE SEWER PIPEWORK DETAIL PLANS REFER TO DRGS-301 TO 303.
  - FOR TYPICAL SERVICE CONNECTION DETAILS REFER TO DRG-402.
  - CONTRACTOR TO CONFIRM SHUTDOWN REQUIREMENTS AND SHUTDOWN DATE WITH ALTOGETHER WORKS SUPERVISOR AT A MINIMUM OF 2 WEEKS PRIOR TO PROPOSED REQUESTED SHUTDOWN DATE. PROVIDE SHUTDOWN PLAN DETAILING:
    - DURATION OF REQUIRED SHUTDOWN
    - ISOLATION VALVES TO BE CLOSED
    - FLUSHING PLAN
  - SEEK APPROVAL FROM ALTOGETHER WORKS SUPERVISOR TO PERFORM HOT TAP CONNECTION IF PREFERRED CONSTRUCTION METHODOLOGY FOR CONNECTION.

**WORK AS CONSTRUCTED**

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COMPANY ADW Johnson Pty Ltd COMPANY  
 NAME BASS RANDALL NAME  
 SIGNED [Signature] DATE 26/06/2026 SIGNED [Signature] DATE [ ]  
 REGISTERED SURVEYOR REGISTERED SURVEYOR CONSTRUCTION MANAGER

**ORIGIN OF W.A.C. LEVELS**

PM 20029 Co-Ord System: MGA Ground  
 E: 345612.942 MGA Datum: GDA94  
 N: 6382878.917 MGA Zone: 56  
 RL: 77.675m

WORK AS CONSTRUCTED

REV.	DATE	AMENDMENT
A	22.05.25	INITIAL ISSUE
B	17.06.25	AMENDED ISSUE
0	25.07.25	CONSTRUCTION ISSUE
1	03.10.25	AMENDED CONSTRUCTION ISSUE
2	11.11.25	AMENDED CONSTRUCTION ISSUE
3	26.06.26	WORK AS CONSTRUCTED

DRAWN	CHECK	DESIGN	VERIFY
I.B.	C.H.	G.S.	C.B.
I.B.	C.H.	G.S.	C.B.
J.N.	C.H.	G.S.	C.B.
I.B.	C.H.	G.S.	C.B.
I.B.	C.H.	G.S.	C.B.
I.B.	C.H.	G.S.	C.B.

**adw Johnson**

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

CLIENT

PROPERTY DESCRIPTION

PROPOSED SUBDIVISION  
 BRIDGING RESIDENTIAL - STAGE 7  
 HUNTLEE

SURVEYED Daly,Smith

DATUM GDA94 M.G.A. ZONE 56

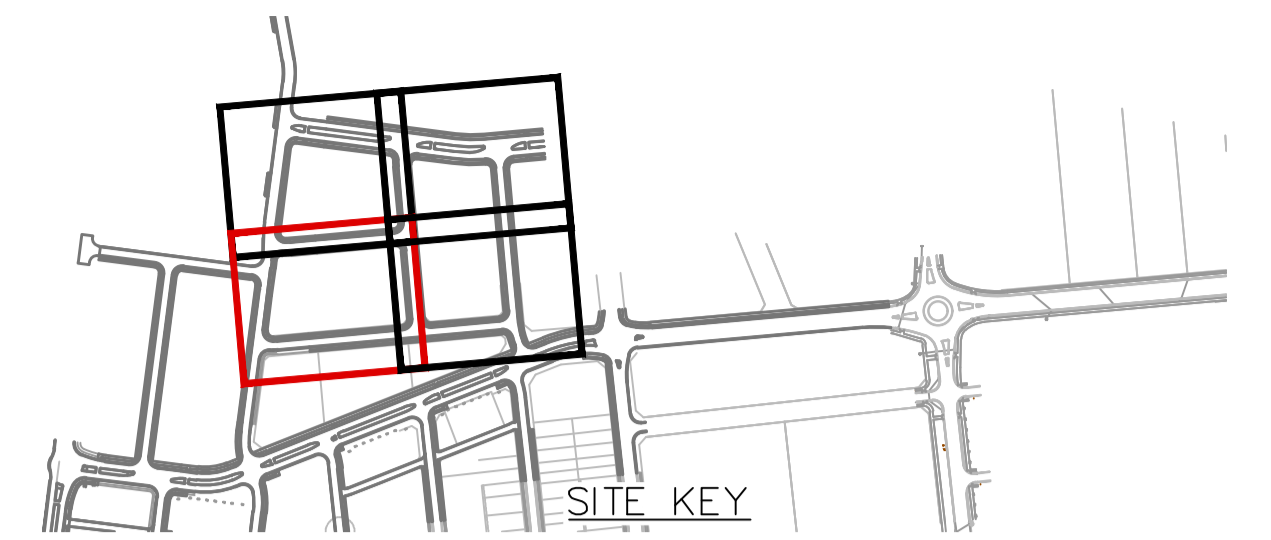
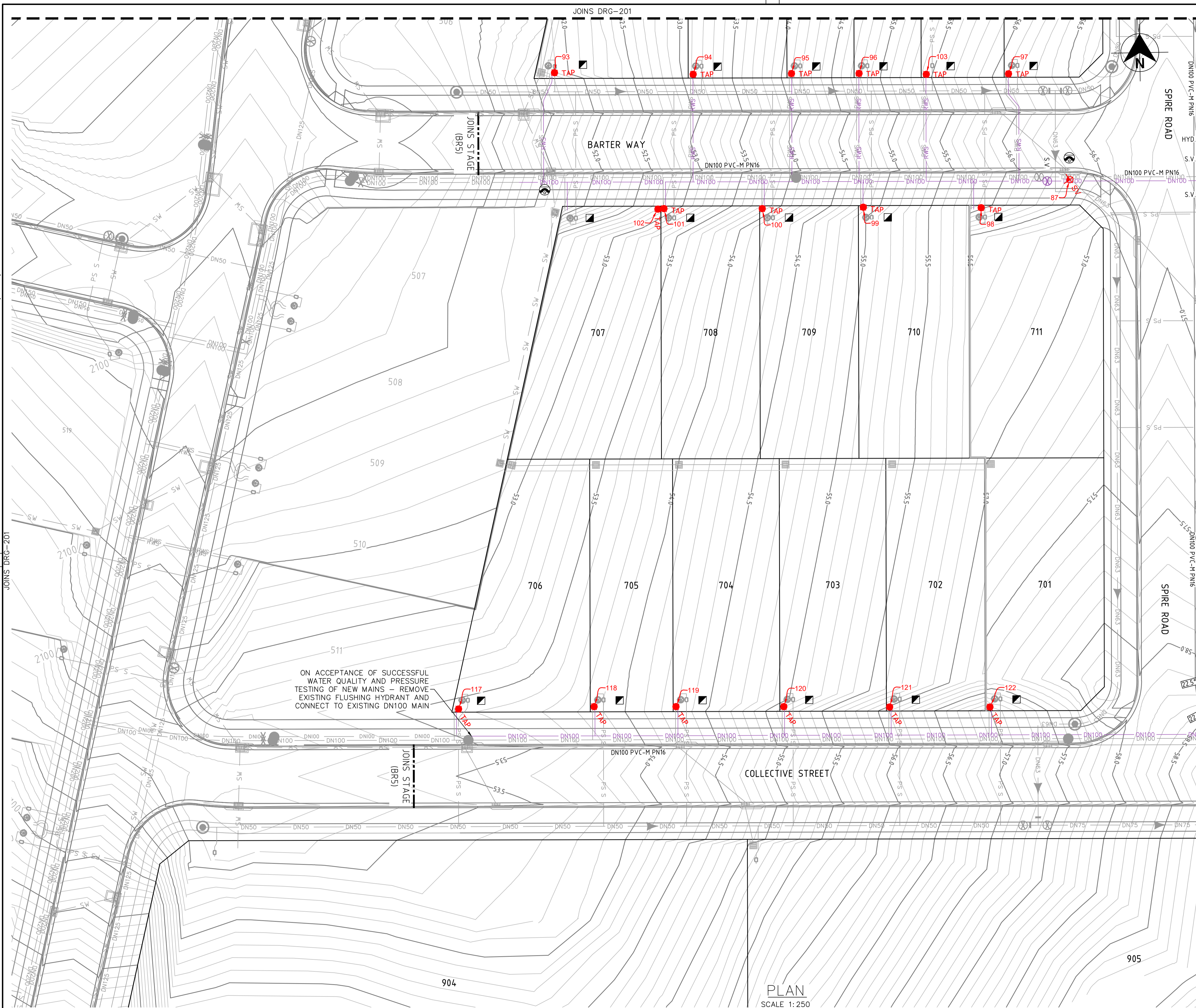
A.H.D.

PROJECT	PLAN TITLE	PROJECT No.	DISCIPLINE	NUMBER	REV.
POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION	RECYCLED WATER DETAIL PLAN 2	240037(BR7)	WAC	202	3

240037(BR7)-WAT-201

JOINS DRG-201

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.



- LEGEND**
- DN100 PVC-M PN16 PVC-M RECYCLED WATER RETICULATION
  - RWS PE RECYCLED WATER PROPERTY SERVICE
  - DN100 PVC-M POTABLE WATER RETICULATION
  - PWS PE POTABLE WATER PROPERTY SERVICE
  - DN63 PE PRESSURE SEWER RETICULATION
  - PS S PE PRESSURE SEWER PROPERTY SERVICE
  - SW STORMWATER PIPEWORK
  - NBN EXISTING NBN CABLE (FROM BYDA PLANS ONLY)
  - G EXISTING GAS MAIN (FROM BYDA PLANS ONLY)
  - ex E EXISTING U/G POWER CABLE (FROM BYDA PLANS ONLY)
  - S.V. STOP VALVE
  - S.V. N.C. STOP VALVE NORMALLY CLOSED
  - 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° 45° 90° HORIZONTAL BEND ANGLE IN MAIN
  - LIMIT OF SUBDIVISION WORKS

**RECYCLED WATER PROPERTY SERVICE CONNECTIONS**  
 TOTAL 51 CONNECTIONS  
 • SINGLE SERVICES IN ACCORDANCE WITH WAT-1106-V  
 -32 x SHORT SIDE  
 -19 x LONG SIDE

RECYCLED WATER PIPE DATA		
DN100	PVC-M PN16	741

- NOTES:**
- FOR POTABLE WATER PIPEWORK DETAIL PLANS REFER TO DRGS-101 TO 103.
  - FOR PRESSURE SEWER PIPEWORK DETAIL PLANS REFER TO DRGS-301 TO 303.
  - FOR TYPICAL SERVICE CONNECTION DETAILS REFER TO DRG-402.
  - CONTRACTOR TO CONFIRM SHUTDOWN REQUIREMENTS AND SHUTDOWN DATE WITH ALTOGETHER WORKS SUPERVISOR AT A MINIMUM OF 2 WEEKS PRIOR TO PROPOSED REQUESTED SHUTDOWN DATE.
- PROVIDE SHUTDOWN PLAN DETAILING:
- DURATION OF REQUIRED SHUTDOWN
  - ISOLATION VALVES TO BE CLOSED
  - FLUSHING PLAN
  - SEEK APPROVAL FROM ALTOGETHER WORKS SUPERVISOR TO PERFORM HOT TAP CONNECTION IF PREFERRED CONSTRUCTION METHODOLOGY FOR CONNECTION.

ON ACCEPTANCE OF SUCCESSFUL WATER QUALITY AND PRESSURE TESTING OF NEW MAINS - REMOVE EXISTING FLUSHING HYDRANT AND CONNECT TO EXISTING DN100 MAIN

**WORK AS CONSTRUCTED**  
 THESE DRAWINGS ARE AN ACCURATE REPRESENTATION AS AT 01/06/2026 OF THE WORK-AS-CONSTRUCTED, BUT THE POSITION OF THE WORK RELATIVE TO OTHER STRUCTURES OR BOUNDARIES IS APPROXIMATE ONLY AND HAS NOT BEEN VERIFIED BY PRECISE SURVEY.

COMPANY ADW Johnson Pty Ltd  
 NAME BASS RANDALL  
 SIGNED [Signature] DATE 26/06/2026 REGISTERED SURVEYOR

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

**ORIGIN OF W.A.C. LEVELS**  
 PM 20029  
 E: 345612.942  
 N: 6382878.917  
 RL: 77.675m

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



**WORK AS CONSTRUCTED**

REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY	SCALES
A	22.05.25	INITIAL ISSUE	I.B.	C.H.	G.S.	C.B.	 SCALE: 1:250 (FULL)
B	17.06.25	AMENDED ISSUE	I.B.	C.H.	G.S.	C.B.	
0	25.07.25	CONSTRUCTION ISSUE	I.B.	C.H.	G.S.	C.B.	
1	03.10.25	AMENDED CONSTRUCTION ISSUE	I.B.	C.H.	G.S.	C.B.	
2	11.11.25	AMENDED CONSTRUCTION ISSUE	I.B.	C.H.	G.S.	C.B.	
3	26.06.26	WORK AS CONSTRUCTED	I.B.	C.H.	G.S.	C.B.	

DRAWN	CHECK	DESIGN	VERIFY
I.B.	C.H.	G.S.	C.B.
I.B.	C.H.	G.S.	C.B.
I.B.	C.H.	G.S.	C.B.
I.B.	C.H.	G.S.	C.B.
I.B.	C.H.	G.S.	C.B.

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

**adw Johnson**

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

CLIENT

PROPERTY DESCRIPTION

PROPOSED SUBDIVISION  
 BRIDGING RESIDENTIAL - STAGE 7  
 HUNTLÉE

SURVEYED Daly, Smith

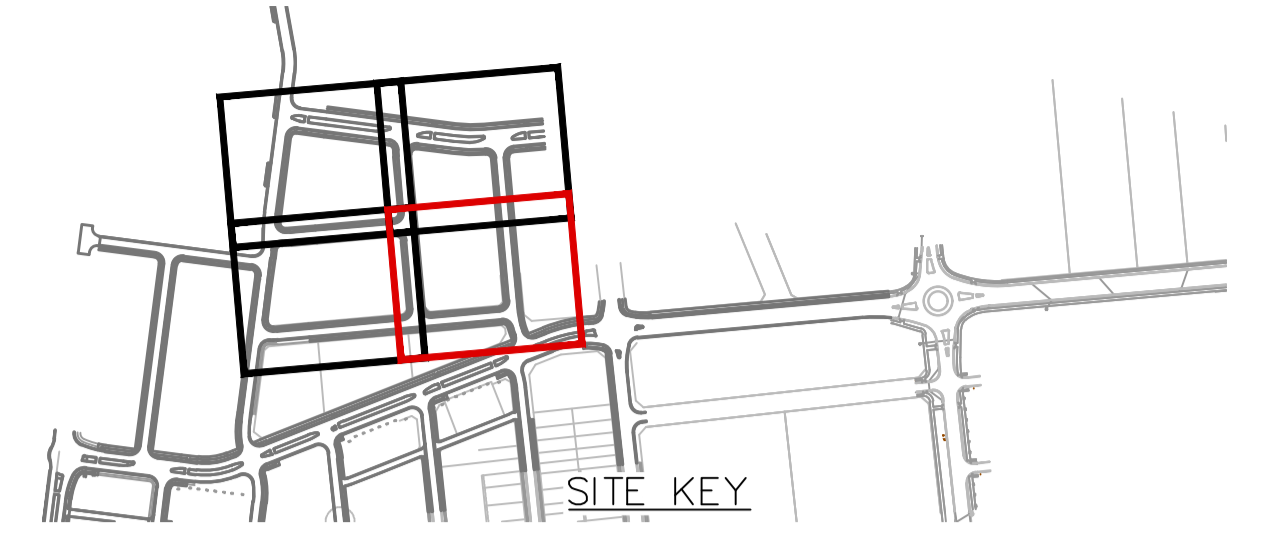
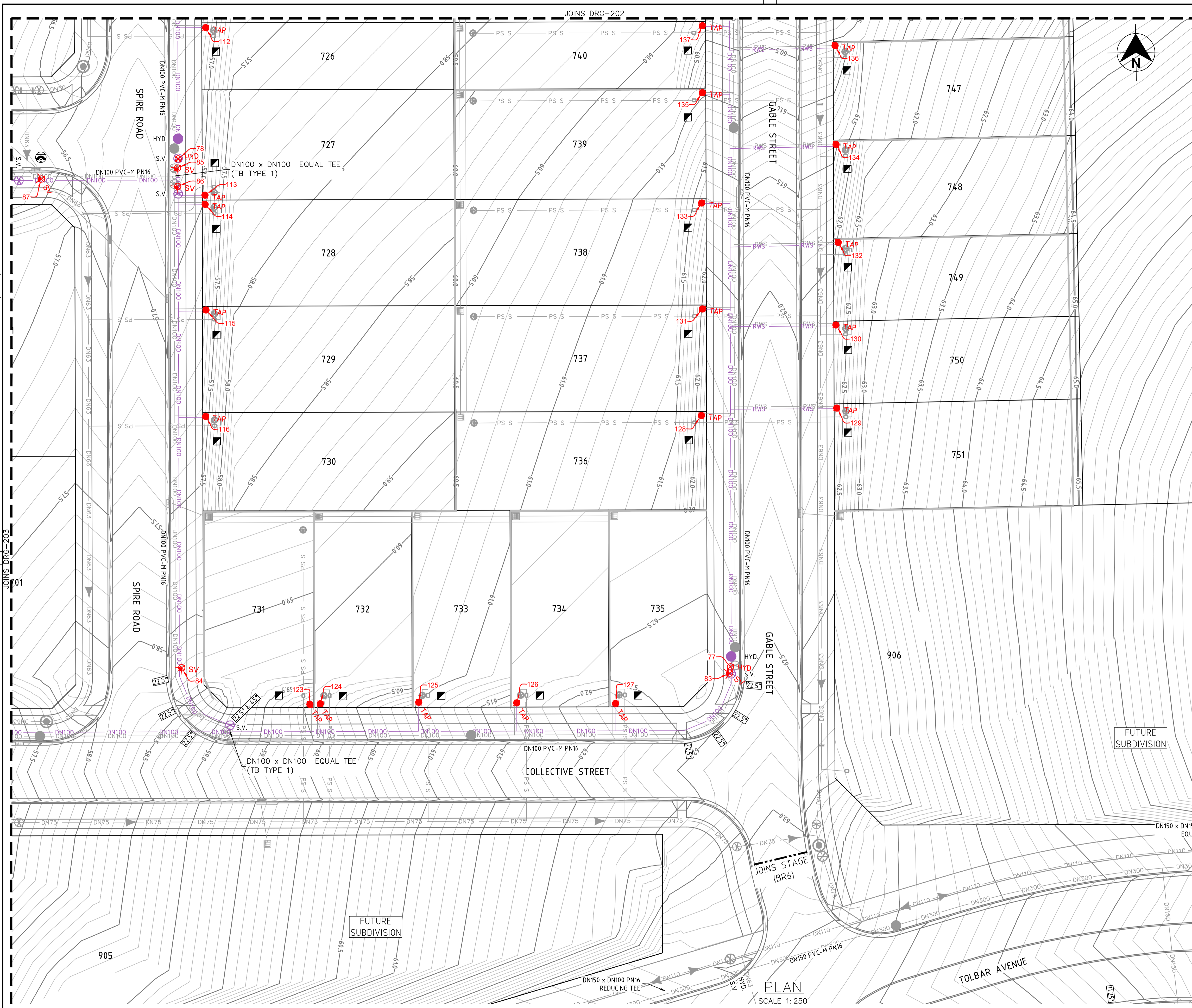
DATUM GDA94 M.G.A. ZONE 56

A.H.D.

PROJECT	PLAN TITLE	PROJECT No.	DISCIPLINE	NUMBER	REV.
POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION	RECYCLED WATER DETAIL PLAN 3	240037(BR7)	WAC	203	3

240037(BR7)-WAT-201

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.



