POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION PROPOSED SUBDIVISION STAGE 2.7 WATAGAN PARK WHISTLER DRIVE, COORANBONG DA/307/2015



LOCALITY SKETCH

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239078(2.7)-WAT-002	GENERAL NOTES
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239078(2.7)-WAT-008	POTABLE WATER DETAIL PLAN - SHEET 5
239078(2.7)-WAT-009	POTABLE WATER DETAIL PLAN - SHEET 6
239078(2.7)-WAT-010	NOT USED
239078(2.7)-WAT-011	NOT USED
239078(2.7)-WAT-012	RECYCLED WATER DETAIL PLAN - SHEET 1
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239078(2.7)-WAT-016	RECYCLED WATER DETAIL PLAN - SHEET 5
239078(2.7)-WAT-017	RECYCLED WATER DETAIL PLAN - SHEET 6
239078(2.7)-WAT-018	NOT USED
239078(2.7)-WAT-019	NOT USED
239078(2.7)-WAT-020	PRESSURE SEWER DETAIL PLAN - SHEET 1
239078(2.7)-WAT-021	PRESSURE SEWER DETAIL PLAN - SHEET 2
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239078(2.7)-WAT-025	PRESSURE SEWER DETAIL PLAN - SHEET 6
239078(2.7)-WAT-026	NOT USED
239078(2.7)-WAT-027	NOT USED
239078(2.7)-WAT-028	TYPICAL PIPEWORK TRENCHING DETAILS
239078(2.7)-WAT-029	PRESSURE TRANSMITTER TYPICAL DETAIL
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239078(2.7)-WAT-031	WASTEWATER COLLECTION TANK LEVEL DETAILS
239078(2.7)-WAT-032	ROAD CROSS SECTIONS - SHEET 1
239078(2.7)-WAT-033	ROAD CROSS SECTIONS - SHEET 2
239078(2.7)-WAT-034	ROAD CROSS SECTIONS - SHEET 3
239078(2.7)-WAT-035	NOT USED
239078(2.7)-WAT-036	THRUST BLOCK DETAILS



CONSTRUCTION ISSUE

╬		DATE 5.09.2015	PRELIMINARY ISSUE	DRAWN J.N.	CHECK L.G.	DESIGN VERI	Y SCALES		Hunter Office	CLIENT	PROPERTY DESCRIPTION	OURDIN HOLOU		VATER, RECYCLED WA URE SEWER RETICULA		
-	1 02 2 01	8.11.2015 2.12.2015 1.04.2016	AMENDED ISSUE — FLOW SYSTEMS COMMENTS CONSTRUCTION ISSUE — SERVICES LOCATIONS MODIFIED AMENDED CONSTRUCTION ISSUE — SERVICES LOCATIONS MODIFIED AMENDED CONSTRUCTION ISSUE — FLOW SYSTEMS COMMENTS	J.N. J.N. J.N. J.N. J.N.	L.G. L.G. L.G. L.G. L.G.	J.N. L.G J.N. L.G J.N. L.G J.N. L.G J.N. L.G	a		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 E 2.7 WATAGAN PARK E, COORANBONG 17/2015		R SHEET, LOCALITY P AND DRAWING INDEX		
- 41								prop	www.adwjohnson.com.au ABN 62 129 445 398	GROUP	SURVEYED	DATUM	PROJECT No.	DISCIPLINE	NUMBER	REV.
3	DESIGN FIL	ILE N:\					ALL DIMENSIONS ARE IN METRES. DO NOT SCALE	hnson	ABN 02 129 443 398		ADW Johnson	A.H.D.	239078(2.7)	– WAT –	001	3

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GENERAL NOTES:

1. THIS DRAWING SET SHOULD BE READ IN CONJUNCTION WITH LAKE MACQUARIE CITY COUNCIL STANDARDS AND

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.

7. MAKE SMOOTH TRANSITION TO EXISTING INFRASTRUCTURE (ROAD PAVEMENT, KERBS, FOOTPATHS, ETC.) TO LAKE

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

12. THE CONTRACTOR SHALL PROVIDE COORANBONG WATER WITH M.G.A. COORDINATED WORK AS CONSTRUCTED

13. ANY WORKS NOT COVERED BY THE SPECIFICATION OR THIS DRAWING SET ARE TO BE REFERRED TO THE

15. ALL PIPE BEDDING MATERIAL TO COMPLY WITH WSAA PRODUCT SPECIFICATION WSA-PS350 AND WSA PS351

(IN WRITING) OF INTENT TO CONNECT NEW MAINS TO EXISTING INFRASTRUCTURE.

11. WHERE LOT FILLING EXCEEDS 300mm, A SURVEY OF THE STRIPPED SURFACE AND FINAL FILLED SURFACE SHALL

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.

