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POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION PROPOSED SUBDIVISION STAGES 2.12 & 2.13 WATAGAN PARK WHISTLER DRIVE, COORANBONG DA/307/2015



LOCALITY SKETCH

	DRAWING INDEX
DRAWING NUMBER	DRAWING TITLE
239078(2.12 & 2.13)-WAT-001	COVER SHEET, LOCALITY PLAN AND DRAWING INDEX
239078(2.12 & 2.13)-WAT-002	GENERAL NOTES
239078(2.12 & 2.13)-WAT-003	OVERALL SITE PLAN
239078(2.12 & 2.13)-WAT-004	POTABLE WATER DETAIL PLAN - SHEET 1
239078(2.12 & 2.13)-WAT-005	POTABLE WATER DETAIL PLAN - SHEET 2
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239078(2.12 & 2.13)-WAT-009	POTABLE WATER DETAIL PLAN - SHEET 6
239078(2.12 & 2.13)-WAT-010	NOT USED
239078(2.12 & 2.13)-WAT-011	NOT USED
239078(2.12 & 2.13)-WAT-012	RECYCLED WATER DETAIL PLAN - SHEET 1
239078(2.12 & 2.13)-WAT-013	RECYCLED WATER DETAIL PLAN - SHEET 2
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239078(2.12 & 2.13)-WAT-016	RECYCLED WATER DETAIL PLAN - SHEET 5
239078(2.12 & 2.13)-WAT-017	RECYCLED WATER DETAIL PLAN - SHEET 6
239078(2.12 & 2.13)-WAT-018	NOT USED
239078(2.12 & 2.13)-WAT-019	NOT USED
239078(2.12 & 2.13)-WAT-020	PRESSURE SEWER DETAIL PLAN - SHEET 1
239078(2.12 & 2.13)-WAT-021	PRESSURE SEWER DETAIL PLAN - SHEET 2
239078(2.12 & 2.13)-WAT-022	PRESSURE SEWER DETAIL PLAN - SHEET 3
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239078(2.12 & 2.13)-WAT-024	PRESSURE SEWER DETAIL PLAN - SHEET 5
239078(2.12 & 2.13)-WAT-025	PRESSURE SEWER DETAIL PLAN - SHEET 6
239078(2.12 & 2.13)-WAT-026	PRESSURE SEWER FLOW REDIRECTION DETAIL
239078(2.12 & 2.13)-WAT-027	NOT USED
239078(2.12 & 2.13)-WAT-028	TYPICAL PIPEWORK TRENCHING DETAILS
239078(2.12 & 2.13)-WAT-029	NOT USED
239078(2.12 & 2.13)-WAT-030	TYPICAL SERVICE CONNECTION DETAILS
239078(2.12 & 2.13)-WAT-031	WASTEWATER COLLECTION TANK LEVEL DETAILS
239078(2.12 & 2.13)-WAT-032	ROAD CROSS SECTIONS - SHEET 1
239078(2.12 & 2.13)-WAT-033	ROAD CROSS SECTIONS - SHEET 2
239078(2.12 & 2.13)-WAT-034	ROAD CROSS SECTIONS - SHEET 3
239078(2.12 & 2.13)-WAT-035	NOT USED



JE	REV.	DATE	AMENDMENT	DRAW	N CHECK	DESIG	ON VERIFY SCALES			C	LIENT		PROPERTY DESCRIPTION			PROJECT POTA	ABLE WATER, RECYCLED W	/ATER AND	
	A 1	5.01.2016 5.06.2016	PRELIMINARY ISSUE AMENDED ISSUE — SERVICES RELOCATED	J.N.	L.G.	J.N.	L.G.			Hunter Office Unit 7/335 Hillsborough Rd			DRODOSE	D SUBDIVISION	d	F	PRESSURE SEWER RETICU	LATION	
- 1	C 0	9.09.2019	AMENDED ISSUE - CLIENT COMMENTS	J.N.	L.G.	J.N.	L.G.			Warners Bay N.S.W. 2282			PRECINCT 2, STAGES 2			PLAN TITLE			
	0 3	8.09.2019 0.09.2019	AMENDED ISSUE — ADJUSTED LIMIT OF WORKS CONSTRUCTION ISSUE	J.N. J.N.	L.G.	J.N. J.N.	. L.G. . L.G.	~~\		Phone: (02) 4978 5100		JOHNSON	WHISTLER DR				COVER SHEET, LOCALITY		
	1 0	4.08.2020 4.08.2020	AMENDED CONSTRUCTION ISSUE	J.N.	C.B.	J.N. J.N.	CB	aav	/	Fax: (02) 4978 5199 email: hunter@adwiohnson.com.au		PROPERTY	DA	307/2015			AND DRAWING INDEX	•	
1		7.08.2020	AMENDED CONSTRUCTION ISSUE LOT NUMBERS UPDATED TO MATCH REGISTERED DP	J.N.	C.B.	J.N.	C.B.			www.adwjohnson.com.au		GROUP	SURVEYED	DATUM		PROJECT No.	DISCIPLINE	NUMBER	REV.
₫ [.	DESIGN F	LE N:\	LOT NOMBERS OF DATED TO MATCH REGISTERED DE	3.110	11.171.	U.IN.	ALL DIMENSIONS ARE IN METRES	DO NOT SCALE	SOL	ABN 62 129 445 398		,	ADW Johnson		A.H.D.	239078(2.12	2 & 2.13) - WAT -	001	4

GENERAL NOTES:

- 1. THIS DRAWING SET SHOULD BE READ IN CONJUNCTION WITH LAKE MACQUARIE CITY COUNCIL STANDARDS AND OTHER ASSOCIATED DRAWINGS AND TECHNICAL SPECIFICATIONS. ANY VARIATIONS SHALL BE APPROVED BY THE SUPERINTENDENT REPRESENTATIVE PRIOR TO COMMENCEMENT OF WORK.
- 2. THE CONTRACTOR SHALL LOCATE AND IDENTIFY ALL UNDERGROUND SERVICES PRIOR TO COMMENCEMENT OF WORK AND SHALL REPAIR ANY DAMAGE CAUSED TO SUCH SERVICES DURING CONSTRUCTION. ANY SERVICE LOCATIONS SHOWN IN THIS DRAWING SET ARE INDICATIVE ONLY.
- 3. ALL PRODUCTS AND MATERIALS SHALL BE NEW, SHALL COMPLY WITH THE RELEVANT AUSTRALIAN STANDARDS AND ARE TO BE SELECTED FROM THE COORANBONG WATER APPROVED PRODUCTS AND MATERIALS REGISTER.
- 4. DURING CONSTRUCTION ALL OPEN ENDS OF PIPES SHALL BE CAPPED TO PREVENT ENTRY OF FOREIGN MATTER.
- 5. ALL MAINS SHALL BE FLUSHED WITH WATER TO REMOVE ANY DEBRIS PRIOR TO COMMISSIONING
- 6. SURFACE IDENTIFICATION MARKERS ARE TO BE PROVIDED TO COORANBONG WATER REQUIREMENTS
- 7. MAKE SMOOTH TRANSITION TO EXISTING INFRASTRUCTURE (ROAD PAVEMENT, KERBS, FOOTPATHS, ETC.) TO LAKE MACQUARIE CITY COUNCIL AND SUPERINTENDENT'S SATISFACTION.
- 8. SUITABLE PROTECTION TO EXISTING INFRASTRUCTURE (ROAD PAVEMENT, KERBS, FOOTPATHS, ETC.) IS TO BE
- 9. CLEAR VEHICULAR ACCESS TO ADJOINING PROPERTIES IS TO BE MAINTAINED AT ALL TIMES FOR DURATION OF CONSTRUCTION. FOR ANY WORKS IN ADJOINING PROPERTIES, PERMISSION IS TO BE OBTAINED PRIOR TO
- 10. SERVICE CONDUITS ARE TO BE LAID AS DIRECTED BY THE SUPERINTENDENT/RELEVANT SERVICE AUTHORITY.

 LOCATE CLEAR OF VEHICULAR ACCESS LOCATIONS AND PROVIDE KERB MARKING AS PER COUNCIL REQUIREMENTS.
- 11. WHERE LOT FILLING EXCEEDS 300mm, A SURVEY OF THE STRIPPED SURFACE AND FINAL FILLED SURFACE SHALL BE UNDERTAKEN BY THE CONTRACTOR, WITH FILL DEPTHS NOTED ON W.A.C. PLANS.
- 12. THE CONTRACTOR SHALL PROVIDE COORANBONG WATER WITH M.G.A. COORDINATED WORK AS CONSTRUCTED INFORMATION. BURIED FITTINGS ARE NOT TO BE BACKFILLED UNTIL WORK AS CONSTRUCTED DETAILS HAVE BEEN OBTAINED AND APPROVAL FOR BACKFILLING HAS BEEN GIVEN BY THE COORANBONG WATER REPRESENTATIVE.
- 13. ANY WORKS NOT COVERED BY THE SPECIFICATION OR THIS DRAWING SET ARE TO BE REFERRED TO THE
- 14. THE CONTRACTOR SHALL PROVIDE COORANBONG WATER AND HUNTER WATER WITH A MINIMUM OF 7 DAYS NOTICE (IN WRITING) OF INTENT TO CONNECT NEW MAINS TO EXISTING INFRASTRUCTURE.
- 15. ALL PIPE BEDDING MATERIAL TO COMPLY WITH WSAA PRODUCT SPECIFICATION WSA-PS350 AND WSA PS351.

POTABLE WATER AND RECYCLED WATER NOTES:

- 1. ALL WORKS SHALL BE IN ACCORDANCE WITH BUT NOT LIMITED TO, WATER SUPPLY CODE OF AUSTRALIA WSA 03-2011-3.1 (SYDNEY WATER EDITION 2012) AND FLOW SYSTEMS SUPPLEMENTARY MANUAL TO WSAA.
- 2. WORKS MUST BE CONSTRUCTED IN ACCORDANCE WITH THE DESIGN DRAWINGS. CONSTRUCTION SPECIFICATION. WSA 03 PART 2 - CONSTRUCTION AND WSA 03 STANDARDS DRAWINGS AND WSA STANDARD DRAWINGS (SYDNEY WATER VERSION) OR AS MODIFIED BY FLOW SYSTEMS SUPPLEMENTARY MANUAL TO WSAA, CURRENT AT THE TIME
- 3. CLEARANCES SHOWN TO OTHER PIPES HAVE BEEN CALCULATED FROM THE COLLAR.
- 4. ALL PRODUCTS AND MATERIALS TO BE SELECTED FROM THE COORANBONG WATER APPROVED PRODUCTS AND
- 5. HYDRANTS, STOP VALVES AND ALL OTHER FITTINGS TO BE THE SAME SIZE AS THE THROUGH WATER MAIN. ALL POTABLE & RECYCLED WATER VALVES TO BE ANTI CLOCKWISE CLOSING.
- 6. HYDRANTS MUST NOT BE POSITIONED IN DRIVEWAYS OR TAPPING POINTS. HYDRANTS NOMINALLY AT LEAST 5m FROM EACH BOUNDARY OR ON BOUNDARIES.
- 7. ALL PIPES AND FITTINGS TO BE AT HWC PREFERRED MINIMUM COVER (WAT-1201-V).
 - FOOTWAYS 0.6m TYPE B EMBEDMENT WAT-1202. ROADWAYS 0.75m TYPE L EMBEDMENT WAT-1204-V
- 8. LAY DETECTABLE MARKING TAPE OVER ALL MAINS AND PROPERTY SERVICE LINES AS PER WAT-1854-S AN WAT-1855-S ENSURING A CONTINUOUS ELECTRICAL PATHWAY ALONG THE TRACE WIRE ON EACH SERVICE FROM PROPERTY METERS TO AND ALONG THE RELEVANT MAIN TO HYDRANTS AND VALVES.
- 9. GEOTECHNICAL CONDITIONS SHALL BE ASSESSED DURING CONSTRUCTION BY THE CONTRACTOR IN ASSOCIATION WITH COORANBONG WATER SUPERINTENDENT TO DETERMINE MODIFICATIONS TO EMBEDMENT/TRENCH TYPE AND TRENCH DRAINAGE/BULKHEAD REQUIREMENTS.
- 10. ALL POTABLE WATERMAINS SHALL BE PLAIN BLUE PVC-M (PN16).
- 11. ALL RECYCLED WATERMAINS SHALL BE LILAC PVC-M (PN16)
- 12. DIFFERENTIATION OF DRINKING (POTABLE) AND NON-DRINKING (RECYCLED) WATER SYSTEMS TO BE AS PER WSA 03-2011, TABLE 4.1 WITH BOTH SERVICES BEING CLASSIFIED AS WATERMAINS. RECYCLED WATERMAIN TO ALWAYS BE LOWER THAN POTABLE WATERMAIN WITH MINIMUM 150mm VERTICAL CLEARANCE.
- 13. FOR THRUST BLOCK DETAILS REFER TO DRG-027.
- 14. PROPERTY SERVICE CONNECTIONS SHALL BE IN ACCORDANCE WITH WSA STANDARD DRAWINGS FOR DUAL WATER SUPPLY SYSTEMS(SYDNEY WATER VERSION)(SUPPLEMENT TO WSA 03-2011) AND FLOW SYSTEMS SUPPLEMENTARY MANUAL TO WSAA.

 - WAT-1853-S.
 WAT-1854-FS.
 - WAT-1855-FS.
 - WAT-1856-S.
- 15. PROPERTY SERVICE CONNECTIONS MUST BE INSTALLED BY A LICENSED PLUMBER AND COMPLY WITH N.S.W. CODE OF PRACTICE FOR PLUMBING AND DRAINAGE AND AS/NZ 3500.
- 16. ALL MATERIALS USED IN PROPERTY SERVICES ARE TO BE IN ACCORDANCE WITH N.S.W. CODE OF PRACTICE FOR PLUMBING AND DRAINAGE AND AS/NZ 3500 (MINIMUM PN15), PE 100 B, PN16
- 17. ALL PROPERTY SERVICE PIPES FOR RECYCLED WATER ARE TO BE COLOURED BLACK WITH LILAC (P23) LONGITUDINAL STRIPE TO AS 2700, WHERE NOMINAL PIPE SIZE IS SPECIFIED, AN EQUIVALENT PIPE SIZE APPROPRIATE TO THE MATERIAL BEING USED TO BE AS SPECIFIED IN AS 3500, TABLE 1.1, PE 100 B, PN16. ALL PROPERY SERVICE PIPES FOR POTABLE WATER ARE TO BE COLOURED BLACK WITH BLUE LONGITUDINAL STRIPE TO A.S.2700.
- 18. MAXIMUM PIPE COVER SHALL BE 1500mm UNLESS SPECIFIED ON THE DESIGN DRAWINGS OR APPROVAL IS OBTAINED FROM THE COORANBONG WATER REPRESENTATIVE.
- 19. ALL MAINS LAID IN TRAFFICABLE CARRIAGEWAYS SHALL BE BACKFILLED WITH 16:1 STABILISED SAND CEMENT TO SUBGRADE LEVEL ONLY.
- 20. THE MINIMUM NUMBER OF COMPACTION TESTS ARE AS FOLLOWS:

TRAFFICABLE

- PIPE EMBEDMENT ZONE: 1 TEST/CROSSING.
- TRENCHFILL ZONE: 1 TEST/CROSSING.

NON-TRAFFICABLE

- PIPE EMBEDMENT ZONE: 1 TEST/100m.
- TRENCHFILL ZONE: 1 TEST/100m.

TESTING IS TO BE IN ACCORDANCE WITH WATER SUPPLY CODE OF AUSTRALIA TABLES 16.1 AND 17.1.

- 21. POTABLE AND RECYCLED WATERMAIN FITTINGS ARE TO BE STAGGERED.
- 22. MAXIMUM JOINT DEFLECTIONS TO BE IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS
- 23. EACH PROPERTY SERVICE CONNECTION IS TO BE FLUSHED AND LOCKED FOLLOWING PRESSURE TESTING.
- 24. SCOUR VALVES TO BE CONNECTED TO LOCAL STORMWATER SYSTEM
- 25. POTABLE WATER IS TO BE UTILISED FOR FIRE FIGHTING PURPOSES
- 26. HYDRANT SURFACE BOXES TO BE YELLOW (POTABLE WATER) AND LILAC (RECYCLED WATER).

PRESSURE SEWER NOTES:

- 1. ALL WORKS SHALL BE IN ACCORDANCE WITH BUT NOT LIMITED TO PRESSURE SEWER CODE OF AUSTRALIA WSA 07-2007, POLYETHYLENE PIPELINE CODE WSA 01-2004 AND FLOW SYSTEMS SUPPLEMENTARY MANUAL TO WSAA.
- 2. WORKS MUST BE CONSTRUCTED IN ACCORDANCE WITH THE DESIGN DRAWINGS AND FLOW SYSTEMS STANDARD DRAWINGS REFERENCED IN FLOW SYSTEMS SUPPLEMENTARY MANUAL TO WSAA (TABLE 4.1) REFER TO https://askus.flowsystems.com.au/hc/en-us/articles/210615353--Standard-Drawings FOR LATEST VERSIONS OF FLOW SYSTEMS STANDARD DRAWINGS.
- 3. PRESSURE SEWER MAINS SHALL BE BLACK POLYETHYLENE (PE100 PN16) WITH A CREAM STRIPE AS PER WSA
- 4. ALL POLYETHYLENE MAINS SHALL BE JOINED USING ELECTROFUSION JOINTING TECHNIQUES IN ACCORDANCE WITH MANUFACTURERS REQUIREMENTS.
- 5. ALL MAINS LAID IN TRAFFICABLE CARRIAGEWAYS SHALL BE BACKFILLED WITH 16:1 STABILISED SAND CEMENT TO
- 6. ALL BENDS SHALL BE ELECTROFUSION SWEEP BENDS (FABRICATED BENDS SHALL NOT BE USED)
- 7. ALL HOUSE SERVICE LATERALS SHALL BE DN40 PE 100 PN16.
- 8. DETECTABLE MARKING TAPE SHALL BE LAID ON TOP OF THE PIPE EMBEDMENT MATERIAL BEFORE BACKFILLING AND CONNECTED TO SURFACE FITTINGS
- 9. ALL SURFACE FITTINGS LOCATED IN TRAFFICABLE AREAS (ROADWAYS, PATHS) SHALL HAVE HEAVY DUTY SURROUNDS INSTALLED.
- 10. ALL PRESSURE SEWER VALVES SHALL BE RESILIENT SEATED SLUICE GATE VALVES (CLOCKWISE CLOSING) AND SHALL BE RESTRAINED IN ACCORDANCE WITH WAT-1207.
- 11. ALL MAINS MUST BE TESTED (AS DIRECTED BY THE COORANBONG WATER REPRESENTATIVE) TO MEET CERTIFYING AUTHORITIES STANDARDS. ALL PRESSURE SEWER MAINS AND JOINTS TO BE TESTED TO 1600kPg.
- 12. FOR LOTS WITH TANKS IN THE REAR.
 - PROVIDE #25 HEAVY DUTY ELECTRICAL CONDUIT (WITH DRAW WIRE) INSTALLED FROM THE COLLECTION TANK TO THE RECYCLED WATER METER.
 - PROVIDE #25 HEAVY DUTY ELECTRICAL CONDUIT (WITH DRAW WIRE) INSTALLED FROM THE COLLECTION TANK TO THE POTABLE WATER METER.

CONDUITS SHALL BE LAID IN COMMON TRENCH WITH PRESSURE SEWER PIPEWORK. (REFER TO TYPICAL CONNECTION DETAIL, DRG-030).

- 12. PRESSURE TRANSMITTER TO BE INSTALLED AT SPECIFIC POINTS SHALL BE MEASUREX MRB21 GENERAL PURPOSE ${\tt TRANSMITTER} \ \ {\tt WITH} \ \ {\tt MICROSPIDER} \ \ {\tt LOGGING} \ \ {\tt TELEMETRY} \ \ {\tt AND} \ \ {\tt ALARM} \ \ {\tt AS} \ \ {\tt PER} \ \ {\tt COORANBONG} \ \ {\tt WATER} \ \ {\tt REQUIREMENTS}.$
- 13. LOCALISED DEEPENING OF THE MAIN MAY BE REQUIRED TO FACILITATE AIR VALVE INSTALLATION. CONTRACTOR IS TO ENSURE THAT AIR VALVE OFFTAKE IS LOCATED AT A HIGH POINT IN THE MAIN. (i.e. THE MAIN SHALL GRADE DOWNWARDS EITHER SIDE OF THE AIR VALVE).
- 14. FOR EMBEDMENT AND TRENCHFILL COMPACTION TEST REQUIREMENTS REFER TO THE PRESSURE SEWER CODE OF AUSTRALIA - SECTION 21.3. (REFER TO NOTE 9, POTABLE WATER AND RECYCLED WATER NOTES).
- 15. ROPE OFF ALL PRESSURE SEWER UNITS AND FLUSHING POINTS TO LIMIT DAMAGE DURING CONSTRUCTION

ADW Johnson Pty Ltd on behalf of Cooranbong Water Date Approved: 30/09/2019

AS CONSTRUCTED

DATE AMENDMENT CHECK DESIGN VERIFY SCALES 15.01.2016 PRELIMINARY ISSUE PRELIMINARY ISSUE

AMENDED ISSUE — SERVICES RELOCATED

AMENDED ISSUE — CLIENT COMMENTS

AMENDED ISSUE — ADJUSTED LIMIT OF WORKS

CONSTRUCTION ISSUE

AMENDED CONSTRUCTION ISSUE

AMENDED CONSTRUCTION ISSUE 5.06.2016 30.09.2019 04.08.2020 24 08 2020 DESIGN FILE N: \

ALL DIMENSIONS ARE IN METRES. DO NOT SCALE JOHNSON

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



PROPERTY DESCRIPTION PROPOSED SUBDIVISION PRECINCT 2, STAGES 2.12 AND 2.13 WATAGAN PARK WHISTLER DRIVE, COORANBONG

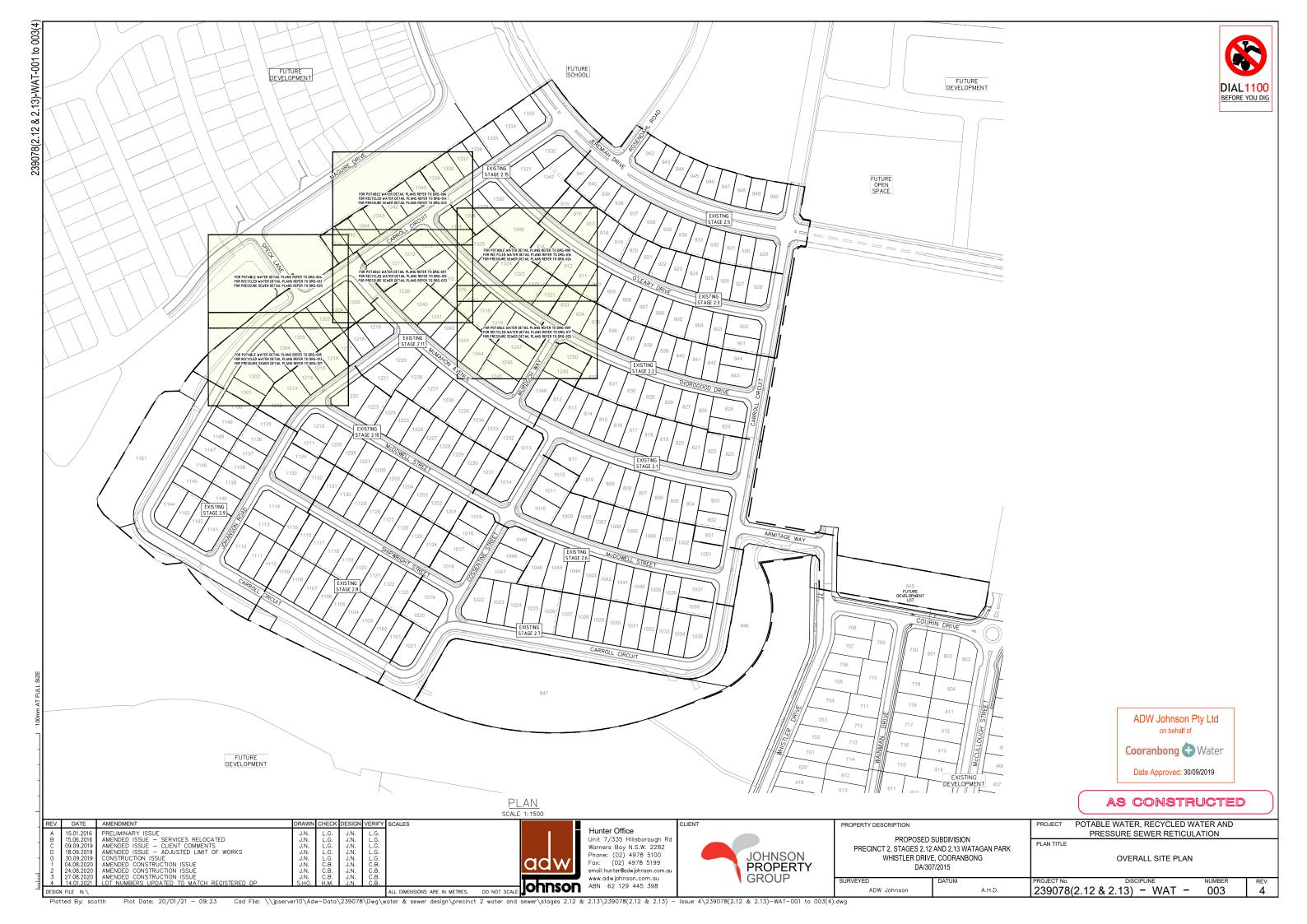
DA/307/2015

POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION PLAN TITLE

239078(2.12 & 2.13) - WAT -

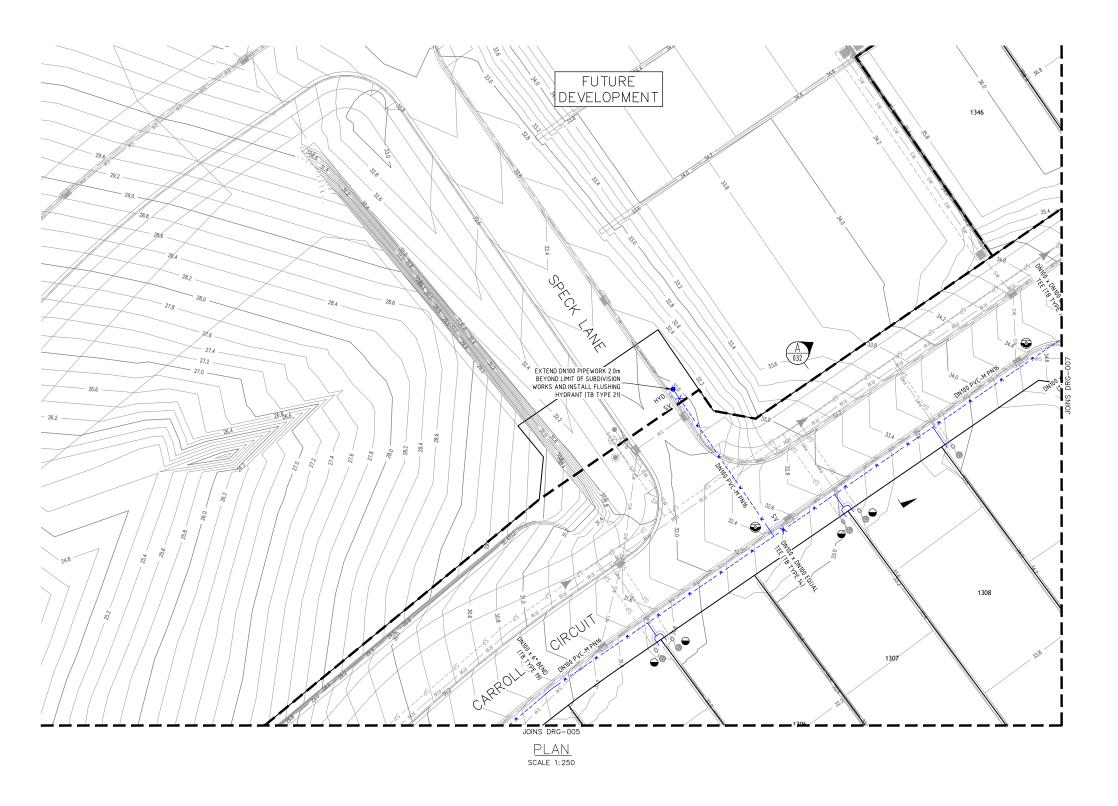
PROJECT

GENERAL NOTES









LEGEND

-- W---- W-- PVC-M POTABLE WATER RETICULATION PWS — POTABLE WATER PROPERTY SERVICE PVC-M RECYCLED WATER RETICULATION ---- SP--- PE PRESSURE SEWER RETICULATION ----- T----- T----- T-- TELSTRA ---- E ---- E ---- E - UNDERGROUND POWER S/W S/W STORMWATER PIPEWORK sv. 📩 STOP VALVE HYD. HYDRANT FL HYD. FLUSHING HYDRANT PROPERTY SERVICE CONNECTION EXISTING PROPERTY SERVICE CONNECTION LAY PRESSURE SEWER MAIN UNDER STORMWATER PIPE (300mm MIN. VERTICAL CLEARANCE) - REFER TO WAT-1255-H LAY PRESSURE SEWER MAIN OVER STORMWATER PIPE (300mm MIN. VERTICAL CLEARANCE) - REFER TO WAT-1255-H LIMIT OF SUBDIVISION WORKS

POTABLE WATER PROPERTY SERVICE CONNECTIONS
TOTAL 31 CONNECTIONS
SINGLE SERVICES IN ACCORDANCE WITH WAT-1106-V
-2 x SHORT SIDE
-1 x LONG SIDE
SPLIT SERVICES IN ACCORDANCE WITH WAT-1107-V
-8 x SHORT SIDE
-6 x LONG SIDE

POTABLE WATER PIPE DATA							
PIPE SIZE (mm)	PIPE MATERIAL	TOTAL LENGTH (m)					
DN100	PVC-M PN16	472					

- NOTES:

 1. FOR RECYCLED WATER PIPEWORK DETAIL PLANS REFER TO DRGS—012 TO 017.

 2. FOR PRESSURE SEWER PIPEWORK DETAIL PLANS REFER TO DRGS—020 TO 026.

 3. FOR TYPICAL SERVICE CONNECTION DETAILS REFER TO DRG—030.

ADW Johnson Pty Ltd on behalf of



Date Approved: 30/09/2019

AS CONSTRUCTED

PROJECT POTABLE WATER, RECYCLED WATER AND REV. DATE AMENDMENT ESIGN VERIFY SCALES PROPERTY DESCRIPTION PRELIMINARY ISSUE

AMENDED ISSUE — SERVICES RELOCATED

AMENDED ISSUE — CLIENT COMMENTS

AMENDED ISSUE — ADJUSTED LIMIT OF WORKS

CONSTRUCTION ISSUE

AMENDED CONSTRUCTION ISSUE

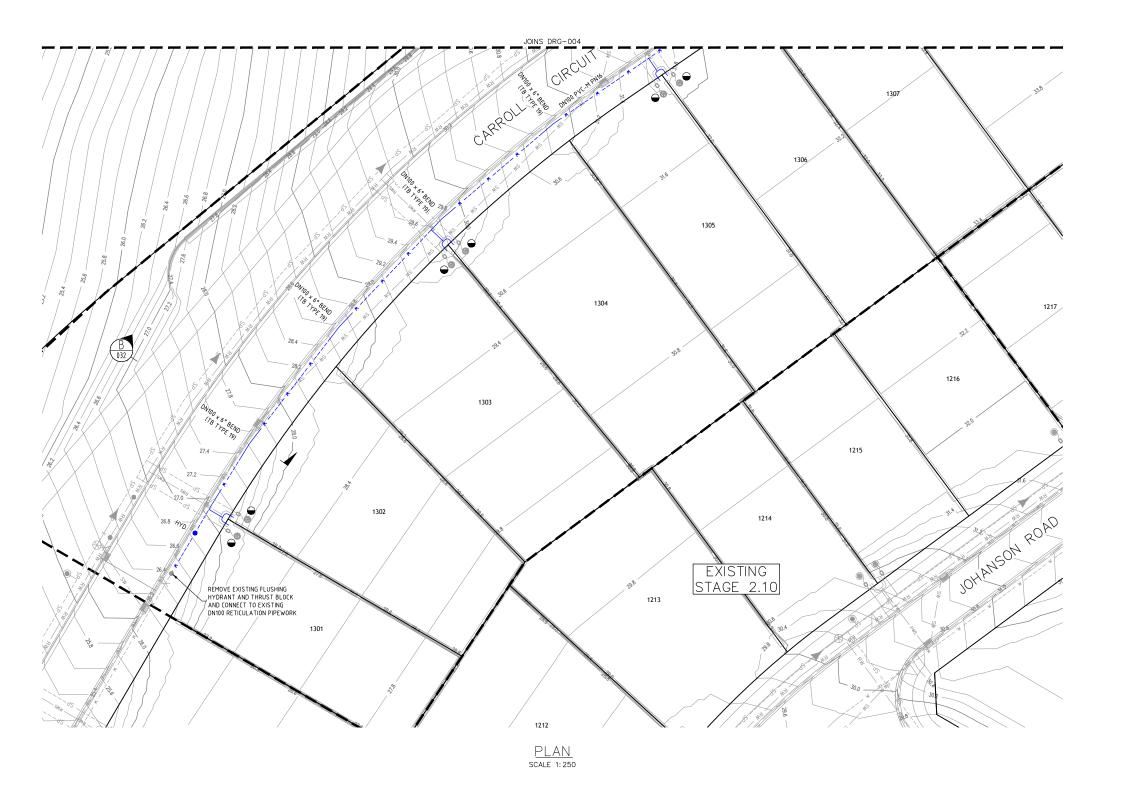
AMENDED CONSTRUCTION ISSUE

AMENDED CONSTRUCTION ISSUE

LOT NUMBERS UPDATED TO MATCH REGISTERED DP **Hunter Office** PRESSURE SEWER RETICULATION PROPOSED SUBDIVISION PRECINCT 2, STAGES 2.12 AND 2.13 WATAGAN PARK WHISTLER DRIVE, COORANBONG Unit 7/335 Hillsborough Rd 09.09.2019 18.09.2019 30.09.2019 04.08.2020 24.08.2020 PLAN TITLE Warners Bay N.S.W. 2282 POTABLE WATER DETAIL PLAN Phone: (02) 4978 5100 Fax: (02) 4978 5199 **JOHNSON** - SHEET 1 **PROPERTY** DA/307/2015 email: hunter@adwjohnson.com.a www.adwjohnson.com.au **GROUP** ALL DIMENSIONS ARE IN METRES. DO NOT SCALE ONS ON METRES. ABN 62 129 445 398 239078(2.12 & 2.13) - WAT -ADW Johnson A.H.D.