**LEGEND**

DN100	PVC-M RECYCLED WATER RETICULATION
RWS	PE RECYCLED WATER PROPERTY SERVICE
DN100	PVC-M POTABLE WATER RETICULATION
PWS	PE POTABLE WATER PROPERTY SERVICE
DN63	PE PRESSURE SEWER RETICULATION
PS S	PE PRESSURE SEWER PROPERTY SERVICE
SW	STORMWATER PIPEWORK
NBN	EXISTING NBN CABLE (FROM BYDA PLANS ONLY)
G	EXISTING GAS MAIN (FROM BYDA PLANS ONLY)
ex E	EXISTING U/G POWER CABLE (FROM BYDA PLANS ONLY)
S.V.	STOP VALVE
S.V. N.C.	STOP VALVE NORMALLY CLOSED
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° 45° 90°	HORIZONTAL BEND ANGLE IN MAIN
- - - - -	LIMIT OF SUBDIVISION WORKS

**RECYCLED WATER PROPERTY SERVICE CONNECTIONS**  
 TOTAL 51 CONNECTIONS  
 • SINGLE SERVICES IN ACCORDANCE WITH WAT-1106-V  
 -32 x SHORT SIDE  
 -19 x LONG SIDE

RECYCLED WATER PIPE DATA		
DN100	PVC-M PN16	741

- NOTES:**
- FOR POTABLE WATER PIPEWORK DETAIL PLANS REFER TO DRGS-101 TO 103.
  - FOR PRESSURE SEWER PIPEWORK DETAIL PLANS REFER TO DRGS-301 TO 303.
  - FOR TYPICAL SERVICE CONNECTION DETAILS REFER TO DRG-402.
  - CONTRACTOR TO CONFIRM SHUTDOWN REQUIREMENTS AND SHUTDOWN DATE WITH ALTOGETHER WORKS SUPERVISOR AT A MINIMUM OF 2 WEEKS PRIOR TO PROPOSED REQUESTED SHUTDOWN DATE. PROVIDE SHUTDOWN PLAN DETAILING:
    - DURATION OF REQUIRED SHUTDOWN
    - ISOLATION VALVES TO BE CLOSED
    - FLUSHING PLAN
  - SEEK APPROVAL FROM ALTOGETHER WORKS SUPERVISOR TO PERFORM HOT TAP CONNECTION IF PREFERRED CONSTRUCTION METHODOLOGY FOR CONNECTION.

**WORK AS CONSTRUCTED**

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COMPANY	ADW Johnson Pty Ltd	COMPANY	
NAME	BASS RANDALL	NAME	
SIGNED	<i>Bass Randall</i>	DATE	26/06/2026
	REGISTERED SURVEYOR	SIGNED	
		DATE	
			CONSTRUCTION MANAGER

**ORIGIN OF W.A.C. LEVELS**

PH 20029  
 E: 345612.942  
 N: 6382878.917  
 RL: 77.675m

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

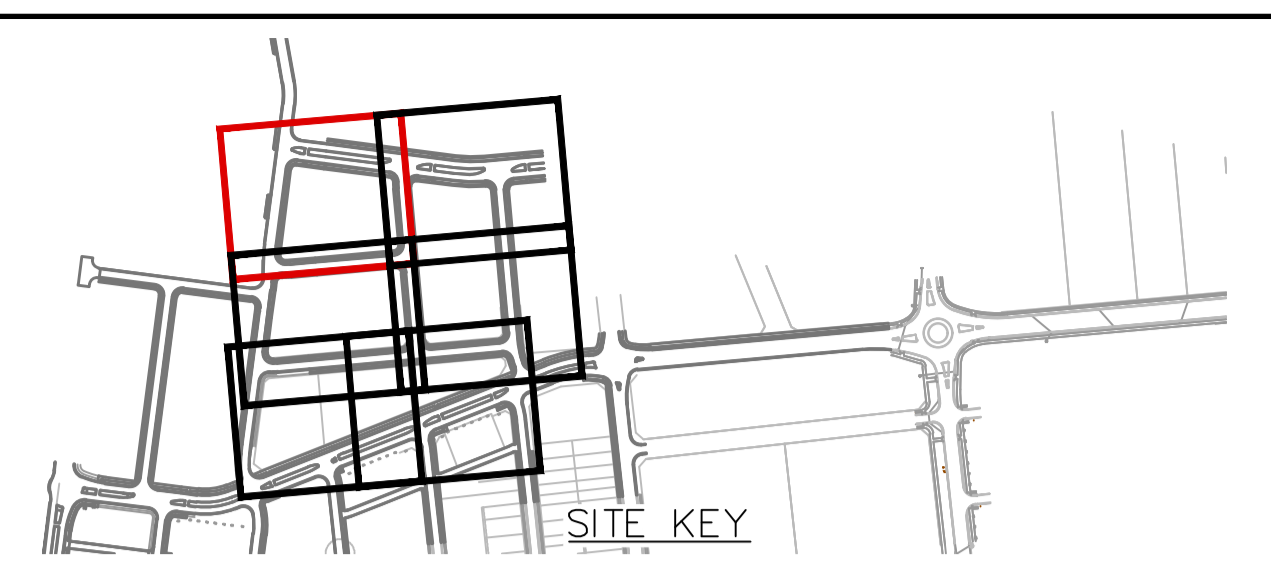
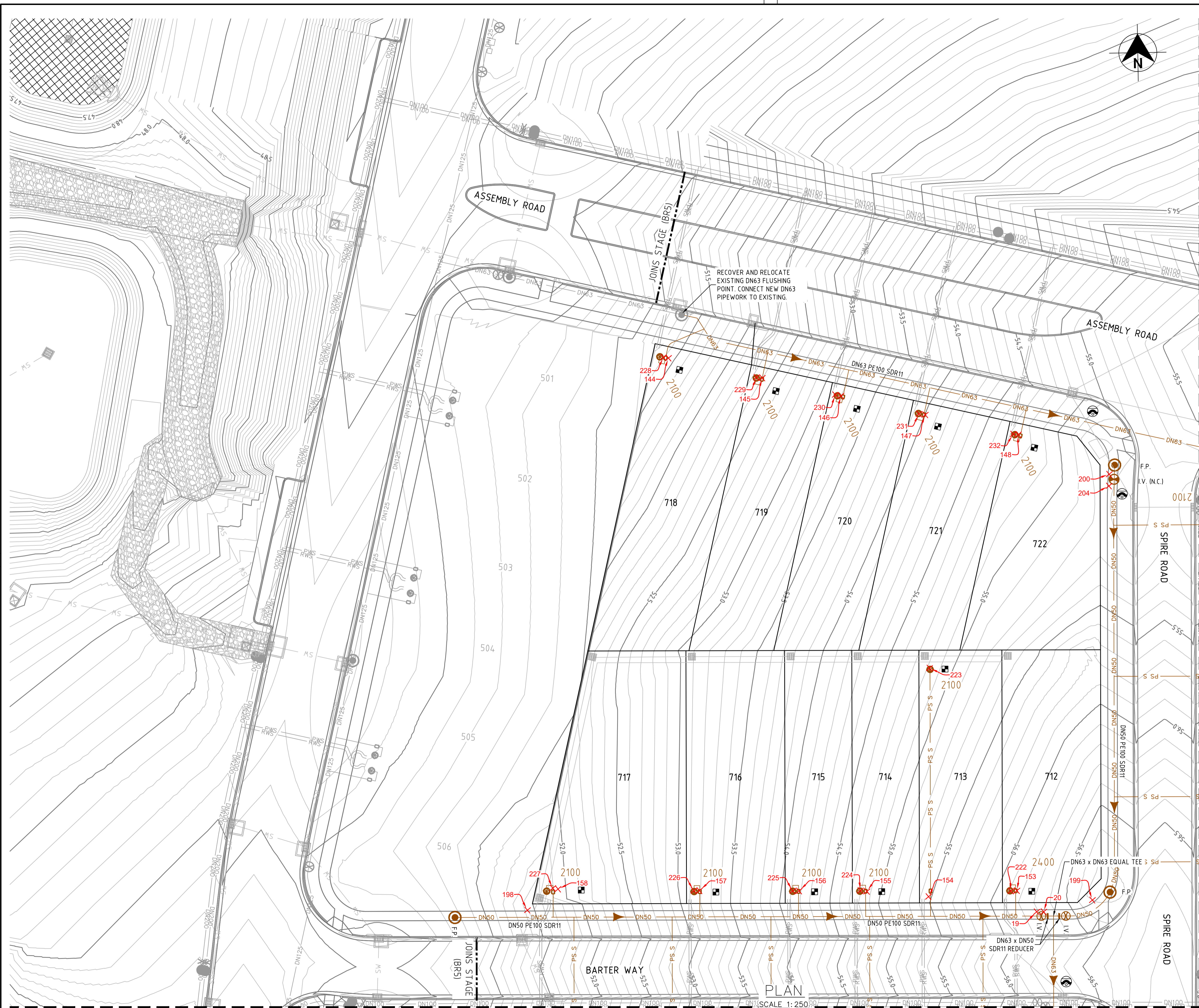


**WORK AS CONSTRUCTED**

REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY	SCALES	CLIENT	PROPERTY DESCRIPTION	PROJECT	PLAN TITLE	PROJECT No.	DISCIPLINE	NUMBER	REV.
A	22.05.25	INITIAL ISSUE	I.B.	C.H.	G.S.	C.B.	0 5.0 10.0 12.5m								
B	17.06.25	AMENDED ISSUE	I.B.	C.H.	G.S.	C.B.	SCALE: 1:250 (FULL)	<p>DAly,Smith</p>	<p>GDA94 M.G.A. ZONE 56 A.H.D.</p>						
0	25.07.25	CONSTRUCTION ISSUE	J.N.	C.H.	G.S.	C.B.									
1	03.10.25	AMENDED CONSTRUCTION ISSUE	I.B.	C.H.	G.S.	C.B.									
2	11.11.25	AMENDED CONSTRUCTION ISSUE	I.B.	C.H.	G.S.	C.B.									
3	26.06.26	WORK AS CONSTRUCTED	I.B.	C.H.	G.S.	C.B.									

240037(BR7)-WAT-301

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.



- LEGEND**
- SP --- SP --- PE PRESSURE SEWER RETICULATION
  - PS S --- PS S --- PE PRESSURE SEWER PROPERTY SERVICE
  - W --- W --- PVC-M POTABLE WATER RETICULATION
  - PWS --- PWS --- PE POTABLE WATER PROPERTY SERVICE
  - RW --- RW --- PVC-M RECYCLED WATER RETICULATION
  - RWS --- RWS --- PE RECYCLED WATER PROPERTY SERVICE
  - SW --- SW --- STORMWATER PIPEWORK
  - --- DRAINAGE EASEMENT
- I.V. --- ISOLATION VALVE
  - I.V. (N.C.) --- ISOLATION VALVE (NORMALLY CLOSED)
  - F.P. --- FLUSHING POINT
  - --- WASTEWATER COLLECTION TANK AND BOUNDARY KIT
  - --- PRESSURE SEWER FLOW DIRECTION (& TEMP. FLOW DIRECTION - RED)
  - --- PROPERTY SERVICE CONNECTION
  - --- LAY PRESSURE SEWER MAIN UNDER STORMWATER PIPE (300mm MIN. VERTICAL CLEARANCE) - REFER TO WAT-1255-H
  - --- LIMIT OF SUBDIVISION WORKS

- PRESSURE SEWER PROPERTY SERVICE CONNECTIONS**  
 TOTAL 53 CONNECTIONS  
 • SINGLE SERVICES  
 -19 x SHORT SIDE  
 -32 x LONG SIDE  
**BR8 POTABLE WATER PROPERTY SERVICE CONNECTIONS**  
 COMMERCIAL BOUNDARY KITS TO BE INSTALLED FOR BR8  
 • SINGLE SERVICES IN ACCORDANCE WITH AT-1106-V  
 -2 x SHORT SIDE  
 -1 EXISTING FROM BR5

PRESSURE SEWER PIPE DATA		
PIPE SIZE (mm)	PIPE MATERIAL	TOTAL LENGTH (m)
DN75	PE PN16	119
DN63	PE PN16	376
DN50	PE PN16	288
DN40 (LATERAL)	PE PN16	618

- NOTES:**
- FOR POTABLE WATER PIPEWORK DETAIL PLANS REFER TO DRGS-101 TO 103.
  - FOR RECYCLED WATER PIPEWORK DETAIL PLANS REFER TO DRGS-201 TO 203.
  - FOR TYPICAL SERVICE CONNECTION DETAILS REFER TO DRG-402.
  - FOR FLUSHING POINT TYPICAL DETAILS REFER TO STANDARD DRAWING PSS-1017-FS.
  - FOR FLOW MONITORING POINT TYPICAL DETAILS REFER TO STANDARD DRAWING PSS-1115-FS.
  - CONTRACTOR MAY BEND POLYETHYLENE PIPEWORK IN PLACE OF USING STANDARD FITTINGS WITH A MIN. BENDING RADIUS OF 20 x PIPE DIAM. ALL BENDS SHALL BE ELECTROFUSION SWEEP BENDS (FABRICATED BENDS SHALL NOT BE USED).
  - CONTRACTOR TO CONFIRM SHUTDOWN REQUIREMENTS AND SHUTDOWN DATE WITH ALTOGETHER WORKS SUPERVISOR (NED CAMPBELL) AT A MINIMUM OF 2 WEEKS PRIOR TO PROPOSED REQUESTED SHUTDOWN DATE. PROVIDE SHUTDOWN PLAN DETAIL:  
 - DURATION OF REQUIRED SHUTDOWN  
 - ISOLATION VALVES TO BE CLOSED
  - WHEN PRESSURE SEWER TANKS AND BOUNDARY KITS ARE LOCATED AT SPLAY CORNERS OF LOTS, THE INSTALLER IS TO CONFIRM ORIENTATION OF TANK AND BOUNDARY KIT WITH SUPERINTENDENT PRIOR TO INSTALLATION.

**WORK AS CONSTRUCTED**  
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COMPANY ADW Johnson Pty Ltd COMPANY  
 NAME BASS RANDALL NAME  
 SIGNED [Signature] DATE 26/06/2026 SIGNED [Signature] DATE [Signature]  
 REGISTERED SURVEYOR CONSTRUCTION MANAGER

**ORIGIN OF W.A.C. LEVELS**  
 PM 20029  
 E: 345612.942  
 N: 6382878.917  
 RL: 77.675m  
 Co-Ord System: MGA Ground  
 MGA Datum: GDA94  
 MGA Zone: 56



**WORK AS CONSTRUCTED**

REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY
A	22.05.25	INITIAL ISSUE	I.B.	C.H.	G.S.	C.B.
B	17.06.25	AMENDED ISSUE	I.B.	C.H.	G.S.	C.B.
0	25.07.25	CONSTRUCTION ISSUE	J.N.	C.H.	G.S.	C.B.
1	03.10.25	AMENDED CONSTRUCTION ISSUE	I.B.	C.H.	G.S.	C.B.
2	11.11.25	AMENDED CONSTRUCTION ISSUE	I.B.	C.H.	G.S.	C.B.
3	26.06.26	WORK AS CONSTRUCTED	I.B.	C.H.	G.S.	C.B.

DRAWN	CHECK	DESIGN	VERIFY
I.B.	C.H.	G.S.	C.B.
J.N.	C.H.	G.S.	C.B.
I.B.	C.H.	G.S.	C.B.
I.B.	C.H.	G.S.	C.B.
I.B.	C.H.	G.S.	C.B.

**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

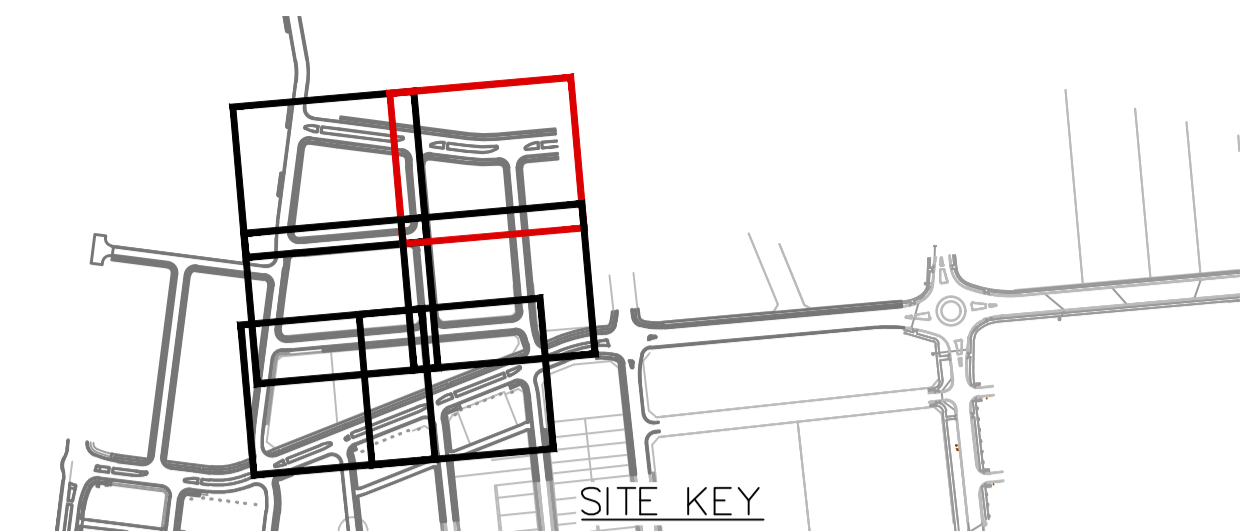
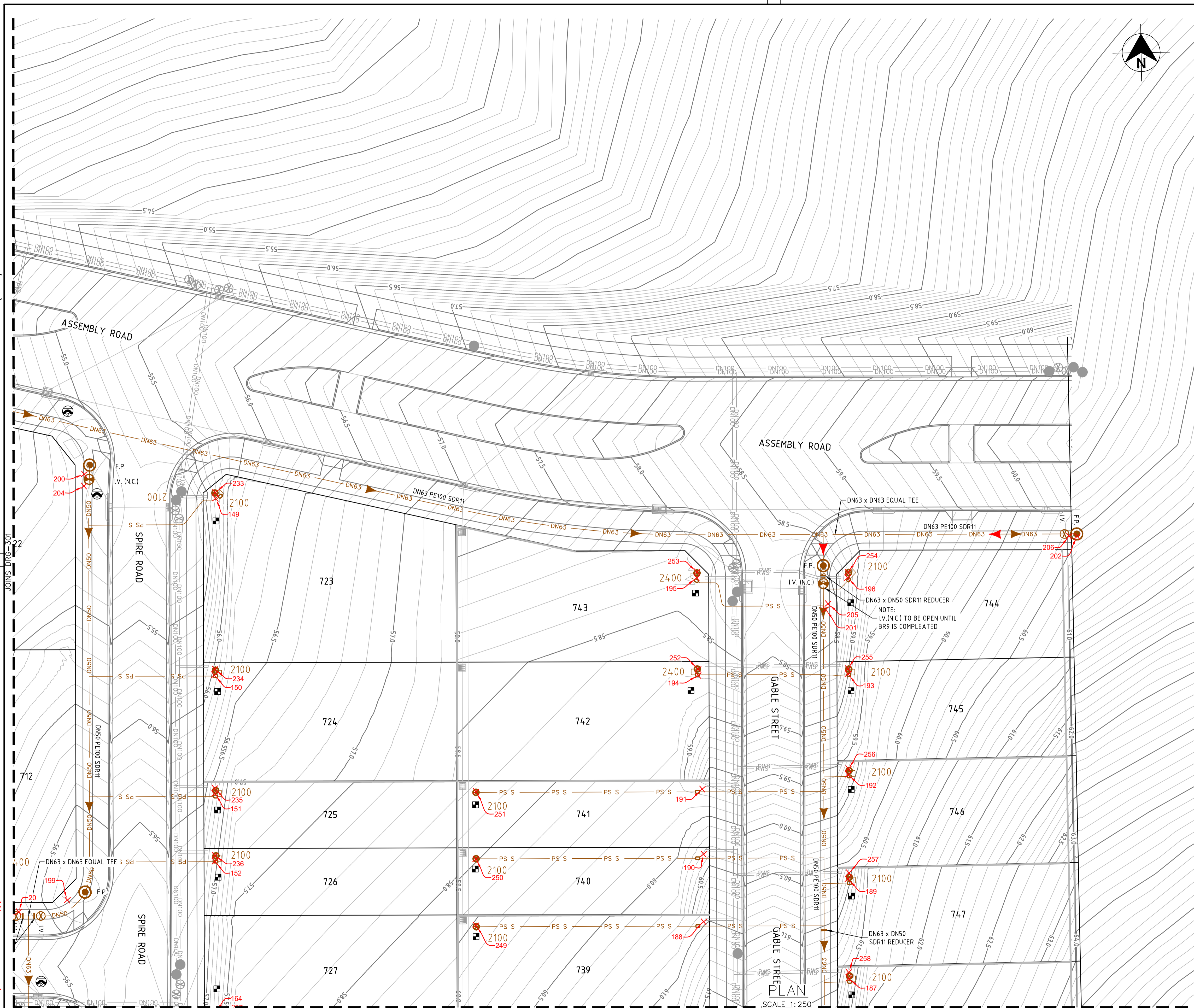
**altogether.**

PROPERTY DESCRIPTION		
PROPOSED SUBDIVISION BRIDGING RESIDENTIAL - STAGE 7 HUNTLEE		
SURVEYED Daly,Smith	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 1			
PROJECT No. 240037(BR7)	DISCIPLINE WAC	NUMBER 301	REV. 3

240037(BR7)-WAT-301

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.