14. THE CONTRACTOR SHALL PROVIDE COORANBONG WATER AND HUNTER WATER WITH A MINIMUM OF 7 DAYS NOTICE

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

SUPERINTENDENT REPRESENTATIVE PRIOR TO COMMENCEMENT OF WORK.

MACQUARIE CITY COUNCIL AND SUPERINTENDENT'S SATISFACTION

PROVIDED DURING DURATION OF CONSTRUCTION.

OTHER ASSOCIATED DRAWINGS AND TECHNICAL SPECIFICATIONS. ANY VARIATIONS SHALL BE APPROVED BY THE

POTABLE WATER AND RECYCLED WATER NOTES:

- 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.
- 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-1853-5.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
- 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.
- 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.

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- 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)
 - ON-LOT INFRASTRUCTURE INSTALLATION SET OUT DETAILS.

 TYPICAL INFRASTRUCTURE STAGING DIAGRAM TANK IN FRONT OF PROPERTY.
 - FSI-1001B-FS TYPICAL INFRASTRUCTURE STAGING DIAGRAM TANK IN REAR OF PROPERTY.

 - TYPICAL ON-LOT WIRING DIAGRAM.

 TYPICAL WASTEWATER COLLECTION TANK CONTROL PANEL AND DMU ARRANGEMENT.
 - FSI-1005-FS INFRASTRUCTURE INSTALLATION RESPONSIBILITY.
 - PSS-1004-FS
 - WATER SERVICES DRAWING EXAMPLE ONLY.
 TYPICAL VALVE INSTALLATION ISOLATION. PSS-1016A-FS STANDARD ABOVE GROUND AIR VALVE DETAILS
 - PSS-1016B-FS STANDARD BELOW GROUND AIR VALVE DETAILS TO SUIT MAINS ≤ 90 mm PSS-1017-FS FLUSHING POINTS.

 - PSS-1018-FS TYPICAL BRANCH CONNECTION DETAILS.
 - TYPICAL ON PROPERTY LAYOUT AND SANITARY DRAINAGE DETAILS. PROPERTY BOUNDARY ASSEMBLY TYPICAL INSTALLATION. PSS-1111-FS
 - WASTEWATER COLLECTION TANK INSTALLATION REQUIREMENTS PSS-1113-FS
 - PSS-1114-FS POOL AND SPA DRAINAGE CONNECTION REQUIREMENTS
 - FS-SK03-FS FS-SK04-FS
 - POUL AND SHA DRAINAGE CONNECTION REQUIREMENTS.

 PROPERTY SEWERAGE SERVICING GUIDELINES SLOPING LOTS.

 PROPERTY SEWERAGE SERVICING GUIDELINES REDUCED AREA LOTS.

 PROPERTY SEWERAGE SERVICING GUIDELINES NON—STANDARD CONNECTION DETAIL. FS-SK05-FS
 - DUAL WATER RETICULATION SYSTEM SINGLE PROPERTY SERVICES PRE-LAID IN FOOTWAYS. WAT-1854-FS
 - WAT-1855-FS DUAL WATER RETICULATION SYSTEM SPLIT PROPERTY SERVICES PRE-LAID IN
- 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 1600kPa.

DOWNWARDS EITHER SIDE OF THE AIR VALVE).