LEGEND --- W---- W--- PVC-M POTABLE WATER RETICULATION PWS — POTABLE WATER PROPERTY SERVICE PVC-M RECYCLED WATER RETICULATION RWS ---- RWS --- RECYCLED WATER PROPERTY SERVICE ---- SP---- SP-- PE PRESSURE SEWER RETICULATION ----- T----- T----- TELSTRA ---- E ---- E ---- E - UNDERGROUND POWER ____ S/W ____ S/W ___ STORMWATER PIPEWORK sv. 🗼 STOP VALVE HYD. HYDRANT FL HYD. FLUSHING HYDRANT PROPERTY SERVICE CONNECTION EXISTING PROPERTY SERVICE CONNECTION LAY PRESSURE SEWER MAIN UNDER STORMWATER PIPE (300mm MIN. VERTICAL CLEARANCE) - REFER TO WAT-1255-H

■ LIMIT OF SUBDIVISION WORKS

LAY PRESSURE SEWER MAIN OVER STORMWATER PIPE (300mm MIN. VERTICAL CLEARANCE) - REFER TO WAT-1255-H

POTABLE WATER PROPERTY SERVICE CONNECTIONS

TOTAL 31 CONNECTIONS

SINGLE SERVICES IN ACCORDANCE WITH WAT-1106-V

-2 × SHORT SIDE

-1 × LONG SIDE

SPLIT SERVICES IN ACCORDANCE WITH WAT-1107-V

-8 × SHORT SIDE

-6 × LONG SIDE

POT	POTABLE WATER PIPE DATA								
PIPE SIZE (mm)	PIPE MATERIAL	TOTAL LENGTH (m)							
DN100	PVC-M PN16	472							

- NOTES:
 1. FOR RECYCLED WATER PIPEWORK DETAIL PLANS REFER TO DRGS—012 TO 017.
 2. FOR PRESSURE SEWER PIPEWORK DETAIL PLANS REFER TO DRGS—020 TO 026.
 3. FOR TYPICAL SERVICE CONNECTION DETAILS REFER TO DRG—030.

ADW Johnson Pty Ltd on behalf of Cooranbong Water

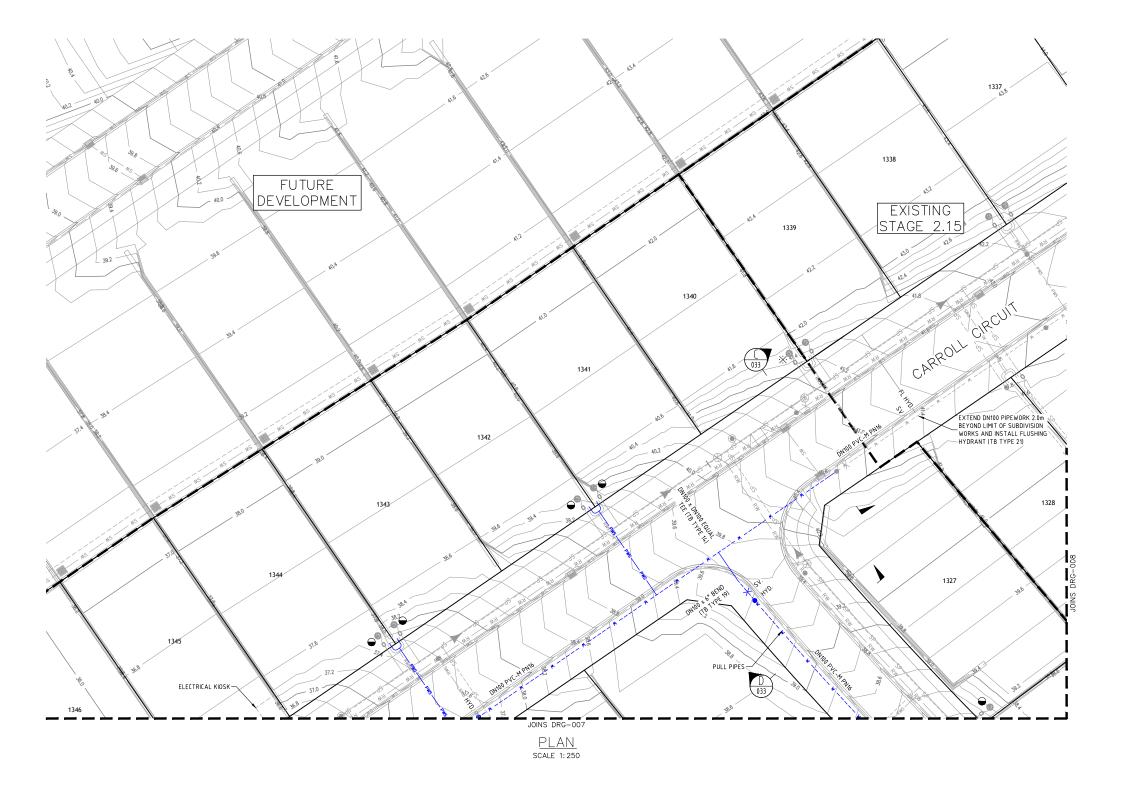
AS CONSTRUCTED

Date Approved: 30/09/2019

RE	V. DATE	AMENDMENT	DRAWN	CHECK DESI	N VERIFY	SCALES			CLIENT	PROPERTY DESCRIPTION		PROJECT POTABLE WA	ATER, RECYCLED WA	TER AND	
4	15.01.2016	PRELIMINARY ISSUE	J.N.	L.G. J.N	L.G.	0 5 10 A1 / A3		Hunter Office		DDODOGED	OLIDDIN/IOION	PRESSU	RE SEWER RETICULA	ATION	
1 5	3 15.06.2016 09.09.2019	AMENDED ISSUE - CLIENT COMMENTS	J.N. J.N.	L.G. J.N	L.G.	1:250 / 1:500		Unit 7/335 Hillsborough Rd Warners Bay N.S.W. 2282		PROPOSED PRECINCT 2, STAGES 2,12		PLAN TITLE			
] [18.09.2019	AMENDED ISSUE — ADJUSTED LIMIT OF WORKS	J.N.	L.G. J.N	L.G.			Phone: (02) 4978 5100	JOHNSON	WHISTLER DRIV		POTAB	SLE WATER DETAIL P	LAN	
]] ;	04.08.2020		J.N.	C.B. J.N	C.B.		aawi	Fax: (02) 4978 5199	PROPERTY	DA/30	-		- SHEET 2		
네 - 3	2 24.08.2020 3 27.08.2020		J.N.	C.B. J.N	C.B. C.B.		51 51 11	email: hunter@adwjohnson.com.au	GROUP	27,000	72010				
1	14.01.2021	LOT NUMBERS UPDATED TO MATCH REGISTERED DP	S.HO.	H.M. J.N	C.B.	ALL DIMENSIONS ARE IN METRES. DO NOT SCALE	Chosor	www.adwjohnson.com.au ARN 62 129 445 398	GROUP	SURVEYED	DATUM	PROJECT No.	DISCIPLINE	NUMBER	REV.
DE	SIGN FILE N:\					ALL DIMENSIONS ARE IN METRES. DO NOT SCALE		1 32 110 000		ADW Johnson	A.H.D.	239078(2.12 & 2.1	3) - WAT -	005	4
	N . I I	Dist Bate 20 (01 (01 00 04 04 Eiler)) :-	10\ 1	L D.L.\ 0700	70\0.\		\	0 0 4 7 \ 0 7 0 0 7 0 (0 4 0 0 0 4 7)	A) 070070/010 0 017) WAT 004 L 011/4	_					







LEGEND --- W---- W-- PVC-M POTABLE WATER RETICULATION PWS — POTABLE WATER PROPERTY SERVICE PVC-M RECYCLED WATER RETICULATION RWS ---- RWS ---- RWS ---- RECYCLED WATER PROPERTY SERVICE ---- SP---- SP-- PE PRESSURE SEWER RETICULATION ----- T----- T----- TELSTRA ---- E ---- E ---- E - UNDERGROUND POWER S/W S/W STORMWATER PIPEWORK sv. 🗼 STOP VALVE HYD. HYDRANT FL HYD. FLUSHING HYDRANT PROPERTY SERVICE CONNECTION EXISTING PROPERTY SERVICE CONNECTION LAY PRESSURE SEWER MAIN UNDER STORMWATER PIPE (300mm MIN. VERTICAL CLEARANCE) - REFER TO WAT-1255-H LAY PRESSURE SEWER MAIN OVER STORMWATER PIPE (300mm MIN. VERTICAL CLEARANCE) - REFER TO WAT-1255-H

■ LIMIT OF SUBDIVISION WORKS

POTABLE WATER PROPERTY SERVICE CONNECTIONS

TOTAL 31 CONNECTIONS

SINGLE SERVICES IN ACCORDANCE WITH WAT-1106-V

-2 × SHORT SIDE

-1 × LONG SIDE

SPLIT SERVICES IN ACCORDANCE WITH WAT-1107-V

-8 × SHORT SIDE

-6 × LONG SIDE

POT	POTABLE WATER PIPE DATA							
PIPE SIZE (mm)	PIPE MATERIAL	TOTAL LENGTH (m)						
DN100	PVC-M PN16	472						

- NOTES:
 1. FOR RECYCLED WATER PIPEWORK DETAIL PLANS REFER TO DRGS—012 TO 017.
 2. FOR PRESSURE SEWER PIPEWORK DETAIL PLANS REFER TO DRGS—020 TO 026.
 3. FOR TYPICAL SERVICE CONNECTION DETAILS REFER TO DRG—030.

ADW Johnson Pty Ltd on behalf of

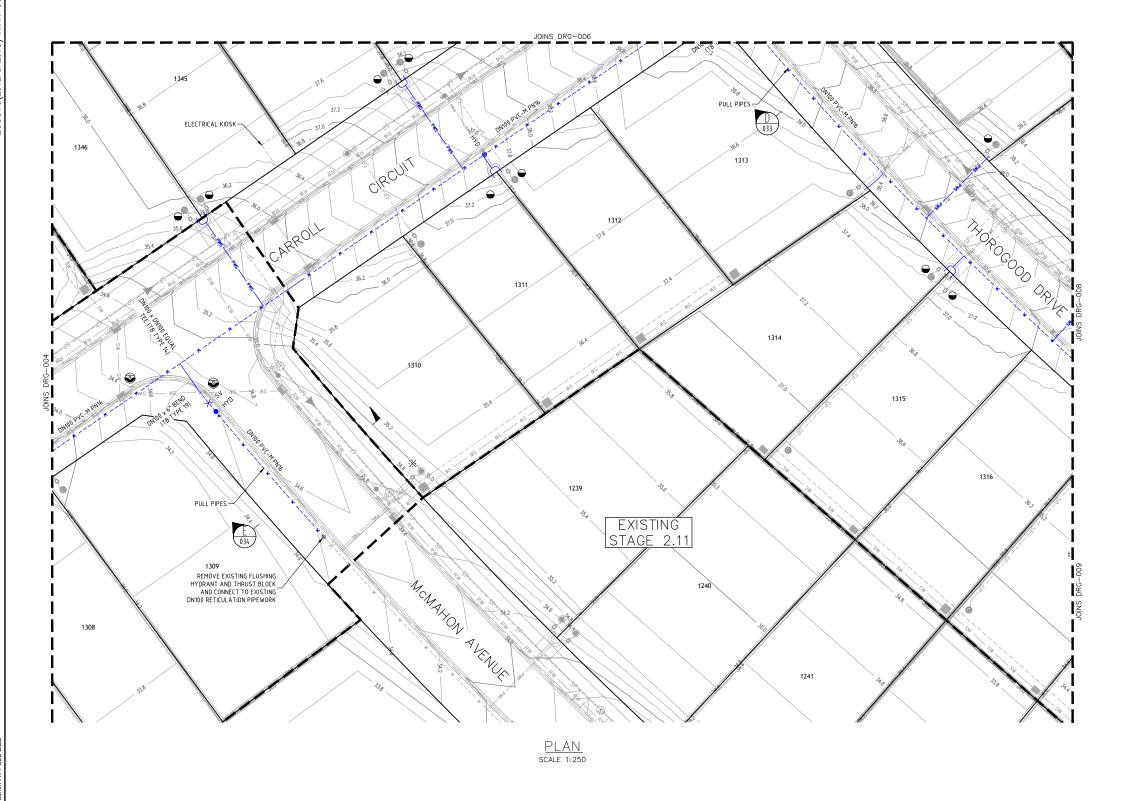


Date Approved: 30/09/2019

REV. DATE AMENDMENT DRAWN CHECK A 15.01.2016 PRELIMINARY ISSUE J.N. L.G. B 15.06.2016 AMENDED ISSUE — SERVICES RELOCATED J.N. L.G.	ERIFY SCALES L.G. 0 5 10 A1 / A3	Hunter Office Unit 7/335 Hillsborough Rd	PROPERTY DESCRIPTION PROPOSED SUBDIVISION	PROJECT POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION
C 09.09.2019 AMENDED ISSUE — CLIENT COMMENTS J.N. L.G. D 18.09.2019 AMENDED ISSUE — ADJUSTED LIMIT OF WORKS J.N. L.G. 0 30.09.2019 CONSTRUCTION ISSUE J.N. L.G. 1 04.08.2020 AMENDED CONSTRUCTION ISSUE J.N. C.B. 2 2 4.08.2020 AMENDED CONSTRUCTION ISSUE J.N. C.B.	L.G. L.G. L.G. C.B. C.B.	Warners Bay N.S.W. 2282 Phone: (02) 4978 5100 Fax: (02) 4978 5199 email: hunter@adwiphnson.com.au	PROPOSED SUBDIVISION PRECINCT 2, STAGES 2.12 AND 2.13 WATAGAN PARK WHISTLER DRIVE, COORANBONG DA/307/2015	PLAN TITLE POTABLE WATER DETAIL PLAN - SHEET 3
3 27.08.2020 AMENDED CONSTRUCTION ISSUE 4 14.01.2021 LOT NUMBERS UPDATED TO MATCH REGISTERED DP DESIGN FILE N:\	C.B. C.B. ALL DIMENSIONS ARE IN METRES. DO NOT SCALE	www.adwjohnson.com.au ABN 62 129 445 398	SURVEYED DATUM ADW Johnson A.H.D.	PROJECT No. DISCIPLINE NUMBER REV. 239078(2.12 & 2.13) — WAT — 006 4







LEGEND --- W---- W--- PVC-M POTABLE WATER RETICULATION PWS — POTABLE WATER PROPERTY SERVICE PVC-M RECYCLED WATER RETICULATION ---- SP---- SP-- PE PRESSURE SEWER RETICULATION ----- T----- T----- TELSTRA ---- E ---- E ---- E - UNDERGROUND POWER —— S/W —— S/W —— STORMWATER PIPEWORK sv. 🗼 STOP VALVE HYD. HYDRANT FL HYD. FLUSHING HYDRANT PROPERTY SERVICE CONNECTION EXISTING PROPERTY SERVICE CONNECTION LAY PRESSURE SEWER MAIN UNDER STORMWATER PIPE (300mm MIN. VERTICAL CLEARANCE) - REFER TO WAT-1255-H LAY PRESSURE SEWER MAIN OVER STORMWATER PIPE (300mm MIN. VERTICAL CLEARANCE) - REFER TO WAT-1255-H

■ LIMIT OF SUBDIVISION WORKS

POTABLE WATER PROPERTY SERVICE CONNECTIONS

TOTAL 31 CONNECTIONS

SINGLE SERVICES IN ACCORDANCE WITH WAT-1106-V

-2 × SHORT SIDE

-1 × LONG SIDE

SPLIT SERVICES IN ACCORDANCE WITH WAT-1107-V

-8 × SHORT SIDE

-6 × LONG SIDE

POT	POTABLE WATER PIPE DATA								
PIPE SIZE (mm)	PIPE MATERIAL	TOTAL LENGTH (m)							
DN100	PVC-M PN16	472							

- NOTES:

 1. FOR RECYCLED WATER PIPEWORK DETAIL PLANS REFER TO DRGS—012 TO 017.

 2. FOR PRESSURE SEWER PIPEWORK DETAIL PLANS REFER TO DRGS—020 TO 026.

 3. FOR TYPICAL SERVICE CONNECTION DETAILS REFER TO DRG—030.

ADW Johnson Pty Ltd on behalf of

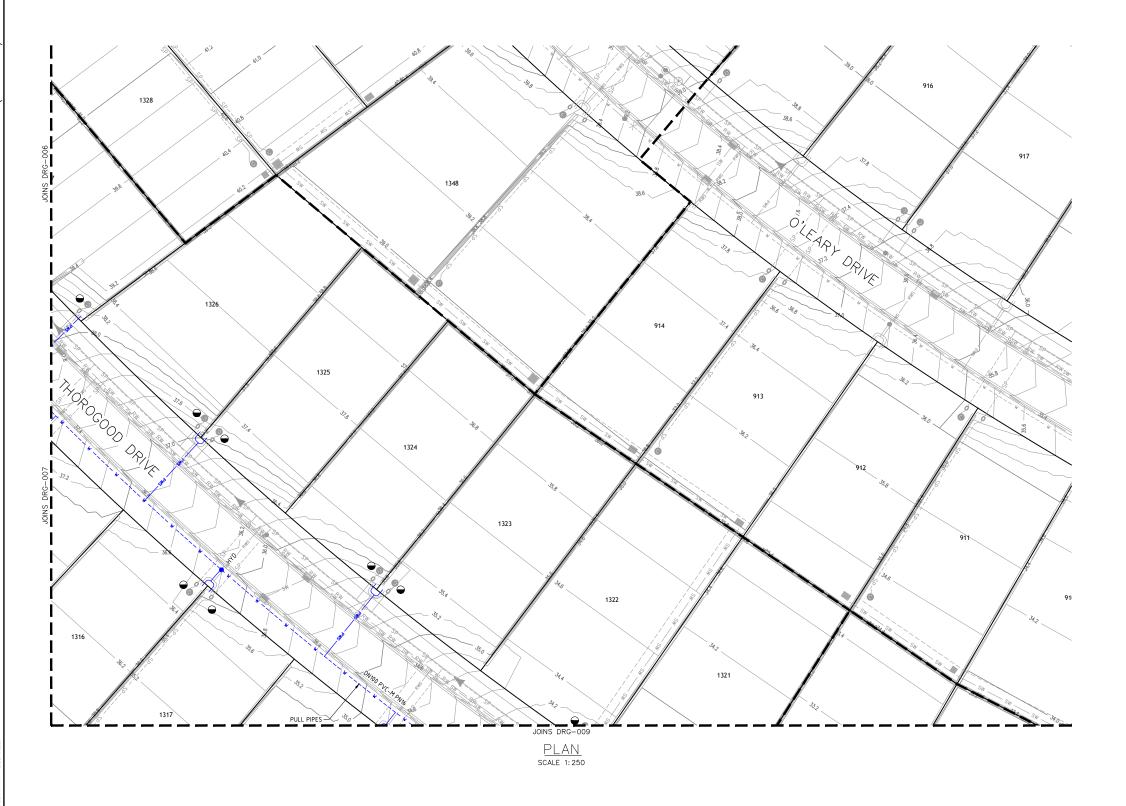


Date Approved: 30/09/2019

A R	15.0	DATE AMENDMENT 5.01.2016 PRELIMINARY ISSUE .06.2016 AMENDED ISSUE — SERVICES RELOCATED	J.N.	L.G.	J.N. L	SCALES		/ A3	ı	Hunter Office Unit 7/335 Hillsborough Rd	CLIENT	PROPERTY DESCRIPTION	SUBDIVISION		TABLE WATER, RECYCLED W PRESSURE SEWER RETICUI		
C D O 1 2 7	09.0 18.0 30.0 04.0 24.0	.09.2019 AMENDED ISSUE — CLIENT COMMENTS .09.2019 AMENDED ISSUE — ADJUSTED LIMIT OF WORKS .09.2019 CONSTRUCTION ISSUE .08.2020 AMENDED CONSTRUCTION ISSUE .08.2020 AMENDED CONSTRUCTION ISSUE	J.N. J.N. J.N. J.N. J.N.	L.G. L.G. L.G. C.B. C.B.	J.N. L J.N. L J.N. L J.N. C J.N. C	3. 3. 3. 3.	1:25	0 / 1:500	dw	Warners Bay N.S.W. 2282 Phone: (02) 4978 5100 Fax: (02) 4978 5199 email:hunter@adwjohnson.com.au	JOHNSON PROPERTY	PRECINCT 2, STAGES 2.12 WHISTLER DRIV	2 AND 2.13 WATAGAN PARK E, COORANBONG 7/2015	PLAN TITLE	POTABLE WATER DETAIL - SHEET 4	PLAN	
DESI	27.0 14.0 GN FILE	.08.2020 AMENDED CONSTRUCTION ISSUE .01.2021 LOT NUMBERS UPDATED TO MATCH REGISTERED DP	S.HO.	H.M.	J.N. C	_	NSIONS ARE IN METRES.	DO NOT SCALE	nnson	www.adwjohnson.com.au ABN 62 129 445 398	GROUP	SURVEYED ADW Johnson	DATUM A.H.D.	PROJECT No. 239078(2.1	12 & 2.13) - WAT -	NUMBER 007	REV.







LEGEND -- W---- W-- PVC-M POTABLE WATER RETICULATION PWS — POTABLE WATER PROPERTY SERVICE PVC-M RECYCLED WATER RETICULATION RWS ---- RWS ---- RWS ---- RECYCLED WATER PROPERTY SERVICE ---- SP---- SP-- PE PRESSURE SEWER RETICULATION ----- T----- T----- TELSTRA ---- E ---- E ---- E - UNDERGROUND POWER —— S/W —— S/W —— STORMWATER PIPEWORK sv. 🗼 STOP VALVE HYD. HYDRANT FL HYD. FLUSHING HYDRANT PROPERTY SERVICE CONNECTION EXISTING PROPERTY SERVICE CONNECTION LAY PRESSURE SEWER MAIN UNDER STORMWATER PIPE (300mm MIN. VERTICAL CLEARANCE) - REFER TO WAT-1255-H LAY PRESSURE SEWER MAIN OVER STORMWATER PIPE (300mm MIN. VERTICAL CLEARANCE) - REFER TO WAT-1255-H

■ LIMIT OF SUBDIVISION WORKS

POTABLE WATER PROPERTY SERVICE CONNECTIONS

TOTAL 31 CONNECTIONS

SINGLE SERVICES IN ACCORDANCE WITH WAT-1106-V

-2 × SHORT SIDE

-1 × LONG SIDE

SPLIT SERVICES IN ACCORDANCE WITH WAT-1107-V

-8 × SHORT SIDE

-6 × LONG SIDE

POT	POTABLE WATER PIPE DATA								
PIPE SIZE (mm)	PIPE MATERIAL	TOTAL LENGTH (m)							
DN100	PVC-M PN16	472							

- NOTES:
 1. FOR RECYCLED WATER PIPEWORK DETAIL PLANS REFER TO DRGS—012 TO 017.
 2. FOR PRESSURE SEWER PIPEWORK DETAIL PLANS REFER TO DRGS—020 TO 026.
 3. FOR TYPICAL SERVICE CONNECTION DETAILS REFER TO DRG—030.

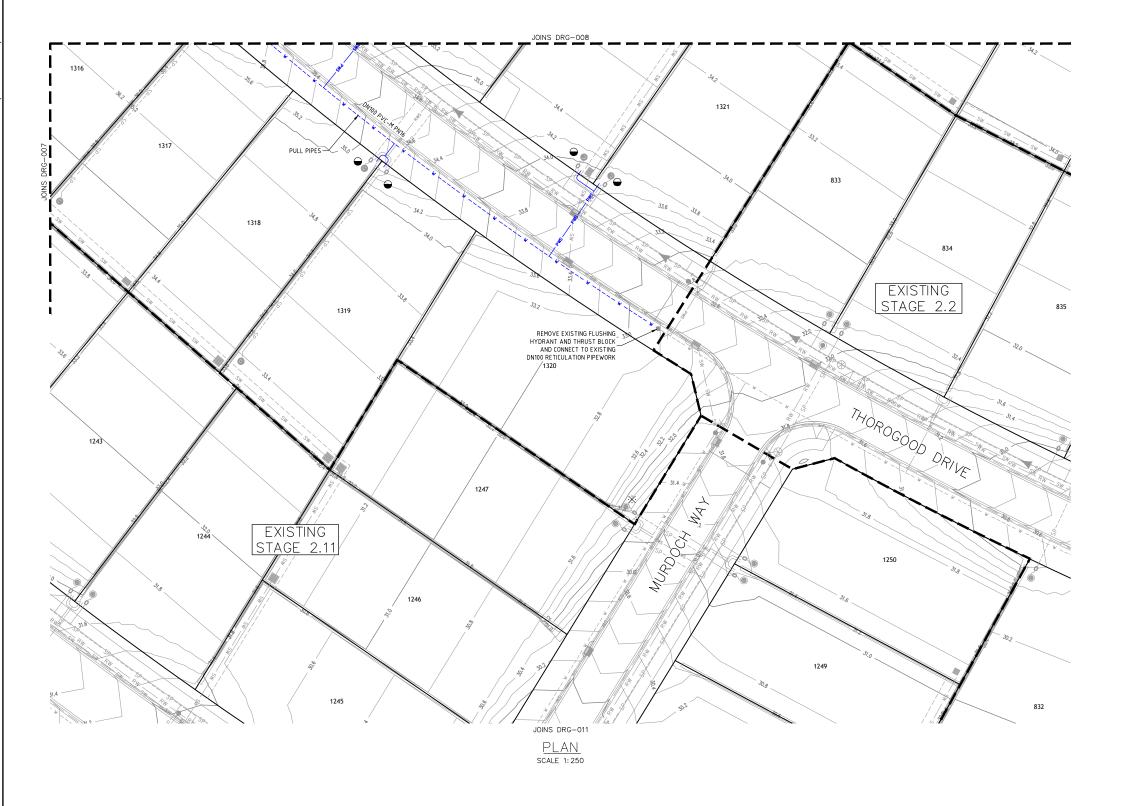
ADW Johnson Pty Ltd on behalf of Cooranbong Water

Date Approved: 30/09/2019

REV. DATE AMENDMENT DRAWN CHECK A 15.01.2016 PRELIMINARY ISSUE J.N. L.G. B 15.06.2016 AMENDED ISSUE — SERVICES RELOCATED J.N. L.G.	GN VERIFY SCALES	Hunter Office Unit 7/335 Hillsborough Rd	PROPERTY DESCRIPTION PROPOSED SUBDIVISION	PROJECT POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION
C 09.09.2019 AMENDED ISSUE — CLIENT COMMENTS J.N. L.G. D 18.09.2019 AMENDED ISSUE — ADJUSTED LIMIT OF WORKS J.N. L.G. 0 30.09.2019 CONSTRUCTION ISSUE J.N. L.G. 1 04.08.2020 AMENDED CONSTRUCTION ISSUE J.N. C.B. 2 24.08.2020 AMENDED CONSTRUCTION ISSUE J.N. C.B.	N. L.G. N. L.G. N. L.G. N. L.G. N. C.B. N. C.B.	Worners Bay N.S.W. 2282 Phone: (02) 4978 5100 Fax: (02) 4978 5199 email:hunter@odwichnson.com.au	PROPOSED SUBDIVISION PRECINCT 2, STAGES 2.12 AND 2.13 WATAGAN PARK WHISTLER DRIVE, COORANBONG DA/307/2015	PLAN TITLE POTABLE WATER DETAIL PLAN - SHEET 5
3 27.08.2020 AMENDED CONSTRUCTION ISSUE 4 14.01.2021 LOT NUMBERS UPDATED TO MATCH REGISTERED DP S.HO. H.M. DESIGN FILE N:\	ALL DIMENSIONS ARE IN METRES. DO NOT SCALE	www.adwjohnson.com.au Johnson ABN 62 129 445 398	SURVEYED DATUM ADW Johnson A.H.D.	PROJECT No. DISCIPLINE NUMBER REV. 239078(2.12 & 2.13) — WAT — 008 4







LEGEND --- W---- W--- PVC-M POTABLE WATER RETICULATION PWS — POTABLE WATER PROPERTY SERVICE PVC-M RECYCLED WATER RETICULATION ---- SP---- SP-- PE PRESSURE SEWER RETICULATION ----- T----- T----- TELSTRA ---- E ---- E ---- E - UNDERGROUND POWER S/W S/W STORMWATER PIPEWORK SV. STOP VALVE HYD. HYDRANT FL HYD. FLUSHING HYDRANT PROPERTY SERVICE CONNECTION EXISTING PROPERTY SERVICE CONNECTION LAY PRESSURE SEWER MAIN UNDER STORMWATER PIPE (300mm MIN. VERTICAL CLEARANCE) - REFER TO WAT-1255-H

POTABLE WATER PROPERTY SERVICE CONNECTIONS

TOTAL 31 CONNECTIONS

SINGLE SERVICES IN ACCORDANCE WITH WAT-1106-V

-2 × SHORT SIDE

-1 × LONG SIDE

SPLIT SERVICES IN ACCORDANCE WITH WAT-1107-V

-8 × SHORT SIDE

-6 × LONG SIDE

LAY PRESSURE SEWER MAIN OVER STORMWATER PIPE (300mm MIN. VERTICAL CLEARANCE) - REFER TO WAT-1255-H

LIMIT OF SUBDIVISION WORKS

POTABLE WATER PIPE DATA								
PIPE SIZE (mm)	PIPE MATERIAL	TOTAL LENGTH (m)						
DN100	PVC-M PN16	472						

- NOTES:

 1. FOR RECYCLED WATER PIPEWORK DETAIL PLANS REFER TO DRSS—012 TO 017.

 2. FOR PRESSURE SEWER PIPEWORK DETAIL PLANS REFER TO DRGS—020 TO 026.

 3. FOR TYPICAL SERVICE CONNECTION DETAILS REFER TO DRG—030.

ADW Johnson Pty Ltd on behalf of Cooranbong Water

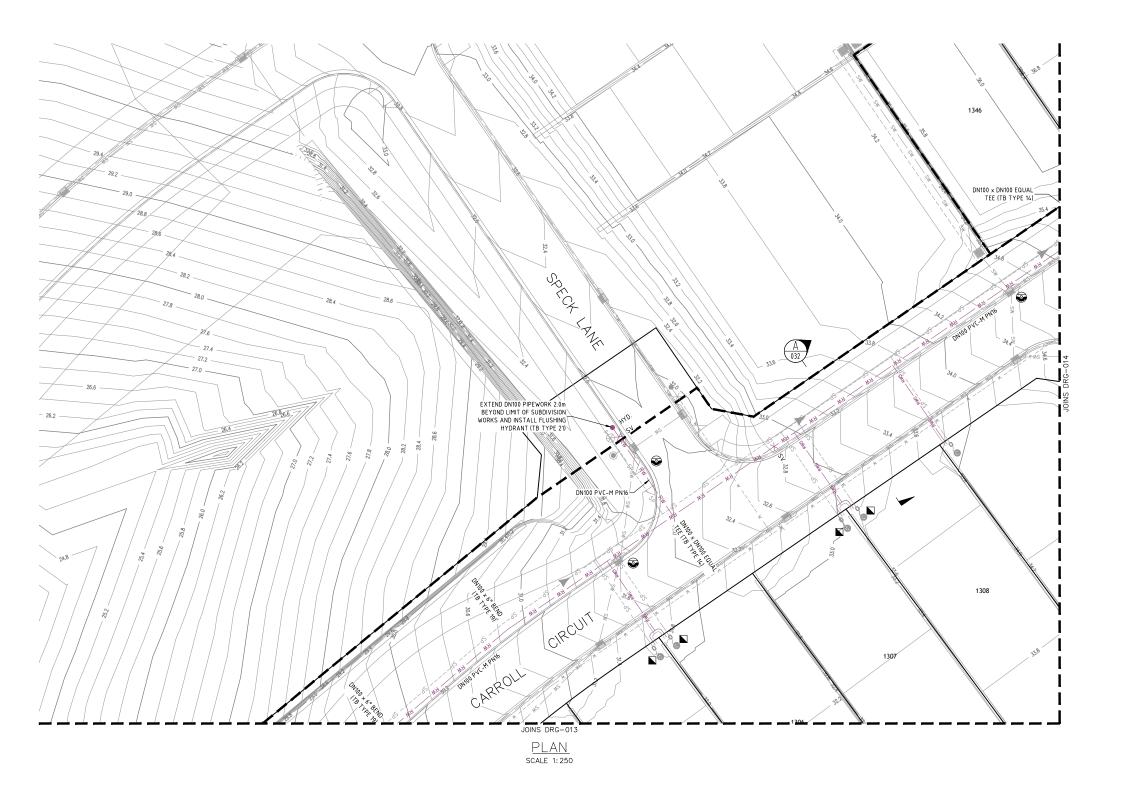
AS CONSTRUCTED

Date Approved: 30/09/2019

RE	/. DATE	AMENDMENT	DRAWN CHECK DESIGN VERIFY	SCALES		CLIENT	PROPERTY DESCRIPTION	PROJECT POTABLE WATER, RECYCLED WATER AND
	15.01.2016	PRELIMINARY ISSUE AMENDED ISSUE — SERVICES RELOCATED	J.N. L.G. J.N. L.G.	0 5 10 A1 / A3	Hunter Office		PROPOSED SUBDIVISION	PRESSURE SEWER RETICULATION
	09.09.2019 18.09.2019	AMENDED ISSUE — CLIENT COMMENTS AMENDED ISSUE — ADJUSTED LIMIT OF WORKS	J.N. L.G. J.N. L.G. J.N. L.G. J.N. L.G. J.N. L.G. J.N. L.G.	1:250 / 1:500	Unit 7/335 Hillsborough Rd Warners Bay N.S.W. 2282 Phone: (02) 4978 5100		PRECINCT 2, STAGES 2.12 AND 2.13 WATAGAN PARK	PLAN TITLE POTABLE WATER DETAIL PLAN
- 9	04.08.2020	CONSTRUCTION ISSUE AMENDED CONSTRUCTION ISSUE	J.N. L.G. J.N. L.G. J.N. C.B. J.N. C.B.		Fax: (02) 4978 5199	JOHNSON PROPERTY	WHISTLER DRIVE, COORANBONG DA/307/2015	- SHEET 6
	24.08.2020 27.08.2020	AMENDED CONSTRUCTION ISSUE AMENDED CONSTRUCTION ISSUE LOT NUMBERS UPDATED TO MATCH REGISTERED DP	J.N. C.B. J.N. C.B. J.N. C.B. J.N. C.B.		email: hunter@adwjohnson.com.au www.adwjohnson.com.au	GROUP	SURVEYED DATUM	PROJECT No. DISCIPLINE NUMBER REV.
∃ DE:	IGN FILE N:\	LOT NOMBLES OF DATED TO MATCH REGISTERED DE	3.110. 11.M. 0.N. 0.D.	ALL DIMENSIONS ARE IN METRES. DO NOT SCALE	JOHNSON ABN 62 129 445 398			239078(2.12 & 2.13) - WAT - 009 4







LEGEND RW ---- PVC-M RECYCLED WATER RETICULATION ----- W---- W--- PVC-M POTABLE WATER RETICULATION POTABLE WATER PROPERTY SERVICE ---- SP---- SP-- PE PRESSURE SEWER RETICULATION ----- T----- T----- TELSTRA ---- E ---- E ---- E - UNDERGROUND POWER ____ S/W ____ S/W ____ STORMWATER PIPEWORK sv. \star STOP VALVE HYD. HYDRANT FL HYD. FLUSHING HYDRANT PROPERTY SERVICE CONNECTION EXISTING PROPERTY SERVICE CONNECTION LAY WATER MAIN UNDER STORMWATER PIPE (300mm MIN. VERTICAL CLEARANCE) – REFER TO WAT-1255-H LAY WATER MAIN OVER STORMWATER PIPE (300mm MIN. VERTICAL CLEARANCE) - REFER TO WAT-1255-H

RECYCLED WATER PROPERTY SERVICE CONNECTIONS
TOTAL 31 CONNECTIONS
SINGLE SERVICES IN ACCORDANCE WITH WAT-1106-V
-1 x SHORT SIDE
-2 x LONG SIDE
SPLIT SERVICES IN ACCORDANCE WITH WAT-1107-V
-6 x SHORT SIDE
-8 x LONG SIDE

RECYCLED WATER PIPE DATA									
PIPE	SIZE	(mm)	PIPE	MATERI	AL	TOTAL	LENGTH	(m)	
	DN100)	P۱	C-M PN16	3		481		

- NOTES:
 1. FOR POTABLE WATER PIPEWORK DETAIL PLANS REFER TO DRGS-004 TO 009.
 2. FOR PRESSURE SEWER PIPEWORK DETAIL PLANS REFER TO DRGS-020 TO 026.
 3. FOR TYPICAL SERVICE CONNECTION DETAILS REFER TO DRG-030.

ADW Johnson Pty Ltd on behalf of

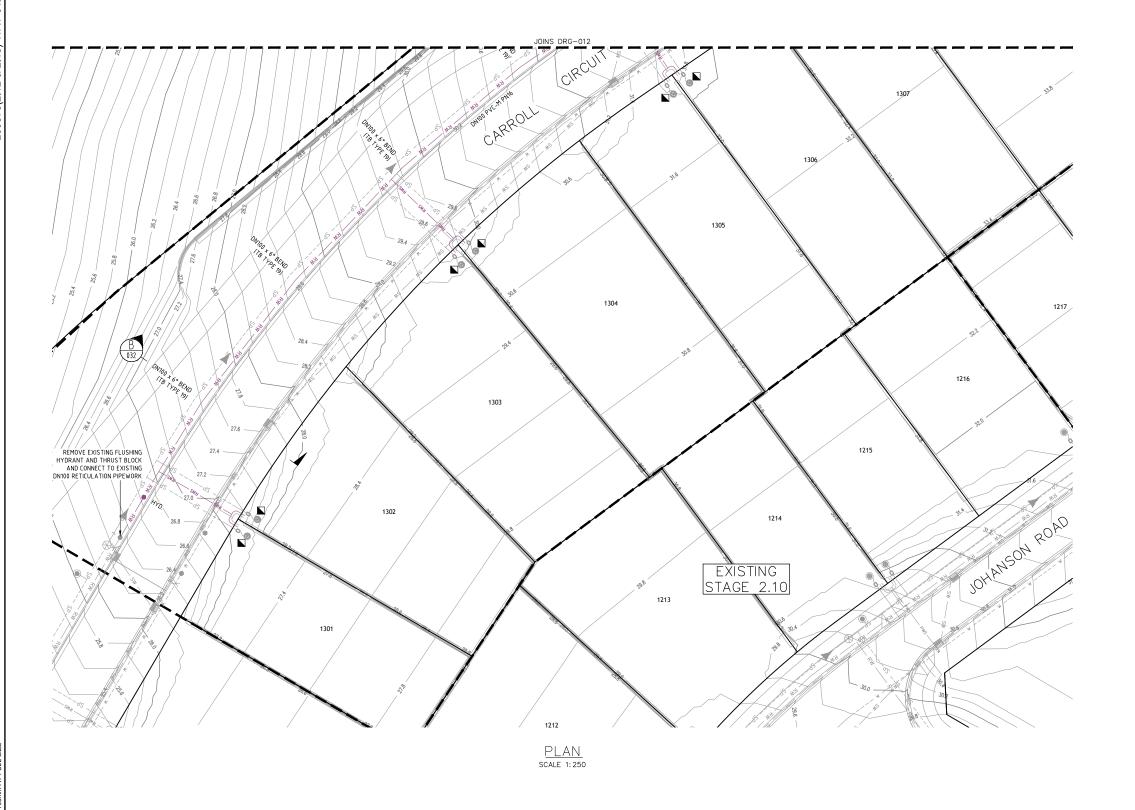


Date Approved: 30/09/2019

- RE	A 15	DATE 5.01.2016	AMENDMENT PRELIMINARY ISSUE AMENDED ISSUE - SERVICES RELOCATED	J.N.	L.G.	J.N.	L.G.	SCALES 0 5		A1 / A3		Hunter Office	CLIENT	PROPERTY DESCRIPTION	NIDDIVICION	PROJECT POTABLE WATER PRESSURE SI			
- B C D D O 1 1 2	09	5.06.2016 9.09.2019 8.09.2019 0.09.2019 4.08.2020 4.08.2020	AMENDED ISSUE — SERVICES RELUCATED AMENDED ISSUE — CLIENT COMMENTS AMENDED ISSUE — ADJUSTED LIMIT OF WORKS CONSTRUCTION ISSUE AMENDED CONSTRUCTION ISSUE AMENDED CONSTRUCTION ISSUE	J.N. J.N. J.N. J.N. J.N.	L.G. L.G. L.G. C.B. C.B.	J.N. J.N. J.N. J.N. J.N.	L.G. L.G. L.G. C.B. C.B.		1:2	250 / 1:500	adw	Unit 7/335 Hillsborough Rd Warners Bay N.S.W. 2282 Phone: (02) 4978 5100 Fax: (02) 4978 5199 email:hunter@adwjohnson.com.au	JOHNSON PROPERTY	PROPOSED S PRECINCT 2, STAGES 2.12 WHISTLER DRIVE DA/307	AND 2.13 WATAGAN PARK , COORANBONG		VATER DETAIL SHEET 1	PLAN	
	3 27 4 14 SIGN FIL		AMENDED CONSTRUCTION ISSUE LOT NUMBERS UPDATED TO MATCH REGISTERED DP	J.N. S.HO.	C.B. H.M.	J.N. J.N.	C.B. C.B.	ALL DIMENSIONS A	RE IN METRES.	DO NOT SCALE	Johnson		GROUP	SURVEYED ADW Johnson	DATUM A.H.D.	PROJECT No. DISCI 239078(2.12 & 2.13)	WAT -	NUMBER 012	REV.







LEGEND - RW ----- PVC-M RECYCLED WATER RETICULATION ---- W---- W--- PVC-M POTABLE WATER RETICULATION PWS --- POTABLE WATER PROPERTY SERVICE ----- SP----- SP--- PE PRESSURE SEWER RETICULATION ----- T----- T----- TELSTRA ---- E ---- E ---- E - UNDERGROUND POWER ____ S/W ____ S/W ____ STORMWATER PIPEWORK sv. 🗼 STOP VALVE HYD. HYDRANT FL HYD. FLUSHING HYDRANT PROPERTY SERVICE CONNECTION EXISTING PROPERTY SERVICE CONNECTION LAY WATER MAIN UNDER STORMWATER PIPE (300mm MIN. VERTICAL CLEARANCE) – REFER TO WAT-1255-H LAY WATER MAIN OVER STORMWATER PIPE (300mm MIN. VERTICAL CLEARANCE) - REFER TO WAT-1255-H

RECYCLED WATER PROPERTY SERVICE CONNECTIONS
TOTAL 31 CONNECTIONS
SINGLE SERVICES IN ACCORDANCE WITH WAT-1106-V
-1 x SHORT SIDE
-2 x LONG SIDE
SPLIT SERVICES IN ACCORDANCE WITH WAT-1107-V
-6 x SHORT SIDE
-8 x LONG SIDE

RECYCLED WATER PIPE DATA

PIPE SIZE (mm) PIPE MATERIAL TOTAL LENGTH (m) DN100 481 PVC-M PN16

- NOTES:
 1. FOR POTABLE WATER PIPEWORK DETAIL PLANS REFER TO DRGS-004 TO 009.
 2. FOR PRESSURE SEWER PIPEWORK DETAIL PLANS REFER TO DRGS-020 TO 026.
 3. FOR TYPICAL SERVICE CONNECTION DETAILS REFER TO DRG-030.

ADW Johnson Pty Ltd on behalf of

Cooranbong 🔂 Water

Date Approved: 30/09/2019

RE	V.	DATE	AMENDMENT	DRAW	N CHECK	DESIGN VERIF	Y SCALES				CLIENT		PROPERTY DESCRIPTION		PROJECT F	OTABLE WATER, RECYCLED WA	ATER AND	
	A 15	5.01.2016 5.06.2016	PRELIMINARY ISSUE AMENDED ISSUE — SERVICES RELOCATED	J.N.	L.G.	J.N. L.G.		A1 / A3		Hunter Office Unit 7/335 Hillsborough Rd			DDUDUSED	SUBDIVISION		PRESSURE SEWER RETICUL	ATION	
1 3	09	.09.2019	AMENDED ISSUE - CLIENT COMMENTS	J.N.	L.G.	J.N. L.G.		:250 / 1:500		Warners Bay N.S.W. 2282				2 AND 2.13 WATAGAN PARK	PLAN TITLE			
- 6	30	0.09.2019	AMENDED ISSUE — ADJUSTED LIMIT OF WORKS CONSTRUCTION ISSUE	J.N. J.N.	L.G.	J.N. L.G. J.N. L.G.				Phone: (02) 4978 5100 Fax: (02) 4978 5199		JOHNSON		/E, COORANBONG		RECYCLED WATER DETAIL	PLAN	
			AMENDED CONSTRUCTION ISSUE AMENDED CONSTRUCTION ISSUE	J.N. J.N.	C.B.	J.N. C.B. J.N. C.B.		ac	I VV I	email: hunter@adwjohnson.com.au		PROPERTY	DA/3	07/2015		- SHEET 2		
3 3			AMENDED CONSTRUCTION ISSUE LOT NUMBERS UPDATED TO MATCH REGISTERED DP	J.N.	C.B.	J.N. C.B.				www.adwjohnson.com.au		GROUP	SURVEYED	DATUM	PROJECT No.	DISCIPLINE	NUMBER	REV.
_∃ DE:	SIGN FIL		EST HOMOLING STRATED TO MINITED TREGISTERED DI	0.110.		0.11.	ALL DIMENSIONS ARE IN METRES.	DO NOT SCALE JON	150 F	ABN 62 129 445 398			ADW Johnson	A.H.D.	239078(2	.12 & 2.13) - WAT -	013	4







LEGEND RW ----- PVC-M RECYCLED WATER RETICULATION RWS --- RWS --- RWS --- RECYCLED WATER PROPERTY SERVICE -- W ---- W --- PVC-M POTABLE WATER RETICULATION POTABLE WATER PROPERTY SERVICE ---- SP---- SP-- PE PRESSURE SEWER RETICULATION --- T----- T----- T-- TELSTRA ---- F---- F---- F- UNDERGROUND POWER — S/W — S/W — STORMWATER PIPEWORK SV. STOP VALVE HYD. HYDRANT FL HYD. FLUSHING HYDRANT PROPERTY SERVICE CONNECTION EXISTING PROPERTY SERVICE CONNECTION LAY WATER MAIN UNDER STORMWATER PIPE (300mm MIN. VERTICAL CLEARANCE) – REFER TO WAT-1255-H LAY WATER MAIN OVER STORMWATER PIPE (300mm MIN. VERTICAL CLEARANCE) - REFER TO WAT-1255-H

RECYCLED WATER PROPERTY SERVICE CONNECTIONS
TOTAL 31 CONNECTIONS
SINGLE SERVICES IN ACCORDANCE WITH WAT-1106-V
-1 x SHORT SIDE
-2 x LONG SIDE
SPLIT SERVICES IN ACCORDANCE WITH WAT-1107-V
-6 x SHORT SIDE
-8 x LONG SIDE

RECY	CLED WATER PIPE	DATA
PIPE SIZE (mm)	PIPE MATERIAL	TOTAL LENGTH (m)
DN100	PVC-M PN16	481

- NOTES:

 1. FOR POTABLE WATER PIPEWORK DETAIL PLANS REFER TO DRGS-004 TO 009.

 2. FOR PRESSURE SEWER PIPEWORK DETAIL PLANS REFER TO DRGS-020 TO 026.

 3. FOR TYPICAL SERVICE CONNECTION DETAILS REFER TO DRG-030.

ADW Johnson Pty Ltd on behalf of



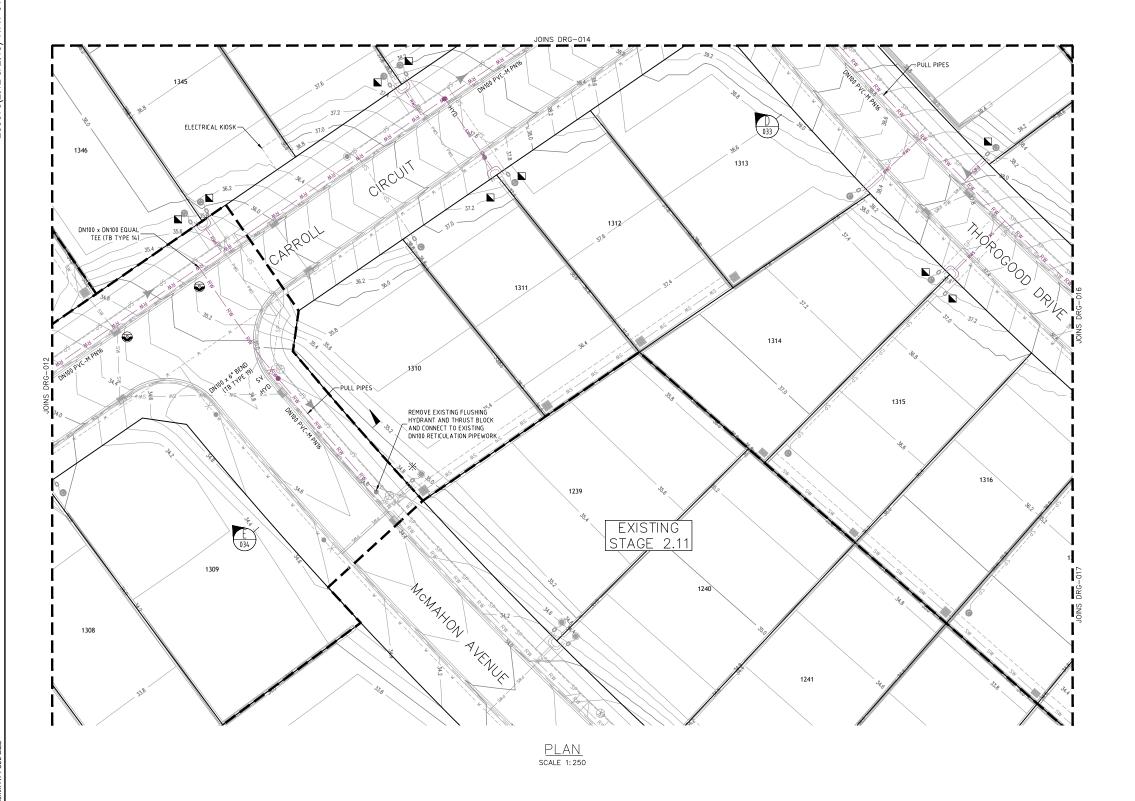
Date Approved: 30/09/2019

AS CONSTRUCTED

POTABLE WATER, RECYCLED WATER AND REV. DATE AMENDMENT PROJECT ESIGN VERIFY SCALES CLIENT PROPERTY DESCRIPTION AMENDED ISSUE — SERVICES RELOCATED
AMENDED ISSUE — SERVICES RELOCATED
AMENDED ISSUE — CLIENT COMMENTS
AMENDED ISSUE — ADJUSTED LIMIT OF WORKS
CONSTRUCTION ISSUE
AMENDED CONSTRUCTION ISSUE Hunter Office PRESSURE SEWER RETICULATION PROPOSED SUBDIVISION PRECINCT 2, STAGES 2.12 AND 2.13 WATAGAN PARK WHISTLER DRIVE, COORANBONG Unit 7/335 Hillsborough Rd PLAN TITLE Warners Bay N.S.W. 2282 18.09.2019 30.09.2019 04.08.2020 24.08.2020 RECYCLED WATER DETAIL PLAN Phone: (02) 4978 5100 Fax: (02) 4978 5199 **JOHNSON** - SHEET 3 **PROPERTY** DA/307/2015 email: hunter@adwjohnson.com.a www.adwjohnson.com.au **GROUP** ALL DIMENSIONS ARE IN METRES. DO NOT SCALE ONS ON METRES. ABN 62 129 445 398 239078(2.12 & 2.13) - WAT -ADW Johnson A.H.D. DESIGN FILE N:\







LEGEND - RW ----- PVC-M RECYCLED WATER RETICULATION ---- W---- W--- PVC-M POTABLE WATER RETICULATION PWS --- POTABLE WATER PROPERTY SERVICE ----- SP----- SP--- PE PRESSURE SEWER RETICULATION ----- T----- T----- T-- TELSTRA ---- E ---- E ---- E - UNDERGROUND POWER ____ S/W ____ S/W ____ STORMWATER PIPEWORK sv. \star STOP VALVE HYD. HYDRANT FL HYD. FLUSHING HYDRANT PROPERTY SERVICE CONNECTION EXISTING PROPERTY SERVICE CONNECTION LAY WATER MAIN UNDER STORMWATER PIPE (300mm MIN. VERTICAL CLEARANCE) – REFER TO WAT-1255-H LAY WATER MAIN OVER STORMWATER PIPE (300mm MIN. VERTICAL CLEARANCE) - REFER TO WAT-1255-H

RECYCLED WATER PROPERTY SERVICE CONNECTIONS
TOTAL 31 CONNECTIONS
SINGLE SERVICES IN ACCORDANCE WITH WAT-1106-V
-1 x SHORT SIDE
-2 x LONG SIDE
SPLIT SERVICES IN ACCORDANCE WITH WAT-1107-V
-6 x SHORT SIDE
-8 x LONG SIDE

RECY	CLED WATER PIPE	DATA
PIPE SIZE (mm)	PIPE MATERIAL	TOTAL LENGTH (m)
DN100	PVC-M PN16	481

- NOTES:
 1. FOR POTABLE WATER PIPEWORK DETAIL PLANS REFER TO DRGS-004 TO 009.
 2. FOR PRESSURE SEWER PIPEWORK DETAIL PLANS REFER TO DRGS-020 TO 026.
 3. FOR TYPICAL SERVICE CONNECTION DETAILS REFER TO DRG-030.

ADW Johnson Pty Ltd on behalf of



Date Approved: 30/09/2019

REV. DATE AMENDMENT DRAW!	L.G. J.N. L.G.	0 5 10 A1 / A3	Hunter Office Unit 7/335 Hillsborough Rd	CLIENT	PROPERTY DESCRIPTION PROPOSED SUBDIVISION	PROJECT POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION
C 09.09.2019 AMENDED ISSUE - CLIENT COMMENTS J.N.	L.G. J.N. L.G. L.G. J.N. L.G. L.G. J.N. L.G. C.B. J.N. C.B. C.B. J.N. C.B.	1:250 / 1:500	Warners Bay N.S.W. 2282 Phone: (02) 4978 5100 Fax: (02) 4978 5199 email: hunter@adwjchnson.com.au	JOHNSON PROPERTY	PRECINCT 2, STAGES 2.12 AND 2.13 WATAGAN PARK WHISTLER DRIVE, COORANBONG DA/307/2015	PLAN TITLE RECYCLED WATER DETAIL PLAN - SHEET 4
3 27.08.2020 AMENDED CONSTRUCTION ISSUE 4 14.01.2021 LOT NUMBERS UPDATED TO MATCH REGISTERED DP S.HO. DESIGN FILE N:\			ohnson ABN 62 129 445 398	GROUP	SURVEYED DATUM ADW Johnson A.H.D.	PROJECT No. DISCIPLINE NUMBER REV. 239078(2.12 & 2.13) — WAT — 015 4







LEGEND RW — PVC-M RECYCLED WATER RETICULATION ---- W---- W-- PVC-M POTABLE WATER RETICULATION PWS — POTABLE WATER PROPERTY SERVICE ---- SP---- SP-- PE PRESSURE SEWER RETICULATION ----- T----- T----- TELSTRA ----- E ----- E ----- E -- UNDERGROUND POWER S/W S/W STORMWATER PIPEWORK SV. STOP VALVE HYD. HYDRANT FL HYD. FLUSHING HYDRANT PROPERTY SERVICE CONNECTION Ж EXISTING PROPERTY SERVICE CONNECTION LAY WATER MAIN UNDER STORMWATER PIPE (300mm MIN. VERTICAL CLEARANCE) – REFER TO WAT-1255-H LAY WATER MAIN OVER STORMWATER PIPE (300mm MIN. VERTICAL CLEARANCE) - REFER TO WAT-1255-H

RECYCLED WATER PROPERTY SERVICE CONNECTIONS
TOTAL 31 CONNECTIONS
SINGLE SERVICES IN ACCORDANCE WITH WAT-1106-V
-1 x SHORT SIDE
-2 x LONG SIDE
SPLIT SERVICES IN ACCORDANCE WITH WAT-1107-V
-6 x SHORT SIDE
-8 x LONG SIDE

		REC'	rcled	WATER	PIPE	DATA	4	
PIPE	SIZE	(mm)	PIPE	MATERI	AL	TOTAL	LENGTH	(m)
	DN100)	PV	C-M PN16	3		481	

- NOTES:
 1. FOR POTABLE WATER PIPEWORK DETAIL PLANS REFER TO DRGS-004 TO 009.
 2. FOR PRESSURE SEWER PIPEWORK DETAIL PLANS REFER TO DRGS-020 TO 026.
 3. FOR TYPICAL SERVICE CONNECTION DETAILS REFER TO DRG-030.

ADW Johnson Pty Ltd on behalf of

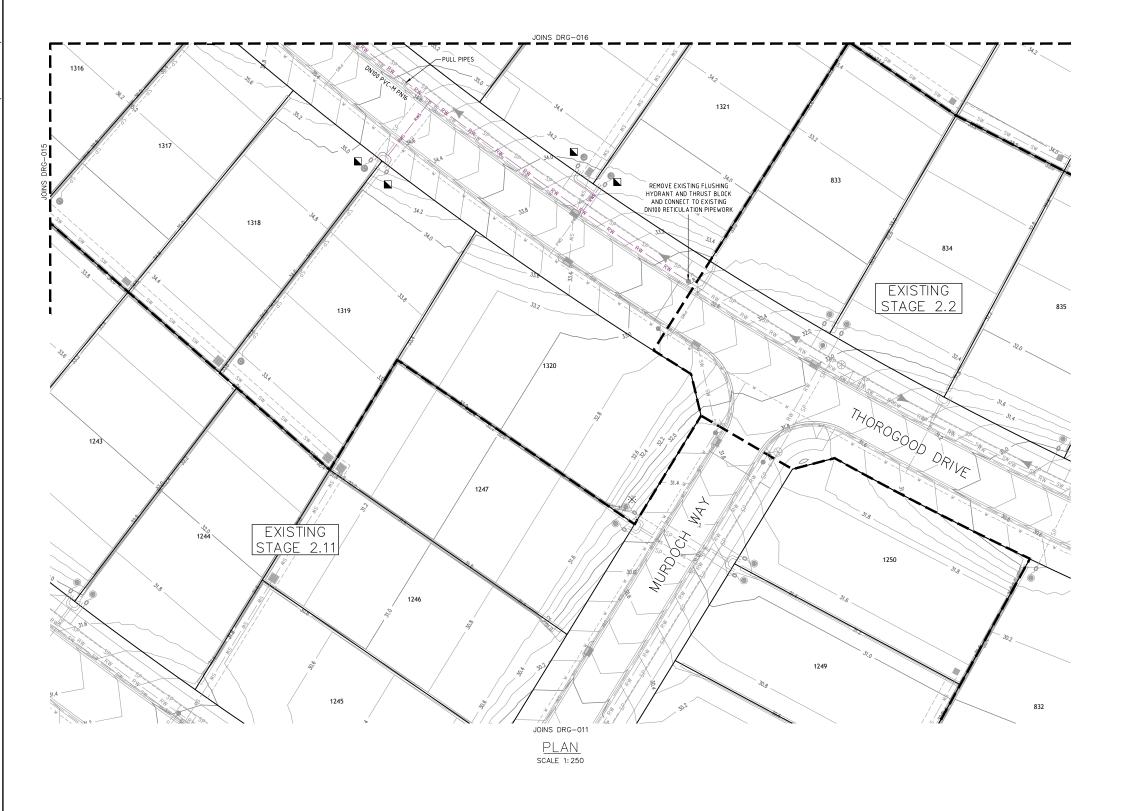


Date Approved: 30/09/2019

REV. DATE AMENDMENT DRAWN CHECK DESIGN VERIFY A 15.01.2016 PRELIMINARY ISSUE J.N. L.G. J.N.	SCALES 0 5 10 A1 / A3 1.250/1.1500 Hunter Office Unit 7/335 Hillsborough Rd		PROPERTY DESCRIPTION PROPOSED SUBDIVISION	PROJECT POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION
C 09.09.2019 AMENDED ISSUE - CLIENT COMMENTS J.N. L.G. J.N. L.G. D 18.09.2019 AMENDED ISSUE - ADJUSTED LIMIT OF WORKS J.N. L.G. J.	Warners Bay N.S.W. 2282 Phone: (02) 4978 5100 Fax: (02) 4978 5199 email:hunter@adwjohnson.com.au	JOHNSON PROPERTY	PRECINCT 2, STAGES 2.12 AND 2.13 WATAGAN PARK WHISTLER DRIVE, COORANBONG DA/307/2015	PLAN TITLE RECYCLED WATER DETAIL PLAN - SHEET 5
4 14.01.2021 LOT NUMBERS UPDATED TO MATCH REGISTERED DP S.HO. H.M. J.N. C.B.	ALL DIMENSIONS ARE IN METRES. DO NOT SCALE	GROUP	SURVEYED DATUM ADW Johnson A.H.D.	PROJECT No. DISCIPLINE NUMBER REV. 239078(2.12 & 2.13) - WAT - 016 4







LEGEND PVC-M RECYCLED WATER RETICULATION --- W---- W--- PVC-M POTABLE WATER RETICULATION PWS --- POTABLE WATER PROPERTY SERVICE ----- SP----- SP--- PE PRESSURE SEWER RETICULATION ----- T----- T----- T--- TELSTRA ----- E ----- E ----- E -- UNDERGROUND POWER S/W S/W STORMWATER PIPEWORK sv. \star STOP VALVE HYD. HYDRANT FL HYD. FLUSHING HYDRANT PROPERTY SERVICE CONNECTION Х EXISTING PROPERTY SERVICE CONNECTION LAY WATER MAIN UNDER STORMWATER PIPE (300mm MIN. VERTICAL CLEARANCE) – REFER TO WAT-1255-H LAY WATER MAIN OVER STORMWATER PIPE (300mm MIN. VERTICAL CLEARANCE) - REFER TO WAT-1255-H

RECYCLED WATER PROPERTY SERVICE CONNECTIONS
TOTAL 31 CONNECTIONS
SINGLE SERVICES IN ACCORDANCE WITH WAT-1106-V
-1 x SHORT SIDE
-2 x LONG SIDE
SPLIT SERVICES IN ACCORDANCE WITH WAT-1107-V
-6 x SHORT SIDE
-8 x LONG SIDE

RECY	CLED WATER PIPE	DATA
PIPE SIZE (mm)	PIPE MATERIAL	TOTAL LENGTH (m)
DN100	PVC-M PN16	481

- NOTES:

 1. FOR POTABLE WATER PIPEWORK DETAIL PLANS REFER TO DRGS-004 TO 009.

 2. FOR PRESSURE SEWER PIPEWORK DETAIL PLANS REFER TO DRGS-020 TO 026.

 3. FOR TYPICAL SERVICE CONNECTION DETAILS REFER TO DRG-030.

ADW Johnson Pty Ltd on behalf of

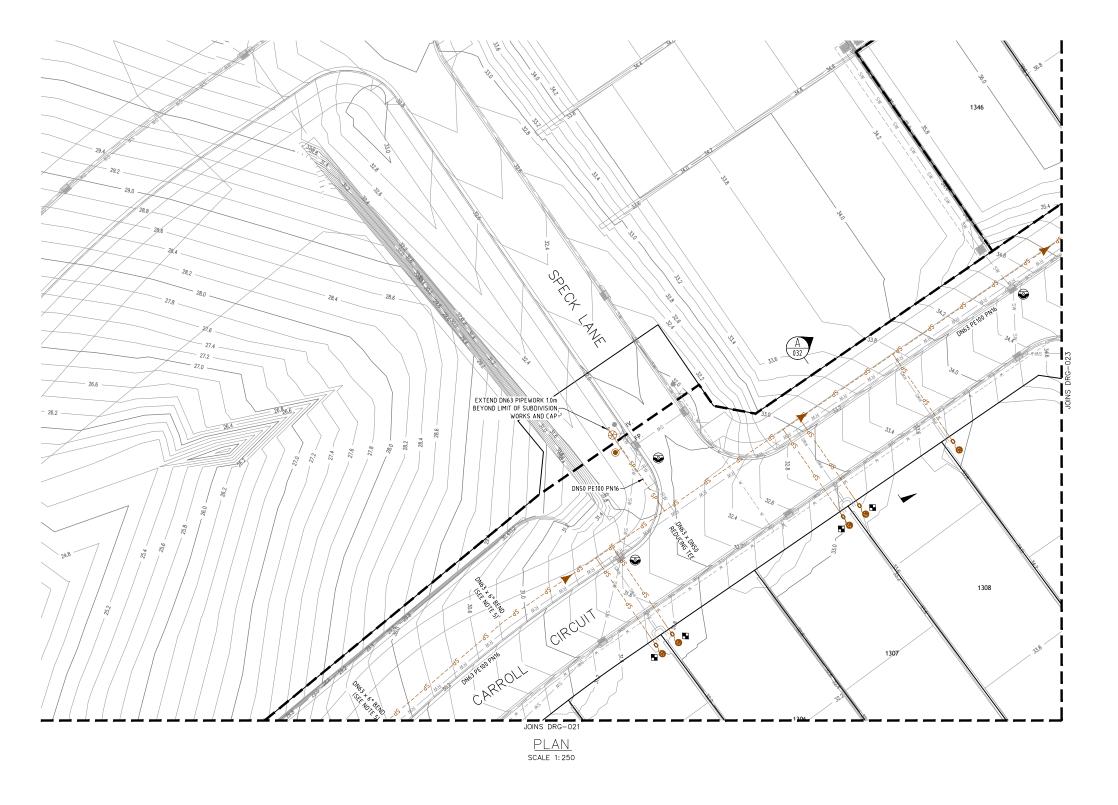


Date Approved: 30/09/2019

RE	EV.	DATE	AMENDMENT	DRAW	CHECK	DESIGN VERIF	Y SCALES				CLIENT		PROPERTY DESCRIPTION		PROJECT PO	ABLE WATER, RECYCLED WA	ATER AND	
	A 15	5.01.2016 5.06.2016	PRELIMINARY ISSUE AMENDED ISSUE — SERVICES RELOCATED	J.N.	L.G.	J.N. L.G.		A1 / A3		Hunter Office Unit 7/335 Hillsborough Rd			PPOPOSED	SUBDIVISION		PRESSURE SEWER RETICULA	ATION	
1 3	C 09	9.09.2019	AMENDED ISSUE - CLIENT COMMENTS	J.N.	L.G.	J.N. L.G.		1:250 / 1:500		Warners Bay N.S.W. 2282				2 AND 2.13 WATAGAN PARK	PLAN TITLE			
- 6	0 30	0.09.2019	AMENDED ISSUE — ADJUSTED LIMIT OF WORKS CONSTRUCTION ISSUE	J.N. J.N.	L.G.	J.N. L.G.		\sim		Phone: (02) 4978 5100		JOHNSON		/E, COORANBONG		RECYCLED WATER DETAIL F	PLAN	
			AMENDED CONSTRUCTION ISSUE AMENDED CONSTRUCTION ISSUE	J.N.	C.B.	J.N. C.B. J.N. C.B.		Q	JW	Fax: (02) 4978 5199 email:hunter@adwjohnson.com.au		PROPERTY	DA/30	07/2015		- SHEET 6		
3	3 27	7.08.2020	AMENDED CONSTRUCTION ISSUE LOT NUMBERS UPDATED TO MATCH REGISTERED DP	J.N.	C.B.	J.N. C.B.		T-1		www.adwjohnson.com.au		GROUP	SURVEYED	DATUM	PROJECT No.	DISCIPLINE	NUMBER	REV.
JE:	SIGN FIL		EOT NOMBERS OF BATED TO MATCH RESISTENCE DE		11.101.	0.IN. C.D.	ALL DIMENSIONS ARE IN METRES.	DO NOT SCALE	nnson	ABN 62 129 445 398			ADW Johnson	A.H.D.	239078(2.1	2 & 2.13) - WAT -	017	4







<u>LEGEND</u> -- SP-- PE PRESSURE SEWER RETICULATION W---- W-- PVC-M POTABLE WATER RETICULATION POTABLE WATER PROPERTY SERVICE PVC-M RECYCLED WATER RETICULATION RECYCLED WATER PROPERTY SERVICE TELSTRA ---- E ---- E ---- E -- UNDERGROUND POWER STORMWATER PIPEWORK IV. 🔷 ISOLATION VALVE FLUSHING POINT WASTEWATER COLLECTION TANK AND BOUNDARY KIT PRESSURE SEWER FLOW DIRECTION (SEE NOTE 7) PROPERTY SERVICE CONNECTION EXISTING PROPERTY SERVICE CONNECTION LAY PRESSURE SEWER MAIN UNDER STORMWATER PIPE (300mm MIN. VERTICAL CLEARANCE) - REFER TO WAT-1255-H

PRESSURE SEWER PROPERTY SERVICE CONNECTIONS

TOTAL 31 CONNECTIONS

● SINGLE SERVICES

−13 x SHORT SIDE

−18 x LONG SIDE

LIMIT OF SUBDIVISION WORKS

PRES	PRESSURE SEWER PIPE DATA											
PIPE SIZE (mm)	PIPE MATERIAL	TOTAL LENGTH (m)										
DN75	PE100 PN16	64										
DN63	PE100 PN16	389										
DN50	PE100 PN16	13										

- NOTES:

 1. FOR POTABLE WATER PIPEWORK DETAIL PLANS REFER TO DRGS—004 TO 009.

 2. FOR RECYCLED WATER PIPEWORK DETAIL PLANS REFER TO DRGS—012 AND 017.

 3. FOR TYPICAL SERVICE CONNECTION DETAILS REFER TO DRG—030.

 4. FOR FLUSHING POINT TYPICAL DETAILS REFER TO STANDARD DRAWING PSS—1017—FS.

 5. CONTRACTOR MAY BEND POLYETHYLENE PIPEWORK IN PLACE OF USING STANDARD FITTINGS WITH A MIN. BENDING RADIUS OF 20 x PIPE DIAM.

 6. ALL BENDS SHALL BE ELECTROFUSION SWEEP BENDS (FABRICATED BENDS SHALL NOT BE USED).

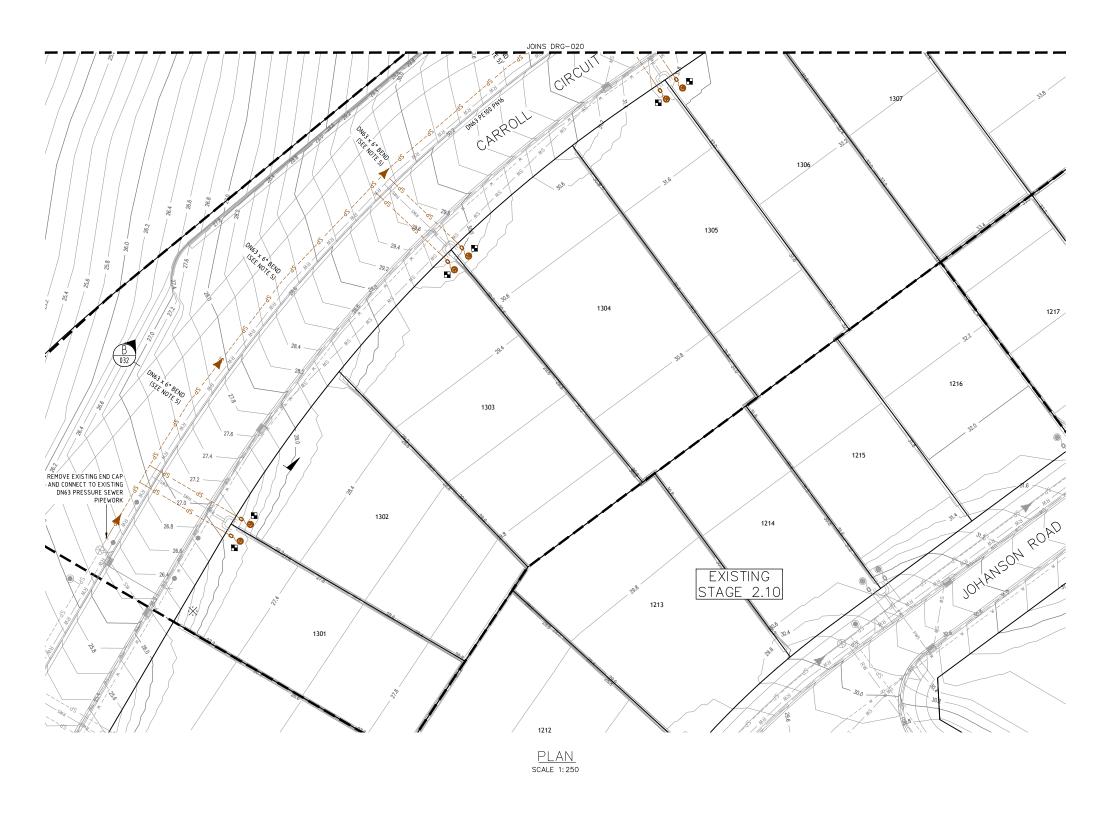
 7. DIRECTION OF FLOW OF PRESSURE SEWER SHOWN ALONG MAGUIRE DRIVE AND SPECK LANE IS TEMPORARY. FLOW ALONG THESE ROADS WILL BE REDIRECTED THROUGH THE FUTURE DEVELOPMENT AFTER CONSTRUCTION OF THE FUTURE DEVELOPMENT HAS BEEN COMPLETED.

ADW Johnson Pty Ltd on behalf of Cooranbong Water Date Approved: 30/09/2019

RE	V. DATE	AMENDMENT	DRAW	N CHECK	DESIGN	VERIFY S	CALES				CLIENT		PROPERTY DESCRIPTION		PROJECT PO	TABLE WATER, RECYCLED WATER	ATER AND	
- II :	15.01.2016	PRELIMINARY ISSUE	J.N.	L.G.	J.N.	L.G.	0 5	10 A1 / A3		Hunter Office			PROPOSED	OLIDDIN/IOION		PRESSURE SEWER RETICUL	ATION	
{I - ;	3 15.06.2016 09.09.2019	AMENDED ISSUE - SERVICES RELOCATED AMENDED ISSUE - CLIENT COMMENTS	J.N. J.N.	L.G. L.G.	J.N. J.N.	L.G.		1:250 / 1:500		Unit 7/335 Hillsborough Rd Warners Bay N.S.W. 2282				SUBDIVISION ! AND 2.13 WATAGAN PARK	PLAN TITLE			
	18.09.2019	AMENDED ISSUE — ADJUSTED LIMIT OF WORKS	J.N.	L.G.	J.N.	L.G.				Phone: (02) 4978 5100		JOHNSON		E, COORANBONG		PRESSURE SEWER DETAIL	PLAN	
- 11 '	1 04.08.2020		J.N.	C.B.	J.N.	C.B.			aawi	Fax: (02) 4978 5199		PROPERTY		17/2015		- SHEET 1		
- -	2 24.08.2020 3 27.08.2020		J.N.	C.B.	J.N.	C.B.			GGT	email: hunter@adwjohnson.com.au		CDOLID	DAG	77/2013				
- 1L	14.01.2021	LOT NUMBERS UPDATED TO MATCH REGISTERED DP	J.N. S.HO	. Н.М.	J.N.	C.B.			- Johnson	www.adwjohnson.com.au ABN 62 129 445 398	1	GROUP	SURVEYED	DATUM	PROJECT No.	DISCIPLINE	NUMBER	REV.
DE	SIGN FILE N: \					А	LL DIMENSIONS ARE IN	METRES. DO NOT SC	ALE JOHNSON	ABN 02 123 443 330			ADW Johnson	A.H.D.	239078(2.1	12 & 2.13) - WAT -	020	4
_	N. II. I D	PLA DATA 00 (01 (01 00 71 0 4 File))	10\ 4	J. D.J.	07007	1. 1. 016		\		0. 0.17\ 0.700.70(0.10.0.0.17\		0. 0.17\ WAT 000 L. 007/4	V 4					







<u>LEGEND</u> -- SP- PE PRESSURE SEWER RETICULATION - W---- W-- PVC-M POTABLE WATER RETICULATION POTABLE WATER PROPERTY SERVICE PVC-M RECYCLED WATER RETICULATION RWS ---- RWS ---- RWS ---- RECYCLED WATER PROPERTY SERVICE ---- T----- TELSTRA ---- E ---- E ---- E -- UNDERGROUND POWER — S/W ——— S/W ——— STORMWATER PIPEWORK IV. 🔷 ISOLATION VALVE FLUSHING POINT WASTEWATER COLLECTION TANK AND BOUNDARY KIT PRESSURE SEWER FLOW DIRECTION (SEE NOTE 7) PROPERTY SERVICE CONNECTION EXISTING 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 31 CONNECTIONS

● SINGLE SERVICES

−13 x SHORT SIDE

−18 x LONG SIDE

PRES	SSURE SEWER PIPE	DATA
PIPE SIZE (mm)	PIPE MATERIAL	TOTAL LENGTH (m)
DN75	PE100 PN16	64
DN63	PE100 PN16	389
DN50	PE100 PN16	13

NOTES:

1. FOR POTABLE WATER PIPEWORK DETAIL PLANS REFER TO DRGS—004 TO 009.

2. FOR RECYCLED WATER PIPEWORK DETAIL PLANS REFER TO DRGS—012 AND 017.

3. FOR TYPICAL SERVICE CONNECTION DETAILS REFER TO DRG—030.

4. FOR FLUSHING POINT TYPICAL DETAILS REFER TO STANDARD DRAWING PSS—1017—FS.

5. CONTRACTOR MAY BEND POLYETHYLENE PIPEWORK IN PLACE OF USING STANDARD FITTINGS WITH A MIN. BENDING RADIUS OF 20 x PIPE DIAM.

6. ALL BENDS SHALL BE ELECTROFUSION SWEEP BENDS (FABRICATED BENDS SHALL NOT BE USED).

7. DIRECTION OF FLOW OF PRESSURE SEWER SHOWN ALONG MAGUIRE DRIVE AND SPECK LANE IS TEMPORARY. FLOW ALONG THESE ROADS WILL BE REDIRECTED THROUGH THE FUTURE DEVELOPMENT AFTER CONSTRUCTION OF THE FUTURE DEVELOPMENT HAS BEEN COMPLETED.

ADW Johnson Pty Ltd on behalf of Cooranbong Water Date Approved: 30/09/2019

_ RE	A 15.01.20 3 15.06.20	16 PRELIMINARY ISSUE	DRAWN CHECK DESIGN VERIF J.N. L.G. J.N. L.G. J.N. L.G. J.N. L.G.	0 5 10 A1 / A3		Hunter Office Unit 7/335 Hillsborough Rd	CLIENT	PROPERTY DESCRIPTION PROPOSED	SUBDIVISION	PROJECT POTABLE WATER, RECYCLED V PRESSURE SEWER RETICU		
- (09.09.20 18.09.20 30.09.20 0 04.08.20 2 24.08.20 2 27.08.20	19 AMENDED ISSUE — CLIENT COMMENTS 19 AMENDED ISSUE — ADJUSTED LIMIT OF WORKS 19 CONSTRUCTION ISSUE 20 AMENDED CONSTRUCTION ISSUE 21 AMENDED CONSTRUCTION ISSUE	J.N. L.G. J.N. L.G. J.N. L.G. J.N. L.G. J.N. L.G. J.N. L.G. J.N. C.B. J.N. C.B. J.N. C.B. J.N. C.B.	1:250 / 1:500	adw	Warners Bay N.S.W. 2282 Phone: (02) 4978 5100 Fax: (02) 4978 5199 email:hunter@adwjohnson.com.au	JOHNSON PROPERTY	PRECINCT 2, STAGES 2.12 WHISTLER DRIVI DA/30	AND 2.13 WATAGAN PARK E, COORANBONG	PRESSURE SEWER DETAIL - SHEET 2	L PLAN	
DE DE	27.08.20 4 14.01.20 SIGN FILE N:\	AMENDED CONSTRUCTION ISSUE LOT NUMBERS UPDATED TO MATCH REGISTERED DP	ON ISSUE J.N. C.B. J.N. C.B. C.B. C.B. C.B. C.B. C.B. C.B. C		Johnson	www.adwjohnson.com.au ABN 62 129 445 398	GROUP	SURVEYED ADW Johnson	DATUM A.H.D.	PROJECT No. DISCIPLINE 239078(2.12 & 2.13) - WAT -	NUMBER 021	REV.







<u>LEGEND</u> --- SP- PE PRESSURE SEWER RETICULATION - W---- W-- PVC-M POTABLE WATER RETICULATION POTABLE WATER PROPERTY SERVICE PVC-M RECYCLED WATER RETICULATION RECYCLED WATER PROPERTY SERVICE TELSTRA ---- E ---- E ---- E -- UNDERGROUND POWER — S/W ——— S/W ——— STORMWATER PIPEWORK IV. 🔷 ISOLATION VALVE FP. FLUSHING POINT WASTEWATER COLLECTION TANK AND BOUNDARY KIT PRESSURE SEWER FLOW DIRECTION (SEE NOTE 7) PROPERTY SERVICE CONNECTION EXISTING PROPERTY SERVICE CONNECTION LAY PRESSURE SEWER MAIN UNDER STORMWATER PIPE (300mm MIN. VERTICAL CLEARANCE) - REFER TO WAT-1255-H

PRESSURE SEWER PROPERTY SERVICE CONNECTIONS

TOTAL 31 CONNECTIONS

● SINGLE SERVICES

−13 x SHORT SIDE

−18 x LONG SIDE

LIMIT OF SUBDIVISION WORKS

PRES	SSURE SEWER PIPE	DATA
PIPE SIZE (mm)	PIPE MATERIAL	TOTAL LENGTH (m)
DN75	PE100 PN16	64
DN63	PE100 PN16	389
DN50	PE100 PN16	13

- NOTES:

 1. FOR POTABLE WATER PIPEWORK DETAIL PLANS REFER TO DRGS-004 TO 009.

 2. FOR RECYCLED WATER PIPEWORK DETAIL PLANS REFER TO DRGS-012 AND 017.

 3. FOR TYPICAL SERVICE CONNECTION DETAILS REFER TO DRG-030.

 4. FOR FLUSHING POINT TYPICAL DETAILS REFER TO STANDARD DRAWING PSS-1017-FS.

 5. CONTRACTOR MAY BEND POLYETHYLENE PIPEWORK IN PLACE OF USING STANDARD FITTINGS WITH A MIN. BENDING RADIUS OF 20 × PIPE DIAM.

 6. ALL BENDS SHALL BE ELECTROFUSION SWEEP BENDS (FABRICATED BENDS SHALL NOT BE USED).

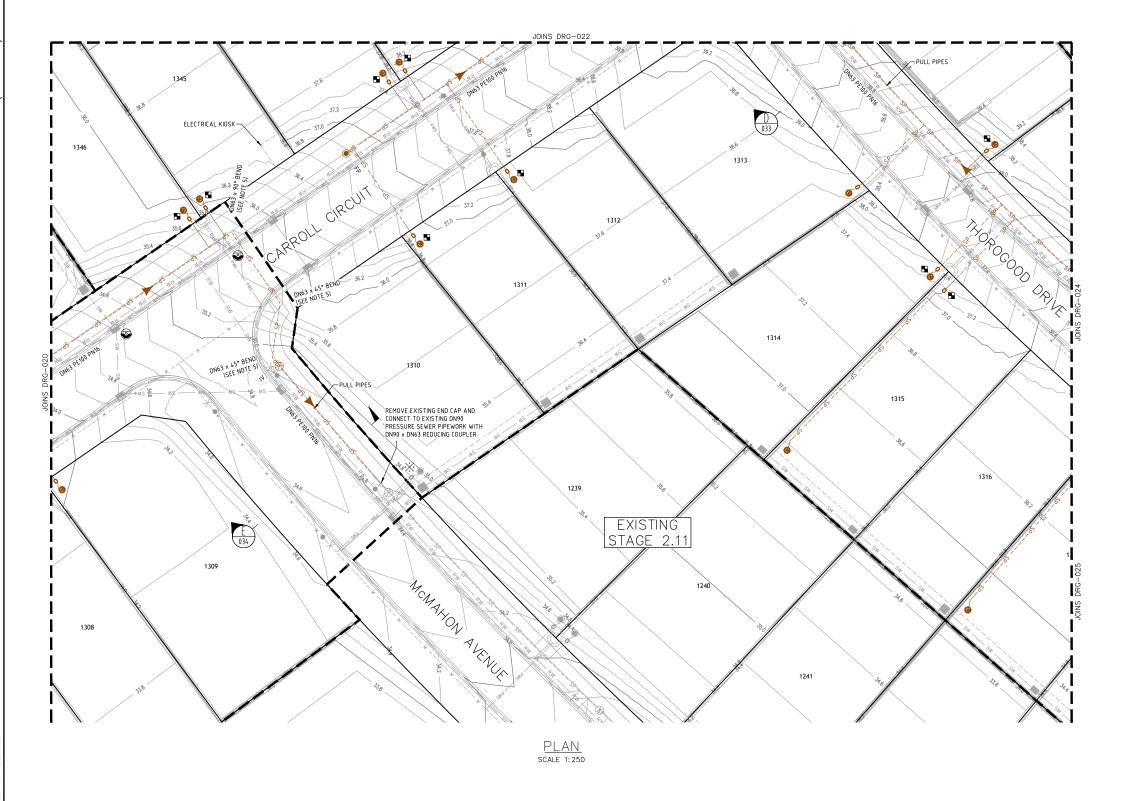
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ADW Johnson Pty Ltd on behalf of Cooranbong Water Date Approved: 30/09/2019

REV. DATE AMENDMENT A 15.01.2016 PRELIMINARY ISSUE	J.N.	L.G.	J.N. L.	IFY SCALES 3. 0 5 10	A1 / A3		Hunter Office	CLIENT		PROPERTY DESCRIPTION	CURDINACION	PROJECT POTABLE WATER, PRESSURE SE			
B 15.06.2016 AMENDED ISSUE - SERVICES RELOCATED	J.N. J.N. J.N. J.N. J.N.	L.G. L.G. L.G. C.B.	J.N. L.0 J.N. L.0 J.N. L.0 J.N. C.1 J.N. C.1	5. 5. 6. 6. 6. 6.	1:250 / 1:500	adw	Unit 7/335 Hillsborough Rd Warners Bay N.S.W. 2282 Phone: (02) 4978 5100 Fax: (02) 4978 5199 email:hunter@adwjohnson.com.au		JOHNSON PROPERTY	PRECINCT 2, STAGES 2.13 WHISTLER DRIV	SUBDIVISION 2 AND 2.13 WATAGAN PARK /E, COORANBONG 07/2015		EWER DETAIL P SHEET 3	LAN	
3 27.08.2020 AMENDED CONSTRUCTION ISSUE 4 14.01.2021 LOT NUMBERS UPDATED TO MATCH REGISTERED DP DESIGN FILE N:\	5.N. S.HO.	С.В. Н.М.	J.N. C.	3.	. DO NOT SCALE	ohnsor	www.adwjohnson.com.au ABN 62 129 445 398	· ·	GROUP	SURVEYED ADW Johnson	DATUM A.H.D.	PROJECT No. DISCIP 239078(2.12 & 2.13)		NUMBER 022	REV.







<u>LEGEND</u> --- SP-- PE PRESSURE SEWER RETICULATION - W---- W--- PVC-M POTABLE WATER RETICULATION POTABLE WATER PROPERTY SERVICE PVC-M RECYCLED WATER RETICULATION RWS ---- RWS ---- RWS ---- RECYCLED WATER PROPERTY SERVICE TELSTRA ---- E ---- E ---- E -- UNDERGROUND POWER — S/W ——— S/W ——— STORMWATER PIPEWORK IV. 🔷 ISOLATION VALVE FLUSHING POINT WASTEWATER COLLECTION TANK AND BOUNDARY KIT PRESSURE SEWER FLOW DIRECTION (SEE NOTE 7) PROPERTY SERVICE CONNECTION EXISTING 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

10TAL 31 CONNECTIONS

• SINCLE SERVICES

-13 x SHORT SIDE

-18 x LONG SIDE

PRES	SSURE SEWER PIPE	DATA
PIPE SIZE (mm)	PIPE MATERIAL	TOTAL LENGTH (m)
DN75	PE100 PN16	64
DN63	PE100 PN16	389
DN50	PE100 PN16	13

- NOTES:

 1. FOR POTABLE WATER PIPEWORK DETAIL PLANS REFER TO DRGS—004 TO 009.

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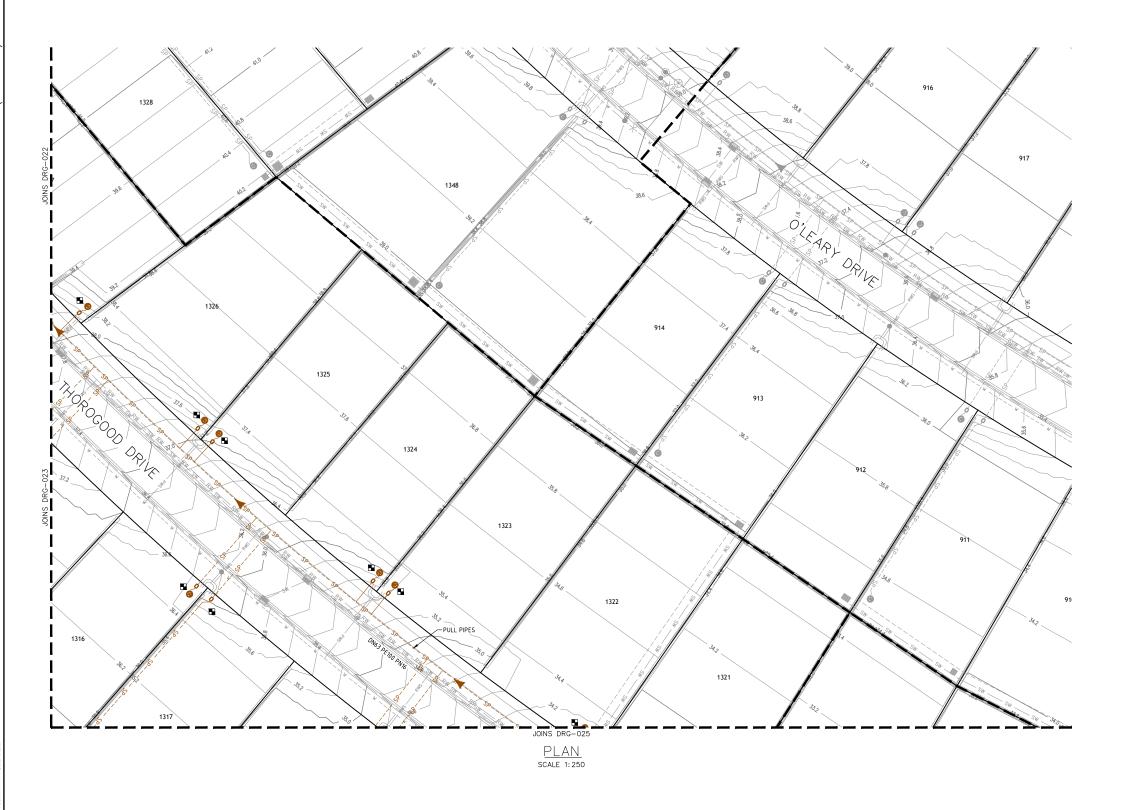
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ADW Johnson Pty Ltd on behalf of Cooranbong Water Date Approved: 30/09/2019

- RE	V. DATE	AMENDMENT PRELIMINARY ISSUE	J.N.	N CHECK	DESIGI	VERIFY	SCALES 0 5 1) A1 / A3		Hunter Office	CLIENT		PROPERTY DESCRIPTION	OLIDDIN/IOION	PROJECT	POTABLE WATER, RECYCLED W. PRESSURE SEWER RETICUL		
- C D D 1 2	15.06.2016 09.09.2019 18.09.2019 30.09.2019 04.08.2020 24.08.2020		J.N. J.N. J.N. J.N. J.N.	L.G. L.G. L.G. C.B. C.B.	J.N. J.N. J.N. J.N. J.N.	L.G. L.G. L.G. C.B. C.B.		1:250 / 1:500	adw	Unit 7/335 Hillsborough Rd Warners Bay N.S.W. 2282 Phone: (02) 4978 5100 Fax: (02) 4978 5199 email:hunter@adwjohnson.com.au		JOHNSON PROPERTY	PRECINCT 2, STAGES 2.12 WHISTLER DRIV	SUBDIVISION AND 2.13 WATAGAN PARK E, COORANBONG 7/2015	PLAN TITLE	PRESSURE SEWER DETAIL - SHEET 4	PLAN	
DES	27.08.2020 14.01.202 IGN FILE N:\	AMENDED CONSTRUCTION ISSUE LOT NUMBERS UPDATED TO MATCH REGISTERED DP	J.N. S.HO	C.B.	J.N. J.N.	C.B.	ALL DIMENSIONS ARE IN METRE	S. DO NOT SCALE	Johnson	www.adwjohnson.com.au ABN 62 129 445 398	,	GROUP	SURVEYED ADW Johnson	DATUM A.H.D.	PROJECT No. 239078	(2.12 & 2.13) - WAT -	NUMBER 023	REV.







<u>LEGEND</u> --- SP-- PE PRESSURE SEWER RETICULATION - W---- W--- PVC-M POTABLE WATER RETICULATION POTABLE WATER PROPERTY SERVICE PVC-M RECYCLED WATER RETICULATION RWS ---- RWS ---- RWS ---- RECYCLED WATER PROPERTY SERVICE ---- T---- T---- TELSTRA ---- E ---- E ---- E -- UNDERGROUND POWER — S/W ——— S/W ——— STORMWATER PIPEWORK IV. 🔷 ISOLATION VALVE FLUSHING POINT WASTEWATER COLLECTION TANK AND BOUNDARY KIT PRESSURE SEWER FLOW DIRECTION (SEE NOTE 7) PROPERTY SERVICE CONNECTION × EXISTING 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 31 CONNECTIONS

● SINGLE SERVICES

−13 x SHORT SIDE

−18 x LONG SIDE

PRES	SSURE SEWER PIPE	DATA
PIPE SIZE (mm)	PIPE MATERIAL	TOTAL LENGTH (m)
DN75	PE100 PN16	64
DN63	PE100 PN16	389
DN50	PE100 PN16	13

- NOTES:

 1. FOR POTABLE WATER PIPEWORK DETAIL PLANS REFER TO DRGS—004 TO 009.

 2. FOR RECYCLED WATER PIPEWORK DETAIL PLANS REFER TO DRGS—012 AND 017.

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 4. FOR FLUSHING POINT TYPICAL DETAILS REFER TO STANDARD DRAWING PSS—1017—FS.

 5. CONTRACTOR MAY BEND POLYETHYLENE PIPEWORK IN PLACE OF USING STANDARD FITTINGS WITH A MIN. BENDING RADIUS OF 20 x PIPE DIAM.