- LEGEND**
- SP --- SP --- SP --- PE PRESSURE SEWER RETICULATION
  - PS S --- PS S --- PS S --- PE PRESSURE SEWER PROPERTY SERVICE
  - W --- W --- W --- PVC-M POTABLE WATER RETICULATION
  - PWS --- PWS --- PWS --- PE POTABLE WATER PROPERTY SERVICE
  - RW --- RW --- RW --- PVC-M RECYCLED WATER RETICULATION
  - RWS --- RWS --- RWS --- PE RECYCLED WATER PROPERTY SERVICE
  - SW --- SW --- SW --- STORMWATER PIPEWORK
  - --- --- DRAINAGE EASEMENT
- I.V. ISOLATION VALVE
  - I.V. (N.C.) ISOLATION VALVE (NORMALLY CLOSED)
  - F.P. FLUSHING POINT
  - WASTEWATER COLLECTION TANK AND BOUNDARY KIT
  - PRESSURE SEWER FLOW DIRECTION & TEMP. FLOW DIRECTION - RED
  - PROPERTY SERVICE CONNECTION
  - LAY PRESSURE SEWER MAIN UNDER STORMWATER PIPE (300mm MIN. VERTICAL CLEARANCE) - REFER TO WAT-1255-H
  - LIMIT OF SUBDIVISION WORKS

- PRESSURE SEWER PROPERTY SERVICE CONNECTIONS**  
TOTAL 53 CONNECTIONS
- SINGLE SERVICES
    - 19 x SHORT SIDE
    - 32 x LONG SIDE
- BR8 POTABLE WATER PROPERTY SERVICE CONNECTIONS**  
COMMERCIAL BOUNDARY KITS TO BE INSTALLED FOR BR8
- SINGLE SERVICES IN ACCORDANCE WITH AT-1106-V
    - 2 x SHORT SIDE
    - 1 EXISTING FROM BR5

PIPE SIZE (mm)	PIPE MATERIAL	TOTAL LENGTH (m)
DN75	PE PN16	119
DN63	PE PN16	376
DN50	PE PN16	288
DN40 (LATERAL)	PE PN16	618

- NOTES:**
- FOR POTABLE WATER PIPEWORK DETAIL PLANS REFER TO DRGS-101 TO 103.
  - FOR RECYCLED WATER PIPEWORK DETAIL PLANS REFER TO DRGS-201 TO 203.
  - FOR TYPICAL SERVICE CONNECTION DETAILS REFER TO DRG-402.
  - FOR FLUSHING POINT TYPICAL DETAILS REFER TO STANDARD DRAWING PSS-1017-FS.
  - FOR FLOW MONITORING POINT TYPICAL DETAILS REFER TO STANDARD DRAWING PSS-1115-FS.
  - CONTRACTOR MAY BEND POLYETHYLENE PIPEWORK IN PLACE OF USING STANDARD FITTINGS WITH A MIN. BENDING RADIUS OF 20 x PIPE DIAM. ALL BENDS SHALL BE ELECTROFUSION SWEEP BENDS (FABRICATED BENDS SHALL NOT BE USED).
  - CONTRACTOR TO CONFIRM SHUTDOWN REQUIREMENTS AND SHUTDOWN DATE WITH ALTOGETHER WORKS SUPERVISOR (NED CAMPBELL) AT A MINIMUM OF 2 WEEKS PRIOR TO PROPOSED REQUESTED SHUTDOWN DATE. PROVIDE SHUTDOWN PLAN DETAIL:
    - DURATION OF REQUIRED SHUTDOWN
    - ISOLATION VALVES TO BE CLOSED
  - WHEN PRESSURE SEWER TANKS AND BOUNDARY KITS ARE LOCATED AT SPLAY CORNERS OF LOTS, THE INSTALLER IS TO CONFIRM ORIENTATION OF TANK AND BOUNDARY KIT WITH SUPERINTENDENT PRIOR TO INSTALLATION.

**WORK AS CONSTRUCTED**

THESE DRAWINGS ARE AN ACCURATE REPRESENTATION AS AT 01/06/2026 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	BASS RANDALL	NAME	
SIGNED		DATE	26/06/2026
	REGISTERED SURVEYOR	SIGNED	
		DATE	
			CONSTRUCTION MANAGER

**ORIGIN OF W.A.C. LEVELS**

PM	20029	Co-Ord System:	MGA Ground
E	345612.942	MGA Datum:	GDA94
N	6382878.917	MGA Zone:	56
RL	77.675m		

**WORK AS CONSTRUCTED**

REV.	DATE	AMENDMENT
A	22.05.25	INITIAL ISSUE
B	17.06.25	AMENDED ISSUE
0	25.07.25	CONSTRUCTION ISSUE
1	03.10.25	AMENDED CONSTRUCTION ISSUE
2	11.11.25	AMENDED CONSTRUCTION ISSUE
3	26.06.26	WORK AS CONSTRUCTED

DRAWN	CHECK	DESIGN	VERIFY	SCALES
I.B.	C.H.	G.S.	C.B.	0 5.0 10.0 12.5m
I.B.	C.H.	G.S.	C.B.	SCALE: 1:250 (FULL)
J.N.	C.H.	G.S.	C.B.	
I.B.	C.H.	G.S.	C.B.	
I.B.	C.H.	G.S.	C.B.	
I.B.	C.H.	G.S.	C.B.	

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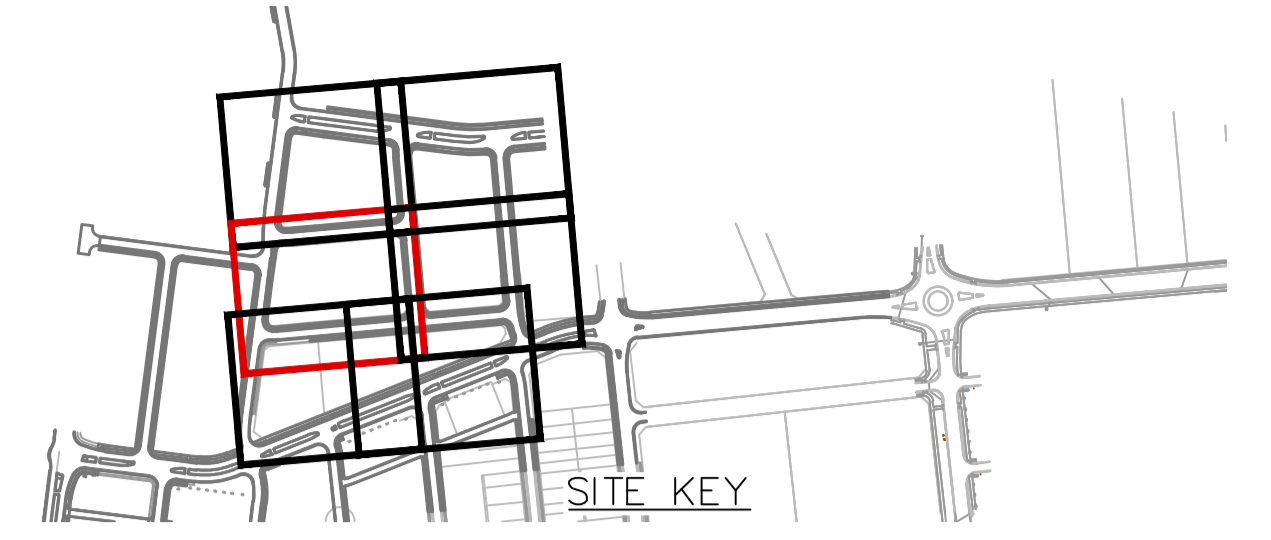
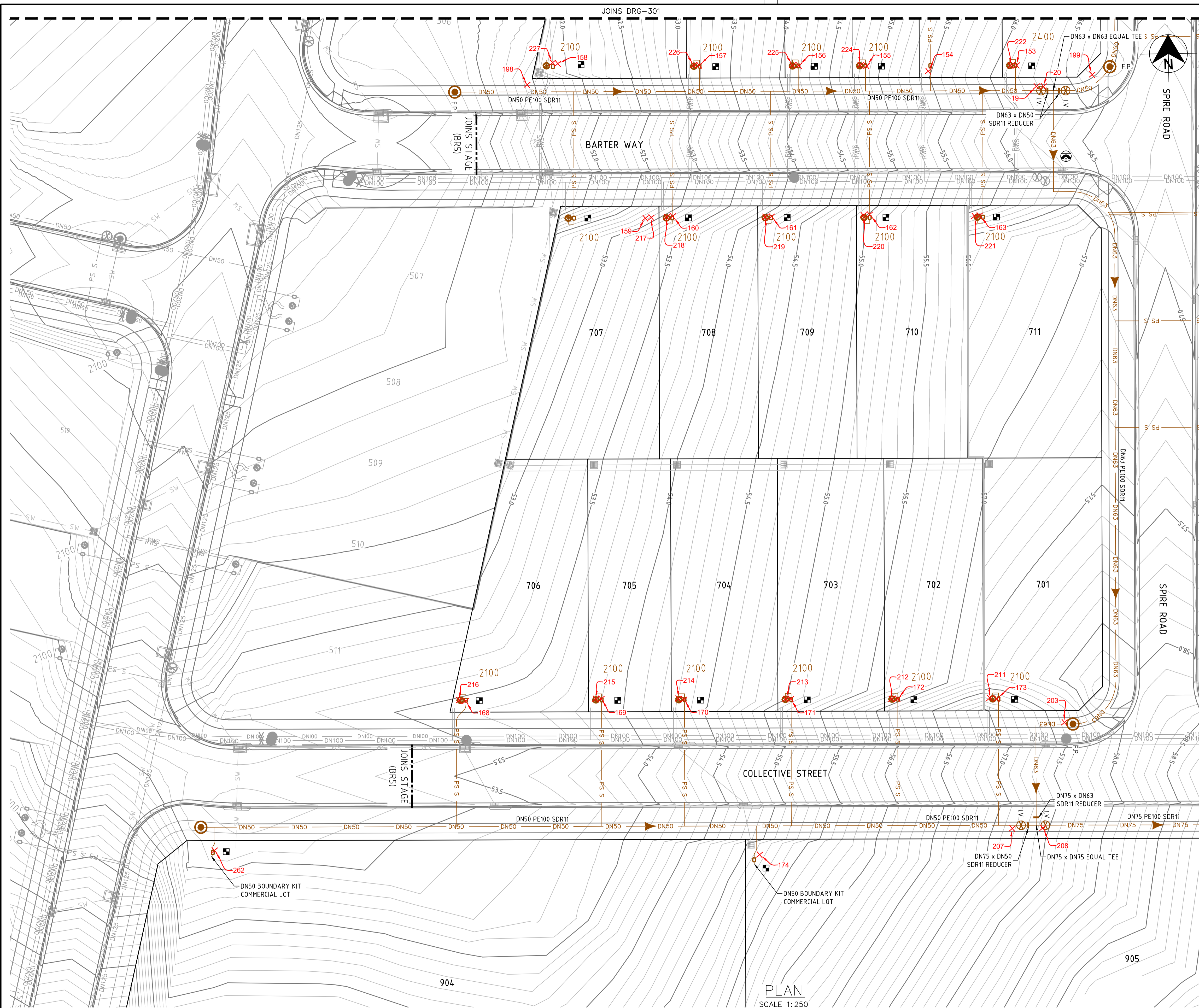
CLIENT

PROPERTY DESCRIPTION	
PROPOSED SUBDIVISION BRIDGING RESIDENTIAL - STAGE 7 HUNTLÉE	
SURVEYED	DATUM
Daly, Smith	GDA94 M.G.A. ZONE 56 A.H.D.

PROJECT			
POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION			
PLAN TITLE			
PRESSURE SEWER DETAIL PLAN 2			
PROJECT No.	DISCIPLINE	NUMBER	REV.
240037(BR7)	WAC	302	3

240037(BR7)-WAT-301

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.



- LEGEND**
- SP - SP - PE PRESSURE SEWER RETICULATION
  - PS S - PS S - PE PRESSURE SEWER PROPERTY SERVICE
  - W - W - PVC-M POTABLE WATER RETICULATION
  - PWS - PWS - PE POTABLE WATER PROPERTY SERVICE
  - RW - RW - PVC-M RECYCLED WATER RETICULATION
  - RWS - RWS - PE RECYCLED WATER PROPERTY SERVICE
  - SW - SW - STORMWATER PIPEWORK
  - DE - DE - DRAINAGE EASEMENT
- I.V. - ISOLATION VALVE
  - I.V. (N.C.) - ISOLATION VALVE (NORMALLY CLOSED)
  - F.P. - FLUSHING POINT
  - WWT - WASTEWATER COLLECTION TANK AND BOUNDARY KIT
  - PS - PRESSURE SEWER FLOW DIRECTION (& TEMP. FLOW DIRECTION - RED)
  - PC - PROPERTY SERVICE CONNECTION
  - LPS - LAY PRESSURE SEWER MAIN UNDER STORMWATER PIPE (300mm MIN. VERTICAL CLEARANCE) - REFER TO WAT-1255-H
  - LD - LIMIT OF SUBDIVISION WORKS

- PRESSURE SEWER PROPERTY SERVICE CONNECTIONS**  
**TOTAL 53 CONNECTIONS**  
 • SINGLE SERVICES  
 -19 x SHORT SIDE  
 -32 x LONG SIDE  
**BR5 POTABLE WATER PROPERTY SERVICE CONNECTIONS**  
**COMMERCIAL BOUNDARY KITS TO BE INSTALLED FOR BR5**  
 • SINGLE SERVICES IN ACCORDANCE WITH AT-1106-V  
 -2 x SHORT SIDE  
 -1 EXISTING FROM BR5

PRESSURE SEWER PIPE DATA		
PIPE SIZE (mm)	PIPE MATERIAL	TOTAL LENGTH (m)
DN75	PE PN16	119
DN63	PE PN16	376
DN50	PE PN16	288
DN40 (LATERAL)	PE PN16	618

- NOTES:**
- FOR POTABLE WATER PIPEWORK DETAIL PLANS REFER TO DRGS-101 TO 103.
  - FOR RECYCLED WATER PIPEWORK DETAIL PLANS REFER TO DRGS-201 TO 203.
  - FOR TYPICAL SERVICE CONNECTION DETAILS REFER TO DRG-402.
  - FOR FLUSHING POINT TYPICAL DETAILS REFER TO STANDARD DRAWING PSS-1017-FS.
  - FOR FLOW MONITORING POINT TYPICAL DETAILS REFER TO STANDARD DRAWING PSS-1115-FS.
  - CONTRACTOR MAY BEND POLYETHYLENE PIPEWORK IN PLACE OF USING STANDARD FITTINGS WITH A MIN. BENDING RADIUS OF 20 x PIPE DIAM.
  - ALL BENDS SHALL BE ELECTROFUSION SWEEP BENDS (FABRICATED BENDS SHALL NOT BE USED).**
  - CONTRACTOR TO CONFIRM SHUTDOWN REQUIREMENTS AND SHUTDOWN DATE WITH ALL TOGETHER WORKS SUPERVISOR (NED CAMPBELL) AT A MINIMUM OF 2 WEEKS PRIOR TO PROPOSED REQUESTED SHUTDOWN DATE. PROVIDE SHUTDOWN PLAN DETAIL:  
 - ISOLATION OF REQUIRED SHUTDOWN  
 - ISOLATION VALVES TO BE CLOSED  
 - WHEN PRESSURE SEWER TANKS AND BOUNDARY KITS ARE LOCATED AT SPLAY CORNERS OF LOTS, THE INSTALLER IS TO CONFIRM ORIENTATION OF TANK AND BOUNDARY KIT WITH SUPERINTENDENT PRIOR TO INSTALLATION.

**WORK AS CONSTRUCTED**  
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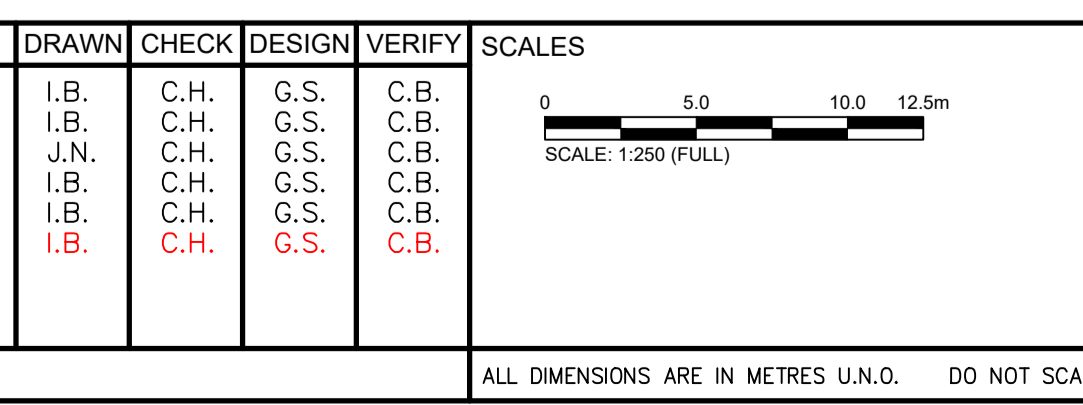
COMPANY ADW Johnson Pty Ltd COMPANY  
 NAME BASS RANDALL NAME  
 SIGNED [Signature] DATE 26/06/2026 SIGNED [Signature] DATE [Signature]  
 REGISTERED SURVEYOR CONSTRUCTION MANAGER

**ORIGIN OF W.A.C. LEVELS**  
 PM 20029  
 E: 345612.942  
 N: 6382878.917  
 RL: 77.675m  
 Co-Ord System: MGA Ground  
 MGA Datum: GDA94  
 MGA Zone: 56



**WORK AS CONSTRUCTED**

REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY	SCALES
A	22.05.25	INITIAL ISSUE	I.B.	C.H.	G.S.	C.B.	
B	17.06.25	AMENDED ISSUE	I.B.	C.H.	G.S.	C.B.	
0	25.07.25	CONSTRUCTION ISSUE	J.N.	C.H.	G.S.	C.B.	
1	03.10.25	AMENDED CONSTRUCTION ISSUE	I.B.	C.H.	G.S.	C.B.	
2	11.11.25	AMENDED CONSTRUCTION ISSUE	I.B.	C.H.	G.S.	C.B.	
3	26.06.26	WORK AS CONSTRUCTED	I.B.	C.H.	G.S.	C.B.	