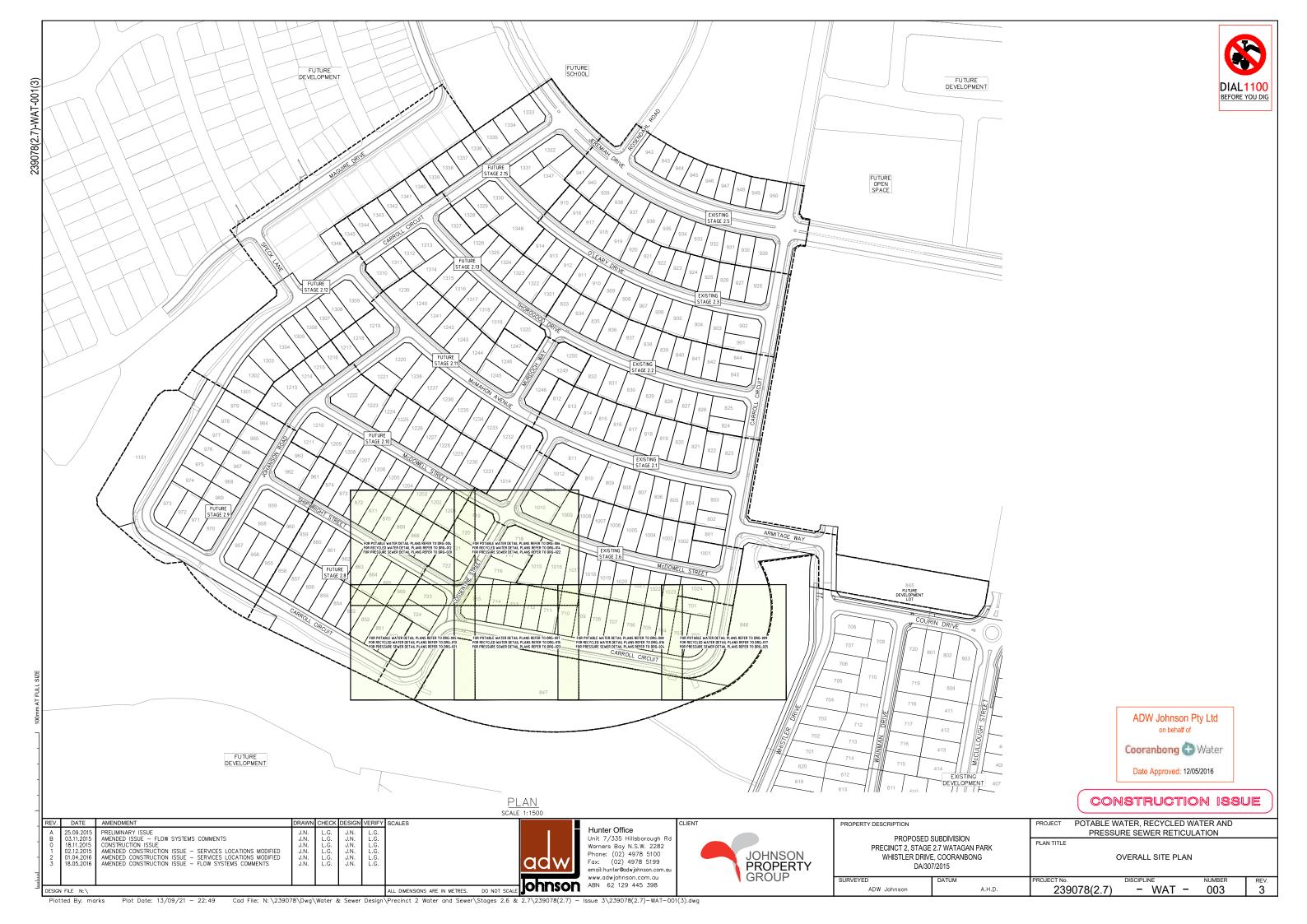
- 12. FOR LOTS WITH TANKS IN THE REAR.

 PROVIDE \$\psi_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
- 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.

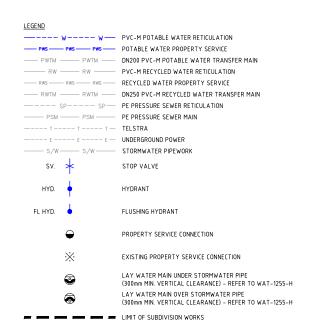


CONSTRUCTION ISSUE

-	A 25.09.2015		J.N. J.N	L.G. L.G.	J.N. J.N.	L.G.	SCA	ALES	1	Hunter Office Unit 7/335 Hillsborough Rd	CLIENT	PR	ROPERTY DESCRIPTION PROPOSED S	SUBDIVISION	PRESSI	/ATER, RECYCLED WA JRE SEWER RETICULA		
	0 18.11.2015 1 02.12.2015 2 01.04.2016	CONSTRUCTION ISSUE AMENDED CONSTRUCTION ISSUE SERVICES LOCATIONS MODIFIED AMENDED CONSTRUCTION ISSUE SERVICES LOCATIONS MODIFIED AMENDED CONSTRUCTION ISSUE FLOW SYSTEMS COMMENTS	J.N. J.N. J.N. J.N.	L.G. L.G. L.G. L.G.	J.N. J.N. J.N. J.N.	L.G L.G L.G	5. 5. 5.		adw	Warners Bay N.S.W. 2282 Phone: (02) 4978 5100 Fax: (02) 4978 5199 email:hunter@adwjohnson.com.au	JOHNSON PROPERTY	Υ	PRECINCT 2, STAGE WHISTLER DRIVE		PLAN TITLE	GENERAL NOTES		
	SIGN FILE N:\						ALL	DIMENSIONS ARE IN METRES. DO NOT SCALE	Johnson	www.adwjohnson.com.au ABN 62 129 445 398	GROUP	SUF	JRVEYED ADW Johnson	DATUM A.H.D.	PROJECT No. 239078(2.7)	- WAT -	NUMBER 002	REV.