 6. ALL BENDS SHALL BE ELECTROFUSION SWEEP BENDS (FABRICATED BENDS SHALL NOT BE USED).

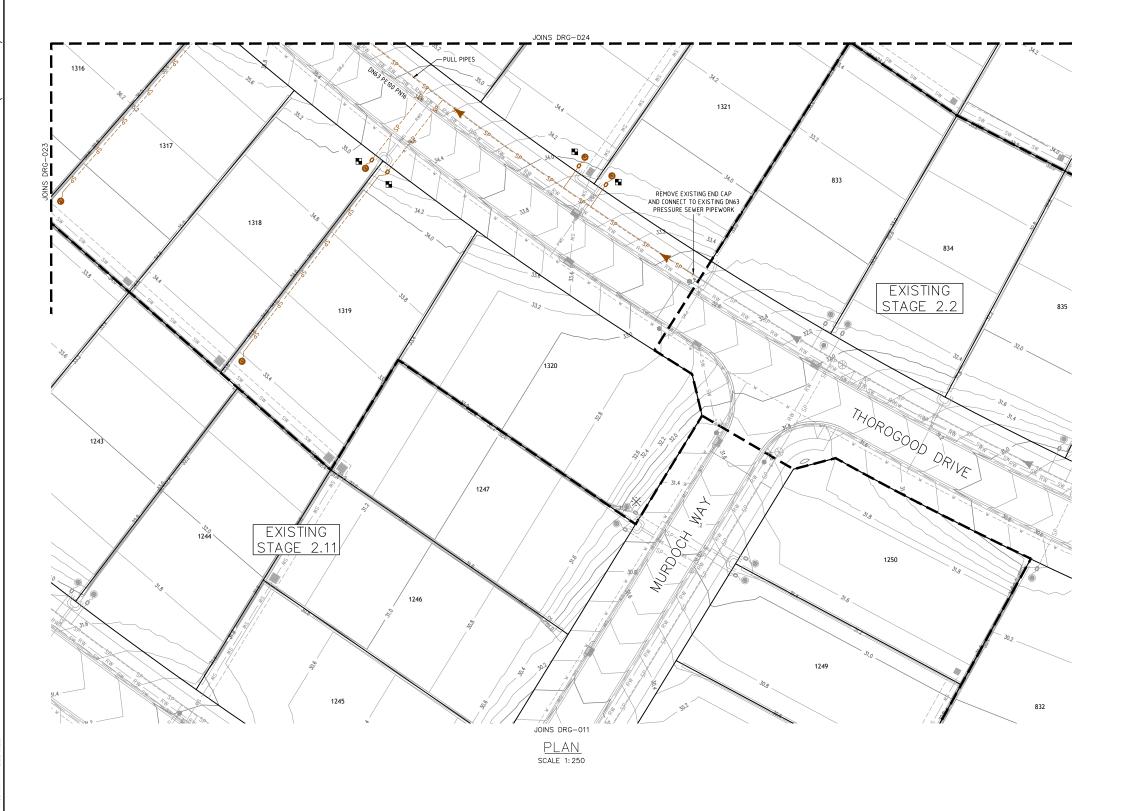
 7. DIRECTION OF FLOW OF PRESSURE SEWER SHOWN ALONG MAGUIRE DRIVE AND SPECK LANE IS TEMPORARY. FLOW ALONG THESE ROADS WILL BE REDIRECTED THROUGH THE FUTURE DEVELOPMENT AFTER CONSTRUCTION OF THE FUTURE DEVELOPMENT HAS BEEN COMPLETED.

ADW Johnson Pty Ltd on behalf of Cooranbong Water Date Approved: 30/09/2019

- RE	7. DATE	AMENDMENT 6 PRELIMINARY ISSUE	J.N.	N CHECK	J.N	N VERIF	Y SCALES 0 5	10 A1 / A3		Hunter Office	CLIENT		PROPERTY DESCRIPTION	OLIDDIN/IOION	PROJECT	POTABLE WATER, RECYCLED W. PRESSURE SEWER RETICUL		
- C D O 1 2	15.06.201 09.09.201 18.09.201 30.09.201 04.08.202 24.08.202	9 AMENDED ISSUE — CLIENT COMMENTS 9 AMENDED ISSUE — ADJUSTED LIMIT OF WORKS 9 CONSTRUCTION ISSUE 10 AMENDED CONSTRUCTION ISSUE	J.N. J.N. J.N. J.N. J.N.	L.G. L.G. L.G. C.B.	J.N J.N J.N J.N J.N	L.G. L.G. L.G. L.G. C.B.		1:250 / 1:500	adw	Unit 7/335 Hillsborough Rd Warners Bay N.S.W. 2282 Phone: (02) 4978 5100 Fax: (02) 4978 5199 email:hunter@adwjohnson.com.au		JOHNSON PROPERTY	WHISTLER DRIV	SUBDIVISION AND 2.13 WATAGAN PARK E, COORANBONG 7/2015	PLAN TITLE	PRESSURE SEWER DETAIL - SHEET 5	PLAN	
DES	27.08.202 14.01.202 IGN FILE N: \	10 AMENDED CONSTRUCTION ISSUE. 11 LOT NUMBERS UPDATED TO MATCH REGISTERED DP	J.N. S.HC	. H.M.	J.N J.N	C.B.	ALL DIMENSIONS ARE IN METR	ES. DO NOT SCALE	ohnson	www.adwjohnson.com.au ABN 62 129 445 398		GROUP	SURVEYED ADW Johnson	DATUM A.H.D.	PROJECT №. 239078	(2.12 & 2.13) - WAT -	NUMBER 024	REV.







<u>LEGEND</u> -- SP-- PE PRESSURE SEWER RETICULATION - W---- W--- PVC-M POTABLE WATER RETICULATION POTABLE WATER PROPERTY SERVICE PVC-M RECYCLED WATER RETICULATION RECYCLED WATER PROPERTY SERVICE ---- T----- TELSTRA ---- E ---- E ---- E -- UNDERGROUND POWER — S/W ——— S/W ——— STORMWATER PIPEWORK IV. 🔷 ISOLATION VALVE FP. FLUSHING POINT WASTEWATER COLLECTION TANK AND BOUNDARY KIT PRESSURE SEWER FLOW DIRECTION (SEE NOTE 7) PROPERTY SERVICE CONNECTION EXISTING 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

10TAL 31 CONNECTIONS

• SINCLE SERVICES

-13 x SHORT SIDE

-18 x LONG SIDE

PRESSURE SEWER PIPE DATA PIPE SIZE (mm) PIPE MATERIAL TOTAL LENGTH (m) DN75 PE100 PN16 64 PE100 PN16 DN6.3 389

PF100 PN16

DN50

NOTES:

1. FOR POTABLE WATER PIPEWORK DETAIL PLANS REFER TO DRGS—004 TO 009.

2. FOR RECYCLED WATER PIPEWORK DETAIL PLANS REFER TO DRGS—012 AND 017.

3. FOR TYPICAL SERVICE CONNECTION DETAILS REFER TO DRG—030.

4. FOR FLUSHING POINT TYPICAL DETAILS REFER TO STANDARD DRAWING PSS—1017—FS.

5. CONTRACTOR MAY BEND POLYETHYLENE PIPEWORK IN PLACE OF USING STANDARD FITTINGS WITH A MIN. BENDING RADIUS OF 20 x PIPE DIAM.

6. ALL BENDS SHALL BE ELECTROFUSION SWEEP BENDS (FABRICATED BENDS SHALL NOT BE USED).

7. DIRECTION OF FLOW OF PRESSURE SEWER SHOWN ALONG MAGUIRE DRIVE AND SPECK LANE IS TEMPORARY. FLOW ALONG THESE ROADS WILL BE REDIRECTED THROUGH THE FUTURE DEVELOPMENT AFTER CONSTRUCTION OF THE FUTURE DEVELOPMENT HAS BEEN COMPLETED.

ADW Johnson Pty Ltd on behalf of Cooranbong Water

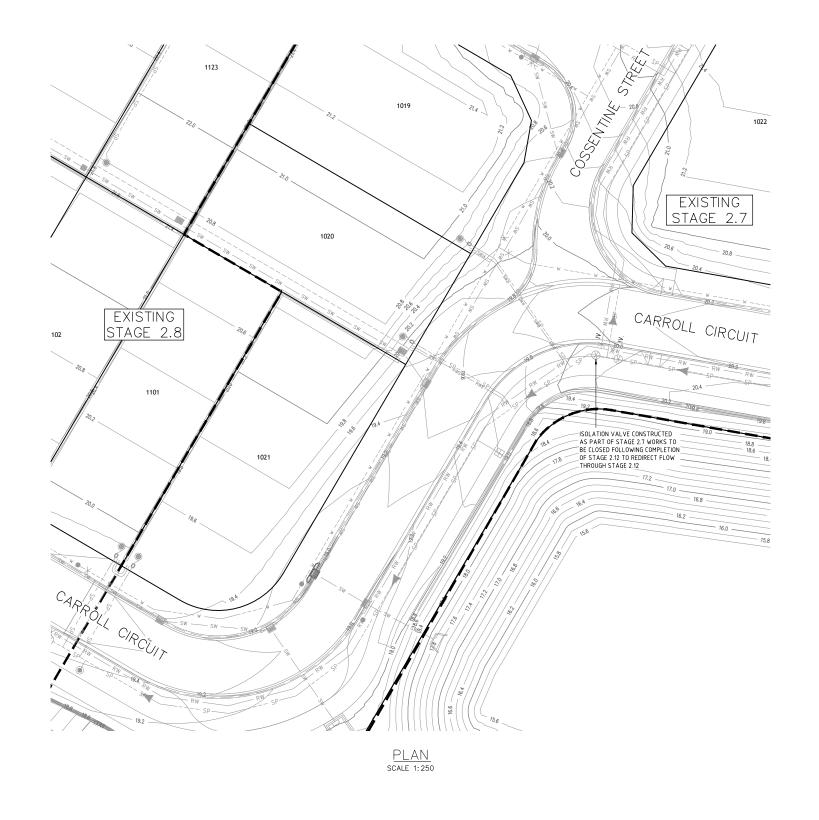
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AS CONSTRUCTED

Date Approved: 30/09/2019

RE	V. DATE	AMENDMENT	DRAWN	CHECK DESIGN VERIFY	SCALES				CLIENT	PROPERTY DESCRIPTION		PROJECT POTABLE WATER, RECYCLED	WATER AND	
/ / A	15.01.2016	PRELIMINARY ISSUE AMENDED ISSUE - SERVICES RELOCATED	J.N.	L.G. J.N. L.G.		A1 / A3		Hunter Office Unit 7/335 Hillsborough Rd		PROPOSED	SUBDIVISION	PRESSURE SEWER RETICU	JLATION	
	09.09.2019	AMENDED ISSUE - CLIENT COMMENTS	J.N.	L.G. J.N. L.G.	1	:250 / 1:500		Warners Bay N.S.W. 2282			AND 2.13 WATAGAN PARK	PLAN TITLE		
- 6	30.09.2019	CONSTRUCTION ISSUE	DED ISSUE — ADJUSTED LIMIT OF WORKS J.N. L.G. J.N RUCTION ISSUE J.N. L.G. J.N FOR CONSTRUCTION ISSUE					Phone: (02) 4978 5100 Fax: (02) 4978 5199	JOHNSON		E, COORANBONG	PRESSURE SEWER DETAI	IL PLAN	
	04.08.2020 2 24.08.2020		J.N. J.N.	C.B. J.N. C.B. C.B.		ac	1 VV	email: hunter@adwjohnson.com.au		DA/30	7/2015	- SHEET 0		
1 2	3 27.08.2020 14.01.2021	AMENDED CONSTRUCTION ISSUE LOT NUMBERS UPDATED TO MATCH REGISTERED DP	J.N. S.HO.	C.B. J.N. C.B. H.M. J.N. C.B.				www.adwjohnson.com.au	GROUP	SURVEYED	DATUM	PROJECT No. DISCIPLINE	NUMBER	REV.
∃ DE	SIGN FILE N:\		•		ALL DIMENSIONS ARE IN METRES.	DO NOT SCALE	12 0 1	ABN 62 129 445 398		ADW Johnson	A.H.D.	239078(2.12 & 2.13) - WAT -	025	4





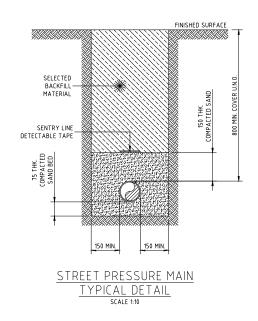
ADW Johnson Pty Ltd
on behalf of

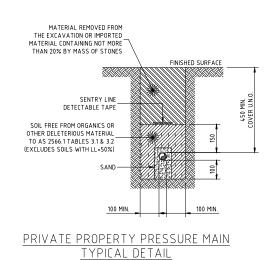
Cooranbong Water

Date Approved: 30/09/2019

	REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIG	GN VERI	SCALES				CLIENT		PROPERTY DESCRIPTION		PROJECT	POTABLE WATER, RECYCLED W		
		15.01.2016	PRELIMINARY ISSUE	J.N.	L.G.	J.N	. L.G				Hunter Office			PROPOSER	OLIDDIN/ICION		PRESSURE SEWER RETICUI	ATION	
- 1	C 0	9.09.2019	AMENDED ISSUE - SERVICES RELOCATED AMENDED ISSUE - CLIENT COMMENTS	J.N. J.N.	L.G.	J.N J.N	1.0	: 			Unit 7/335 Hillsborough Rd Warners Bay N.S.W. 2282				SUBDIVISION 2 AND 2.13 WATAGAN PARK	PLAN TITLE			
		8.09.2019 30.09.2019	AMENDED ISSUE — ADJUSTED LIMIT OF WORKS	J.N.	L.G.	J.N	. L.G				Phone: (02) 4978 5100		JOHNSON		E, COORANBONG		PRESSURE SEWER FLO		
	1 0	4.08.2020	AMENDED CONSTRUCTION ISSUE	J.N.	C.B.	J.N	. C.E	·	O	awı	Fax: (02) 4978 5199		PROPERTY		07/2015		REDIRECTION DETAIL		
ᅦ	$\begin{bmatrix} 2 & 1 & 2 \\ 3 & 1 & 2 \end{bmatrix}$	24.08.2020 7.08.2020	AMENDED CONSTRUCTION ISSUE	J.N.	C.B.	J.N J.N	. C.E	·	<u> </u>		email: hunter@adwjohnson.com.au		GROUP						
1L	4 1	14.01.2021	LOT NUMBERS UPDATED TO MATCH REGISTERED DP	S.H0.	H.M.	J.N	. C.E		——————————————————————————————————————	hnsor	www.adwjohnson.com.au ABN 62 129 445 398	1	GROOP	SURVEYED	DATUM	PROJECT No	. DISCIPLINE	NUMBER	REV.
L		ILE N:\						ALL DIMENSIONS ARE IN METRES.	DO NOT SCALE	1 11 1301				ADW Johnson	A.H.D.	1239078	3(2.12 & 2.13) - WAT -	026	4







NOTES:

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

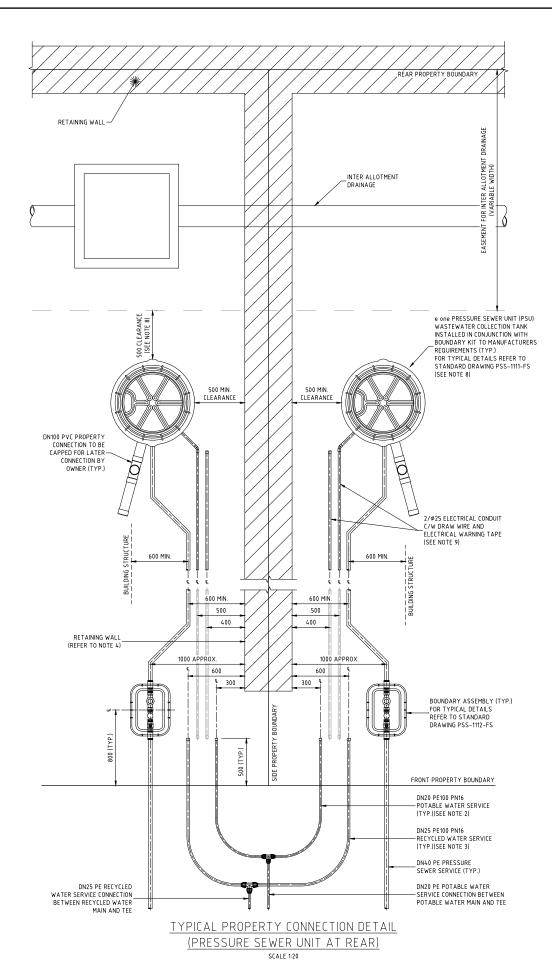
Date Approved: 30/09/2019

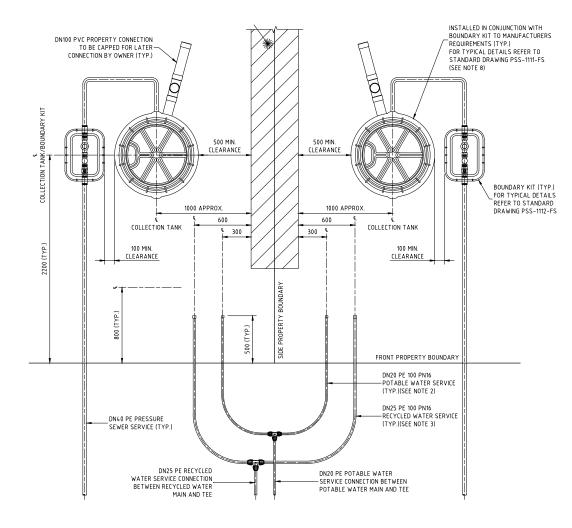
ADW Johnson Pty Ltd
on behalf of

Cooranbong Water

-	REV.		AMENDMENT PRELIMINARY ISSUE	DRAWN CHECK DESIGN VERIFY J.N. L.G. J.N. L.G.	0 0.1 0.2 0.3 0.4 A1 / A3		Hunter Office	CLIENT	PROPERTY DESCRIPTION	OLIDDII/(OLON	PROJECT POTABLE WATER, RECYCLED W PRESSURE SEWER RETICUL		
1	C D 0 1 2	09.09.2019 18.09.2019 30.09.2019 04.08.2020 24.08.2020	AMENDED ISSUE — SERVICES RELOCATED AMENDED ISSUE — CLIENT COMMENTS AMENDED ISSUE — ADJUSTED LIMIT OF WORKS CONSTRUCTION ISSUE AMENDED CONSTRUCTION ISSUE AMENDED CONSTRUCTION ISSUE	J.N. L.G. J.N. C.B. J.N. C.B. J.N. C.B. J.N. C.B.	1:10 / 1:20	adw	Unit 7/335 Hillsborough Rd Warners Bay N.S.W. 2282 Phone: (02) 4978 5100 Fax: (02) 4978 5199 email:hunter@adwjohnson.com.au	JOHNSON PROPERTY	PROPOSED PRECINCT 2, STAGES 2.12 WHISTLER DRIVI DA/30	AND 2.13 WATAGAN PARK	PLAN TITLE TYPICAL PIPEWORK TRENCHIN	G DETAILS	
uluul	4 DESIGN		AMENDED CONSTRUCTION ISSUE LOT NUMBERS UPDATED TO MATCH REGISTERED DP	J.N. C.B. J.N. C.B. S.HO. H.M. J.N. C.B.			www.adwjohnson.com.au ABN 62 129 445 398	GROUP	SURVEYED ADW Johnson	DATUM A.H.D.	PROJECT No. DISCIPLINE 239078(2.12 & 2.13) - WAT -	NUMBER 028	REV.







TYPICAL PROPERTY CONNECTION DETAIL SCALE 120

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.
- 4. 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.
- 6. 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.
- 9. 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.
- 10. FOR MORE INFORMATION REFER TO FLOW SYSTEMS STANDARD DRAWING FSI-1000-FS.
- 11. FOR ALTERNATE TANK AND BOUNDARY CONFIGURATIONS, AND DETAILS FOR TANKS INSTALLED ON PROPERTIES WITH BATTERS AND RETAINING WALLS, REFER TO FLOW SYSTEMS STANDARD DRAWINGS FSI-SK03A-FS AND FSI-SK03B-FS.

ADW Johnson Pty Ltd
on behalf of

Cooranbong Water

AS CONSTRUCTED

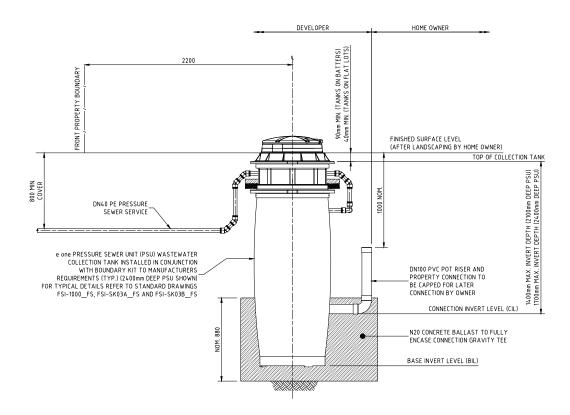
Date Approved: 30/09/2019

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4	REV. DATE AMENDMENT	DRAWN CHECK DESIGN VERIFY SCALES		CLIENT	PROPERTY DESCRIPTION		PROJECT POTABLE WATER, RECYCLED WA	TER AND
	A 15.01.2016 PRELIMINARY ISSUE B 15.06.2016 AMENDED ISSUE — SERVICES RELOCATED	J.N. L.G. J.N. L.G. 0 0.1 0.2 0.3 0.4 A1 / A3	Hunter Office Unit 7/335 Hillsborough Rd		PROPOSED S	IDDIVICION	PRESSURE SEWER RETICULA	TION
-	C 09.09.2019 AMENDED ISSUE - CLIENT COMMENTS	J.N. L.G. J.N. L.G. 1:10 / 1:20	Warners Bay N.S.W. 2282		PRECINCT 2, STAGES 2,12 A		PLAN TITLE	
Ш	D 18.09.2019 AMENDED ISSUE — ADJUSTED LIMIT OF WORKS 0 30.09.2019 CONSTRUCTION ISSUE	J.N. L.G. J.N. L.G. 0 0.4 0.8 A1 / A3 J.N. L.G. J.N. L.G. 1:20 / 1:40	Phone: (02) 4978 5100	JOHNSON	WHISTLER DRIVE,		TYPICAL SERVICE CONNECTION	DETAILS
	1 04.08.2020 AMENDED CONSTRUCTION ISSUE	J.N. C.B. J.N. C.B.	Fax: (02) 4978 5199	PROPERTY	DA/307/		THE OCK OCKNOCK CONNECTION	DETAILO
넯	2 24.08.2020 AMENDED CONSTRUCTION ISSUE 3 27.08.2020 AMENDED CONSTRUCTION ISSUE	J.N. C.B. J.N. C.B. J.N. C.B. J.N. C.B.	email: hunter@adwjohnson.com.au www.adwjohnson.com.au	CPOLID				
1	4 14.01.2021 LOT NUMBERS UPDATED TO MATCH REGISTERED DP	S.HO. H.M. J.N. C.B.	ABN 62 129 445 398	ONOOI	1 00.112.25	DATUM	PROJECT No. DISCIPLINE	NUMBER REV.
-	DESIGN FILE N: \	ALL DIMENSIONS ARE IN METRES. DO NOT SCA			ADW Johnson	A.H.D.	239078(2.12 & 2.13) - WAT -	030 4
	Plotted By scotth Plot Date: 20 /01 /21 - 09:33 Cad File: \\	\inserver10\Adw_Data\239078\Dwa\water & sewer design\precinct 2 water an	od sewer\stages 2.12 & 2.13\239078(2.12 & 2.13) -	issue 4\230078(212 & 213_WAT_028 to 031/4) dwa			



OT NUMBER	FINISHED SURFACE LEVEL (FSL)	TANK BASE INVERT LEVEL (BIL)	TANK CONNECTION INVERT LEVEL (CIL)	T A N K HEIGHT			
1301	27.16	25.24	25.84	2100			
1302	27.70	25.78	26.38	2100			
1303	29.31	27.39	27.99	2100			
1304	30.17	28.30	28.90	2100			
1305	31.59	29.72	30.32	2100			
1306	31.89	30.02	30.62	2100			
1307	33.02	31.15	31.75	2100			
1308	33.30	31.43	32.03	2100			
1309	33.88	32.01	32.61	2100			
1310	EXISTING SER	VICE CONNECTION - REFER	TO STAGE 2.11 DESIGN DRAWINGS).			
1311	36.90	34.68	35.28	2400			
1312	37.40	35.18	35.78	2400			
1313	38.43	36.56	37.16	2100			
1314	37.62	35.40	36.00	2400			
1315	36.39	34.52	35.12	2100			
1316	36.34	34.12	34.72	2400			
1317	34.89	33.02	33.62	2100			
1318	34.84	32.67	33.27	2400			
1319	33.39	31.52	32.12	2100			
1320	EXISTING SER	VICE CONNECTION – REFER TO STAGE 2.11 DESIGN DRAWINGS					
1321	33.74	31.87	32.47	2100			
1322	34.08	32.21	32.81	2100			
1323	35.43	33.56	34.16	2100			
1324	35.91	33.99	34.59	2100			
1325	37.13	35.21	35.81	2100			
1326	37.67	35.75	36.35	2100			
1327	38.61	36.69	37.29	2100			
1328	EXISTING SERV	/ICE CONNECTION – REFER	TO STAGE 2.15 DESIGN DRAWINGS	5.			
1329	39.92	38.00	38.60	2100			
1330	39.40	37.48	38.08	2100			
1331	38.02	36.10	36.70	2100			
1332	37.56	35.64	36.24	2100			
1333	36.13	34.21	34.81	2100			
1334	35.85	33.63	34.23	2400			

** WASTEWATER COLLECTION TANK TO BE PLACED IN REAR OF LOT



PRESSURE SEWER SERVICE CONNECTION TYPICAL SECTIONAL ELEVATION

SCALE 1:20 (SHOWN AS FRONT OF LOT SERVICE CONNECTION WITH 2400mm DEEP PSU)



AS CONSTRUCTED

REV. DATE AMENDMENT DRAWN CHECK DESIGN VERIFY SCALES POTABLE WATER, RECYCLED WATER AND CLIENT PROPERTY DESCRIPTION PROJECT PRELIMINARY ISSUE

AMENDED ISSUE — SERVICES RELOCATED

AMENDED ISSUE — CLIENT COMMENTS

AMENDED ISSUE — ADJUSTED LIMIT OF WORKS

CONSTRUCTION ISSUE

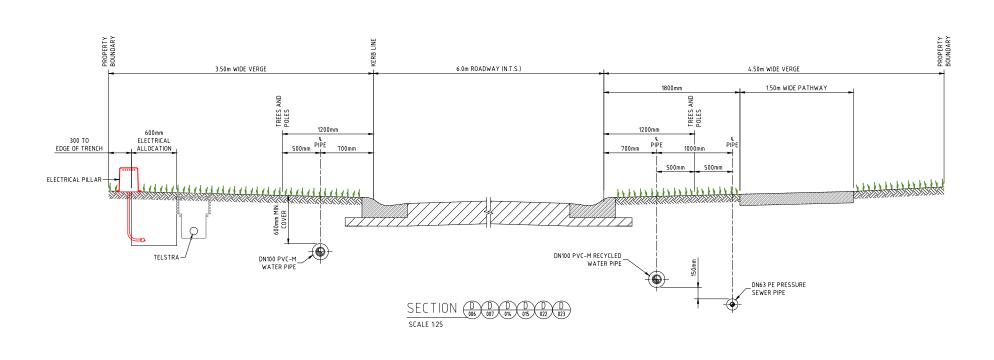
AMENDED CONSTRUCTION ISSUE

AMENDED CONSTRUCTION ISSUE

AMENDED CONSTRUCTION ISSUE

LOT NUMBERS UPDATED TO MATCH REGISTERED DP Hunter Office PRESSURE SEWER RETICULATION PROPOSED SUBDIVISION PRECINCT 2, STAGES 2.12 AND 2.13 WATAGAN PARK WHISTLER DRIVE, COORANBONG Unit 7/335 Hillsborough Rd PLAN TITLE Warners Bay N.S.W. 2282 Phone: (02) 4978 5100 Fax: (02) 4978 5199 JOHNSON PROPERTY WASTEWATER COLLECTION TANK LEVEL **DETAILS** DA/307/2015 email: hunter@adwjohnson.com.au www.adwjohnson.com.au GROUP ALL DIMENSIONS ARE IN METRES. DO NOT SCALE JOHNSON
Water & sewer design/presidet 6 ABN 62 129 445 398 239078(2.12 & 2.13) - WAT -ADW Johnson 031 DESIGN FILE N:\





SCALE 1:25

NOTE:

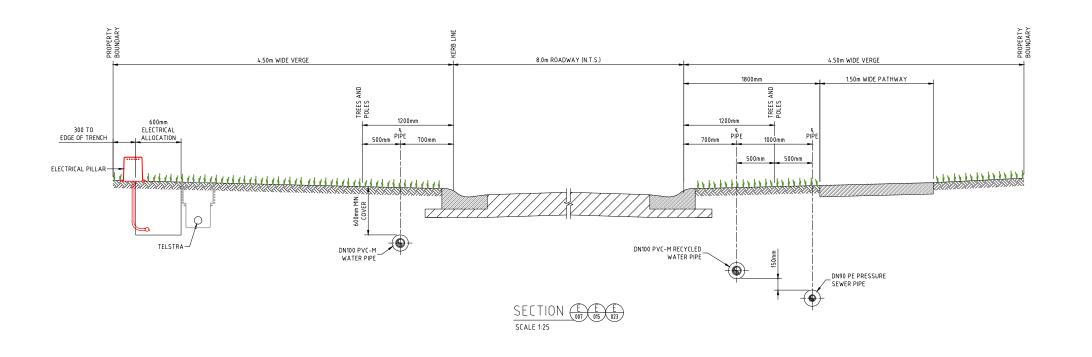
 FOR MINIMUM VERTICAL AND HORIZONTAL CLEARANCES REFER TO WATER SUPPLY CODE OF AUSTRALIA WSA 03-2011-3.1. (SYDNEY WATER EDITION 2012). ADW Johnson Pty Ltd
on behalf of

Cooranbong Water

Date Approved: 30/09/2019

A 15.01.2016 P	AMENDMENT PRELIMINARY ISSUE AMENDED ISSUE — SERVICES RELOCATED	J.N. L.G.	J.N.	L.G.		A1 / A3		Hunter Office Unit 7/335 Hillsborough Rd	CLIENT	PROPERTY DESCRIPTION PROPOSED S	LIRDIVISION		TABLE WATER, RECYCLED W PRESSURE SEWER RETICU		
C 09.09.2019 A D 18.09.2019 A O 30.09.2019 C 1 04.08.2020 A 2 24.08.2020 A	AMENDED ISSUE — CLIENT COMMENTS AMENDED ISSUE — ADJUSTED LIMIT OF WORKS CONSTRUCTION ISSUE AMENDED CONSTRUCTION ISSUE AMENDED CONSTRUCTION ISSUE AMENDED CONSTRUCTION ISSUE AMENDED CONSTRUCTION ISSUE	J.N. L.G. J.N. L.G. J.N. C.B. J.N. C.B.	J.N. J.N. J.N. J.N. J.N.	L.G. L.G. L.G. C.B.		1:25 / 1:50	adw	Warners Bay N.S.W. 2282 Phone: (02) 4978 5100 Fax: (02) 4978 5199 email:hunter@adwjohnson.com.au	JOHNSON PROPERTY	PRECINCT 2, STAGES 2.12 WHISTLER DRIVE DA/307	AND 2.13 WATAGAN PARK , COORANBONG	PLAN TITLE	ROAD CROSS SECTIONS - S	SHEET 2	
	AMENDED CONSTRUCTION ISSUE LOT NUMBERS UPDATED TO MATCH REGISTERED DP	S.HO. H.M.	J.N.	C.B. C.B.	DIMENSIONS ARE IN METRES.	DO NOT SCALE	ohnson	www.adwjohnson.com.au ABN 62 129 445 398	GROUP	SURVEYED ADW Johnson	DATUM A.H.D.	PROJECT No. 239078(2.1)	2 & 2.13) - WAT -	NUMBER 033	REV.