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 ABN 62 129 445 398

CLIENT

PROPERTY DESCRIPTION  
 PROPOSED SUBDIVISION  
 BRIDGING RESIDENTIAL - STAGE 7  
 HUNTLÉE

SURVEYED  
 Daly, Smith

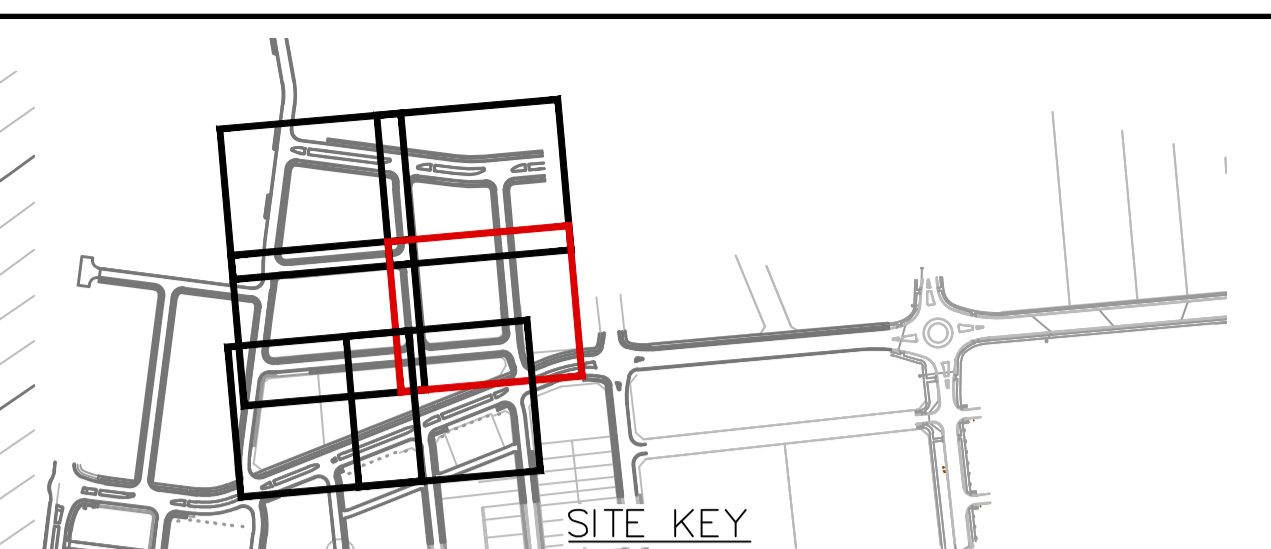
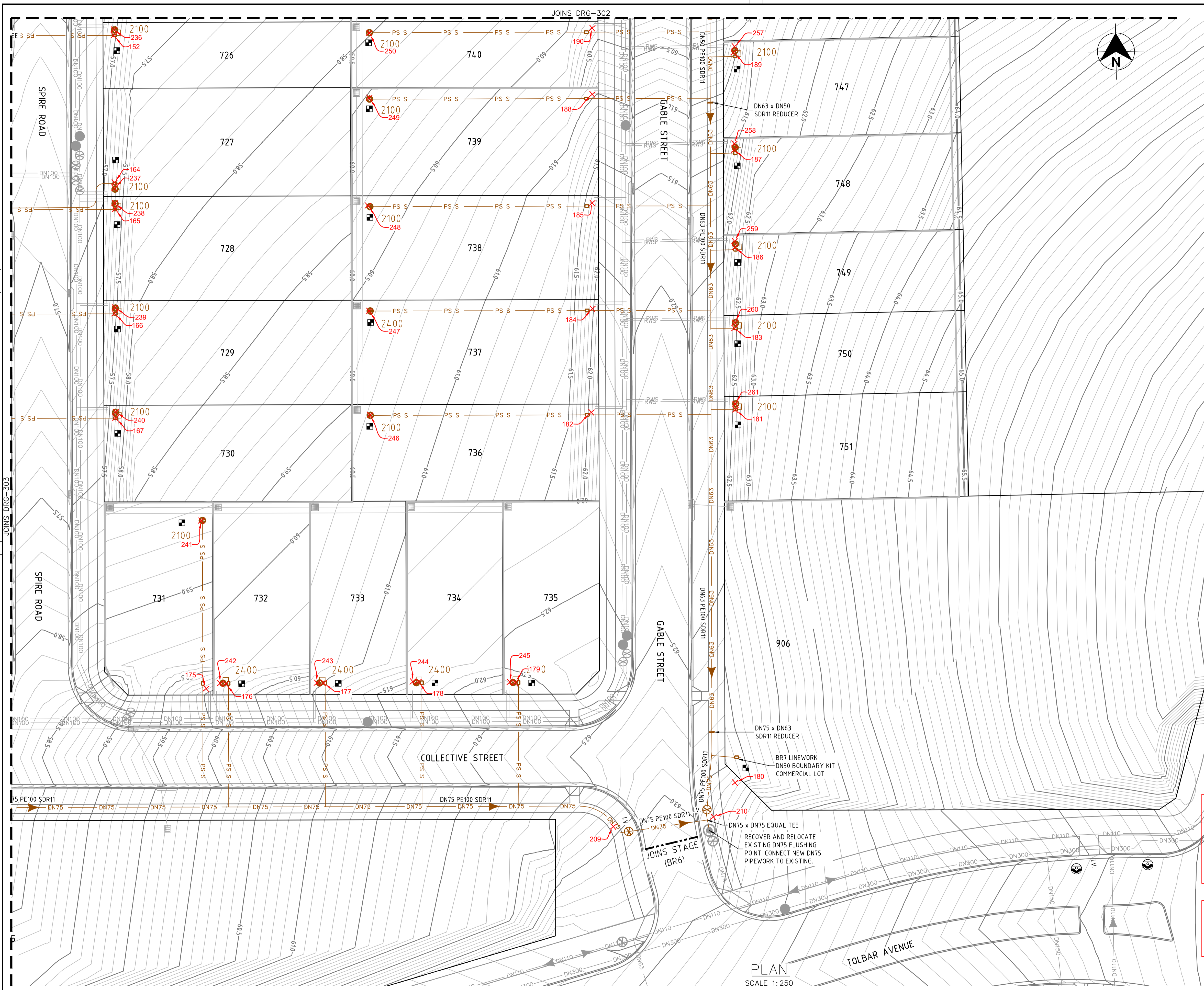
DATUM  
 GDA94 M.G.A. ZONE 56

A.H.D.

PROJECT POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION			
PLAN TITLE PRESSURE SEWER DETAIL PLAN 3			
PROJECT No.	DISCIPLINE	NUMBER	REV.
240037(BR7)	WAC	303	3

240037(BR7)-WAT-301

100mm AT FULL SIZE  
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- LEGEND**
- SP - SP - PE PRESSURE SEWER RETICULATION
  - PS S - PS S - PE PRESSURE SEWER PROPERTY SERVICE
  - W - W - PVC-M POTABLE WATER RETICULATION
  - PWS - PWS - PE POTABLE WATER PROPERTY SERVICE
  - RW - RW - PVC-M RECYCLED WATER RETICULATION
  - RWS - RWS - PE RECYCLED WATER PROPERTY SERVICE
  - SW - SW - STORMWATER PIPEWORK
  - - - - - DRAINAGE EASEMENT
  - I.V. - ISOLATION VALVE
  - I.V. (N.C.) - ISOLATION VALVE (NORMALLY CLOSED)
  - F.P. - FLUSHING POINT
  - WWT - WASTEWATER COLLECTION TANK AND BOUNDARY KIT
  - PS - PRESSURE SEWER FLOW DIRECTION (& TEMP. FLOW DIRECTION - RED)
  - PS - PROPERTY SERVICE CONNECTION
  - PS - LAY PRESSURE SEWER MAIN UNDER STORMWATER PIPE (300mm MIN. VERTICAL CLEARANCE) - REFER TO WAT-1255-H
  - - - - - LIMIT OF SUBDIVISION WORKS

- PS PRESSURE SEWER PROPERTY SERVICE CONNECTIONS**  
TOTAL 53 CONNECTIONS
- SINGLE SERVICES
  - 19 x SHORT SIDE
  - 32 x LONG SIDE
- BR7 POTABLE WATER PROPERTY SERVICE CONNECTIONS**  
COMMERCIAL BOUNDARY KITS TO BE INSTALLED FOR BR7
- SINGLE SERVICES IN ACCORDANCE WITH AT-1106-V
  - 2 x SHORT SIDE
  - 1 EXISTING FROM BR5

PRESSURE SEWER PIPE DATA		
PIPE SIZE (mm)	PIPE MATERIAL	TOTAL LENGTH (m)
DN75	PE PN16	119
DN63	PE PN16	376
DN50	PE PN16	288
DN40 (LATERAL)	PE PN16	618

- NOTES:**
- FOR POTABLE WATER PIPEWORK DETAIL PLANS REFER TO DRGS-101 TO 103.
  - FOR RECYCLED WATER PIPEWORK DETAIL PLANS REFER TO DRGS-201 TO 203.
  - FOR TYPICAL SERVICE CONNECTION DETAILS REFER TO DRG-402.
  - FOR FLUSHING POINT TYPICAL DETAILS REFER TO STANDARD DRAWING PSS-1017-FS.
  - FOR FLOW MONITORING POINT TYPICAL DETAILS REFER TO STANDARD DRAWING PSS-1115-FS.
  - CONTRACTOR MAY BEND POLYETHYLENE PIPEWORK IN PLACE OF USING STANDARD FITTINGS WITH A MIN. BENDING RADIUS OF 20 x PIPE DIAM. ALL BENDS SHALL BE ELECTROFUSION SWEEP BENDS (FABRICATED BENDS SHALL NOT BE USED).
  - CONTRACTOR TO CONFIRM SHUTDOWN REQUIREMENTS AND SHUTDOWN DATE WITH ALTOGETHER WORKS SUPERVISOR (NED CAMPBELL) AT A MINIMUM OF 2 WEEKS PRIOR TO PROPOSED REQUESTED SHUTDOWN DATE. PROVIDE SHUTDOWN PLAN DETAIL:  
- DURATION OF REQUIRED SHUTDOWN  
- ISOLATION VALVES TO BE CLOSED
  - WHEN PRESSURE SEWER TANKS AND BOUNDARY KITS ARE LOCATED AT SPLAY CORNERS OF LOTS, THE INSTALLER IS TO CONFIRM ORIENTATION OF TANK AND BOUNDARY KIT WITH SUPERINTENDENT PRIOR TO INSTALLATION.

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COMPANY ADW Johnson Pty Ltd  
NAME BASS RANDALL  
SIGNED [Signature] DATE 26/06/2026  
REGISTERED SURVEYOR

COMPANY  
NAME  
SIGNED [Signature] DATE  
CONSTRUCTION MANAGER

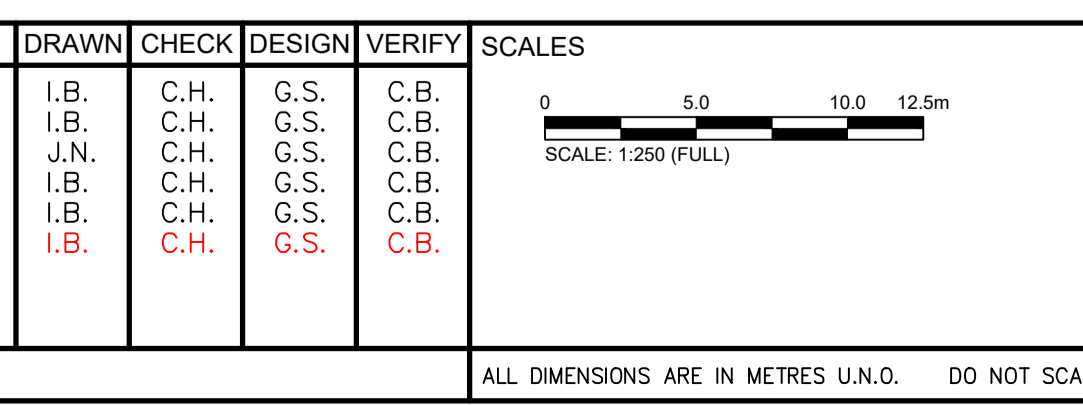
**ORIGIN OF W.A.C. LEVELS**  
PM 20029  
E: 345612.942  
N: 6382878.917  
RL: 77.675m

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



**WORK AS CONSTRUCTED**

REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY	SCALES
A	22.05.25	INITIAL ISSUE	I.B.	C.H.	G.S.	C.B.	
B	17.06.25	AMENDED ISSUE	I.B.	C.H.	G.S.	C.B.	
0	25.07.25	CONSTRUCTION ISSUE	J.N.	C.H.	G.S.	C.B.	
1	03.10.25	AMENDED CONSTRUCTION ISSUE	I.B.	C.H.	G.S.	C.B.	
2	11.11.25	AMENDED CONSTRUCTION ISSUE	I.B.	C.H.	G.S.	C.B.	
3	26.06.26	WORK AS CONSTRUCTED	I.B.	C.H.	G.S.	C.B.	



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CLIENT

PROPERTY DESCRIPTION

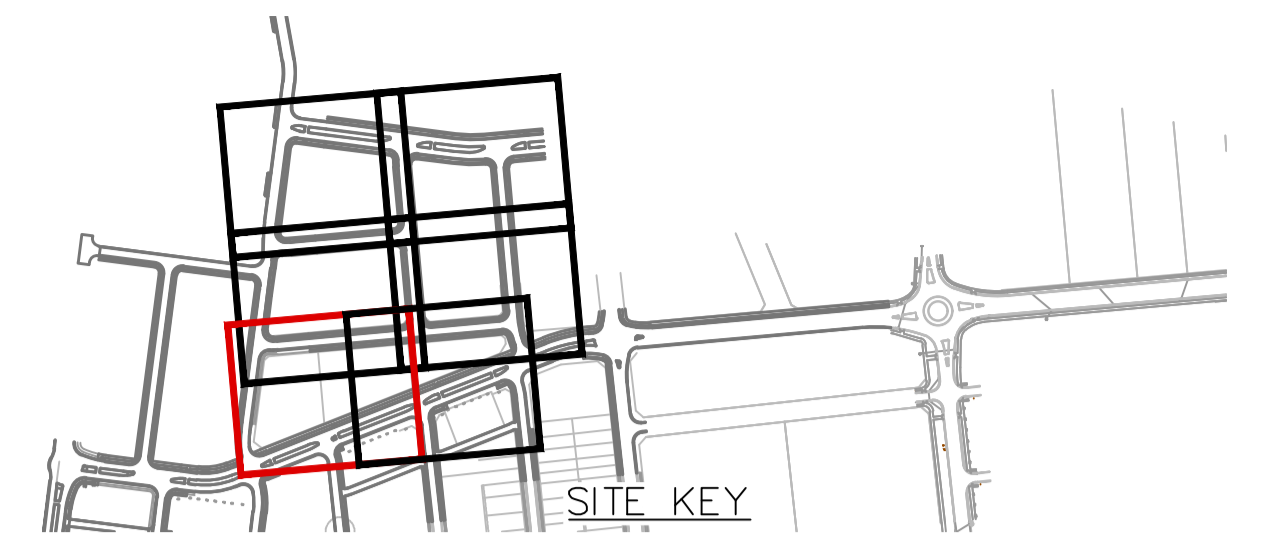
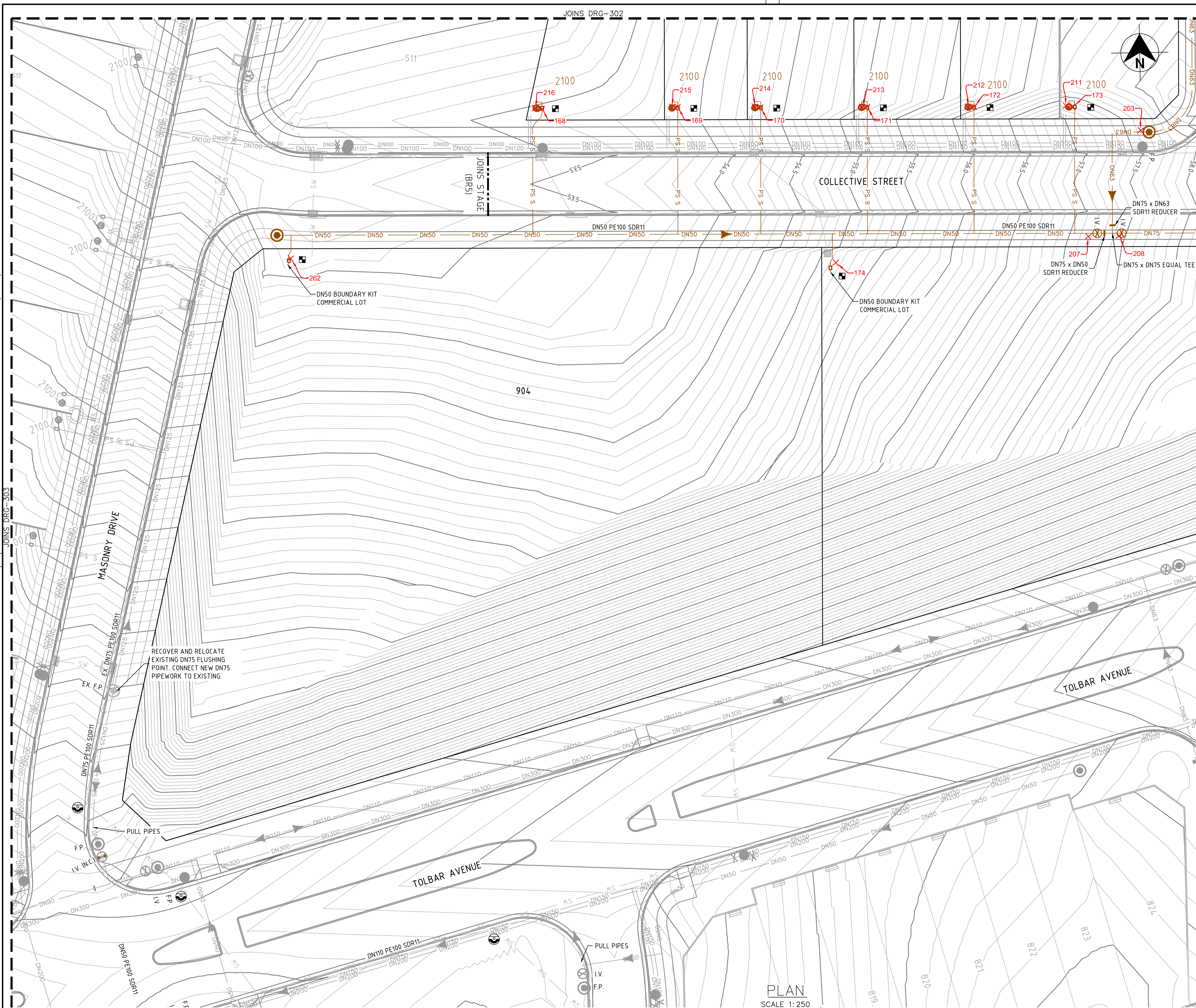
PROPOSED SUBDIVISION  
BRIDGING RESIDENTIAL - STAGE 7  
HUNTLEE

SURVEYED Daly,Smith  
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 4			
PROJECT No.	DISCIPLINE	NUMBER	REV.
240037(BR7)	WAC	304	3

240037(BR7)-WAT-301

100mm AT FULL SIZE  
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- LEGEND**
- SP-SP PE PRESSURE SEWER RETICULATION
  - PS-S PE PRESSURE SEWER PROPERTY SERVICE
  - W-W PVC-M POTABLE WATER RETICULATION
  - PWS-PWS PE POTABLE WATER PROPERTY SERVICE
  - RW-RW PVC-M RECYCLED WATER RETICULATION
  - RWS-RWS PE RECYCLED WATER PROPERTY SERVICE
  - SW-SW STORMWATER PIPEWORK
  - - - DRAINAGE EASEMENT
- I.V. ISOLATION VALVE
  - I.V. (N.C.) ISOLATION VALVE (NORMALLY CLOSED)
  - F.P. FLUSHING POINT
  - WASTEWATER COLLECTION TANK AND BOUNDARY KIT
  - PRESSURE SEWER FLOW DIRECTION (& TEMP. FLOW DIRECTION - RED)
  - PROPERTY SERVICE CONNECTION
  - LAY PRESSURE SEWER MAIN UNDER STORMWATER PIPE (300mm MIN. VERTICAL CLEARANCE) - REFER TO WAT-1255-H
  - - - LIMIT OF SUBDIVISION WORKS

- PRESSURE SEWER PROPERTY SERVICE CONNECTIONS**
- TOTAL 53 CONNECTIONS
  - SINGLE SERVICES
  - 19 x SHORT SIDE
  - 32 x LONG SIDE
- BR8 POTABLE WATER PROPERTY SERVICE CONNECTIONS**
- COMMERCIAL BOUNDARY KITS TO BE INSTALLED FOR BR8
  - SINGLE SERVICES IN ACCORDANCE WITH AT-1106-V
  - 2 x SHORT SIDE
  - 1 EXISTING FROM BR5

PRESSURE SEWER PIPE DATA		
PIPE SIZE (mm)	PIPE MATERIAL	TOTAL LENGTH (m)
DN75	PE PN16	119
DN63	PE PN16	376
DN50	PE PN16	288
DN40 (LATERAL)	PE PN16	618

- NOTES:**
1. FOR POTABLE WATER PIPEWORK DETAIL PLANS REFER TO DRGS-101 TO 103.
  2. FOR RECYCLED WATER PIPEWORK DETAIL PLANS REFER TO DRGS-201 TO 203.
  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).
  8. CONTRACTOR TO CONFIRM SHUTDOWN REQUIREMENTS AND SHUTDOWN DATE WITH ALTOGETHER WORKS SUPERVISOR (NED CAMPBELL) AT A MINIMUM OF 2 WEEKS PRIOR TO PROPOSED REQUESTED SHUTDOWN DATE. PROVIDE SHUTDOWN PLAN DETAIL:
    - DURATION OF REQUIRED SHUTDOWN
    - ISOLATION VALVES TO BE CLOSED
  9. WHEN PRESSURE SEWER TANKS AND BOUNDARY KITS ARE LOCATED AT SPLAY CORNERS OF LOTS, THE INSTALLER IS TO CONFIRM ORIENTATION OF TANK AND BOUNDARY KIT WITH SUPERINTENDENT PRIOR TO INSTALLATION.

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COMPANY ADW Johnson Pty Ltd	COMPANY
NAME BASS RANDALL	NAME
SIGNED <i>[Signature]</i> DATE 26/06/2026	SIGNED _____ DATE _____
REGISTERED SURVEYOR	CONSTRUCTION MANAGER

**ORIGIN OF W.A.C. LEVELS**

PM 20029  
E: 345612.942  
N: 6382878.917  
RL: 77.675m

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



**WORK AS CONSTRUCTED**

REV.	DATE	AMENDMENT
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O	25.07.25	CONSTRUCTION ISSUE
1	03.10.25	AMENDED CONSTRUCTION ISSUE
N	11.11.25	AMENDED CONSTRUCTION ISSUE
2	26.06.26	WORK AS CONSTRUCTED

DRAWN	CHECK	DESIGN	VERIFY	SCALES
I.B.	C.H.	G.S.	C.B.	0 5.0 10.0 12.5m
I.B.	C.H.	G.S.	C.B.	SCALE: 1:250 (FULL)
I.B.	C.H.	G.S.	C.B.	
I.B.	C.H.	G.S.	C.B.	
I.B.	C.H.	G.S.	C.B.	

**adw Johnson**

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

CLIENT

PROPERTY DESCRIPTION

PROPOSED SUBDIVISION  
BRIDGING RESIDENTIAL - STAGE 7  
HUNTLEE

SURVEYED Daly,Smith

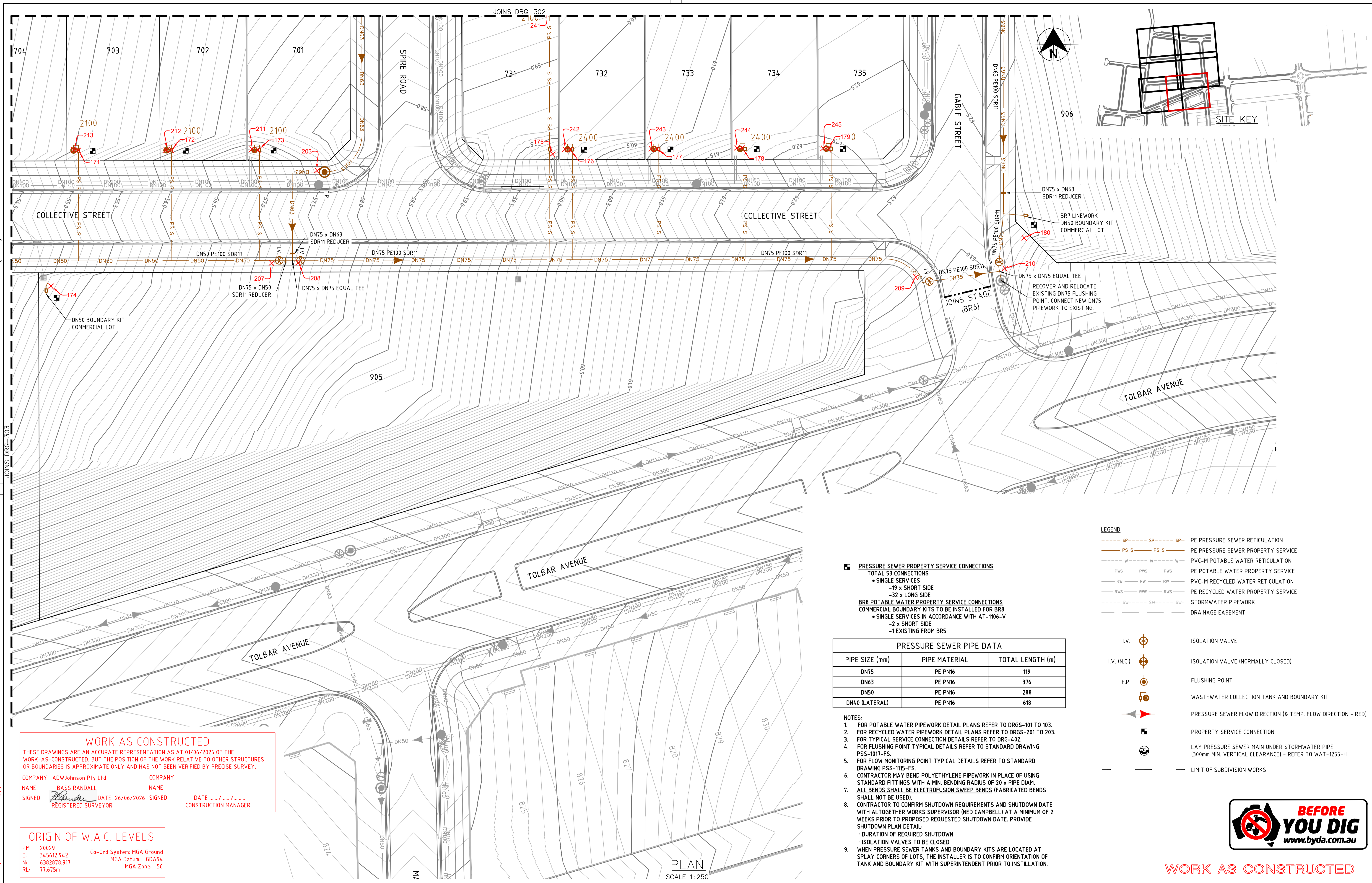
DATUM GDA94 M.G.A. ZONE 56

A.H.D.

PROJECT	PLAN TITLE	PROJECT No.	DISCIPLINE	NUMBER	REV.
POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION	PRESSURE SEWER DETAIL PLAN 5	240037(BR7)	WAC	305	3

240037(BR7)-WAT-301

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.



**LEGEND**

- SP --- SP --- SP PE PRESSURE SEWER RETICULATION
- PS S --- PS S --- PE PRESSURE SEWER PROPERTY SERVICE
- W --- W --- PVC-M POTABLE WATER RETICULATION
- PWS --- PWS --- PE POTABLE WATER PROPERTY SERVICE
- RW --- RW --- PVC-M RECYCLED WATER RETICULATION
- RWS --- RWS --- PE RECYCLED WATER PROPERTY SERVICE
- SW --- SW --- STORMWATER PIPEWORK
- DRAINAGE EASEMENT

I.V. (Symbol) ISOLATION VALVE  
 I.V. (I.C.) (Symbol) ISOLATION VALVE (NORMALLY CLOSED)  
 F.P. (Symbol) FLUSHING POINT  
 (Symbol) WASTEWATER COLLECTION TANK AND BOUNDARY KIT  
 (Symbol) PRESSURE SEWER FLOW DIRECTION (& TEMP. FLOW DIRECTION - RED)  
 (Symbol) PROPERTY SERVICE CONNECTION  
 (Symbol) LAY PRESSURE SEWER MAIN UNDER STORMWATER PIPE (300mm MIN. VERTICAL CLEARANCE) - REFER TO WAT-1255-H  
 --- LIMIT OF SUBDIVISION WORKS

- PRESSURE SEWER PROPERTY SERVICE CONNECTIONS**  
 TOTAL 53 CONNECTIONS
- SINGLE SERVICES
    - 19 x SHORT SIDE
    - 32 x LONG SIDE
- BR8 POTABLE WATER PROPERTY SERVICE CONNECTIONS**  
 COMMERCIAL BOUNDARY KITS TO BE INSTALLED FOR BR8
- SINGLE SERVICES IN ACCORDANCE WITH AT-1106-V
    - 2 x SHORT SIDE
    - 1 EXISTING FROM BR5

PRESSURE SEWER PIPE DATA		
PIPE SIZE (mm)	PIPE MATERIAL	TOTAL LENGTH (m)
DN75	PE PN16	119
DN63	PE PN16	376
DN50	PE PN16	288
DN40 (LATERAL)	PE PN16	618

- NOTES:**
1. FOR POTABLE WATER PIPEWORK DETAIL PLANS REFER TO DRGS-101 TO 103.
  2. FOR RECYCLED WATER PIPEWORK DETAIL PLANS REFER TO DRGS-201 TO 203.
  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-115-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).
  8. CONTRACTOR TO CONFIRM SHUTDOWN REQUIREMENTS AND SHUTDOWN DATE WITH ALTOGETHER WORKS SUPERVISOR (NED CAMPBELL) AT A MINIMUM OF 2 WEEKS PRIOR TO PROPOSED REQUESTED SHUTDOWN DATE. PROVIDE SHUTDOWN PLAN DETAIL:
    - DURATION OF REQUIRED SHUTDOWN
    - ISOLATION VALVES TO BE CLOSED
  9. WHEN PRESSURE SEWER TANKS AND BOUNDARY KITS ARE LOCATED AT SPLAY CORNERS OF LOTS, THE INSTALLER IS TO CONFIRM ORIENTATION OF TANK AND BOUNDARY KIT WITH SUPERINTENDENT PRIOR TO INSTALLATION.

**WORK AS CONSTRUCTED**

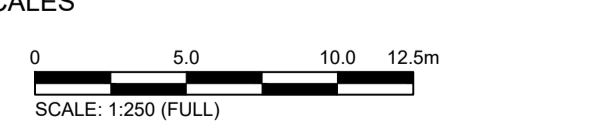
THESE DRAWINGS ARE AN ACCURATE REPRESENTATION AS AT 01/06/2026 OF THE WORK-AS-CONSTRUCTED, BUT THE POSITION OF THE WORK RELATIVE TO OTHER STRUCTURES OR BOUNDARIES IS APPROXIMATE ONLY AND HAS NOT BEEN VERIFIED BY PRECISE SURVEY.

COMPANY ADW Johnson Pty Ltd      COMPANY  
 NAME BASS RANDALL      NAME  
 SIGNED *[Signature]* DATE 26/06/2026      SIGNED      DATE  
 REGISTERED SURVEYOR      CONSTRUCTION MANAGER

**ORIGIN OF W.A.C. LEVELS**

PM 20029  
 E: 345612.942 Co-Ord System: MGA Ground  
 N: 6382878.917 MGA Datum: GDA94  
 RL: 77.675m MGA Zone: 56

REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY
A	22.05.25	INITIAL ISSUE	I.B.	C.H.	G.S.	C.B.
B	17.06.25	AMENDED ISSUE	I.B.	C.H.	G.S.	C.B.
0	25.07.25	CONSTRUCTION ISSUE	J.N.	C.H.	G.S.	C.B.
1	03.10.25	AMENDED CONSTRUCTION ISSUE	I.B.	C.H.	G.S.	C.B.
2	11.11.25	AMENDED CONSTRUCTION ISSUE	I.B.	C.H.	G.S.	C.B.
3	26.06.26	WORK AS CONSTRUCTED	I.B.	C.H.	G.S.	C.B.



**adw Johnson**

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

CLIENT

PROPERTY DESCRIPTION

PROPOSED SUBDIVISION  
 BRIDGING RESIDENTIAL - STAGE 7  
 HUNTLÉE

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

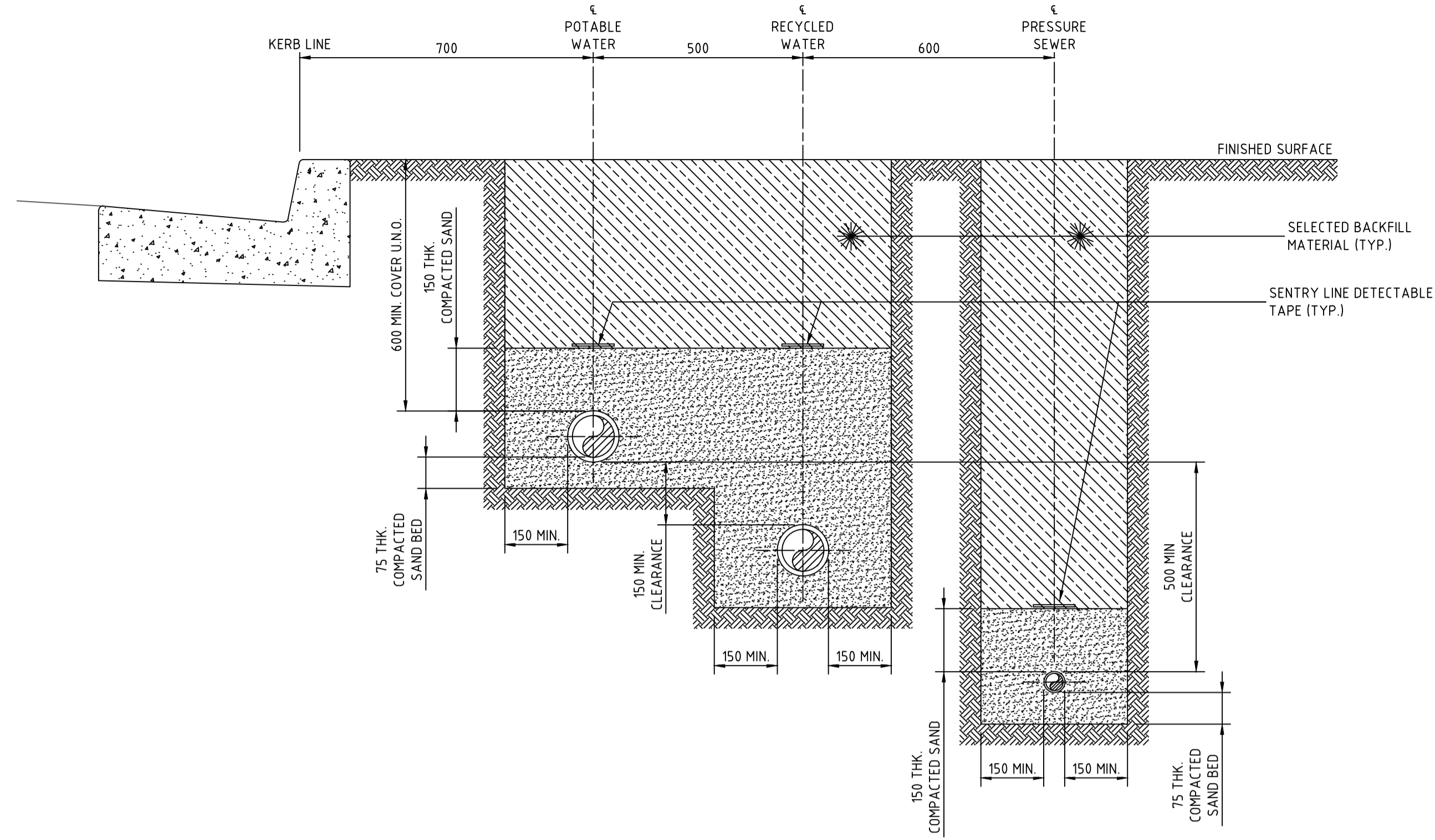
PROJECT: POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION

PLAN TITLE: PRESSURE SEWER DETAIL PLAN 6

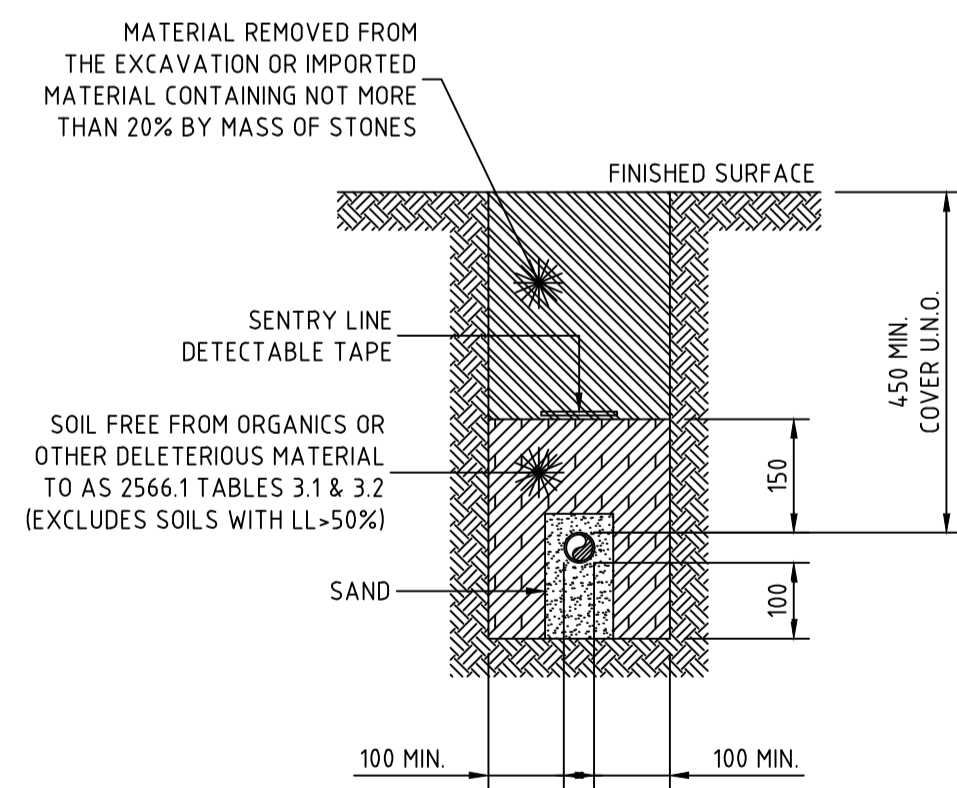
PROJECT No. 240037(BR7)	DISCIPLINE WAC	NUMBER 306	REV. 3
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**WORK AS CONSTRUCTED**



STREET PRESSURE MAIN  
TYPICAL DETAIL  
SCALE 1:10



PRIVATE PROPERTY PRESSURE MAIN  
TYPICAL DETAIL  
SCALE 1:10

**WORK AS CONSTRUCTED**  
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COMPANY ADWJohnson Pty Ltd COMPANY  
NAME BASS RANDALL NAME  
SIGNED *Bass Randall* DATE 26/06/2026 SIGNED DATE / /  
REGISTERED SURVEYOR CONSTRUCTION MANAGER

**ORIGIN OF W.A.C. LEVELS**  
PM 20029 Co-Ord System: MGA Ground  
E: 345612.942 MGA Datum: GDA94  
N: 6382878.917 MGA Zone: 56  
RL: 77.675m



**WORK AS CONSTRUCTED**

REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY	SCALES
A	22.05.25	INITIAL ISSUE	I.B.	C.H.	G.S.	C.B.	
B	17.06.25	AMENDED ISSUE	I.B.	C.H.	G.S.	C.B.	
0	25.07.25	CONSTRUCTION ISSUE	J.N.	C.H.	G.S.	C.B.	
1	03.10.25	AMENDED CONSTRUCTION ISSUE	I.B.	C.H.	G.S.	C.B.	
2	11.11.25	AMENDED CONSTRUCTION ISSUE	I.B.	C.H.	G.S.	C.B.	
3	26.06.26	WORK AS CONSTRUCTED	I.B.	C.H.	G.S.	C.B.	