NOTE:

 FOR MINIMUM VERTICAL AND HORIZONTAL CLEARANCES REFER TO WATER SUPPLY CODE OF AUSTRALIA WSA 03-2011-3.1. (SYDNEY WATER EDITION 2012). ADW Johnson Pty Ltd
on behalf of

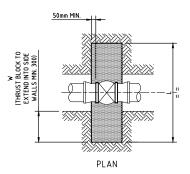
Cooranbong Water

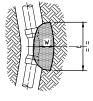
AS CONSTRUCTED

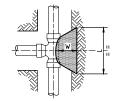
Date Approved: 30/09/2019

RE\	V. DATE	AMENDMENT	DRAWN	CHECK DESIGN VEF	FY SCALES				CLIENT	PROPERTY DESCRIPTION		PROJECT POTABLE WA	ATER, RECYCLED W	ATER AND	
		PRELIMINARY ISSUE AMENDED ISSUE - SERVICES RELOCATED	J.N.	L.G. J.N. L.	. o o	0.5 1 A1 / A3		Hunter Office		PROPOSED	OLIDDIN (IOION)	PRESSU	RE SEWER RETICUL	ATION	
11 c	09.09.2019	AMENDED ISSUE - CLIENT COMMENTS	J.N. J.N.	L.G. J.N. L.	: -	1:25 / 1:50		Unit 7/335 Hillsborough Rd Warners Bay N.S.W. 2282		1	SUBDIVISION 2 AND 2.13 WATAGAN PARK	PLAN TITLE			
		AMENDED ISSUE — ADJUSTED LIMIT OF WORKS CONSTRUCTION ISSUE	J.N. J.N.					Phone: (02) 4978 5100	JOHNSON		E, COORANBONG	ROAD CE	ROSS SECTIONS - SI	HEET 3	
	04.08.2020	AMENDED CONSTRUCTION ISSUE	J.N.	C.B. J.N. C.	á.		aawi	Fax: (02) 4978 5199	PROPERTY	1	07/2015	NOAD ON	.000 020110110 - 01	IILLI J	
3			J.N. J.N.				0. 0	email: hunter@adwjohnson.com.au www.adwiohnson.com.au	GROUP						
4	14.01.2021	LOT NUMBERS UPDATED TO MATCH REGISTERED DP	S.HO.		3.		_lobneor		1 011001	SURVEYED	DATUM	PROJECT No.	DISCIPLINE	NUMBER	REV.
DES	IGN FILE N:\				ALL DIMENSIONS	ARE IN METRES. DO NOT SC.	YE OU II IZOI	ABN 62 129 445 398		ADW Johnson	A.H.D.	239078(2.12 & 2.1	3) - WAT -	034	4
PI	Plotted By: scotth Plot Date: 20/01/21 - 09:34 Cad File: \pserver10\Adw-Data\239078\Dwg\water & sewer design\precinct 2 water and sewer\stages 2.12 & 2.13\239078(2.12 & 2.13) - issue 4\239078(2.12 & 2.13) - WAT-032 to 036(4).dwg														







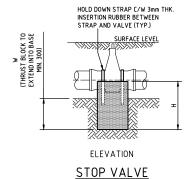




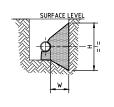


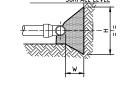


N.T.S.



N.T.S.





ELEVATION HORIZONTAL BEND N.T.S.

ELEVATION TEE, FLUSHING HYDRANT AND CAP N.T.S.

TYPE	FITTING	Soil	Design	Thrust	TA (m2)	Length	Height	Width
		A HBP (Kpa)	STP (Kpa)			(L)	(H)	(W)
1	DN250 x 90° BEND	100	1000	91.00	0.91	1.00	0.91	0.40
2	DN250 x 45° BEND	100	1000	51.00	0.51	0.75	0.68	0.40
3	DN250 x 22.5° BEND	100	1000	26.00	0.26	0.55	0.47	0.40
4	DN250 x 11.25° BEND	100	1000	13.00	0.13	0.40	0.33	0.40
5	DN250 FLUSHING HYDRANT	100	1000	65.00	0.65	0.85	0.76	0.40
6	DN200 x DN200 EQUAL TEE	100	1000	43.00	0.43	0.70	0.61	0.30
7	DN200 x DN100 TAPER	100	1000	31.00	0.31	0.60	0.52	0.30
8	DN200 x 90° BEND	100	1000	60.00	0.60	0.80	0.75	0.30
9	DN200 x 45° BEND	100	1000	33.00	0.33	0.60	0.55	0.30
10	DN200 x 22.5° BEND	100	1000	17.00	0.17	0.45	0.38	0.30
11	DN200 x 11.25° BEND	100	1000	8.10	0.08	0.30	0.30	0.30
12	DN200 STOP VALVE	100	1000	43.00	0.43	1.20	0.52	0.30
13	DN200 FLUSHING HYDRANT	100	1000	53.00	0.53	0.75	0.71	0.40
14	DN100 x DN100 EQUAL TEE	100	1000	12.00	0.12	0.40	0.30	0.30
15	DN100 x 90° BEND	100	1000	17.00	0.17	0.45	0.38	0.30
16	DN100 x 45° BEND	100	1000	8.80	0.09	0.30	0.30	0.30
17	DN100 x 22.5° BEND	100	1000	4.50	0.05	0.30	0.30	0.30
18	DN100 x 11.25° BEND	100	1000	2.20	0.02	0.30	0.30	0.30
19	DN100 x 6° BEND	100	1000	2.20	0.02	0.30	0.30	0.30
20	DN100 STOP VALVE	100	1000	12.00	0.12	1.05	0.44	0.30
21	DN100 FLUSHING HYDRANT	100	1000	12.00	0.12	0.40	0.30	0.40

THRUST BLOCK NOTES:

- 1. 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.
- 4. 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 (N). 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.
- 7. 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.

ADW Johnson Pty Ltd on behalf of Cooranbong Water Date Approved: 30/09/2019

AS CONSTRUCTED

036

POTABLE WATER, RECYCLED WATER AND

PRESSURE SEWER RETICULATION

EV. DATE AMENDMENT CHECK DESIGN VERIFY SCALES PRELIMINARY ISSUE

AMENDED ISSUE — SERVICES RELOCATED

AMENDED ISSUE — CLIENT COMMENTS

AMENDED ISSUE — ADJUSTED LIMIT OF WORKS

CONSTRUCTION ISSUE

AMENDED CONSTRUCTION ISSUE DESIGN FILE N:\



Hunter Office Unit 7/335 Hillsborough Ro Warners Bay N.S.W. 2282 Phone: (02) 4978 5100 (02) 4978 5199 Fax:

CLIENT **JOHNSON PROPERTY** email: hunter@adwjohnson.com.c www.adwjohnson.com.au ABN 62 129 445 398

PROPERTY DESCRIPTION
PROPOSED SUBDIVISION
PRECINCT 2, STAGES 2.12 AND 2.13 WATAGAN PAR
WHISTLER DRIVE, COORANBONG
DA/307/2015

PROPOSED SUBDIVISION	
PRECINCT 2, STAGES 2.12 AND 2.13 WATAGAN PARK	
WHISTLER DRIVE, COORANBONG	
DA/307/2015	

PLAN TITLE	
	THRUST BLOCK DETAILS

239078(2.12 & 2.13) - WAT -

A.H.D.

PROJECT

ALL DIMENSIONS ARE IN METRES. DO NOT SCALE JOHNSON

100mm AT F

POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION PROPOSED SUBDIVISION STAGE 2.15 WATAGAN PARK WHISTLER DRIVE, COORANBONG DA/307/2015



LOCALITY SKETCH

	DRAWING INDEX
DRAWING NUMBER	DRAWING TITLE
239078(2.15)-WAT-001	COVER SHEET, LOCALITY PLAN AND DRAWING INDEX
239078(2.15)-WAT-002	GENERAL NOTES
239078(2.15)-WAT-003	OVERALL SITE PLAN
239078(2.15)-WAT-004	POTABLE WATER DETAIL PLAN - SHEET 1
239078(2.15)-WAT-005	POTABLE WATER DETAIL PLAN - SHEET 2
239078(2.15)-WAT-006	POTABLE WATER DETAIL PLAN - SHEET 3
239078(2.15)-WAT-007	POTABLE WATER DETAIL PLAN - SHEET 4
239078(2.15)-WAT-008	NOT USED
239078(2.15)-WAT-009	NOT USED
239078(2.15)-WAT-010	RECYCLED WATER DETAIL PLAN - SHEET 1
239078(2.15)-WAT-011	RECYCLED WATER DETAIL PLAN - SHEET 2
239078(2.15)-WAT-012	RECYCLED WATER DETAIL PLAN - SHEET 3
239078(2.15)-WAT-013	RECYCLED WATER DETAIL PLAN - SHEET 4
239078(2.15)-WAT-014	NOT USED
239078(2.15)-WAT-015	NOT USED
239078(2.15)-WAT-016	PRESSURE SEWER DETAIL PLAN - SHEET 1
239078(2.15)-WAT-017	PRESSURE SEWER DETAIL PLAN - SHEET 2
239078(2.15)-WAT-018	PRESSURE SEWER DETAIL PLAN - SHEET 3
239078(2.15)-WAT-019	PRESSURE SEWER DETAIL PLAN - SHEET 4
239078(2.15)-WAT-020	PRESSURE SEWER FLOW REDIRECTION DETAIL
239078(2.15)-WAT-021	NOT USED
239078(2.15)-WAT-022	TYPICAL PIPEWORK TRENCHING DETAILS
239078(2.15)-WAT-023	NOT USED
239078(2.15)-WAT-024	TYPICAL SERVICE CONNECTION DETAILS
239078(2.15)-WAT-025	WASTEWATER COLLECTION TANK LEVEL DETAILS
239078(2.15)-WAT-026	ROAD CROSS SECTIONS - SHEET 1
239078(2.15)-WAT-027	ROAD CROSS SECTIONS - SHEET 2
239078(2.15)-WAT-028	NOT USED
239078(2.15)-WAT-029	THRUST BLOCK DETAILS



REV. DATE AMENDMENT DRAWN CHECK DESIGN VERIFY: A 15.01.2016 PRELIMINARY ISSUE J.N. L.G. J.N. L.G.	Hunter Office		PROJECT POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION
B 23.05.2016		PROPOSED SUBDIVISION PRECINCT 2, STAGE 2.15 WATAGAN PARK WHISTLER DRIVE, COORANBONG DA/307/2015	PLAN TITLE COVER SHEET, LOCALITY PLAN AND DRAWING INDEX
	ALL DIMENSIONS ARE IN METRES. DO NOT SCALE ON NOT SCALE	GROUP SURVEYED ADW Johnson A.H.D.	PROJECT No. DISCIPLINE NUMBER REV. 239078(2.15) - WAT - 001 3
Plotted By: scotth Plot Date: 20/01/21 - 09:36 Cad File: N:\239078\Dwg\water & sewer design\r	precinct 2 water and sewer\Stage 2.15\239078(2.15)—issue 3\239078(2.15)—WAT-001 to 003(3).dwg		

BEFORE YOU DIG

GENERAL NOTES:

- 1. THIS DRAWING SET SHOULD BE READ IN CONJUNCTION WITH LAKE MACQUARIE CITY COUNCIL STANDARDS AND OTHER ASSOCIATED DRAWINGS AND TECHNICAL SPECIFICATIONS. ANY VARIATIONS SHALL BE APPROVED BY THE SUPERINTENDENT REPRESENTATIVE PRIOR TO COMMENCEMENT OF WORK.
- 2. THE CONTRACTOR SHALL LOCATE AND IDENTIFY ALL UNDERGROUND SERVICES PRIOR TO COMMENCEMENT OF WORK AND SHALL REPAIR ANY DAMAGE CAUSED TO SUCH SERVICES DURING CONSTRUCTION. ANY SERVICE
- 3. ALL PRODUCTS AND MATERIALS SHALL BE NEW, SHALL COMPLY WITH THE RELEVANT AUSTRALIAN STANDARDS AND ARE TO BE SELECTED FROM THE COORANBONG WATER APPROVED PRODUCTS AND MATERIALS REGISTER
- 4. DURING CONSTRUCTION ALL OPEN ENDS OF PIPES SHALL BE CAPPED TO PREVENT ENTRY OF FOREIGN MATTER.
- 5. ALL MAINS SHALL BE FLUSHED WITH WATER TO REMOVE ANY DEBRIS PRIOR TO COMMISSIONING.
- 6. SURFACE IDENTIFICATION MARKERS ARE TO BE PROVIDED TO COORANBONG WATER REQUIREMENTS
- 7. MAKE SMOOTH TRANSITION TO EXISTING INFRASTRUCTURE (ROAD PAVEMENT, KERBS, FOOTPATHS, ETC.) TO LAKE MACQUARIE CITY COUNCIL AND SUPERINTENDENT'S SATISFACTION.
- 8. SUITABLE PROTECTION TO EXISTING INFRASTRUCTURE (ROAD PAVEMENT, KERBS, FOOTPATHS, ETC.) IS TO BE PROVIDED DURING DURATION OF CONSTRUCTION.
- 9. CLEAR VEHICULAR ACCESS TO ADJOINING PROPERTIES IS TO BE MAINTAINED AT ALL TIMES FOR DURATION OF CONSTRUCTION. FOR ANY WORKS IN ADJOINING PROPERTIES, PERMISSION IS TO BE OBTAINED PRIOR TO
- 10. SERVICE CONDUITS ARE TO BE LAID AS DIRECTED BY THE SUPERINTENDENT/RELEVANT SERVICE AUTHORITY.
- 11. WHERE LOT FILLING EXCEEDS 300mm, A SURVEY OF THE STRIPPED SURFACE AND FINAL FILLED SURFACE SHALL
- 12 THE CONTRACTOR SHALL PROVIDE COORANBONG WATER WITH M.G.A. COORDINATED WORK AS CONSTRUCTED INFORMATION, BURIED FITTINGS ARE NOT TO BE BACKFILLED UNTIL WORK AS CONSTRUCTED DETAILS HAVE BEEN OBTAINED AND APPROVAL FOR BACKFILLING HAS BEEN GIVEN BY THE COORANBONG WATER REPRESENTATIVE.
- 13. ANY WORKS NOT COVERED BY THE SPECIFICATION OR THIS DRAWING SET ARE TO BE REFERRED TO THE
- 14. THE CONTRACTOR SHALL PROVIDE COORANBONG WATER AND HUNTER WATER WITH A MINIMUM OF 7 DAYS NOTICE (IN WRITING) OF INTENT TO CONNECT NEW MAINS TO EXISTING INFRASTRUCTURE.
- 15. ALL PIPE BEDDING MATERIAL TO COMPLY WITH WSAA PRODUCT SPECIFICATION WSA-PS350 AND WSA PS351.

POTABLE WATER AND RECYCLED WATER NOTES

- 1. ALL WORKS SHALL BE IN ACCORDANCE WITH BUT NOT LIMITED TO. WATER SUPPLY CODE OF AUSTRALIA WSA 03-2011-3.1 (SYDNEY WATER EDITION 2012) AND FLOW SYSTEMS SUPPLEMENTARY MANUAL TO WSAA.
- 2. WORKS MUST BE CONSTRUCTED IN ACCORDANCE WITH THE DESIGN DRAWINGS. CONSTRUCTION SPECIFICATION. WSA 03 PART 2 - CONSTRUCTION AND WSA 03 STANDARDS DRAWINGS AND WSA STANDARD DRAWINGS (SYDNEY WATER VERSION) OR AS MODIFIED BY FLOW SYSTEMS SUPPLEMENTARY MANUAL TO WSAA. CURRENT AT THE TIME
- 3. CLEARANCES SHOWN TO OTHER PIPES HAVE BEEN CALCULATED FROM THE COLLAR.
- 4. ALL PRODUCTS AND MATERIALS TO BE SELECTED FROM THE COORANBONG WATER APPROVED PRODUCTS AND
- HYDRANTS, STOP VALVES AND ALL OTHER FITTINGS TO BE THE SAME SIZE AS THE THROUGH WATER MAIN. ALL POTABLE & RECYCLED WATER VALVES TO BE ANTI CLOCKWISE CLOSING.
- 6. HYDRANTS MUST NOT BE POSITIONED IN DRIVEWAYS OR TAPPING POINTS. HYDRANTS NOMINALLY AT LEAST 5m FROM EACH BOUNDARY OR ON BOUNDARIES.
- 7. ALL PIPES AND FITTINGS TO BE AT HWC PREFERRED MINIMUM COVER (WAT-1201-V).
 - FOOTWAYS 0.6m TYPE B EMBEDMENT WAT-1202.
 - ROADWAYS 0.75m TYPE L EMBEDMENT WAT-1204-V.
- 8. LAY DETECTABLE MARKING TAPE OVER ALL MAINS AND PROPERTY SERVICE LINES AS PER WAT-1854-S AN WAT-1855-S ENSURING A CONTINUOUS ELECTRICAL PATHWAY ALONG THE TRACE WIRE ON EACH SERVICE FROM PROPERTY METERS TO AND ALONG THE RELEVANT MAIN TO HYDRANTS AND VALVES.
- 9 GEOTECHNICAL CONDITIONS SHALL BE ASSESSED DURING CONSTRUCTION BY THE CONTRACTOR IN ASSOCIATION WITH COORANBONG WATER SUPERINTENDENT TO DETERMINE MODIFICATIONS TO EMBEDMENT/TRENCH TYPE AND TRENCH DRAINAGE/BULKHEAD REQUIREMENTS.
- 10. ALL POTABLE WATERMAINS SHALL BE PLAIN BLUE PVC-M (PN16).
- 11. ALL RECYCLED WATERMAINS SHALL BE LILAC PVC-M (PN16)
- 12. DIFFERENTIATION OF DRINKING (POTABLE) AND NON-DRINKING (RECYCLED) WATER SYSTEMS TO BE AS PER WSA 03-2011, TABLE 4.1 WITH BOTH SERVICES BEING CLASSIFIED AS WATERMAINS. RECYCLED WATERMAIN TO ALWAYS BE LOWER THAN POTABLE WATERMAIN WITH MINIMUM 150mm VERTICAL CLEARANCE.
- 13. FOR THRUST BLOCK DETAILS REFER TO DRG-027.
- 14. PROPERTY SERVICE CONNECTIONS SHALL BE IN ACCORDANCE WITH WSA STANDARD DRAWINGS FOR DUAL WATER SUPPLY SYSTEMS(SYDNEY WATER VERSION)(SUPPLEMENT TO WSA 03-2011) AND FLOW SYSTEMS SUPPLEMENTARY MANUAL TO WSAA.
 - WAT-1853-S
 - WAT-1855-S.
 WAT-1854-FS.
 WAT-1855-FS.
- WAT-1856-S.
- 15. PROPERTY SERVICE CONNECTIONS MUST BE INSTALLED BY A LICENSED PLUMBER AND COMPLY WITH N.S.W. CODE OF PRACTICE FOR PLUMBING AND DRAINAGE AND AS/NZ 3500.
- 16. ALL MATERIALS USED IN PROPERTY SERVICES ARE TO BE IN ACCORDANCE WITH N.S.W. CODE OF PRACTICE FOR PLUMBING AND DRAINAGE AND AS/NZ 3500 (MINIMUM PN15), PE 100 B, PN16.
- 17. ALL PROPERTY SERVICE PIPES FOR RECYCLED WATER ARE TO BE COLOURED BLACK WITH LILAC (P23)
 LONGITUDINAL STRIPE TO AS 2700. WHERE NOMINAL PIPE SIZE IS SPECIFIED, AN EQUIVALENT PIPE SIZE
 APPROPRIATE TO THE MATERIAL BEING USED TO BE AS SPECIFIED IN AS 3500, TABLE 1.1, PE 100 B, PN16. ALL PROPERTY SERVICE PIPES FOR POTABLE WATER ARE TO BE COLOURED BLACK WITH BLUE LONGITUDINAL STRIPE TO A.S.2700.
- 18. MAXIMUM PIPE COVER SHALL BE 1500mm UNLESS SPECIFIED ON THE DESIGN DRAWINGS OR APPROVAL IS OBTAINED FROM THE COORANBONG WATER REPRESENTATIVE.
- 19. ALL MAINS LAID IN TRAFFICABLE CARRIAGEWAYS SHALL BE BACKFILLED WITH 16:1 STABILISED SAND CEMENT TO
- 20. THE MINIMUM NUMBER OF COMPACTION TESTS ARE AS FOLLOWS:

TRAFFICABLE

- PIPE EMBEDMENT ZONE: 1 TEST/CROSSING
- TRENCHFILL ZONE: 1 TEST/CROSSING.

NON-TRAFFICABLE

- PIPE EMBEDMENT ZONE: 1 TEST/100m
- TRENCHFILL ZONE: 1 TEST/100m.

TESTING IS TO BE IN ACCORDANCE WITH WATER SUPPLY CODE OF AUSTRALIA TABLES 16.1 AND 17.1.

- 21. POTABLE AND RECYCLED WATERMAIN FITTINGS ARE TO BE STAGGERED
- 22. MAXIMUM JOINT DEFLECTIONS TO BE IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS.
- ${\tt 23.\;EACH\;PROPERTY\;SERVICE\;CONNECTION\;IS\;TO\;BE\;FLUSHED\;AND\;LOCKED\;FOLLOWING\;PRESSURE\;TESTING.}\\$
- 24. SCOUR VALVES TO BE CONNECTED TO LOCAL STORMWATER SYSTEM.
- 25. POTABLE WATER IS TO BE UTILISED FOR FIRE FIGHTING PURPOSES.
- 26. HYDRANT SURFACE BOXES TO BE YELLOW (POTABLE WATER) AND LILAC (RECYCLED WATER).

PRESSURE SEWER NOTES:

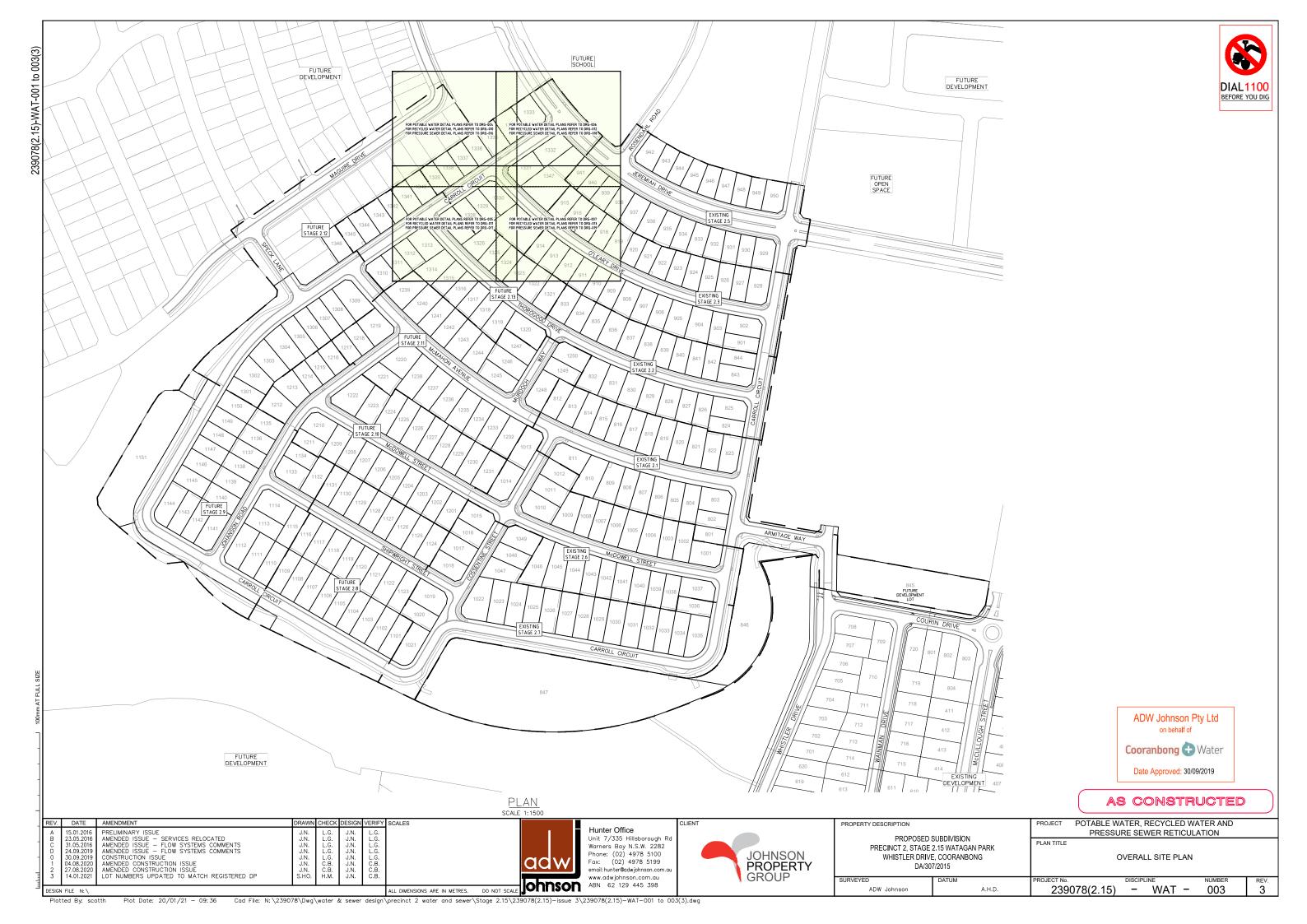
- 1. ALL WORKS SHALL BE IN ACCORDANCE WITH BUT NOT LIMITED TO PRESSURE SEWER CODE OF AUSTRALIA WSA 07-2007, POLYETHYLENE PIPELINE CODE WSA 01-2004 AND FLOW SYSTEMS SUPPLEMENTARY MANUAL TO WSAA.
- 2. WORKS MUST BE CONSTRUCTED IN ACCORDANCE WITH THE DESIGN DRAWINGS AND FLOW SYSTEMS STANDARD DRAWINGS REFERENCED IN FLOW SYSTEMS SUPPLEMENTARY MANUAL TO WSAA (TABLE 4.1). REFER TO https://askus.flowsystems.com.au/hc/en-us/articles/210615353--Standard-Drawings FOR LATEST VERSIONS OF FLOW SYSTEMS STANDARD DRAWINGS.
- 3. PRESSURE SEWER MAINS SHALL BE BLACK POLYETHYLENE (PE100 PN16) WITH A CREAM STRIPE AS PER WSA
- 4. ALL POLYETHYLENE MAINS SHALL BE JOINED USING ELECTROFUSION JOINTING TECHNIQUES IN ACCORDANCE WITH MANUFACTURERS REQUIREMENTS.
- 5. ALL MAINS LAID IN TRAFFICABLE CARRIAGEWAYS SHALL BE BACKFILLED WITH 16:1 STABILISED SAND CEMENT TO SUBGRADE LEVEL ONLY.
- 6. ALL BENDS SHALL BE ELECTROFUSION SWEEP BENDS (FABRICATED BENDS SHALL NOT BE USED).
- 7. ALL HOUSE SERVICE LATERALS SHALL BE DN40 PE 100 PN16.
- 8. DETECTABLE MARKING TAPE SHALL BE LAID ON TOP OF THE PIPE EMBEDMENT MATERIAL BEFORE BACKFILLING AND CONNECTED TO SURFACE FITTINGS.
- 9. ALL SURFACE FITTINGS LOCATED IN TRAFFICABLE AREAS (ROADWAYS, PATHS) SHALL HAVE HEAVY DUTY SURROUNDS INSTALLED.
- 10. ALL PRESSURE SEWER VALVES SHALL BE RESILIENT SEATED SLUICE GATE VALVES (CLOCKWISE CLOSING) AND SHALL BE RESTRAINED IN ACCORDANCE WITH WAT-1207
- 11. ALL MAINS MUST BE TESTED (AS DIRECTED BY THE COORANBONG WATER REPRESENTATIVE) TO MEET CERTIFYING AUTHORITIES STANDARDS. ALL PRESSURE SEWER MAINS AND JOINTS TO BE TESTED TO 1600kPc
- 12. FOR LOTS WITH TANKS IN THE REAR.
 - PROVIDE #25 HEAVY DUTY ELECTRICAL CONDUIT (WITH DRAW WIRE) INSTALLED FROM THE COLLECTION TANK TO THE RECYCLED WATER METER.
 - PROVIDE \$25 HEAVY DUTY ELECTRICAL CONDUIT (WITH DRAW WIRE) INSTALLED FROM THE COLLECTION
 TANK TO THE POTABLE WATER METER.

CONDUITS SHALL BE LAID IN COMMON TRENCH WITH PRESSURE SEWER PIPEWORK (REFER TO TYPICAL CONNECTION DETAIL, DRG-030).

- 12. PRESSURE TRANSMITTER TO BE INSTALLED AT SPECIFIC POINTS SHALL BE MEASUREX MRB21 GENERAL PURPOSE TRANSMITTER WITH MICROSPIDER LOGGING TELEMETRY AND ALARM AS PER COORANBONG WATER REQUIREMENTS.
- 13. LOCALISED DEEPENING OF THE MAIN MAY BE REQUIRED TO FACILITATE AIR VALVE INSTALLATION. CONTRACTOR IS TO ENSURE THAT AIR VALVE OFFTAKE IS LOCATED AT A HIGH POINT IN THE MAIN. (i.e. THE MAIN SHALL GRADE
- 14. FOR EMBEDMENT AND TRENCHFILL COMPACTION TEST REQUIREMENTS REFER TO THE PRESSURE SEWER CODE OF (REFER TO NOTE 9, POTABLE WATER AND RECYCLED WATER NOTES).
- 15. ROPE OFF ALL PRESSURE SEWER UNITS AND FLUSHING POINTS TO LIMIT DAMAGE DURING CONSTRUCTION

ADW Johnson Pty Ltd on behalf of Cooranbong Water Date Approved: 30/09/2019

- RE\	V. DATE 15.01.2016	AMENDMENT PRELIMINARY ISSUE	DRAWN CHECK DESIGN VERIFY J.N. L.G. J.N. L.G.	SCALES	Hunter Office	CLIENT	PROPERTY DESCRIPTION PROPOSED SUBDIVISION PRECINCT 2, STAGE 2.15 WATAGAN PARK WHISTLER DRIVE, COORANBONG DA/307/2015		PROJECT POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION			
- CD 0 1 2 7	31.05.2016 24.09.2019 30.09.2019 04.08.2020 27.08.2020	AMENDED CONSTRUCTION ISSUE	J.N. L.G. J.N. L.G. J.N. L.G. J.N. L.G. J.N. L.G. J.N. L.G. J.N. L.G. J.N. L.G. J.N. C.B. J.N. C.B. J.N. C.B. J.N. C.B. J.N. C.B. J.N. C.B.	adw	Unit 7/335 Hillsborough Rd Warners Bay N.S.W. 2282 Phone: (02) 4978 5100 Fax: (02) 4978 5199 email:hunter@adwjohnson.com.au	JOHNSON PROPERTY			PLAN TITLE	GENERAL NOTES		
DES	IGN FILE N:\	LOT NUMBERS UPDATED TO MATCH REGISTERED UP			www.adwjohnson.com.au ABN 62 129 445 398	GROUP	SURVEYED ADW Johnson	DATUM A.H.D.	PROJECT No. 239078(2.15)		NUMBER REV.	



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STAGE 2.12

1338

PLAN SCALE 1:250

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SV.

-- W---- W-- PVC-M POTABLE WATER RETICULATION PWS — POTABLE WATER PROPERTY SERVICE PVC-M RECYCLED WATER RETICULATION RECYCLED WATER PROPERTY SERVICE ---- SP---- SP-- PE PRESSURE SEWER RETICULATION ----- T----- T----- TELSTRA ----- E ----- E ----- E -- UNDERGROUND POWER ____ S/W ____ S/W ____ STORMWATER PIPEWORK

HYD. HYDRANT FL HYD. FLUSHING HYDRANT

PROPERTY SERVICE CONNECTION

STOP VALVE

EXISTING PROPERTY SERVICE CONNECTION

LAY WATER MAIN OVER STORMWATER PIPE (300mm MIN. VERTICAL CLEARANCE) - REFER TO WAT-1255-H LIMIT OF SUBDIVISION WORKS

POTABLE WATER PROPERTY SERVICE CONNECTIONS

TOTAL 17 CONNECTIONS

SINGLE SERVICES IN ACCORDANCE WITH WAT-1106-V

-2 x SHORT SIDE

-1 x LONG SIDE

SPLIT SERVICES IN ACCORDANCE WITH WAT-1107-V

-2 x SHORT SIDE

-5 x LONG SIDE

PIPE	SIZE	(mm)	PIPE	MATER	IAL	TOTAL	LENGTH	(m)
DN100			PV	C-M PN1	6		262	

- NOTES:
 1. FOR RECYCLED WATER PIPEWORK DETAIL PLANS REFER TO DRGS—010 TO 013.
 2. FOR PRESSURE SEWER PIPEWORK DETAIL PLANS REFER TO DRGS—016 TO 019.
 3. FOR TYPICAL SERVICE CONNECTION DETAILS REFER TO DRG—024.

ADW Johnson Pty Ltd on behalf of

Cooranbong 🔂 Water

Date Approved: 30/09/2019

AS CONSTRUCTED

B 23.05.201 C 31.05.201 D 24.09.201 O 30.09.201 1 04.08.202 2 27.08.202	16 PRELIMINARY ISSUE 16 AMENDED ISSUE — SERVICES RELOCATED 16 AMENDED ISSUE — FLOW SYSTEMS COMMENTS 19 AMENDED ISSUE — FLOW SYSTEMS COMMENTS 19 CONSTRUCTION ISSUE	DRAWN CHECK DESIGN VERIFY J.N. L.G. J.N. C.B. J.N. C.B. J.N. C.B. J.N. C.B. S.HO. H.M. J.N. C.B.	0 5 10 A1 / A3 1:250 / 1:500	adw	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	JOHNSON PROPERTY GROUP	PRECINCT 2, STAGE WHISTLER DRI\ DA/3	SUBDIVISION 5 2.15 WATAGAN PARK (E, COORANBONG 07/2015	PRESSU PLAN TITLE	ATER, RECYCLED W. RE SEWER RETICUL BLE WATER DETAIL F - SHEET 1	ATION PLAN	
DESIGN FILE N:\		3.110. 11.W. 0.IV. 0.D.	ALL DIMENSIONS ARE IN METRES. DO NOT SCALE	Johnson	www.adwjohnson.com.au ABN 62 129 445 398	GROUP	SURVEYED ADW Johnson	DATUM A.H.D.	PROJECT No. 239078(2.15)	- WAT -	NUMBER 004	REV.