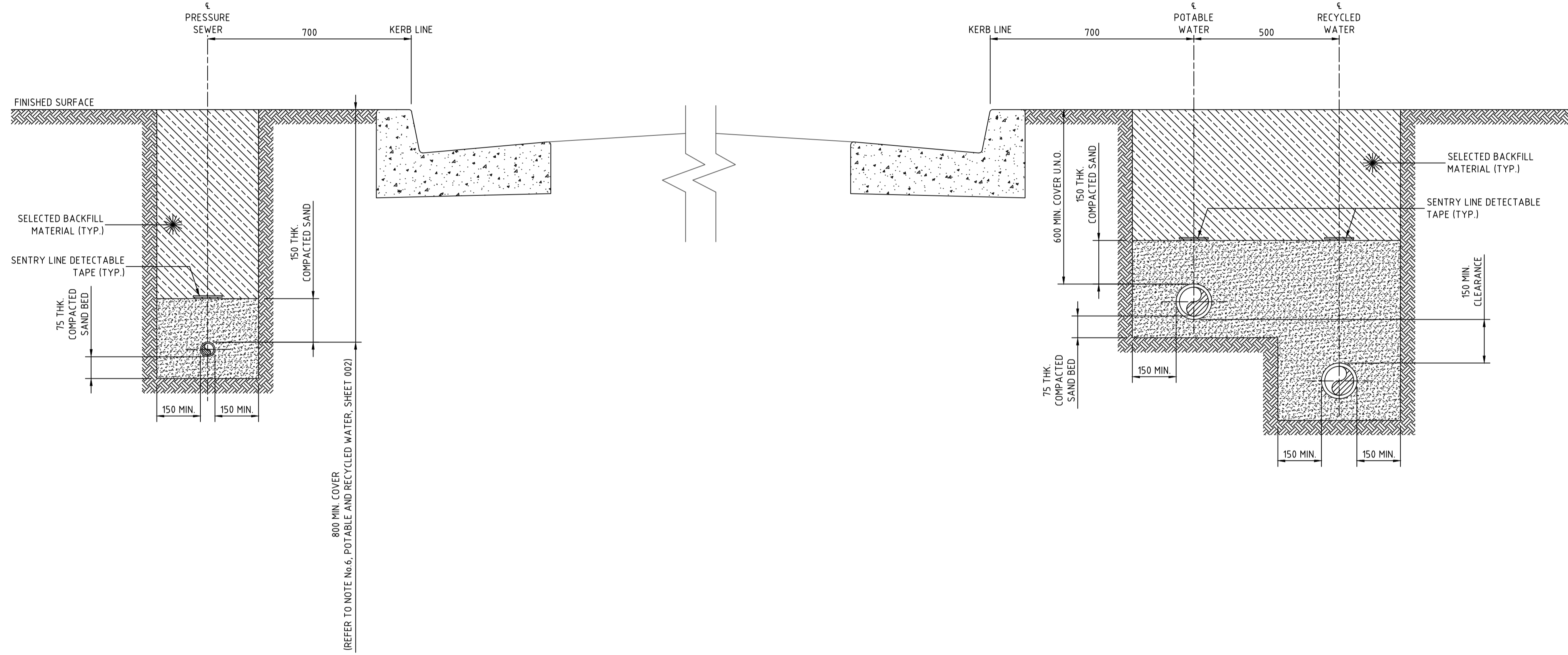
**adw Johnson**  
Hunter Office  
Unit 7/335 Hillsborough Rd  
Warners Bay N.S.W. 2282  
Phone: (02) 4978 5100  
Fax: (02) 4978 5199  
email: hunter@adwjohnson.com.au  
www.adwjohnson.com.au  
ABN 62 129 445 398

CLIENT  
**altogether.**

PROPERTY DESCRIPTION  
PROPOSED SUBDIVISION  
BRIDGING RESIDENTIAL - STAGE 7  
HUNTLEE

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

PROJECT POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION	PLAN TITLE TYPICAL CROSS-SECTION AND PIPEWORK TRENCHING DETAILS SHEET 1
PROJECT No. 240037(BR7) -	DISCIPLINE WAC
NUMBER 401	REV. 3



STREET PRESSURE MAIN  
TYPICAL DETAIL  
SCALE 1:10

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 COMPANY ADWJohnson Pty Ltd COMPANY  
 NAME BASS RANDALL NAME  
 SIGNED *Bass Randall* DATE 26/06/2026 SIGNED DATE ...../...../.....  
 REGISTERED SURVEYOR CONSTRUCTION MANAGER

**ORIGIN OF W.A.C. LEVELS**  
 PM 20029 Co-Ord System: MGA Ground  
 E: 345612.942 MGA Datum: GDA94  
 N: 6382878.917 MGA Zone: 56  
 RL: 77.675m



**WORK AS CONSTRUCTED**

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

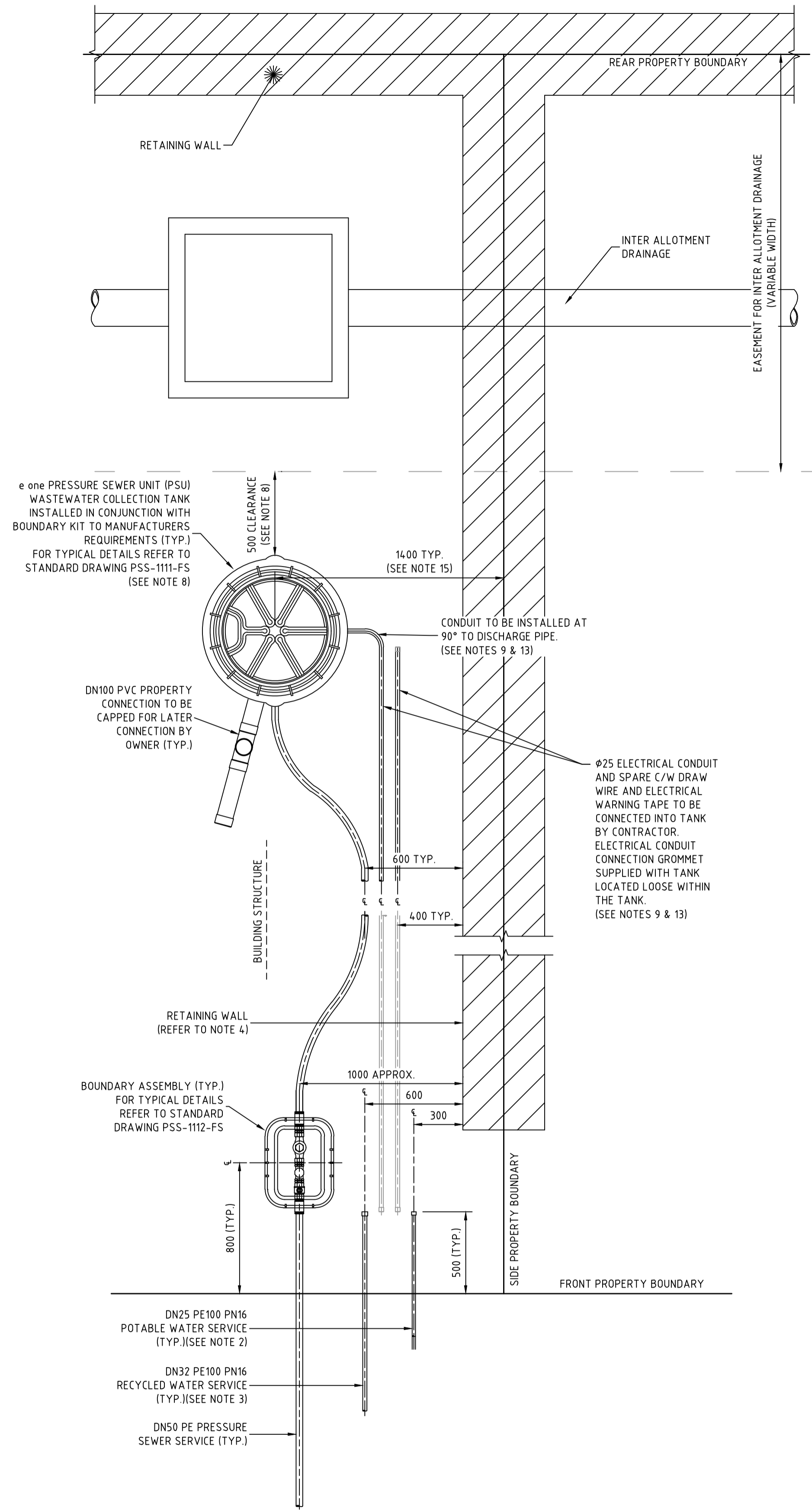
REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY	SCALES
A	22.05.25	INITIAL ISSUE	I.B.	C.H.	G.S.	C.B.	
B	17.06.25	AMENDED ISSUE	I.B.	C.H.	G.S.	C.B.	
0	25.07.25	CONSTRUCTION ISSUE	J.N.	C.H.	G.S.	C.B.	
1	03.10.25	AMENDED CONSTRUCTION ISSUE	I.B.	C.H.	G.S.	C.B.	
2	11.11.25	AMENDED CONSTRUCTION ISSUE	I.B.	C.H.	G.S.	C.B.	
3	26.06.26	WORK AS CONSTRUCTED	I.B.	C.H.	G.S.	C.B.	

**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

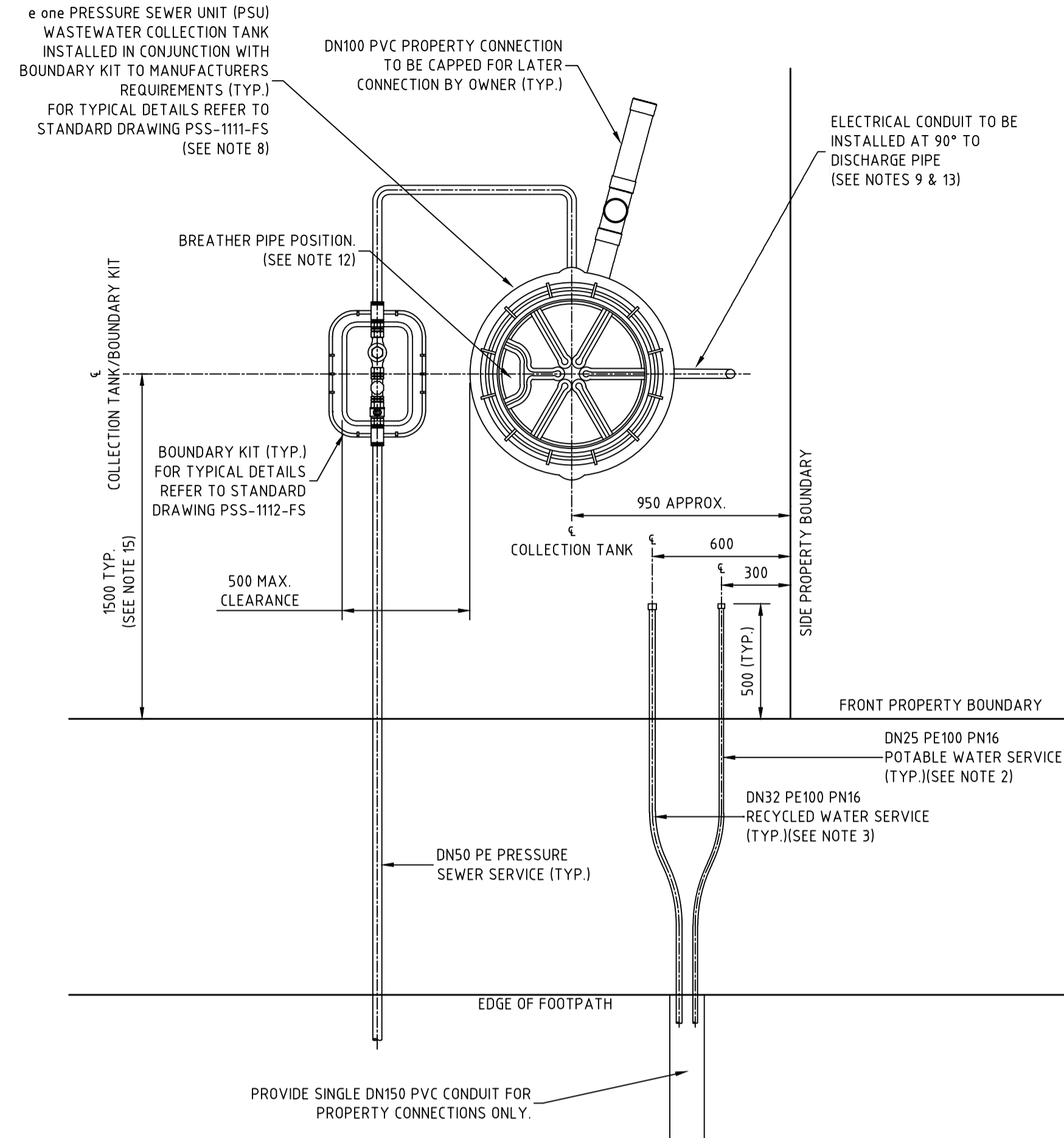
CLIENT

PROPERTY DESCRIPTION  
 PROPOSED SUBDIVISION  
 BRIDGING RESIDENTIAL - STAGE 7  
 HUNTLEE

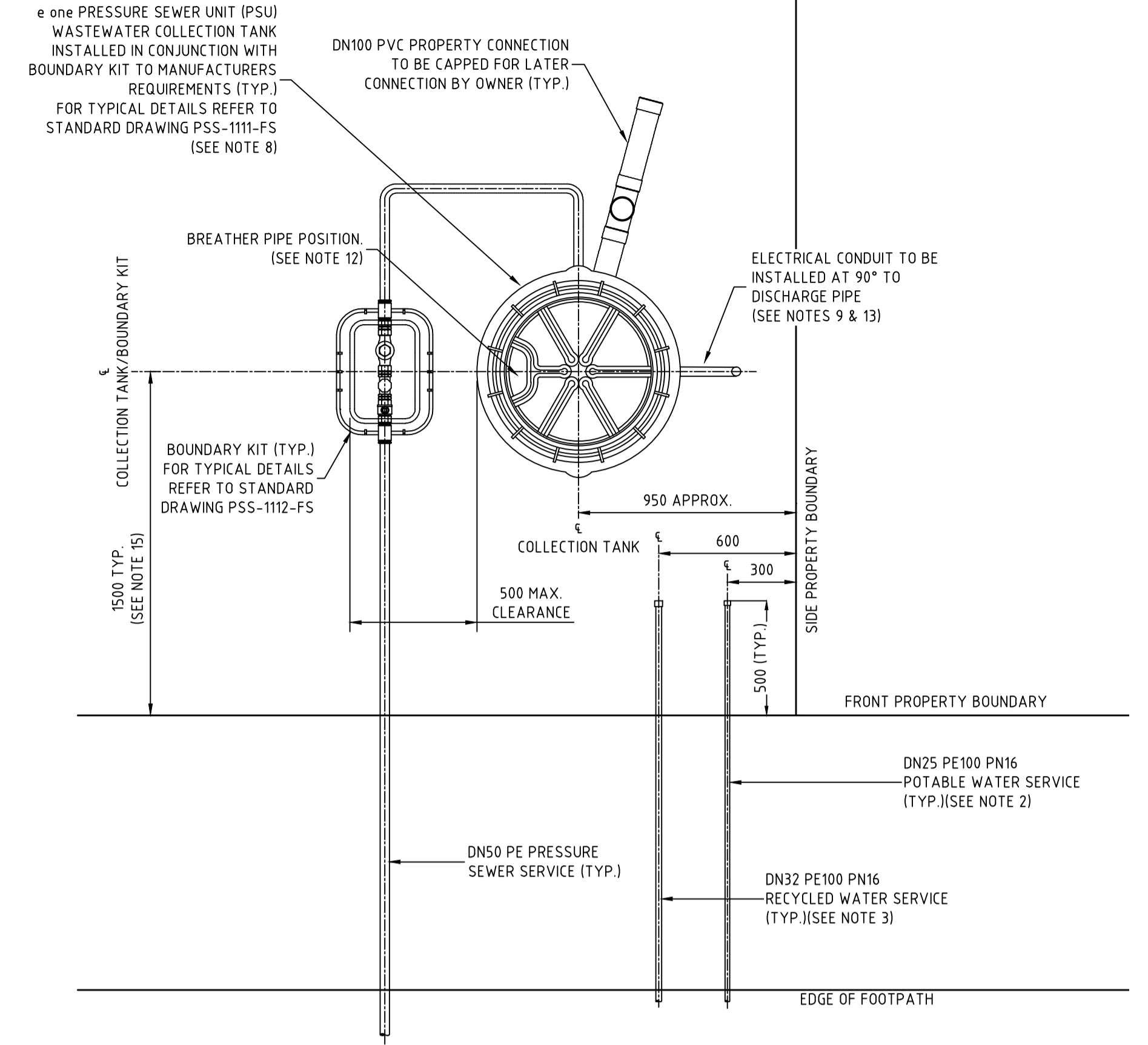
PROJECT			
POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION			
PLAN TITLE			
TYPICAL CROSS-SECTION AND PIPEWORK TRENCHING DETAILS SHEET 2			
SURVEYED	DATUM	PROJECT No.	DISCIPLINE
Daly,Smith	GDA94 M.G.A. ZONE 56 A.H.D.	240037(BR7) - WAC	NUMBER - 402
		REV.	3



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



TYPICAL PROPERTY CONNECTION DETAIL  
THROUGH COMMON CONDUIT  
SCALE 1:20



TYPICAL PROPERTY CONNECTION DETAIL  
SCALE 1:20

NOTES:

- PROPERTY SERVICE CONNECTIONS SHALL BE IN ACCORDANCE WITH WSA STANDARD DRAWINGS FOR DUAL WATER SUPPLY SYSTEMS (SYDNEY WATER VERSION) (SUPPLEMENT TO WSA 03-2011).
- DN20 PE100 PN16 POTABLE WATER SERVICE TO EXTEND 500mm BEYOND PROPERTY BOUNDARY AND BE CAPPED FOR LATER CONNECTION BY PROPERTY OWNER.
- DN25 PE100 PN16 RECYCLED WATER SERVICE TO EXTEND 500mm BEYOND PROPERTY BOUNDARY AND BE CAPPED FOR LATER CONNECTION BY PROPERTY OWNER.
- FOR PROPERTY CONNECTIONS WHERE A RETAINING WALL IS NOT PRESENT, SERVICES ARE TO BE OFFSET FROM THE PROPERTY BOUNDARY.
- WHERE SERVICE CONNECTIONS ARE LOCATED ADJACENT TO TELSTRA PITS/ELECTRICAL PILLARS, A MINIMUM CLEARANCE OF 200mm BETWEEN PITS AND SERVICE PIPEWORK IS TO BE MAINTAINED.
- MINIMUM BENDING RADIUS FOR PE PIPEWORK IS TO BE 20 x PIPE DIAMETER.
- ALL POLYETHYLENE FITTINGS SHALL BE JOINED USING ELECTROFUSION JOINTING TECHNIQUES IN ACCORDANCE WITH MANUFACTURERS REQUIREMENTS. ROTATE BENDS AS NECESSARY.
- PRESSURE SEWER UNIT (PSU) IS TO HAVE 500mm CLEARANCE FROM INTER ALLOTMENT DRAINAGE EASEMENT (IF PRESENT), REAR PROPERTY BOUNDARY RETAINING WALL (IF PRESENT) OR REAR PROPERTY BOUNDARY. PRESSURE SEWER UNIT (PSU) IS TO HAVE 2150mm CLEARANCE FROM BUILDING STRUCTURES.
- Ø25 ELECTRICAL CONDUIT IS TO EXTEND FROM CONNECTION WITH PRESSURE SEWER UNIT (PSU) TO NOM. 500mm INSIDE FRONT PROPERTY BOUNDARY AND BE CAPPED. ELECTRICAL CONDUIT IS TO BE HEAVY DUTY ORANGE. ALL CONDUIT BENDS ARE TO BE LARGE RADIUS SWEEP BENDS.
- FOR MORE INFORMATION REFER TO FLOW SYSTEMS STANDARD DRAWING FSI-1000-FS.
- FOR ALTERNATE TANK AND BOUNDARY CONFIGURATIONS, AND DETAILS FOR TANKS INSTALLED ON PROPERTIES WITH BATTERS AND RETAINING WALLS, REFER TO FLOW SYSTEMS STANDARD DRAWINGS FSI-SK03A-FS AND FSI-SK03B-FS.
- POSITION TANK LID SUCH THAT BREATHER PIPE LOCATION IS ON THE DOWNSLOPE SIDE OF THE BLOCK WHERE POSSIBLE.
- CONTRACTOR TO INSTALL ELECTRICAL CONDUIT CONNECTION (CONDUIT AT 90° FROM DISCHARGE PIPE) IN ACCORDANCE WITH AS3000 AT MIN 500mm COVER. ELECTRICAL GROMMET SUPPLIED WITH TANK AND LOCATED LOOSE WITHIN TANK. Ø25 CONDUIT TO BE PROVIDED WITH LONG RADIUS SWEEP BEND INTO THE VERTICAL POSITION AND LEFT CAPPED ABOVE GROUND LEVEL FOR FUTURE ELECTRICAL CONNECTION BY ELECTRICIAN ONCE DWELLING IS CONSTRUCTED.
- CONTRACTOR TO INSTALL DN150 CONDUIT FOR FUTURE POTABLE AND RECYCLED WATER SINGLE SERVICE PROPERTY CONNECTIONS, WHERE SHOWN.
- THE WATER AUTHORITY MAY GRANT DISPENSATION FOR ALTERNATE TANK OFFSETS SUBJECT TO FORMAL REQUEST AND APPROVAL.

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COMPANY ADWJohnson Pty Ltd COMPANY  
NAME BASS RANDALL NAME  
SIGNED *Bass Randall* DATE 26/06/2026 SIGNED \_\_\_\_\_ DATE \_\_\_\_\_  
REGISTERED SURVEYOR REGISTERED SURVEYOR CONSTRUCTION MANAGER

**ORIGIN OF W.A.C. LEVELS**  
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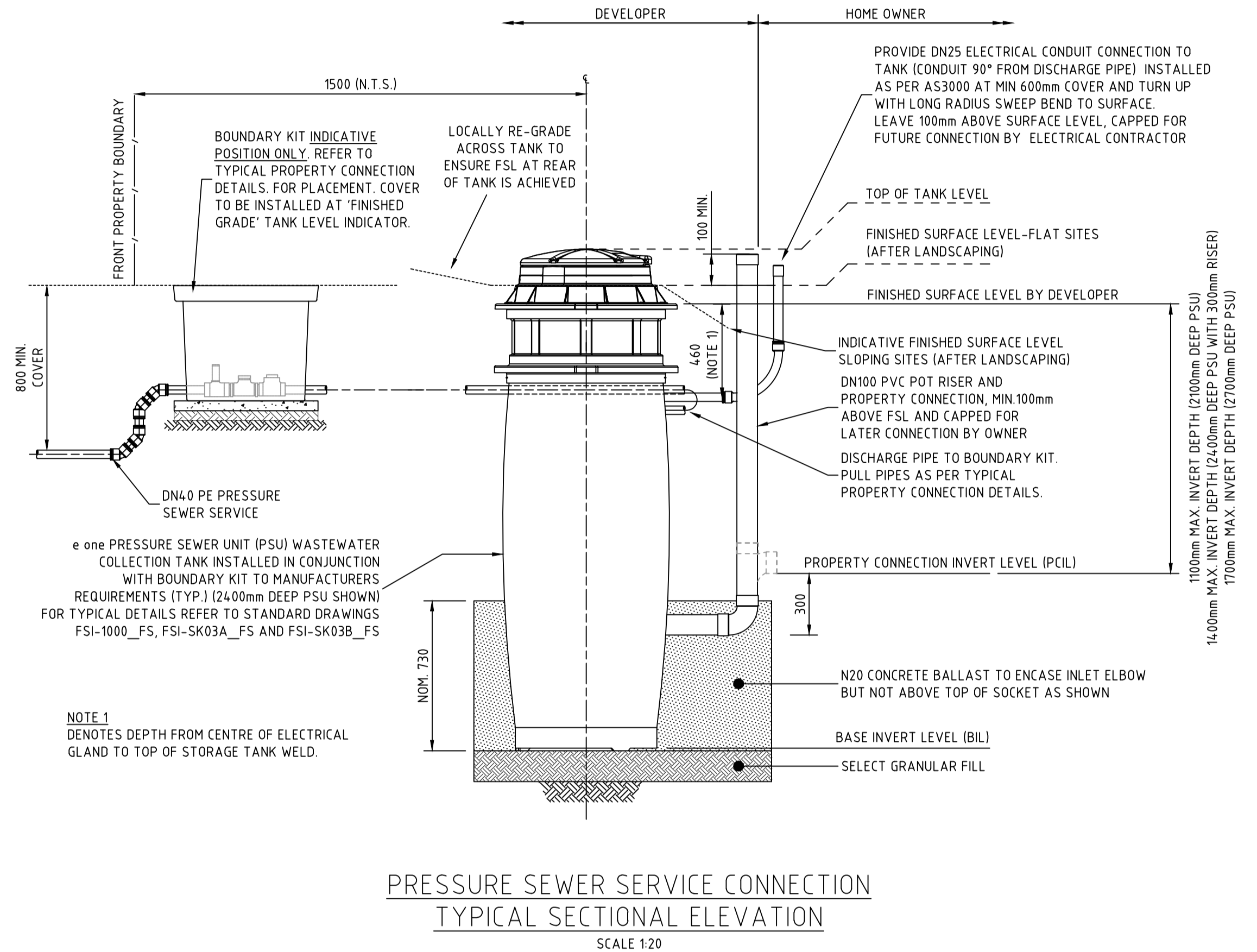


WORK AS CONSTRUCTED

REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY	SCALES	CLIENT	PROPERTY DESCRIPTION	PROJECT	PLAN TITLE	SURVEYED	DATUM	PROJECT No.	DISCIPLINE	NUMBER	REV.
A	22.05.25	INITIAL ISSUE	I.B.	C.H.	G.S.	C.B.	0	Hunter Office	PROPOSED SUBDIVISION	POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION		Daly,Smith	GDA94 M.G.A. ZONE 56	240037(BR7)	WAC	403	3
B	17.06.25	AMENDED ISSUE	I.B.	C.H.	G.S.	C.B.	0.5	Unit 7/335 Hillsborough Rd	BRIDGING RESIDENTIAL - STAGE 7								
0	25.07.25	CONSTRUCTION ISSUE	J.N.	C.H.	G.S.	C.B.	1.0m	Warners Bay N.S.W. 2282	HUNTLEE								
1	03.10.25	AMENDED CONSTRUCTION ISSUE	I.B.	C.H.	G.S.	C.B.		Phone: (02) 4978 5100									
2	11.11.25	AMENDED CONSTRUCTION ISSUE	I.B.	C.H.	G.S.	C.B.		Fax: (02) 4978 5199									
3	26.06.26	WORK AS CONSTRUCTED	I.B.	C.H.	G.S.	C.B.		email: hunter@adwjohnson.com.au									
			I.B.	C.H.	G.S.	C.B.		www.adwjohnson.com.au									
								ABN 62 129 445 398									

**NOTE:**  
FINISHED SURFACE LEVELS EXTRACTED FROM DIGITAL DATA  
SUPPLIED BY GROUNDWELL ENGINEERS  
(06.11.2025) - BR7-C01.01 - REV 3

WASTEWATER COLLECTION TANK DETAILS									TOP OF COLLECTION TANK LID	CALCULATED WAC SANITARY DRAINAGE INVERT LEVEL	WAC V'S DESIGN INVERT LEVEL COMPARISON
LOT NUMBER	TOP OF COLLECTION TANK	TANK FSL	BASE IL	CONNECTION IL	TANK TYPE	TANK LOCATION	EASTING	NORTHING			
701	57.58	57.30	55.45	56.20	2100	FRONT BATTER	344264.96	6384263.75	57.62	56.24	0.04
702	56.18	55.90	54.05	54.80	2100	FRONT BATTER	344252.26	6384262.60	56.19	54.81	0.01
703	55.28	55.00	53.15	53.90	2100	FRONT BATTER	344238.82	6384261.39	55.34	53.96	0.06
704	54.60	54.32	52.47	53.22	2100	FRONT BATTER	344225.37	6384260.18	54.59	53.21	-0.01
705	54.15	53.87	52.02	52.77	2100	FRONT	344214.92	6384259.24	54.16	52.78	0.01
706	53.81	53.53	51.68	52.43	2100	FRONT	344197.81	6384257.70	53.78	52.40	-0.03
707	52.48	52.20	50.35	51.10	2100	FRONT	344206.12	6384319.70	53.37	52.00	0.89
708	53.46	53.18	51.33	52.08	2100	FRONT	344218.51	6384320.81	53.47	52.09	0.01
709	54.33	54.05	52.20	52.95	2100	FRONT	344230.96	6384321.93	54.33	52.96	0.01
710	55.28	55.00	53.15	53.90	2100	FRONT	344243.41	6384323.05	55.27	53.90	0.00
711	56.43	56.15	54.30	55.05	2100	FRONT BATTER	344257.70	6384324.34	56.44	55.06	0.01
712	56.38	56.10	53.95	54.70	2400	FRONT	344260.12	6384343.83	56.41	54.73	0.03
713	55.10	54.82	52.97	53.72	2100	REAR	344247.59	6384370.87	55.09	53.71	-0.01
714	55.08	54.80	52.95	53.70	2100	FRONT	344241.19	6384342.13	55.10	53.73	0.03
715	54.41	54.13	52.28	53.03	2100	FRONT	344232.73	6384341.37	54.46	53.08	0.05
716	53.42	53.14	51.29	52.04	2100	FRONT	344220.28	6384340.25	53.44	52.06	0.02
717	52.13	51.85	50.00	50.75	2100	FRONT	344201.68	6384338.66	51.98	50.60	-0.15
718	51.66	51.38	49.53	50.28	2100	FRONT	344210.07	6384407.31	51.65	50.28	0.00
719	52.62	52.34	50.49	51.24	2100	FRONT	344222.47	6384405.71	52.63	51.25	0.01
720	53.44	53.16	51.31	52.06	2100	FRONT	344232.88	6384404.37	53.45	52.08	0.02
721	54.22	53.94	52.09	52.84	2100	FRONT	344243.29	6384403.02	54.22	52.84	0.00
722	55.00	54.72	52.87	53.62	2100	FRONT	344255.69	6384401.42	55.00	53.63	0.01
723	55.98	55.70	53.85	54.60	2100	FRONT BATTER	344284.74	6384396.54	55.95	54.57	-0.03
724	56.33	56.05	54.20	54.95	2100	FRONT BATTER	344286.75	6384374.19	56.35	54.97	0.02
725	57.03	56.75	54.90	55.65	2100	FRONT BATTER	344288.12	6384359.01	57.07	55.70	0.05
726	57.23	56.95	55.10	55.85	2100	FRONT BATTER	344288.86	6384350.79	57.27	55.89	0.04
727	57.58	57.30	55.45	56.20	2100	FRONT BATTER	344290.70	6384330.27	57.60	56.22	0.02
728	57.58	57.30	55.45	56.20	2100	FRONT BATTER	344290.87	6384328.38	57.57	56.19	-0.01
729	57.76	57.48	55.63	56.38	2100	FRONT BATTER	344292.08	6384314.93	57.73	56.35	-0.03
730	57.98	57.70	55.85	56.60	2100	FRONT BATTER	344293.29	6384301.49	58.00	56.63	0.03
731	59.03	58.75	56.90	57.65	2100	REAR	344305.70	6384288.55	59.02	57.64	-0.01
732	60.46	60.18	58.03	58.78	2400	FRONT BATTER	344310.18	6384267.81	60.46	58.78	0.00
733	61.26	60.98	59.13	59.88	2100	FRONT BATTER	344322.63	6384268.93	61.24	59.87	-0.01
734	62.06	61.78	59.63	60.38	2400	FRONT BATTER	344335.08	6384270.05	62.06	60.38	0.00
735	62.70	62.42	60.57	61.32	2100	FRONT BATTER	344347.52	6384271.17	62.70	61.33	0.01
736	61.00	60.72	58.87	59.62	2100	REAR	344326.15	6384303.99	60.94	59.56	-0.06
737	60.86	60.58	58.73	59.48	2100	REAR	344324.94	6384317.44	60.86	59.48	0.00
738	60.61	60.33	58.48	59.23	2100	REAR	344323.73	6384330.88	60.60	59.23	0.00
739	60.30	60.02	58.17	58.92	2100	REAR	344322.48	6384344.73	60.28	58.91	-0.01
740	59.76	59.48	57.63	58.38	2100	REAR	344321.71	6384353.29	59.74	58.37	-0.01
741	59.61	59.33	57.48	58.23	2100	REAR	344320.96	6384361.66	59.61	58.23	0.00
742	58.95	58.67	56.52	57.27	2400	FRONT BATTER	344347.51	6384379.66	59.00	57.32	0.05
743	58.68	58.40	56.25	57.00	2400	FRONT	344346.42	6384391.77	58.68	57.01	0.01
744	59.08	58.80	56.95	57.70	2100	FRONT BATTER	344365.54	6384393.49	59.08	57.71	0.01
745	59.28	59.00	57.15	57.90	2100	FRONT BATTER	344366.63	6384381.32	59.31	57.93	0.03
746	60.11	59.83	57.98	58.73	2100	FRONT BATTER	344367.79	6384368.53	60.12	58.74	0.01
747	61.25	60.97	59.12	59.87	2100	FRONT BATTER	344369.00	6384355.08	61.30	59.92	0.05
748	62.08	61.80	59.95	60.70	2100	FRONT BATTER	344370.12	6384342.63	62.11	60.73	0.03
749	62.57	62.29	60.44	61.19	2100	FRONT BATTER	344371.24	6384330.18	62.63	61.26	0.07
750	62.75	62.47	60.62	61.37	2100	FRONT BATTER	344372.15	6384320.06	62.82	61.45	0.08
751	62.86	62.58	60.73	61.48	2100	FRONT BATTER	344373.09	6384309.60	62.94	61.56	0.08
904						COMMERCIAL LOT					
905						COMMERCIAL LOT					
906						COMMERCIAL LOT					



**WASTEWATER COLLECTION TANK COUNT**

TANK SIZE	NUMBER OF
2100	46
2400	5
2700	0
TOTAL	51

2100 L	11
2100 R	35
2400 L	2
2400 R	3
2700 L	0
2700 R	0

**WORK AS CONSTRUCTED**

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COMPANY: ADWJohnson Pty Ltd      COMPANY: BASS RANDALL

NAME: BASS RANDALL

SIGNED: *Bass Randall*      DATE: 26/06/2026      SIGNED: \_\_\_\_\_      DATE: \_\_\_\_\_

REGISTERED SURVEYOR      CONSTRUCTION MANAGER

**ORIGIN OF W.A.C. LEVELS**

PM: 20029      Co-Ord System: MGA Ground

E: 345612.942      MGA Datum: GDA94

N: 6382878.917      MGA Zone: 56

RL: 77.675m



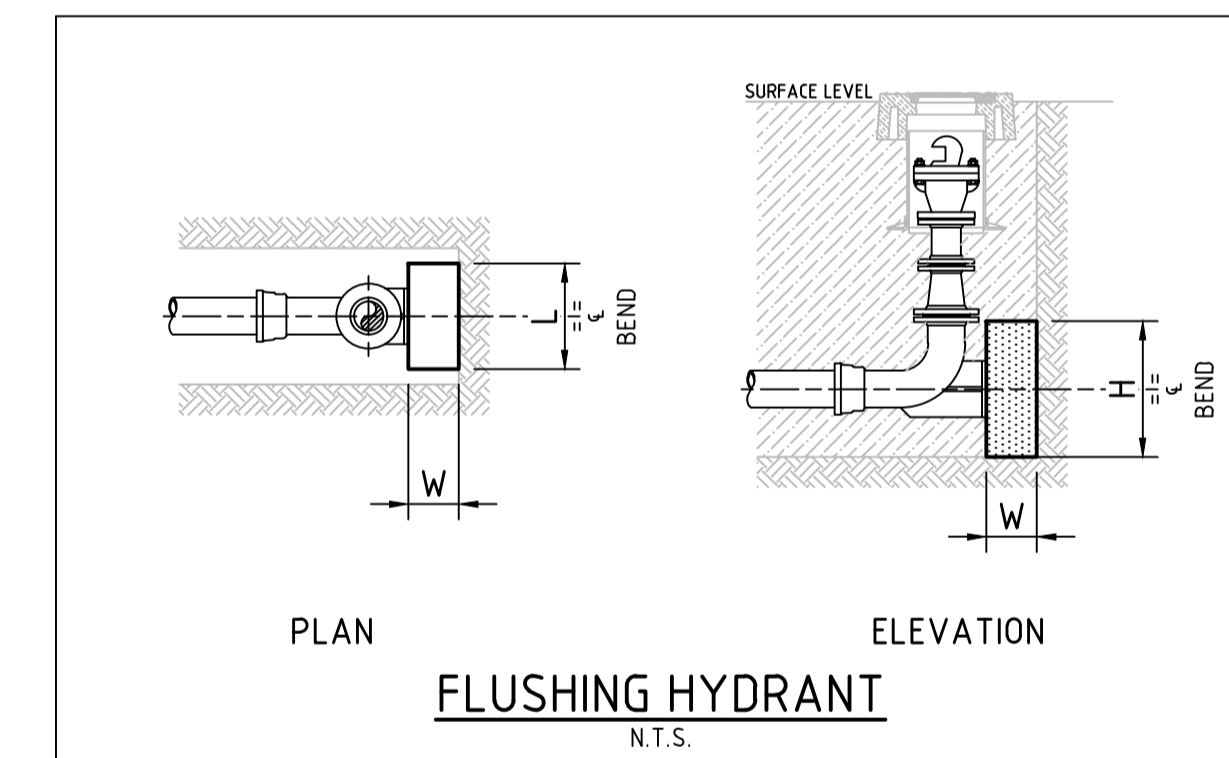
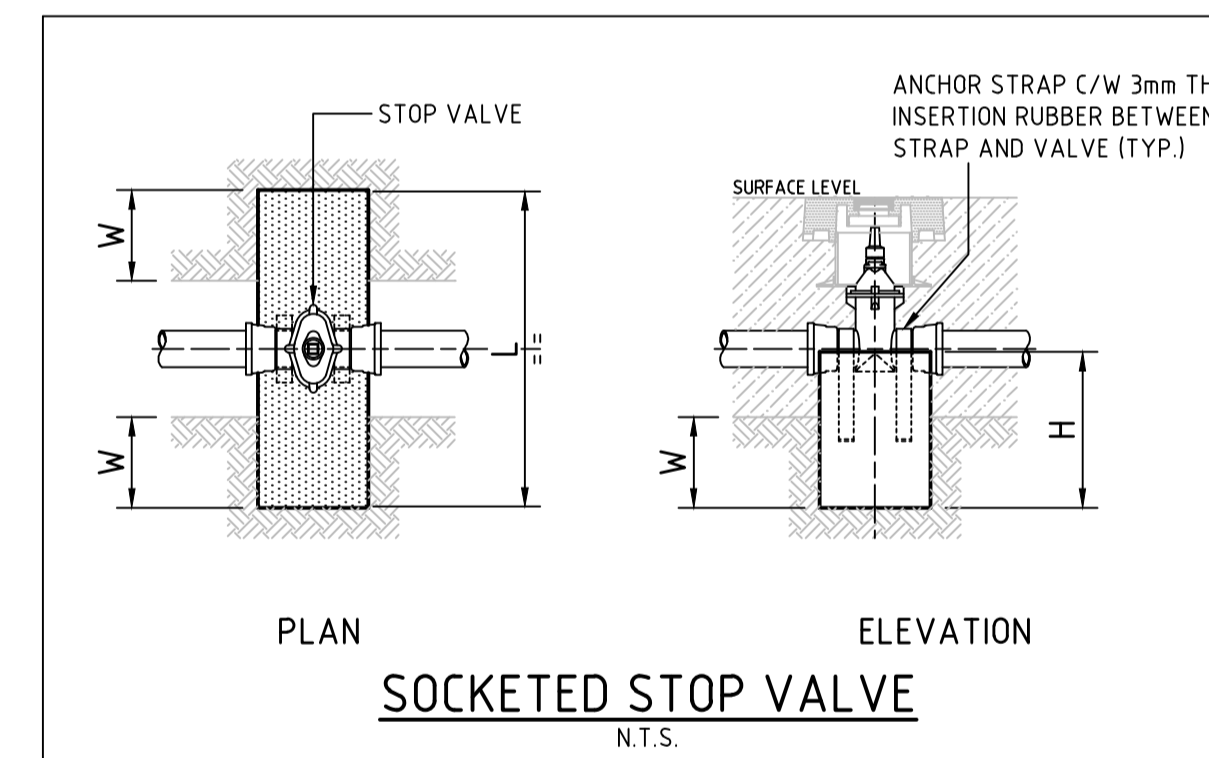
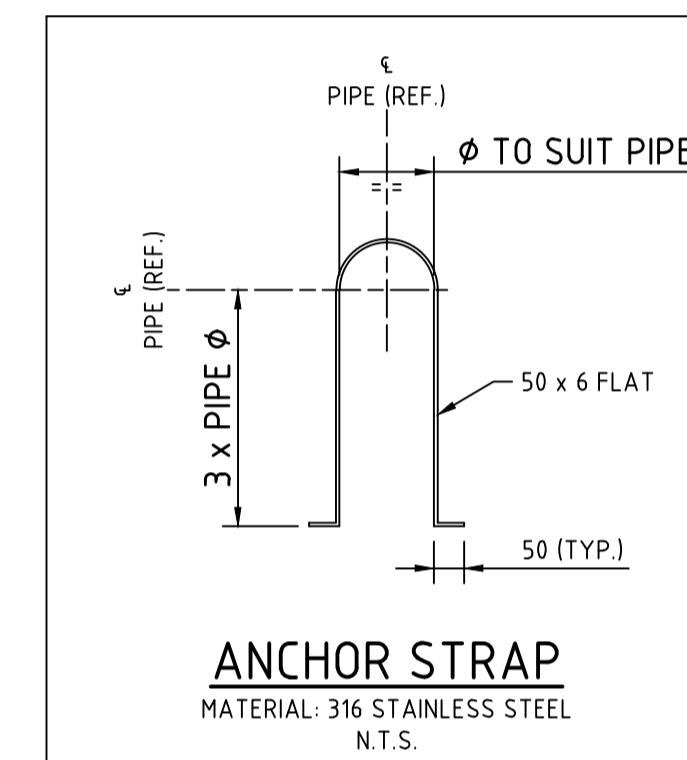
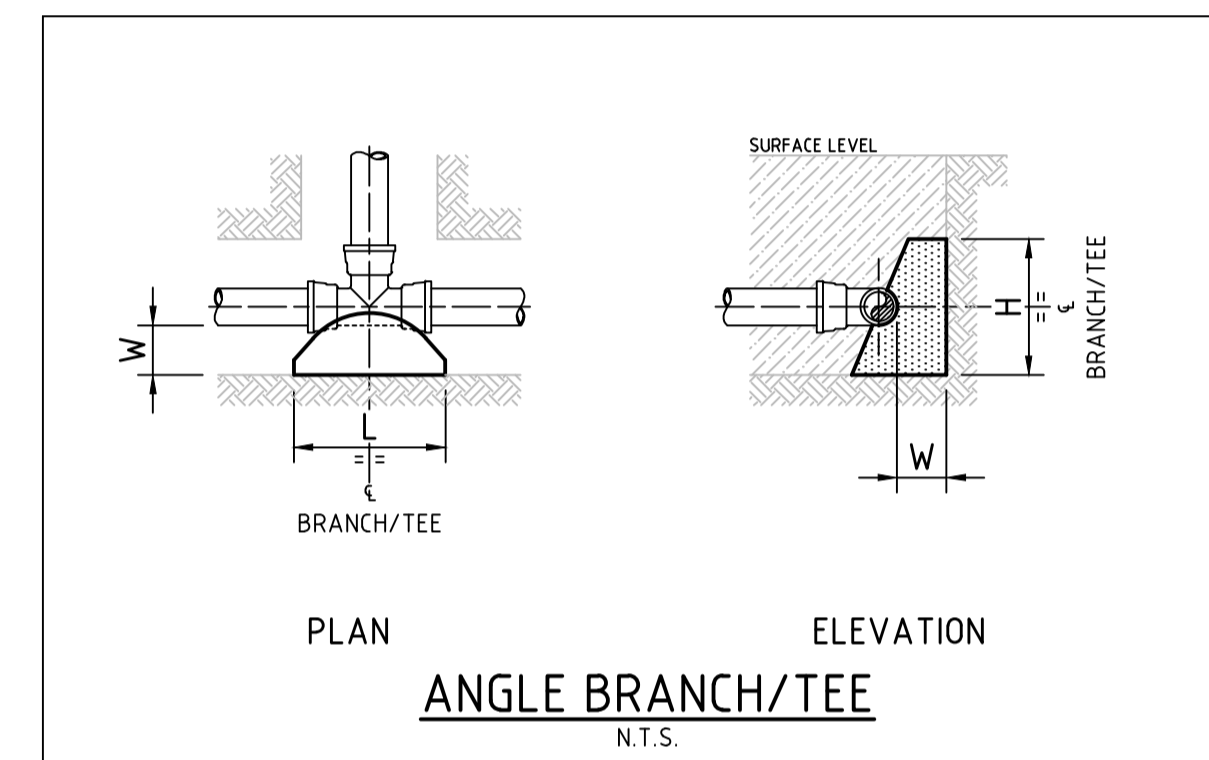
**WORK AS CONSTRUCTED**

REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY	SCALES	 Hunter Office Unit 7/335 Hillsborough Rd Warners Bay N.S.W. 2282 Phone: (02) 4978 5100 Fax: (02) 4978 5199 email: hunter@adwjohnson.com.au www.adwjohnson.com.au ABN 62 129 445 398	 CLIENT	PROPERTY DESCRIPTION		PROJECT						
SURVEYED		DATUM	PROJECT No.	DISCIPLINE	NUMBER	REV.												
A	22.05.25	INITIAL ISSUE	I.B.	C.H.	G.S.	C.B.	0 0.5 1.0m	 ALL DIMENSIONS ARE IN METRES U.N.O. DO NOT SCALE	 CLIENT	PROPOSED SUBDIVISION BRIDGING RESIDENTIAL - STAGE 7 HUNTLEE		POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION						
B	17.06.25	AMENDED ISSUE	I.B.	C.H.	G.S.	C.B.	 ALL DIMENSIONS ARE IN METRES U.N.O. DO NOT SCALE			 CLIENT	WASTE WATER COLLECTION DETAILS		PLAN TITLE					
0	25.07.25	CONSTRUCTION ISSUE	I.B.	C.H.	G.S.	C.B.							 ALL DIMENSIONS ARE IN METRES U.N.O. DO NOT SCALE	 CLIENT	WASTE WATER COLLECTION DETAILS		PROJECT No. 240037(BR7) - DISCIPLINE WAC	
1	03.10.25	AMENDED CONSTRUCTION ISSUE	I.B.	C.H.	G.S.	C.B.											NUMBER 404	
2	11.11.25	AMENDED CONSTRUCTION ISSUE	I.B.	C.H.	G.S.	C.B.											REV. 3	
3	26.06.26	WORK AS CONSTRUCTED	I.B.	C.H.	G.S.	C.B.	SURVEYED: Daly,Smith      DATUM: GDA94 M.G.A. ZONE 56      A.H.D.		PROJECT No. 240037(BR7) - DISCIPLINE WAC      NUMBER 404      REV. 3									

**THRUST BLOCK NOTES:**

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

TYPE	FITTING	SOIL AHBP (kPa)	DESIGN STP (kPa)	THRUST	TA (m <sup>2</sup> )	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 FLUSHING HYDRANT	100	1500	18.00	0.18	0.45	0.40	0.30
3	DN100 SOCKETED STOP VALVE	100	1500	18.00	0.18	1.05	0.44	0.30
4	DN100 x 45° HORIZONTAL BEND	100	1500	7.50	0.08	N	N	0.30
5	DN100 x 22.5° HORIZONTAL BEND	100	1500	7.50	0.08	N	N	0.30
6	DN100 x 11.25° HORIZONTAL BEND	100	1500	7.50	0.08	N	N	0.30



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 COMPANY ADW Johnson Pty Ltd COMPANY  
 NAME BASS RANDALL NAME  
 SIGNED *Bass Randall* DATE 26/06/2026 SIGNED \_\_\_\_\_ DATE \_\_\_\_\_  
 REGISTERED SURVEYOR CONSTRUCTION MANAGER

**ORIGIN OF W.A.C. LEVELS**  
 PM 20029 Co-Ord System: MGA Ground  
 E: 345612.942 MGA Datum: GDA94  
 N: 6382878.917 MGA Zone: 56  
 RL: 77.675m



**WORK AS CONSTRUCTED**

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

REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY	SCALES
A	22.05.25	INITIAL ISSUE	I.B.	C.H.	G.S.	C.B.	
B	17.06.25	AMENDED ISSUE	I.B.	C.H.	G.S.	C.B.	
0	25.07.25	CONSTRUCTION ISSUE	J.N.	C.H.	G.S.	C.B.	
1	03.10.25	AMENDED CONSTRUCTION ISSUE	I.B.	C.H.	G.S.	C.B.	
2	11.11.25	AMENDED CONSTRUCTION ISSUE	I.B.	C.H.	G.S.	C.B.	
3	26.06.26	WORK AS CONSTRUCTED	I.B.	C.H.	G.S.	C.B.	

		Hunter Office Unit 7/335 Hillsborough Rd Warners Bay N.S.W. 2282 Phone: (02) 4978 5100 Fax: (02) 4978 5199 email: hunter@adwjohnson.com.au www.adwjohnson.com.au ABN 62 129 445 398	CLIENT 	PROPERTY DESCRIPTION PROPOSED SUBDIVISION BRIDGING RESIDENTIAL - STAGE 7 HUNTLEE	PROJECT POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION PLAN TITLE THRUST BLOCK DETAILS
SURVEYED Daly,Smith	DATUM GDA94 M.G.A. ZONE 56 A.H.D.	PROJECT No. 240037(BR7) -	DISCIPLINE WAC	NUMBER 406	REV. 3

Point Table				
Point #	Eastings	Northings	Levels	Codes
1	344361.87	6384275.73	62.56	waHYD
2	344322.38	6384263.78	60.93	waHYD
3	344196.80	6384252.48	53.49	waHYD
4	344271.17	6384259.30	57.41	waHYD
5	344285.19	6384334.41	56.88	waHYD
6	344232.05	6384327.31	53.93	waHYD
7	344253.00	6384426.01	54.28	waHYD
8	344279.86	6384393.36	55.17	waHYD
9	344312.76	6384418.35	56.94	waHYD
10	344390.92	6384421.29	60.39	waHYD
11	344388.83	6384421.15	60.26	waHYD
12	344351.28	6384390.21	58.39	waHYD
13	344356.50	6384335.36	61.64	waHYD
14	344361.86	6384274.73	62.56	waSV
15	344291.31	6384269.37	58.25	waSV
16	344285.34	6384333.16	56.88	waSV
17	344285.61	6384330.44	56.90	waSV
18	344268.51	6384330.48	56.44	waSV
19	344263.73	6384341.49	56.31	seSV
20	344264.61	6384341.57	56.33	seSV
21	344276.84	6384422.96	55.47	waSV
22	344280.56	6384422.45	55.63	waSV
23	344280.11	6384392.44	55.16	waSV
24	344389.91	6384421.27	60.34	waSV
25	344351.30	6384391.57	58.41	waSV
26	344346.83	6384270.05	62.32	waTAP
27	344334.43	6384266.06	61.61	waTAP
28	344321.98	6384268.01	60.89	waTAP
29	344309.57	6384266.73	60.07	waTAP
30	344308.70	6384266.57	59.86	waTAP
31	344197.17	6384256.52	53.46	waTAP
32	344214.29	6384258.35	53.83	waTAP
33	344224.66	6384259.24	54.29	waTAP
34	344238.22	6384260.41	55.10	waTAP
35	344251.56	6384261.54	56.09	waTAP
36	344264.24	6384262.71	57.08	waTAP
37	344291.98	6384302.08	57.48	waTAP
38	344290.98	6384315.56	57.30	waTAP
39	344289.68	6384328.99	57.06	waTAP
40	344289.59	6384329.61	57.08	waTAP
41	344258.11	6384325.59	56.08	waTAP
42	344242.69	6384324.30	54.85	waTAP
43	344230.00	6384322.95	53.80	waTAP
44	344217.52	6384321.85	52.96	waTAP
45	344217.30	6384321.82	52.95	waTAP
46	344202.17	6384337.85	51.60	waTAP
47	344219.81	6384339.13	53.16	waTAP
48	344232.11	6384340.30	54.13	waTAP
49	344240.70	6384341.11	54.78	waTAP
50	344249.12	6384341.82	55.34	waTAP
51	344259.59	6384342.75	56.06	waTAP
52	344287.75	6384351.37	56.83	waTAP
53	344286.85	6384359.56	56.70	waTAP
54	344285.58	6384374.79	56.01	waTAP
55	344255.08	6384402.64	54.73	waTAP

Point Table				
Point #	Eastings	Northings	Levels	Codes
56	344242.86	6384404.16	53.92	waTAP
57	344232.30	6384405.36	53.21	waTAP
58	344221.84	6384406.89	52.29	waTAP
59	344209.77	6384408.51	51.25	waTAP
60	344284.47	6384397.74	55.64	waTAP
61	344364.97	6384394.54	58.79	waTAP
62	344347.38	6384392.57	58.36	waTAP
63	344348.57	6384380.60	58.52	waTAP
64	344349.60	6384365.46	59.62	waTAP
65	344350.58	6384357.13	60.21	waTAP
66	344351.38	6384348.54	60.70	waTAP
67	344352.47	6384334.72	61.50	waTAP
68	344353.71	6384321.31	61.96	waTAP
69	344354.87	6384307.81	62.14	waTAP
70	344371.83	6384310.10	62.33	waTAP
71	344370.84	6384320.63	62.24	waTAP
72	344370.20	6384331.12	62.08	waTAP
73	344368.89	6384342.98	61.48	waTAP
74	344367.73	6384355.46	60.62	waTAP
75	344366.51	6384368.83	59.75	waTAP
76	344365.47	6384381.90	58.67	waTAP
77	344361.30	6384425.96	62.58	waHYDR
78	344285.79	6384334.13	56.88	waHYDR
79	344252.94	6384426.66	54.28	waHYDR
80	344280.40	6384393.64	55.19	waHYDR
81	344390.99	6384421.74	60.37	waHYDR
82	344350.80	6384390.29	58.38	waHYDR
83	344361.28	6384275.16	62.59	waSVR
84	344291.86	6384269.77	58.22	waSVR
85	344285.82	6384332.96	56.88	waSVR
86	344286.03	6384330.64	56.93	waSVR
87	344268.72	6384330.06	56.47	waSVR
88	344276.75	6384423.39	55.48	waSVR
89	344281.42	6384422.95	55.67	waSVR
90	344280.59	6384392.36	55.17	waSVR
91	344390.15	6384421.73	60.35	waSVR
92	344350.84	6384391.55	58.43	waSVR
93	344202.53	6384337.86	51.69	waTAPR
94	344220.04	6384339.20	53.21	waTAPR
95	344232.43	6384340.38	54.17	waTAPR
96	344240.95	6384341.14	54.84	waTAPR
97	344259.80	6384342.73	56.09	waTAPR
98	344257.84	6384325.54	56.08	waTAPR
99	344242.96	6384324.30	54.90	waTAPR
100	344230.23	6384323.02	53.91	waTAPR
101	344217.84	6384321.93	52.97	waTAPR
102	344217.09	6384321.80	52.86	waTAPR
103	344249.43	6384341.77	55.41	waTAPR
104	344210.12	6384408.44	51.31	waTAPR
105	344222.16	6384406.89	52.35	waTAPR
106	344232.63	6384405.37	53.20	waTAPR
107	344243.15	6384404.12	53.94	waTAPR
108	344255.28	6384402.60	54.74	waTAPR
109	344284.48	6384397.52	55.64	waTAPR
110	344285.63	6384374.42	56.08	waTAPR

Point Table				
Point #	Eastings	Northings	Levels	Codes
111	344286.90	6384359.31	56.71	waTAPR
112	344287.82	6384351.03	56.92	waTAPR
113	344289.59	6384329.83	57.10	waTAPR
114	344289.71	6384328.67	57.07	waTAPR
115	344290.97	6384315.31	57.29	waTAPR
116	344292.12	6384301.83	57.49	waTAPR
117	344197.45	6384256.55	53.47	waTAPR
118	344214.52	6384258.35	53.86	waTAPR
119	344224.85	6384259.25	54.29	waTAPR
120	344238.44	6384260.44	55.12	waTAPR
121	344251.79	6384261.56	56.05	waTAPR
122	344264.45	6384262.67	57.09	waTAPR
123	344308.51	6384266.56	59.83	waTAPR
124	344309.81	6384266.76	60.06	waTAPR
125	344322.25	6384268.03	61.91	waTAPR
126	344334.66	6384269.04	61.60	waTAPR
127	344347.17	6384270.06	62.29	waTAPR
128	344354.85	6384307.45	62.13	waTAPR
129	344371.90	6384309.89	62.44	waTAPR
130	344370.87	6384320.38	62.20	waTAPR
131	344353.79	6384320.94	61.98	waTAPR
132	344370.24	6384330.87	62.13	waTAPR
133	344352.52	6384334.34	61.59	waTAPR
134	344368.88	6384343.23	61.48	waTAPR
135	344351.38	6384348.32	60.71	waTAPR
136	344367.66	6384355.74	60.61	waTAPR
137	344350.64	6384356.78	60.16	waTAPR
138	344349.69	6384365.15	59.60	waTAPR
139	344366.45	6384369.06	59.69	waTAPR
140	344365.45	6384381.73	58.68	waTAPR
141	344348.58	6384380.29	58.58	waTAPR
142	344347.39	6384392.26	58.35	waTAPR
143	344365.06	6384394.28	58.83	waTAPR
144	344211.17	6384407.26	51.55	seBDYKIT
145	344223.22	6384405.79	52.50	seBDYKIT
146	344233.34	6384404.40	53.30	seBDYKIT
147	344244.18	6384402.94	54.10	seBDYKIT
148	344256.15	6384401.48	54.86	seBDYKIT
149	344284.88	6384395.88	55.81	seBDYKIT
150	344286.68	6384373.55	56.23	seBDYKIT
151	344288.03	6384358.63	56.92	seBDYKIT
152	344288.81	6384350.06	57.14	seBDYKIT
153	344260.98	6384343.93	56.25	seBDYKIT
154	344249.91	6384342.20	55.54	seBDYKIT
155	344242.08	6384342.18	54.95	seBDYKIT
156	344233.52	6384341.49	54.32	seBDYKIT
157	344220.95	6384340.43	53.29	seBDYKIT
158	344203.10	6384339.07	51.81	seBDYKIT
159	344215.84	6384320.54	53.27	seBDYKIT
160	344219.26	6384321.09	53.36	seBDYKIT
161	344231.75	6384322.15	54.27	seBDYKIT
162	344244.10	6384323.49	55.22	seBDYKIT
163	344257.96	6384324.56	56.30	seBDYKIT
164	344290.56	6384331.12	57.49	seBDYKIT
165	344290.95	6384327.70	57.44	seBDYKIT

Point Table				
Point #	Eastings	Northings	Levels	Codes
166	344292.06	6384343.23	57.59	seBDYKIT
167	344293.37	6384300.78	57.89	seBDYKIT
168	344198.51	6384257.68	53.71	seBDYKIT
169	344215.58	6384259.44	54.05	seBDYKIT
170	344226.02	6384260.28	54.52	seBDYKIT
171	344239.49	6384261.52	55.22	seBDYKIT
172	344252.98	6384262.71	56.10	seBDYKIT
173	344265.48	6384263.81	57.48	seBDYKIT
174	344237.28	6384241.54	55.04	seBDYKIT
175	344308.08	6384266.95	59.89	seBDYKIT
176	344310.55	6384267.78	60.35	seBDYKIT
177	344323.13	6384269.00	61.12	seBDYKIT
178	344335.34	6384270.22	61.89	seBDYKIT
179	344347.82	6384271.22	62.58	seBDYKIT
180	344377.26	6384268.78	63.24	seBDYKIT
181	344373.11	6384308.85	62.82	seBDYKIT
182	344354.57	6384306.88	62.33	seBDYKIT
183	344372.07	6384319.32	62.72	seBDYKIT
184	344353.55	6384320.25	62.23	seBDYKIT
185	344352.33	6384333.87	61.76	seBDYKIT
186	344371.20	6384329.75	62.54	seBDYKIT
187	344370.06	6384342.31	62.01	seBDYKIT
188	344351.11	6384347.87	60.96	seBDYKIT
189	344368.85	6384354.85	61.21	seBDYKIT
190	344350.36	6384356.40	60.39	seBDYKIT
191	344349.46	6384364.58	59.63	seBDYKIT
192	344367.70	6384368.01	59.98	seBDYKIT
193	344366.60	6384380.79	59.19	seBDYKIT
194	344347.71	6384378.89	58.86	seBDYKIT
195	344346.45	6384391.16	58.53	seBDYKIT
196	344365.47	6384392.82	58.98	seBDYKIT
198	344199.47	6384336.07	51.43	