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1337

REV. DATE AMENDMENT

15.01.2016 23.05.2016 23.05.2016 24.09.2019 30.09.2019 04.08.2020 27.08.2020 14.01.2021

AMENDMENT

PRELIMINARY ISSUE

AMENDED ISSUE — SERVICES RELOCATED

AMENDED ISSUE — FLOW SYSTEMS COMMENTS

AMENDED ISSUE — FLOW SYSTEMS COMMENTS

CONSTRUCTION ISSUE

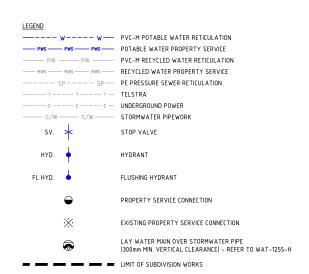
AMENDED CONSTRUCTION ISSUE

AMENDED CONSTRUCTION ISSUE

LOT NUMBERS UPDATED TO MATCH REGISTERED DP







-2 x SHORT SIDE -5 x LONG SIDE

	P0 ⁻	DATA	
PIPE	SIZE (mm)	PIPE MATERIAL	TOTAL LENGTH (m)
	DN100	PVC-M PN16	262

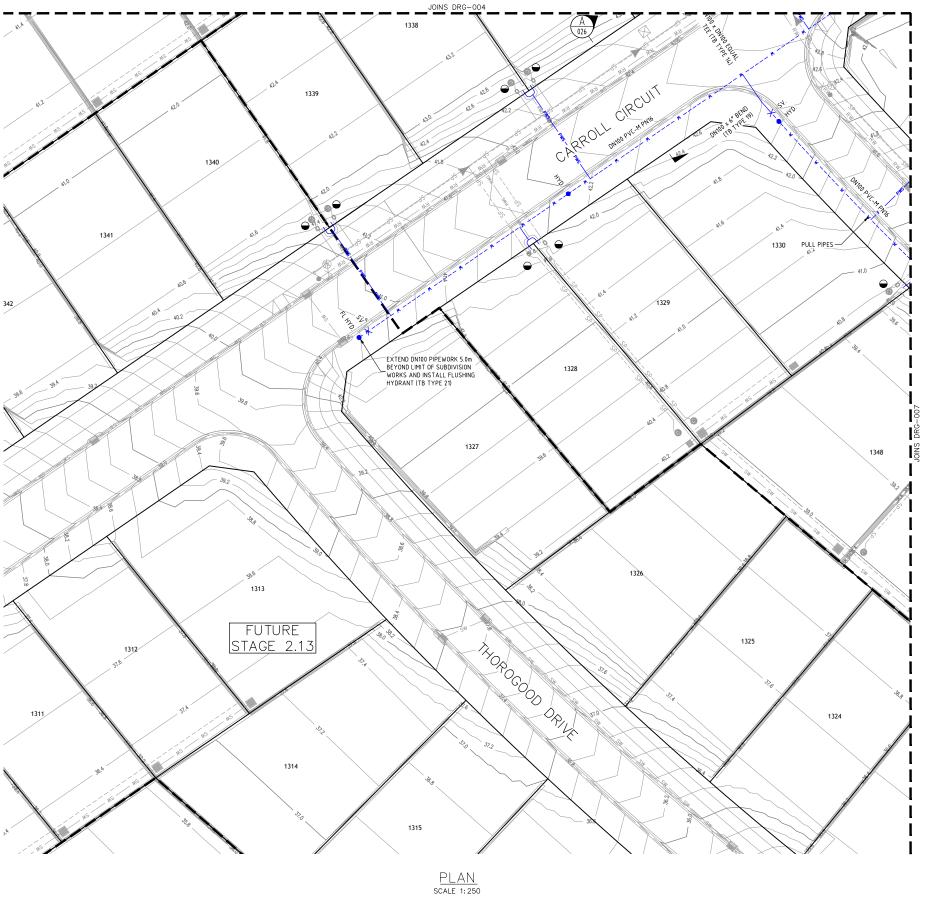
- NOTES:
 1. FOR RECYCLED WATER PIPEWORK DETAIL PLANS REFER TO DRSS—010 TO 013.
 2. FOR PRESSURE SEWER PIPEWORK DETAIL PLANS REFER TO DRGS—016 TO 019.
 3. FOR TYPICAL SERVICE CONNECTION DETAILS REFER TO DRG—024.

ADW Johnson Pty Ltd on behalf of Cooranbong Water

Date Approved: 30/09/2019

AS CONSTRUCTED

	PROPERTY DESCRIPTION		PROJECT	POTABLE WATER, RECYCLED WATER AND			
	DEODOCED	OLIDDIMICIONI	PRESSURE SEWER RETICULATION				
		SUBDIVISION 2.15 WATAGAN PARK	PLAN TITLE				
JOHNSON		E. COORANBONG	POTABLE WATER DETAIL PLAN				
PROPERTY DA/307/2015		'		- SHEET 2			
GROUP							
GROOF	SURVEYED	DATUM	PROJECT No.	DISCIPLINE NUMBER	REV.		
	ADW Johnson	A.H.D.	239	078(2.15) - WAT - 005	3		



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

DRAWN CHECK DESIGN VERIFY SCALES

L.G. L.G. L.G. C.B. C.B. H.M

CLIENT

Hunter Office Unit 7/335 Hillsborough Rd Warners Bay N.S.W. 2282 Phone: (02) 4978 5100

(02) 4978 5199

email: hunter@adwjohnson.com.au

www.adwjohnson.com.au

ABN 62 129 445 398

adw

EXTEND DN100 PIPEWORK 2.0m

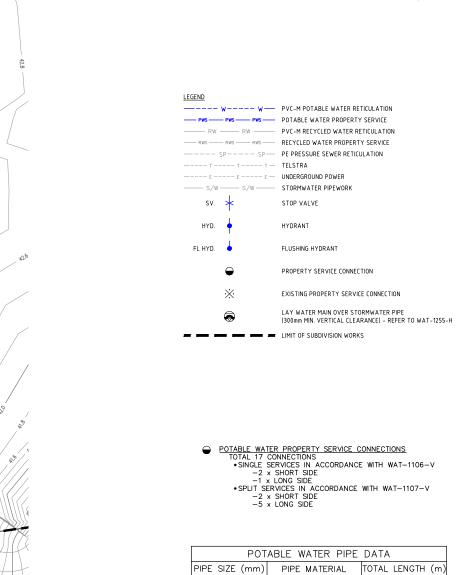
BEYOND LIMIT OF SUBDIVISION

WORKS AND INSTALL FLUSHING

HYDRANT (TB TYPE 21)







POT	DATA	
PIPE SIZE (mm)	PIPE MATERIAL	TOTAL LENGTH (m)
DN100	PVC-M PN16	262

- NOTES:
 1. FOR RECYCLED WATER PIPEWORK DETAIL PLANS REFER TO DRGS—010 TO 013.
 2. FOR PRESSURE SEWER PIPEWORK DETAIL PLANS REFER TO DRGS—016 TO 019.
 3. FOR TYPICAL SERVICE CONNECTION DETAILS REFER TO DRG—024.

ADW Johnson Pty Ltd on behalf of Cooranbong 🔂 Water

AS CONSTRUCTED

Date Approved: 30/09/2019

RE	V. DATE	AMENDMENT	DRAWN CHECK DESIGN VERIF	Y SCALES		CLIENT	PROPERTY DESCRIPTION	PROJECT POTABLE WATER, RECYCLED WATER AND
4	15.01.2016 23.05.2016	PRELIMINARY ISSUE AMENDED ISSUE — SERVICES RELOCATED	J.N. L.G. J.N. L.G.	0 5 10 A1 / A3	Hunter Office		PROPOSED SUBDIVISION	PRESSURE SEWER RETICULATION
- 0	31.05.2016 24.09.2019 30.09.2019 04.08.2020 27.08.2020 14.01.2021	AMENDED ISSUE - FLOW SYSTEMS COMMENTS AMENDED ISSUE - FLOW SYSTEMS COMMENTS CONSTRUCTION ISSUE AMENDED CONSTRUCTION ISSUE AMENDED CONSTRUCTION ISSUE	J.N. L.G. J.N. L.G. J.N. L.G. J.N. L.G. J.N. L.G. J.N. L.G. J.N. C.B. J.N. C.B. J.N. C.B. J.N. C.B. S.HO. H.M. J.N. C.B.	1:250 / 1:500	Unit 7/335 Hillsborough Rd Warners Bay N.S.W. 2282 Phone: (02) 4978 5100 Fax: (02) 4978 5199 email:hunter@adwjohnson.com.au	JOHNSON PROPERTY	PROFUSED SUBDIVISION PRECINCT 2, STAGE 2.15 WATAGAN PARK WHISTLER DRIVE, COORANBONG DA/307/2015	PLAN TITLE POTABLE WATER DETAIL PLAN - SHEET 3
DE	SIGN FILE N:\	LOT NUMBERS OFDATED TO MATCH REGISTERED DP	S.HO. H.M. J.N. C.B.	ALL DIMENSIONS ARE IN METRES. DO NOT SCALE	www.adwjohnson.com.au ABN 62 129 445 398	GROUP	SURVEYED DATUM ADW Johnson A.H.D.	PROJECT No. DISCIPLINE NUMBER REV. 239078(2.15) - WAT - 006 3

EXISTING

STAGE 2.5

PULL PIPES

REMOVE EXISTING FLUSHING HYDRANT AND THRUST BLOCK AND CONNECT TO EXISTING DN100 RETICULATION PIPEWORK

1332

1347

JOINS DRG-007

PLAN

SCALE 1:250

FUTURE

SCHOOL

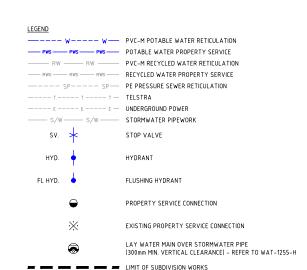
1330

PULL PIPES —

1324







POTABLE WATER PROPERTY SERVICE CONNECTIONS
TOTAL 17 CONNECTIONS
SINGLE SERVICES IN ACCORDANCE WITH WAT-1106-V
-2 x SHORT SIDE
-1 x LONG SIDE
SPLIT SERVICES IN ACCORDANCE WITH WAT-1107-V

-2 x SHORT SIDE -5 x LONG SIDE

POT	DATA	
PIPE SIZE (mm)	PIPE MATERIAL	TOTAL LENGTH (m)
DN100	PVC-M PN16	262

NOTES:
1. FOR RECYCLED WATER PIPEWORK DETAIL PLANS REFER TO DRSS—010 TO 013.
2. FOR PRESSURE SEWER PIPEWORK DETAIL PLANS REFER TO DRGS—016 TO 019.
3. FOR TYPICAL SERVICE CONNECTION DETAILS REFER TO DRG—024.





Date Approved: 30/09/2019

AS CONSTRUCTED

REV. DATE AMENDMENT PROJECT POTABLE WATER, RECYCLED WATER AND DRAWN CHECK DESIGN VERIFY SCALES CLIENT PROPERTY DESCRIPTION PRELIMINARY ISSUE

AMENDED ISSUE — SERVICES RELOCATED

AMENDED ISSUE — FLOW SYSTEMS COMMENTS

AMENDED ISSUE — FLOW SYSTEMS COMMENTS

CONSTRUCTION ISSUE

AMENDED CONSTRUCTION ISSUE

AMENDED CONSTRUCTION ISSUE

LOT NUMBERS UPDATED TO MATCH REGISTERED DP Hunter Office 15.01.2016 23.05.2016 31.05.2016 24.09.2019 30.09.2019 PRESSURE SEWER RETICULATION Unit 7/335 Hillsborough Rd PROPOSED SUBDIVISION PLAN TITLE Warners Bay N.S.W. 2282 PRECINCT 2, STAGE 2.15 WATAGAN PARK POTABLE WATER DETAIL PLAN Phone: (02) 4978 5100 **JOHNSON** WHISTLER DRIVE, COORANBONG (02) 4978 5199 - SHEET 4 04.08.2020 **PROPERTY** DA/307/2015 27.08.2020 14.01.2021 email: hunter@adwjohnson.com.au www.adwjohnson.com.au GROUP Johnson REV. ABN 62 129 445 398 239078(2.15) ADW Johnson A.H.D. - WAT -007 ALL DIMENSIONS ARE IN METRES. DO NOT SCALI ESIGN FILE N:\

EXISTING STAGE 2.5

915

916

917

O.V.

EXISTING STAGE 2.3 939

918

Cad File: N:\239078\Dwg\water & sewer design\precinct 2 water and sewer\Stage 2.15\239078(2.15)-issue 3\239078(2.15)-WAT-004 to 009(3).dwg Plot Date: 20/01/21 - 09:39

914

913

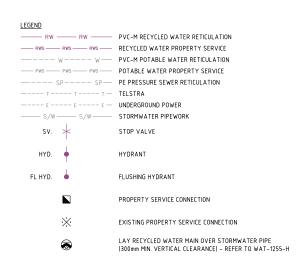
PLAN

SCALE 1: 250

REMOVE EXISTING FLUSHING HYDRANT AND THRUST BLOCK
AND CONNECT TO EXISTING
DN100 RETICULATION PIPEWORK DEVELOPMENT







■ LIMIT OF SUBDIVISION WORKS

RECYCLED WATER PROPERTY SERVICE CONNECTIONS
TOTAL 17 CONNECTIONS

• SINGLE SERVICES IN ACCORDANCE WITH WAT-1106-V

-1 x SHORT SIDE

-2 x LONG SIDE

• SPLIT SERVICES IN ACCORDANCE WITH WAT-1107-V

-5 x SHORT SIDE

-2 x LONG SIDE

	F	REC	CLED	WATER	PIPE	DATA	١	
PIPE	SIZE (r	mm)	PIPE	MATERI	AL	TOTAL	LENGTH	(m)
	DN100		PV	C-M PN16	5		282	

- NOTES:

 1. FOR POTABLE WATER PIPEWORK DETAIL PLANS REFER TO DRGS-004 TO 007.

 2. FOR PRESSURE SEWER PIPEWORK DETAIL PLANS REFER TO DRGS-016 TO 019.

 3. FOR TYPICAL SERVICE CONNECTION DETAILS REFER TO DRG-024.

ADW Johnson Pty Ltd on behalf of Cooranbong 🔂 Water



Date Approved: 30/09/2019

AS CONSTRUCTED

- F	A 15.0)1.2016	AMENDMENT PRELIMINARY ISSUE		CHECK L.G.	DESIGN J.N.	VERIFY L.G.	SCALES 0 5 10 A1 /	A3	Hunter Office	CLIENT	PROPERTY DESCRIPTION	oupply delegy		VATER, RECYCLED V URE SEWER RETICU		
	B 23.05 C 31.05 D 24.05 O 30.05 1 04.08 2 27.08	05.2016 09.2019 09.2019 08.2020 08.2020	AMENDED ISSUE - SERVICES RELOCATED AMENDED ISSUE - FLOW SYSTEMS COMMENTS AMENDED ISSUE - FLOW SYSTEMS COMMENTS CONSTRUCTION ISSUE AMENDED CONSTRUCTION ISSUE AMENDED CONSTRUCTION ISSUE AMENDED CONSTRUCTION ISSUE LOT NUMBERS UPDATED TO MATCH REGISTERED DP	J.N. J.N. J.N. J.N.	L.G. L.G. L.G. C.B. C.B.	J.N. J.N. J.N.	L.G. L.G. L.G. C.B. C.B.	1:250/1	1:500	Unit 7/335 Hillsborough Rd Warners Bay N.S.W. 2282 Phone: (02) 4978 5100 Fax: (02) 4978 5199 email:hunter@adwjohnson.com.au	JOHNSON PROPERTY	PRECINCT 2, STAGE WHISTLER DRIV	SUBDIVISION : 2.15 WATAGAN PARK /E, COORANBONG 07/2015	PLAN TITLE RECY	CLED WATER DETAIL - SHEET 1	_ PLAN	
▋	SIGN FILE		LOT NUMBERS UPDATED TO MATCH REGISTERED DP	S.HO.	н.м.	J.N.	C.B.	ALL DIMENSIONS ARE IN METRES. DO	NOT SCALE	www.adwjohnson.com.au ABN 62 129 445 398	GROUP	SURVEYED ADW Johnson	DATUM A.H.D.	PROJECT No. 239078(2.15)	DISCIPLINE - WAT -	NUMBER 010	REV.

DN100 x DN100 EQUAL
TEE (TB TYPE 14)

1335

1339

FUTURÉ

STAGE 2.12

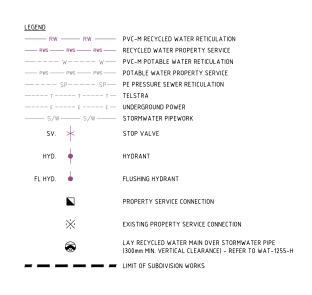
1338

PLAN SCALE 1:250

342







RECYCLED WATER PROPERTY SERVICE CONNECTIONS
TOTAL 17 CONNECTIONS
SINGLE SERVICES IN ACCORDANCE WITH WAT-1106-V
-1 x SHORT SIDE
-2 x LONG SIDE
SPLIT SERVICES IN ACCORDANCE WITH WAT-1107-V
-5 x SHORT SIDE
-2 x LONG SIDE

RECYCLED WATER PIPE DATA

TOTAL LENGTH (m)

282

PIPE SIZE (mm)

DN100

PIPE MATERIAL

PVC-M PN16

NOTES:

1. FOR POTABLE WATER PIPEWORK DETAIL PLANS REFER TO DRGS-004 TO 007.

2. FOR PRESSURE SEWER PIPEWORK DETAIL PLANS REFER TO DRGS-016 TO 019.

3. FOR TYPICAL SERVICE CONNECTION DETAILS REFER TO DRG-024.

ADW Johnson Pty Ltd on behalf of

Cooranbong Water

Date Approved: 30/09/2019

AS CONSTRUCTED

PROJECT POTABLE WATER, RECYCLED WATER AND REV. DATE AMENDMENT DRAWN CHECK DESIGN VERIFY SCALES CLIENT PROPERTY DESCRIPTION PRELIMINARY ISSUE

AMENDED ISSUE — SERVICES RELOCATED

AMENDED ISSUE — FLOW SYSTEMS COMMENTS

AMENDED ISSUE — FLOW SYSTEMS COMMENTS

CONSTRUCTION ISSUE

AMENDED CONSTRUCTION ISSUE

AMENDED CONSTRUCTION ISSUE

LOT NUMBERS UPDATED TO MATCH REGISTERED DP Hunter Office 15.01.2016 23.05.2016 31.05.2016 24.09.2019 30.09.2019 PRESSURE SEWER RETICULATION Unit 7/335 Hillsborough Rd PROPOSED SUBDIVISION PLAN TITLE Warners Bay N.S.W. 2282 PRECINCT 2, STAGE 2.15 WATAGAN PARK RECYCLED WATER DETAIL PLAN Phone: (02) 4978 5100 **JOHNSON** WHISTLER DRIVE, COORANBONG (02) 4978 5199 - SHEET 2 04.08.2020 **PROPERTY** DA/307/2015 27.08.2020 14.01.2021 email: hunter@adwjohnson.com.au www.adwjohnson.com.au GROUP Johnson REV. ABN 62 129 445 398 239078(2.15) ADW Johnson A.H.D. - WAT -011 ALL DIMENSIONS ARE IN METRES. DO NOT SCALI ESIGN FILE N:\

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- 14000 CO

1315

PLAN

SCALE 1: 250

Cad File: N:\239078\Dwg\water & sewer design\precinct 2 water and sewer\Stage 2.15\239078(2.15)-issue 3\239078(2.15)-WAT-010 to 015(3).dwg Plot Date: 20/01/21 - 09:41

1339

1340

EXTEND DN100 PIPEWORK 5.0m BEYOND LIMIT OF SUBDIVISION WORKS AND INSTALL FLUSHING-

1313

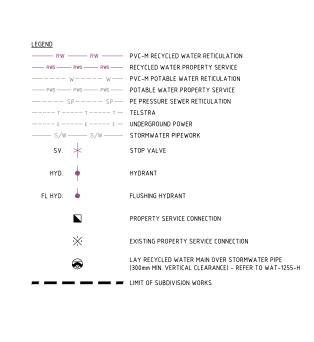
1312

FUTURE

STAGE 2.13







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

RECYCLED WATER PROPERTY SERVICE CONNECTIONS
TOTAL 17 CONNECTIONS
SINGLE SERVICES IN ACCORDANCE WITH WAT-1106-V
-1 x SHORT SIDE
-2 x LONG SIDE
SPLIT SERVICES IN ACCORDANCE WITH WAT-1107-V
-5 x SHORT SIDE
-2 x LONG SIDE

- NOTES:

 1. FOR POTABLE WATER PIPEWORK DETAIL PLANS REFER TO DRGS-004 TO 007.

 2. FOR PRESSURE SEWER PIPEWORK DETAIL PLANS REFER TO DRGS-016 TO 019.

 3. FOR TYPICAL SERVICE CONNECTION DETAILS REFER TO DRG-024.

ADW Johnson Pty Ltd on behalf of Cooranbong Water



Date Approved: 30/09/2019

AS CONSTRUCTED

PROJECT POTABLE WATER, RECYCLED WATER AND REV. DATE AMENDMENT DRAWN CHECK DESIGN VERIFY SCALES CLIENT PROPERTY DESCRIPTION PRELIMINARY ISSUE

AMENDED ISSUE — SERVICES RELOCATED

AMENDED ISSUE — FLOW SYSTEMS COMMENTS

AMENDED ISSUE — FLOW SYSTEMS COMMENTS

CONSTRUCTION ISSUE

AMENDED CONSTRUCTION ISSUE

AMENDED CONSTRUCTION ISSUE

LOT NUMBERS UPDATED TO MATCH REGISTERED DP 15.01.2016 23.05.2016 31.05.2016 24.09.2019 30.09.2019 Hunter Office Unit 7/335 Hillsborough Rd PRESSURE SEWER RETICULATION PROPOSED SUBDIVISION PLAN TITLE Warners Bay N.S.W. 2282 Phone: (02) 4978 5100 PRECINCT 2, STAGE 2.15 WATAGAN PARK RECYCLED WATER DETAIL PLAN **JOHNSON** WHISTLER DRIVE, COORANBONG (02) 4978 5199 - SHEET 3 PROPERTY GROUP 04.08.2020 DA/307/2015 27.08.2020 14.01.2021 email: hunter@adwjohnson.com.au www.adwjohnson.com.au Johnson REV. ABN 62 129 445 398 239078(2.15) ADW Johnson A.H.D. - WAT -012 ALL DIMENSIONS ARE IN METRES. DO NOT SCALI ESIGN FILE N:\

941

FUTURE

SCHOOL

REMOVE EXISTING FLUSHING HYDRANT AND THRUST BLOCK AND CONNECT TO EXISTING DN100 RETICULATION PIPEWORK

EXISTING

STAGE

PULL PIPES

Cad File: N:\239078\Dwg\water & sewer design\precinct 2 water and sewer\Stage 2.15\239078(2.15)-issue 3\239078(2.15)-WAT-010 to 015(3).dwg Plot Date: 20/01/21 - 09:41

1332

1347

JOINS DRG-013

PLAN SCALE 1:250

EXTEND DN100 PIPEWORK 2.0m BEYOND LIMIT OF SUBDIVISION WORKS AND INSTALL FLUSHING HYDRANT (TB TYPE 21)

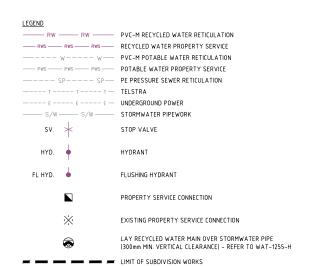
B 026

1330

1324







RECYCLED WATER PROPERTY SERVICE CONNECTIONS
TOTAL 17 CONNECTIONS
SINGLE SERVICES IN ACCORDANCE WITH WAT-1106-V
-1 x SHORT SIDE
-2 x LONG SIDE
SPLIT SERVICES IN ACCORDANCE WITH WAT-1107-V
-5 x SHORT SIDE
-2 x LONG SIDE

RECY	CLED WATER PIPE	DATA
PIPE SIZE (mm)	PIPE MATERIAL	TOTAL LENGTH (m)
DN100	PVC-M PN16	282

- NOTES:

 1. FOR POTABLE WATER PIPEWORK DETAIL PLANS REFER TO DRGS-004 TO 007.

 2. FOR PRESSURE SEWER PIPEWORK DETAIL PLANS REFER TO DRGS-016 TO 019.

 3. FOR TYPICAL SERVICE CONNECTION DETAILS REFER TO DRG-024.

ADW Johnson Pty Ltd on behalf of

Cooranbong Water

Date Approved: 30/09/2019

AS CONSTRUCTED

REV. DATE AMENDMENT POTABLE WATER, RECYCLED WATER AND CLIENT PROPERTY DESCRIPTION PROJECT SCALES PRELIMINARY ISSUE

AMENDED ISSUE — SERVICES RELOCATED

AMENDED ISSUE — FLOW SYSTEMS COMMENTS

AMENDED ISSUE — FLOW SYSTEMS COMMENTS

CONSTRUCTION ISSUE

AMENDED CONSTRUCTION ISSUE

AMENDED CONSTRUCTION ISSUE

LOT NUMBERS UPDATED TO MATCH REGISTERED DP 15.01.2016 23.05.2016 31.05.2016 24.09.2019 30.09.2019 Hunter Office PRESSURE SEWER RETICULATION Unit 7/335 Hillsborough Rd PROPOSED SUBDIVISION PLAN TITLE Warners Bay N.S.W. 2282 Phone: (02) 4978 5100 PRECINCT 2, STAGE 2.15 WATAGAN PARK RECYCLED WATER DETAIL PLAN **JOHNSON** WHISTLER DRIVE, COORANBONG (02) 4978 5199 - SHEET 4 04.08.2020 **PROPERTY** DA/307/2015 27.08.2020 14.01.2021 email: hunter@adwjohnson.com.au www.adwjohnson.com.au GROUP Johnson REV. ABN 62 129 445 398 239078(2.15) ADW Johnson A.H.D. - WAT -013 ALL DIMENSIONS ARE IN METRES. DO NOT SCALI ESIGN FILE N:\

EXISTING STAGE 2.5

939

918

Cad File: N:\239078\Dwg\water & sewer design\precinct 2 water and sewer\Stage 2.15\239078(2.15)-issue 3\239078(2.15)-WAT-010 to 015(3).dwg Plot Date: 20/01/21 - 09:41

914

913

PLAN

SCALE 1: 250

PULL PIPES

REMOVE EXISTING FLUSHING HYDRANT AND THRUST BLOCK AND CONNECT TO EXISTING DN100 RETICULATION PIPEWORK

915

916

917

O.V.

EXISTING STAGE 2.3 DEVELOPMENT







---- SP---- SP-- PE PRESSURE SEWER RETICULATION ---- W --- PVC-M POTABLE WATER RETICULATION POTABLE WATER PROPERTY SERVICE PVC-M RECYCLED WATER RETICULATION RECYCLED WATER PROPERTY SERVICE TELSTRA UNDERGROUND POWER STORMWATER PIPEWORK ISOLATION VALVE IV. (N.C.) ISOLATION VALVE (NORMALLY CLOSED) FLUSHING POINT WASTEWATER COLLECTION TANK AND BOUNDARY KIT PRESSURE SEWER FLOW DIRECTION (SEE NOTE 7) PROPERTY SERVICE CONNECTION EXISTING PROPERTY SERVICE CONNECTION LAY PRESSURE SEWER MAIN UNDER STORMWATER PIPE (300mm MIN. VERTICAL CLEARANCE) - REFER TO WAT-1255-H LAY PRESSURE SEWER MAIN OVER STORMWATER PIPE (300mm MIN. VERTICAL CLEARANCE) - REFER TO WAT-1255-H

PRESSURE SEWER PROPERTY SERVICE CONNECTIONS

TOTAL 17 CONNECTIONS

◆ SINGLE SERVICES

-11 x SHORT SIDE

-6 x LONG SIDE

PRES	PRESSURE SEWER PIPE DATA										
PIPE SIZE (mm)	PIPE MATERIAL	TOTAL LENGTH (m)									
DN180	PE100 PN16	72									
DN90	PE100 PN16	81									
DN75	PE100 PN16	56									
DN63	PE100 PN16	67									

NOTES:

1. FOR POTABLE WATER PIPEWORK DETAIL PLANS REFER TO DRGS-004 TO 007.

2. FOR RECYCLED WATER PIPEWORK DETAIL PLANS REFER TO DRGS-010 AND 013.

3. FOR TYPICAL SERVICE CONNECTION DETAILS REFER TO DRG-024.

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 FITHINGS 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. DN280 AND DN250 PE PRESSURE SEWER MAIN TO BE LAID TO GRADE.



Date Approved: 30/09/2019

AS CONSTRUCTED

PROJECT POTABLE WATER, RECYCLED WATER AND REV. DATE AMENDMENT CLIENT SCALES PROPERTY DESCRIPTION PRELIMINARY ISSUE

AMENDED ISSUE — SERVICES RELOCATED

AMENDED ISSUE — FLOW SYSTEMS COMMENTS

AMENDED ISSUE — FLOW SYSTEMS COMMENTS

CONSTRUCTION ISSUE

AMENDED CONSTRUCTION ISSUE

AMENDED CONSTRUCTION ISSUE

LOT NUMBERS UPDATED TO MATCH REGISTERED DP Hunter Office 15.01.2016 23.05.2016 31.05.2016 PRESSURE SEWER RETICULATION PROPOSED SUBDIVISION Unit 7/335 Hillsborough Rd PLAN TITLE Warners Bay N.S.W. 2282 Phone: (02) 4978 5100 PRECINCT 2, STAGE 2.15 WATAGAN PARK 24.09.2019 30.09.2019 PRESSURE SEWER DETAIL PLAN **JOHNSON** WHISTLER DRIVE, COORANBONG (02) 4978 5199 - SHEET 1 aaw 04.08.2020 **PROPERTY** DA/307/2015 27.08.2020 14.01.2021 email: hunter@adwjohnson.com.au **GROUP** www.adwjohnson.com.au Johnson REV. ABN 62 129 445 398 239078(2.15) ADW Johnson A.H.D. - WAT -016 ALL DIMENSIONS ARE IN METRES. DO NOT SCALI ESIGN FILE N:\

1335

1336

1337

W MONITORING POIN

DN90 x DN63 REDUCING TEE

N90 x DN75 REDUCING COUPLER

CIRCUIT

1339

FUTURE

STAGE 2.12

1338

PLAN SCALE 1:250 EXTEND DNTS PIPEWORK 5.0m
BEYOND LIMIT OF SUBDIVISION
WORKS AND CAP

1313

1312

FUTURE

STAGE 2.13

1314

342







---- SP---- SP-- PE PRESSURE SEWER RETICULATION ---- W---- W--- PVC-M POTABLE WATER RETICULATION POTABLE WATER PROPERTY SERVICE PVC-M RECYCLED WATER RETICULATION RECYCLED WATER PROPERTY SERVICE TELSTRA UNDERGROUND POWER STORMWATER PIPEWORK ISOLATION VALVE IV. (N.C.) ISOLATION VALVE (NORMALLY CLOSED) FLUSHING POINT WASTEWATER COLLECTION TANK AND BOUNDARY KIT PRESSURE SEWER FLOW DIRECTION (SEE NOTE 7) PROPERTY SERVICE CONNECTION EXISTING PROPERTY SERVICE CONNECTION LAY PRESSURE SEWER MAIN UNDER STORMWATER PIPE (300mm MIN. VERTICAL CLEARANCE) - REFER TO WAT-1255-H LAY PRESSURE SEWER MAIN OVER STORMWATER PIPE (300mm MIN. VERTICAL CLEARANCE) - REFER TO WAT-1255-H

LIMIT OF SUBDIVISION WORKS

PRESSURE SEWER PROPERTY SERVICE CONNECTIONS

TOTAL 17 CONNECTIONS

SINGLE SERVICES

-11 x SHORT SIDE

-6 x LONG SIDE

PRES	SSURE SEWER PIPE	DATA
PIPE SIZE (mm)	PIPE MATERIAL	TOTAL LENGTH (m
DN180	PE100 PN16	72
DN90	PE100 PN16	81
DN75	PE100 PN16	56
DN63	PE100 PN16	67

- NOTES:

 1. FOR POTABLE WATER PIPEWORK DETAIL PLANS REFER TO DRGS-004 TO 007.

 2. FOR RECYCLED WATER PIPEWORK DETAIL PLANS REFER TO DRGS-010 AND 013.

 3. FOR TYPICAL SERVICE CONNECTION DETAILS REFER TO DRG-024.

 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 FITHINGS 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. DN280 AND DN250 PE PRESSURE SEWER MAIN TO BE LAID TO GRADE.



ADW Johnson Pty Ltd

Date Approved: 30/09/2019

AS CONSTRUCTED

REV	. DATE	AMENDMENT	DRAWN	CHECK	DESIGN	/ERIFY	SCALES			CLIENT	PROPERTY DESCRIPTION		PROJECT POTABLE W	ATER. RECYCLED W	ATER AND	
A	15.01.2016	PRELIMINARY ISSUE	J.N.	L.G.	J.N.	L.G.	0 5 10 A1 / A3	ſ	Hunter Office			OLIDDIMIOIONI		JRE SEWER RETICUL		
- C		AMENDED ISSUE — SERVICES RELOCATED AMENDED ISSUE — FLOW SYSTEMS COMMENTS	J.N. J.N.	L.G. L.G.	J.N. J.N.	L.G.	1:250 / 1:500		Unit 7/335 Hillsborough Rd Warners Bay N.S.W. 2282			SUBDIVISION 2.15 WATAGAN PARK	PLAN TITLE			
- 0	30.09.2019		J.N. J.N.	L.G. L.G.	J.N. J.N.	L.G.		$\alpha\alpha\omega$	Phone: (02) 4978 5100 Fax: (02) 4978 5199	JOHNSON		E, COORANBONG	PRESS	URE SEWER DETAIL - SHEET 2	PLAN	
1 2	04.08.2020 27.08.2020	AMENDED CONSTRUCTION ISSUE AMENDED CONSTRUCTION ISSUE	J.N. J.N.	C.B. C.B.	J.N. J.N.	C.B.		aaw	email: hunter@adwjohnson.com.au	 PROPERTY	DA/30	7/2015		- SHEET 2		
3	14.01.2021	LOT NUMBERS UPDATED TO MATCH REGISTERED DP	S.H0.	H.M.	J.N.	C.B.		labrean	www.adwjohnson.com.au	GROUP	SURVEYED	DATUM	PROJECT No.	DISCIPLINE	NUMBER	REV.
DESI	GN FILE N:\						ALL DIMENSIONS ARE IN METRES. DO NOT SCALE	 101 1201 	ABN 62 129 445 398		ADW Johnson	A.H.D.	239078(2.15)	– WAT –	017	3

1325

1324

1328

1327

- 12000 COO

1315

PLAN

SCALE 1: 250

B 026

TO KING

1332

1347

JOINS DRG-019

PLAN

SCALE 1: 250





LEGEND ---- SP---- SP-- PE PRESSURE SEWER RETICULATION W ----- W --- PVC-M POTABLE WATER RETICULATION POTABLE WATER PROPERTY SERVICE PVC-M RECYCLED WATER RETICULATION RECYCLED WATER PROPERTY SERVICE TELSTRA UNDERGROUND POWER STORMWATER PIPEWORK ISOLATION VALVE IV. (N.C.) ISOLATION VALVE (NORMALLY CLOSED) FLUSHING POINT WASTEWATER COLLECTION TANK AND BOUNDARY KIT PRESSURE SEWER FLOW DIRECTION (SEE NOTE 7) PROPERTY SERVICE CONNECTION EXISTING PROPERTY SERVICE CONNECTION LAY PRESSURE SEWER MAIN UNDER STORMWATER PIPE (300mm MIN. VERTICAL CLEARANCE) - REFER TO WAT-1255-H LAY PRESSURE SEWER MAIN OVER STORMWATER PIPE (300mm MIN. VERTICAL CLEARANCE) - REFER TO WAT-1255-H

PRESSURE SEWER PROPERTY SERVICE CONNECTIONS

TOTAL 17 CONNECTIONS

SINGLE SERVICES

-11 x SHORT SIDE

-6 x LONG SIDE

LIMIT OF SUBDIVISION WORKS

PRES	PRESSURE SEWER PIPE DATA										
PIPE SIZE (mm)	PIPE MATERIAL	TOTAL LENGTH (m)									
DN180	PE100 PN16	72									
DN90	PE100 PN16	81									
DN75	PE100 PN16	56									
DN63	PE100 PN16	67									

NOTES:

1. FOR POTABLE WATER PIPEWORK DETAIL PLANS REFER TO DRGS-004 TO 007.

2. FOR RECYCLED WATER PIPEWORK DETAIL PLANS REFER TO DRGS-010 AND 013.

3. FOR TYPICAL SERVICE CONNECTION DETAILS REFER TO DRG-024.

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 PITTINGS 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. DN280 AND DN250 PE PRESSURE SEWER MAIN TO BE LAID TO GRADE.



AS CONSTRUCTED

B 23.05.2016 C 31.05.2016 D 24.09.2019 0 30.09.2019 1 04.08.2020 2 27.08.2020	AMENDED CONSTRUCTION ISSUE	DRAWN CHECK J.N. L.G. J.N. L.G. J.N. L.G. J.N. L.G. J.N. C.B. J.N. C.B. S.HO. H.M.	J.N. L.G. J.N. L.G. J.N. L.G. J.N. L.G. J.N. C.B. J.N. C.B.	0 5 10 A1 / A3 1:250 / 1:500	adw	Hunter Office Unit 7/335 Hillsborough Rd Warners Bay N.S.W. 2282 Phone: (02) 4978 5190 Fax: (02) 4978 5199 email:hunter@adwjohnson.com.au	JOHNSON PROPERTY	PRECINCT 2, STAGE WHISTLER DRIV	SUBDIVISION 2.15 WATAGAN PARK E, COORANBONG 7/2015	PROJECT POTABLE WATER, REC PRESSURE SEWER PLAN TITLE PRESSURE SEWE - SHEE	RETICULATION R DETAIL PLAN	
DESIGN FILE N:\	LOT NUMBERS OFDATED TO MATCH REGISTERED DE	3.no. n.m.	J.N. C.B.	ALL DIMENSIONS ARE IN METRES. DO NOT SCALE	Johnson	www.adwjohnson.com.au ABN 62 129 445 398	GROUP	SURVEYED ADW Johnson	DATUM A.H.D.	PROJECT No. DISCIPLINE 239078(2.15) - W	/AT - 018	REV.

FUTURE

SCHOOL

REMOVE EXISTING FLUSHING
HYDRANT AND THRUST BLOCK
AND CONNECT TO EXISTING
DN180 PRESSURE SEWER MAIN

EXISTING

STAGE 2.5

-FLOW MONITORING POINT

-DN180 x DN90 REDUCING TEE

PULL PIPES

1330

1324

PULL PIPES

REMOVE EXISTING FLUSHING POINT AND CONNECT TO EXISTING DN63 PRESSURE SEWER PIPEWORK

914

913

PLAN

SCALE 1:250

915

916

917

O.V.

EXISTING STAGE 2.3







---- SP---- SP-- PE PRESSURE SEWER RETICULATION --- W---- W--- PVC-M POTABLE WATER RETICULATION POTABLE WATER PROPERTY SERVICE PVC-M RECYCLED WATER RETICULATION RECYCLED WATER PROPERTY SERVICE TELSTRA UNDERGROUND POWER STORMWATER PIPEWORK ISOLATION VALVE IV. (N.C.) ISOLATION VALVE (NORMALLY CLOSED) FLUSHING POINT WASTEWATER COLLECTION TANK AND BOUNDARY KIT PRESSURE SEWER FLOW DIRECTION (SEE NOTE 7) PROPERTY SERVICE CONNECTION EXISTING PROPERTY SERVICE CONNECTION LAY PRESSURE SEWER MAIN UNDER STORMWATER PIPE (300mm MIN. VERTICAL CLEARANCE) - REFER TO WAT-1255-H LAY PRESSURE SEWER MAIN OVER STORMWATER PIPE (300mm MIN. VERTICAL CLEARANCE) - REFER TO WAT-1255-H

PRESSURE SEWER PROPERTY SERVICE CONNECTIONS

TOTAL 17 CONNECTIONS

SINGLE SERVICES

-11 x SHORT SIDE

-6 x LONG SIDE

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8. DN280 AND DN250 PE PRESSURE SEWER MAIN TO BE LAID TO GRADE.

ADW Johnson Pty Ltd on behalf of Cooranbong Water

AS CONSTRUCTED

Date Approved: 30/09/2019

A 15.01.2016 PRELIMINARY ISSUE J.N. L.G. J.N. L.G. 0 5 10 A1 / A3	Hunter Office	PROPOSED SUBDIVISION	PROJECT POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION
B 23.05.2016 AMENDED ISSUE - SERVICES RELOCATED J.N. L.G. J.N. L.G	Unit 7/335 Hillsborough Rd Warners Bay N.S.W. 2282 Phone: (02) 4978 5100 Fax: (02) 4978 5199 email: hunter@adwjohnson.com.au	PROPOSED SUBDIVISION PRECINCT 2, STAGE 2.15 WATAGAN PARK WHISTLER DRIVE, COORANBONG DA/307/2015	PLAN TITLE PRESSURE SEWER DETAIL PLAN - SHEET 4
	www.adwjohnson.com.au ABN 62 129 445 398	SURVEYED DATUM ADW Johnson A.H.D.	PROJECT No. DISCIPLINE NUMBER REV. 239078(2.15) - WAT - 019 3

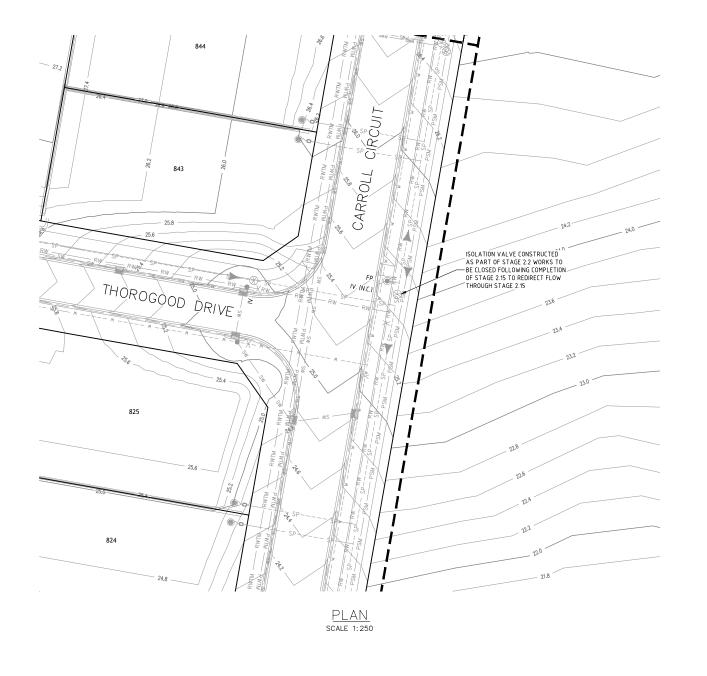
EXISTING

STAGE 2.5

939







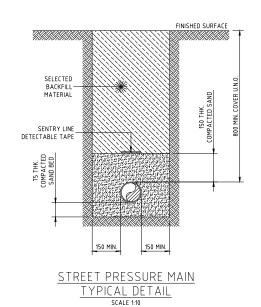


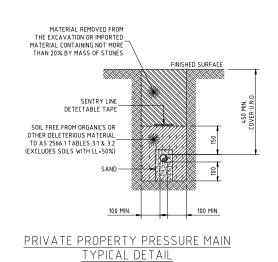
Date Approved: 30/09/2019

AS CONSTRUCTED

REV. DATE AMENDMENT A 15.01.2016 PRELIMINARY ISSUE B 23.05.2016 AMENDED ISSUE — SERVICES RELOCATED	J.N. L.G. J.N.	VERIFY SCALES L.G. 0 5 10	A1 / A3 Hunter Off	e CLIENT	PROPERTY DESCRIPTION	SUBDIVISION	PROJECT POTABLE WATER, RECYCLED WAT PRESSURE SEWER RETICULAT	
C 31.05.2016 AMENDED ISSUE - FLOW SYSTEMS COMMENTS D 24.09.2019 AMENDED ISSUE - FLOW SYSTEMS COMMENTS 30.09.2019 CONSTRUCTION ISSUE 1 04.08.2020 AMENDED CONSTRUCTION ISSUE 2 27.08.2020 AMENDED CONSTRUCTION ISSUE	J.N. L.G. J.N. J.N. L.G. J.N. J.N. L.G. J.N. J.N. L.G. J.N. J.N. C.B. J.N.	L.G. L.G. L.G. C.B. C.B.	Warners Bay Phone: (02) Fax: (02) email:hunter@	N.S.W. 2282 4978 5100 1978 5199 wighnson.com.gu	PRECINCT 2, STAGE	2.15 WATAGAN PARK E, COORANBONG	PLAN TITLE PRESSURE SEWER FLOW REDIRECTION DETAIL	
3 14.01.2021 LOT NUMBERS UPDATED TO MATCH REGISTERED DP	S.HO. H.M. J.N.	C.B. ALL DIMENSIONS ARE IN METRES.	DO NOT SCALE ONNSON ABN 62 12	1 01 10 01	SURVEYED ADW Johnson	DATUM A.H.D.	PROJECT No. DISCIPLINE 239078(2.15) - WAT -	NUMBER REV. 3







SCALE 1:10

NOTES:

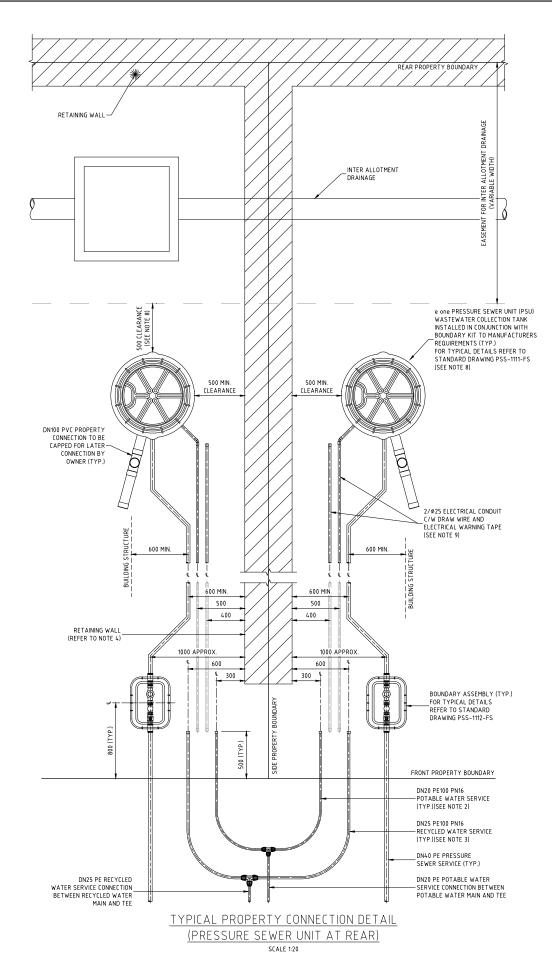
ALL POLYETHYLENE FITTINGS SHALL BE JOINED USING ELECTROFUSION JOINTING TECHNIQUES IN ACCORDANCE WITH MANUFACTURERS REQUIREMENTS. ROTATE BENDS AS NECESSARY.

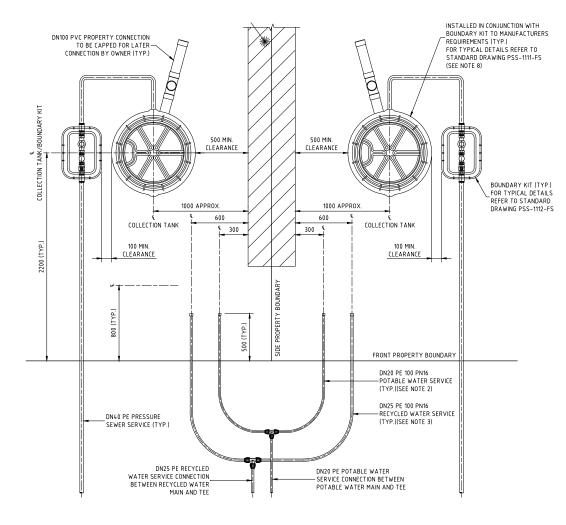
AS CONSTRUCTED

ADW Johnson Pty Ltd on behalf of Cooranbong Water Date Approved: 30/09/2019

DATE AMENDMENT CLIENT PROJECT POTABLE WATER, RECYCLED WATER AND PROPERTY DESCRIPTION SCALES AMENDED ISSUE — SERVICES RELOCATED
AMENDED ISSUE — SERVICES RELOCATED
AMENDED ISSUE — FLOW SYSTEMS COMMENTS
AMENDED ISSUE — FLOW SYSTEMS COMMENTS
CONSTRUCTION ISSUE
AMENDED CONSTRUCTION ISSUE
AMENDED CONSTRUCTION ISSUE
LOT NUMBERS UPDATED TO MATCH REGISTERED DP 15.01.2016 23.05.2016 31.05.2016 24.09.2019 30.09.2019 04.08.2020 27.08.2020 14.01.2021 Hunter Office PRESSURE SEWER RETICULATION 0.1 0.2 0.3 0.4 A1 / A3 1:10 / 1:20 Unit 7/335 Hillsborough Rd PROPOSED SUBDIVISION PLAN TITLE Warners Bay N.S.W. 2282 Phone: (02) 4978 5100 PRECINCT 2, STAGE 2.15 WATAGAN PARK JOHNSON PROPERTY GROUP WHISTLER DRIVE, COORANBONG TYPICAL PIPEWORK TRENCHING DETAILS adw Fax: (02) 4978 5199 DA/307/2015 email: hunter@adwjohnson.com.au www.adwjohnson.com.au ABN 62 129 445 398 ALL DIMENSIONS ARE IN METRES. DO NOT SCALE JOHNSON REV. 239078(2.15) - WAT -022 A.H.D. ADW Johnson







TYPICAL PROPERTY CONNECTION DETAIL

SCALE 1:20

NOTES:

- 1. PROPERTY SERVICE CONNECTIONS SHALL BE IN ACCORDANCE WITH WSA STANDARD DRAWINGS. FOR DUAL WATER SUPPLY SYSTEMS (SYDNEY WATER VERSION)(SUPPLEMENT TO WSA 03-2011).
- 2. DN20 PE100 PN16 POTABLE WATER SERVICE TO EXTEND 500mm BEYOND PROPERTY BOUNDARY AND BE CAPPED FOR LATER CONNECTION BY PROPERTY OWNER.
- 3. DN25 PE100 PN16 RECYCLED WATER SERVICE TO EXTEND 500mm BEYOND PROPERTY BOUNDARY AND BE CAPPED FOR LATER CONNECTION BY PROPERTY OWNER.
- 4. FOR PROPERTY CONNECTIONS WHERE A RETAINING WALL IS NOT PRESENT, SERVICES ARE TO BE OFFSET FROM THE PROPERTY
- WHERE SERVICE CONNECTIONS ARE LOCATED ADJACENT TO TELSTRA PITS/ELECTRICAL PILLARS, A MINIMUM CLEARANCE OF 200mm BETWEEN PITS AND SERVICE PIPEWORK IS TO BE MAINTAINED.
- 6. MINIMUM BENDING RADIUS FOR PE PIPEWORK IS TO BE 20 x PIPE DIAMETER.
- 7. ALL POLYETHYLENE FITTINGS SHALL BE JOINED USING ELECTROFUSION JOINTING TECHNIQUES IN ACCORDANCE WITH MANUFACTURERS REQUIREMENTS. ROTATE BENDS AS NECESSARY.
- 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.
- 9. \$\phi 25 ELECTRICAL CONDUIT IS TO EXTEND FROM CONNECTION WITH PRESSURE SEWER UNIT (PSU) TO NOM. 500mm INSIDE FRONT PROPERTY BOUNDARY AND BE CAPPED. ELECTRICAL CONDUIT IS TO BE HEAVY DUTY ORANGE.
 ALL CONDUIT BENDS ARE TO BE LARGE RADIUS SWEEP BENDS.
- 10. FOR MORE INFORMATION REFER TO FLOW SYSTEMS STANDARD DRAWING FSI-1000-FS.
- 11. FOR ALTERNATE TANK AND BOUNDARY CONFIGURATIONS, AND DETAILS FOR TANKS INSTALLED ON PROPERTIES WITH BATTERS AND RETAINING WALLS, REFER TO FLOW SYSTEMS STANDARD DRAWINGS FSI-SK03A-FS AND FSI-SK03B-FS.

ADW Johnson Pty Ltd on behalf of



AS CONSTRUCTED

AMENDMENT POTABLE WATER, RECYCLED WATER AND CLIENT PROJECT PROPERTY DESCRIPTION PRELIMINARY ISSUE

AMENDED ISSUE — SERVICES RELOCATED

AMENDED ISSUE — FLOW SYSTEMS COMMENTS

AMENDED ISSUE — FLOW SYSTEMS COMMENTS

CONSTRUCTION ISSUE

AMENDED CONSTRUCTION ISSUE

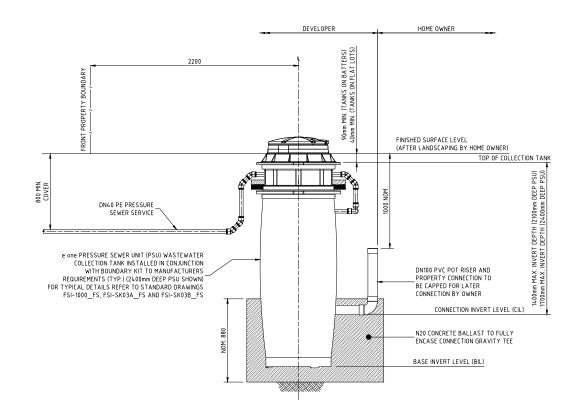
AMENDED CONSTRUCTION ISSUE

LOT NUMBERS UPDATED TO MATCH REGISTERED DP Hunter Office PRESSURE SEWER RETICULATION Unit 7/335 Hillsborough Rd PROPOSED SUBDIVISION PLAN TITLE Warners Bay N.S.W. 2282 Phone: (02) 4978 5100 PRECINCT 2, STAGE 2.15 WATAGAN PARK 0.8 A1 / A3 1:20 / 1:40 24.09.2019 JOHNSON WHISTLER DRIVE, COORANBONG TYPICAL SERVICE CONNECTION DETAILS 0.09.2019 4.08.2020 adw (02) 4978 5199 **PROPERTY** DA/307/2015 27.08.2020 14.01.2021 email: hunter@adwjohnson.com.c **GROUP** REV. johnson ABN 62 129 445 398 239078(2.15) ADW Johnson A.H.D. ALL DIMENSIONS ARE IN METRES. DO NOT SCALI



	WASTEWAT	ER COLLECTION	TANK LEVELS	
LOT NUMBER	FINISHED SURFACE LEVEL (FSL)	TANK BASE INVERT LEVEL (BIL)	TANK CONNECTION INVERT LEVEL (CIL)	T A N K HEIGHT
1501	40.27	38.40	39.00	2100
1502	40.57	38.70	39.30	2100
1503	40.73	38.86	39.46	2100
1504	39.60	37.43	38.03	2400
1505	38.01	36.14	36.74	2100
1506	39.96	38.09	38.69	2100
1507	40.45	38.53	39.13	2100
1508	41.60	39.73	40.33	2100
1509	43.04	41.17	41.77	2100
1510	EXISTING SER'	VICE CONNECTION - REFER	TO STAGE 2.5 DESIGN DRAWINGS	
1511	44.13	42.21	42.81	2100
1512	44.00	42.08	42.68	2100
1513	43.60	41.68	42.28	2100
1514	43.49	41.57	42.17	2100
1515	42.91	41.04	41.64	2100
1516	42.66	40.74	41.34	2100
1517	41.60	39.73	40.33	2100
1328 (FUTURE)	41.40	39.48	40.08	2100

WASTEWATER COLLECTION TANK TO BE PLACED IN REAR OF LOT



PRESSURE SEWER SERVICE CONNECTION TYPICAL SECTIONAL ELEVATION

SCALE 1:20
(SHOWN AS FRONT OF LOT SERVICE CONNECTION WITH 2400mm DEEP PSU)



AS CONSTRUCTED

- 11										· · · · · · · · · · · · · · · · · · ·			
4[REV.	DATE	AMENDMENT	DRAWN CHECK DESIGN VERIFY	SCALES		CLIENT	PROPERTY DESCRIPTION		PROJECT POTABLE W.	ATER, RECYCLED WAT	TER AND	
Ш	A 15		PRELIMINARY ISSUE AMENDED ISSUE — SERVICES RELOCATED	J.N. L.G. J.N. L.G.		Hunter Office		PRECINCT 2, STAGE 2.15 WATAGAN PARK WHISTLER DRIVE, COORANBONG DA/307/2015		PRESSURE SEWER RETICULATION			
-11	C 3	1.05.2016	AMENDED ISSUE - FLOW SYSTEMS COMMENTS	J.N. L.G. J.N. L.G. J.N. L.G. J.N. L.G.		Unit 7/335 Hillsborough Rd Warners Bay N.S.W. 2282				PLAN TITLE			
4		4.09.2019 0.09.2019	AMENDED ISSUE - FLOW SYSTEMS COMMENTS CONSTRUCTION ISSUE	J.N. L.G. J.N. L.G. J.N. L.G. J.N. L.G.		Phone: (02) 4978 5100	JOHNSON			WASTE	WASTEWATER COLLECTION TANK		
Ш	1 04	4.08.2020	AMENDED CONSTRUCTION ISSUE	J.N. C.B. J.N. C.B.	QQW	Fax: (02) 4978 5199	PROPERTY			LEVEL DETAILS			
ᅦ		7.08.2020 4.01.2021	AMENDED CONSTRUCTION ISSUE LOT NUMBERS UPDATED TO MATCH REGISTERED DP	J.N. C.B. J.N. C.B. S.HO. H.M. J.N. C.B.	3.3. ()	email: hunter@adwjohnson.com.au www.adwjohnson.com.au	GROUP						
1				1 1 1	lohnso	ABN 62 129 445 398	GNOOF	SURVEYED	DATUM	PROJECT No.		NUMBER REV.	
ا"	DESIGN FI	LE N:∖			ALL DIMENSIONS ARE IN METRES. DO NOT SCALE	1 1 1211 32 123 113 333		ADW Johnson	A.H.D.	239078(2.15)	- WAT -	025 3	

ALL DIMENSIONS ARE IN METRES. DO NOT SCALI

Plotted By: scotth Plot Date: 20/01/21 - 09:44 Cad File: N:\239078\Dwg\water & sewer design\precinct 2 water and sewer\Stage 2.15\239078(2.15)-issue 3\239078(2.15)-WAT-026 to 029(3).dwg

REV.

027

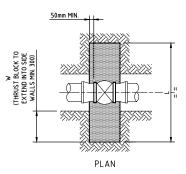
- WAT -

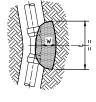
239078(2.15)

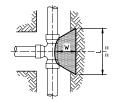
A.H.D.

ADW Johnson



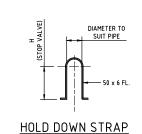






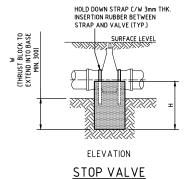




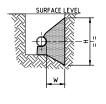


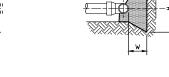
MATERIAL: 316 STAINLESS STEEL

N.T.S.



N.T.S.





ELEVATION **HORIZONTAL BEND** N.T.S.

ELEVATION TEE, FLUSHING HYDRANT AND CAP N.T.S.

TYPE	FITTING	Soil	Design	Thrust	TA (m2)	Length	Height	Width
		A HBP (Kpa)	STP (Kpa)			(L)	(H)	(W)
1	DN250 x 90° BEND	100	1000	91.00	0.91	1.00	0.91	0.40
2	DN250 x 45° BEND	100	1000	51.00	0.51	0.75	0.68	0.40
3	DN250 x 22.5° BEND	100	1000	26.00	0.26	0.55	0.47	0.40
4	DN250 x 11.25° BEND	100	1000	13.00	0.13	0.40	0.33	0.40
5	DN250 FLUSHING HYDRANT	100	1000	65.00	0.65	0.85	0.76	0.40
6	DN200 x DN200 EQUAL TEE	100	1000	43.00	0.43	0.70	0.61	0.30
7	DN200 x DN100 TAPER	100	1000	31.00	0.31	0.60	0.52	0.30
8	DN200 x 90° BEND	100	1000	60.00	0.60	0.80	0.75	0.30
9	DN200 x 45° BEND	100	1000	33.00	0.33	0.60	0.55	0.30
10	DN200 x 22.5° BEND	100	1000	17.00	0.17	0.45	0.38	0.30
11	DN200 x 11.25° BEND	100	1000	8.10	0.08	0.30	0.30	0.30
12	DN200 STOP VALVE	100	1000	43.00	0.43	1.20	0.52	0.30
13	DN200 FLUSHING HYDRANT	100	1000	53.00	0.53	0.75	0.71	0.40
14	DN100 x DN100 EQUAL TEE	100	1000	12.00	0.12	0.40	0.30	0.30
15	DN100 x 90° BEND	100	1000	17.00	0.17	0.45	0.38	0.30
16	DN100 x 45° BEND	100	1000	8.80	0.09	0.30	0.30	0.30
17	DN100 x 22.5° BEND	100	1000	4.50	0.05	0.30	0.30	0.30
18	DN100 x 11.25° BEND	100	1000	2.20	0.02	0.30	0.30	0.30
19	DN100 x 6° BEND	100	1000	2.20	0.02	0.30	0.30	0.30
20	DN100 STOP VALVE	100	1000	12.00	0.12	1.05	0.44	0.30
21	DN100 FLUSHING HYDRANT	100	1000	12.00	0.12	0.40	0.30	0.40

THRUST BLOCK NOTES:

- 1. 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.
- 3. THRUST BLOCKS ARE TO BE CONSTRUCTED SUCH THAT THEY TRANSFER THE THRUST ONTO UNDISTURBED GROUND. THRUST BLOCKS ARE NOT TO INTERFERE WITH OTHER SERVICES.
- 4. 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 (N). 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.
- 6. CONCRETE THRUST BLOCKS ARE TO BE CURED FOR A MINIMUM OF 7 DAYS BEFORE BEING SUBJECTED TO ANY THRUST LOAD.
- 7. 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.

ADW Johnson Pty Ltd on behalf of Cooranbong Water Date Approved: 30/09/2019

AS CONSTRUCTED

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4	REV. DAT	TE AMENDMENT	DRAWN CHECK DESIGN VERIFY SCALES	S		CLIENT	PROPERTY DESCRIPTION		PROJECT POTABLE WA	ATER, RECYCLED WA	TER AND	
	A 15.01.	2016 PRELIMINARY ISSUE 2016 AMENDED ISSUE — SERVICES RELOCATED	J.N. L.G. J.N. L.G.		Hunter Office		PROPOSED SUBDIVISION PRECINCT 2, STAGE 2.15 WATAGAN PARK WHISTLER DRIVE, COORANBONG		PRESSURE SEWER RETICULATION			
1	B 23.05. C 31.05.	2016 AMENDED ISSUE - FLOW SYSTEMS COMMENTS	J.N. L.G. J.N. L.G. J.N. L.G. J.N. L.G.		Unit 7/335 Hillsborough Rd Warners Bay N.S.W. 2282				PLAN TITLE			
1	D 24.09. 0 30.09.		J.N. L.G. J.N. L.G. J.N. L.G. J.N. L.G.		Phone: (02) 4978 5100	JOHNSON			THRUST BLOCK DETAILS			
	1 04.08.	2020 AMENDED CONSTRUCTION ISSUE	J.N. C.B. J.N. C.B.	OOWI	Fax: (02) 4978 5199	PROPERTY		7/2015	1	(OOT BLOOK BETAILO	,	
┪	2 27.08. 3 14.01.	2020 AMENDED CONSTRUCTION ISSUE 2021 LOT NUMBERS UPDATED TO MATCH REGISTERED DP	J.N. C.B. J.N. C.B. S.HO. H.M. J.N. C.B.		email: hunter@adwjohnson.com.au www.adwjohnson.com.au	CPOLID	5,100					
1				ENSIONS ARE IN METRES. DO NOT SCALE JOHNSON	ABN 62 129 445 398	GROOF	SURVEYED	DATUM	PROJECT No.	DISCIPLINE	NUMBER	REV.
DESIGN FILE N:\						ADW Johnson	A.H.D.	239078(2.15)	- WAT -	029	3	
	Plotted By	r scotth Plot Date: 20/01/21 - 09:45 Cad File: N:	Plotted By: contth Plot Date: 20/01/21 = 00:45 Cod File: N:\230078\Dwg\water & cower decign\precipct 2 water and cower\Stage 215\230078(215_iccue 3\230078(215_iccue									