 POTABLE WATER PROPERTY SERVICE CONNECTIONS
 TOTAL 27 CONNECTIONS
 • SINGLE SERVICES IN ACCORDANCE WITH WAT—1106—V
 — 6 x SHORT SIDE
 — 3 x LONG SIDE
 • SPLIT SERVICES IN ACCORDANCE WITH WAT—1107—V
 • SPLIT SIGNET SIDE -8 x SHORT SIDE -1 x LONG SIDE

POTABLE WATER PIPE DATA											
PIPE SIZE (mm)	PIPE MATERIAL	TOTAL LENGTH (m)									
DN100	PVC-M PN16	537									

- 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 025.
 3. FOR TYPICAL SERVICE CONNECTION DETAILS REFER TO DRG—030.

ADW Johnson Pty Ltd on behalf of Cooranbong Water

Date Approved: 12/05/2016

CONSTRUCTION ISSUE

POTABLE WATER, RECYCLED WATER AND REV. DATE AMENDMENT DRAWN CHECK DESIGN VERIFY SCALES PROPERTY DESCRIPTION PROJECT Hunter Office PRELIMINARY ISSUE
AMENDED ISSUE - FLOW SYSTEMS COMMENTS
CONSTRUCTION ISSUE
AMENDED CONSTRUCTION ISSUE - SERVICES LOCATIONS MODIFIED
AMENDED CONSTRUCTION ISSUE - SERVICES LOCATIONS MODIFIED
AMENDED CONSTRUCTION ISSUE - FLOW SYSTEMS COMMENTS 25.09.2015 03.11.2015 18.11.2015 J.N. J.N. J.N. J.N. J.N. PRESSURE SEWER RETICULATION L.G. L.G. L.G. L.G. L.G. L.G. PROPOSED SUBDIVISION Unit 7/335 Hillsborough Rd PLAN TITLE Warners Bay N.S.W. 2282 PRECINCT 2, STAGE 2.7 WATAGAN PARK POTABLE WATER DETAIL PLAN Phone: (02) 4978 5100 **JOHNSON** WHISTLER DRIVE, COORANBONG (02) 4978 5199 - SHEET 1 18.05.2010 **PROPERTY** DA/307/2015 email: hunter@adwjohnson.com.au **GROUP** www.adwjohnson.com.au REV. **Johnson** ABN 62 129 445 398 239078(2.7) ADW Johnson A.H.D. - WAT -004 ALL DIMENSIONS ARE IN METRES. DO NOT SCALE DESIGN FILE N:\ Plot Date: 13/09/21 - 22:50 Cad File: N:\239078\Dwg\Water & Sewer Design\Precinct 2 Water and Sewer\Stages 2.6 & 2.7\239078(2.7) - Issue 3\239078(2.7)-WAT-004(3).dwg

723

1202

1201

721

FUTURE

S<u>TAGE 2.10</u>

868

SHIPWRICHT STREET

EXTEND DN100 PIPEWORK 5.0m BEYOND LIMIT OF SUBDIVISION WORKS AND INSTALL FLUSHING HYDRANT (TB TYPE 21)

PLAN

SCALE 1: 250

866

871

870

FUTURE STAGE 2.8

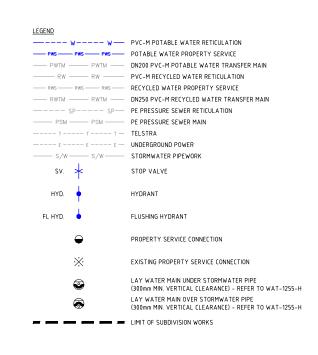
FUTURE STAGE 2.8

852

CARROLL CIRCUIT







POTABLE WATER PIPE DATA PIPE SIZE (mm) PIPE MATERIAL TOTAL LENGTH (m)

PVC-M PN16

POTABLE WATER PROPERTY SERVICE CONNECTIONS
TOTAL 27 CONNECTIONS
SINGLE SERVICES IN ACCORDANCE WITH WAT-1106-V
-6 x SHORT SIDE
-3 x LONG SIDE
SPLIT SERVICES IN ACCORDANCE WITH WAT-1107-V

-8 x SHORT SIDE -1 x LONG SIDE

DN100

- 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 025.
 3. FOR TYPICAL SERVICE CONNECTION DETAILS REFER TO DRG—030.

ADW Johnson Pty Ltd on behalf of

Cooranbong Water

Date Approved: 12/05/2016

CONSTRUCTION ISSUE

POTABLE WATER, RECYCLED WATER AND REV. DATE AMENDMENT DRAWN CHECK DESIGN VERIFY SCALES PROPERTY DESCRIPTION PROJECT PRELIMINARY ISSUE
AMENDED ISSUE - FLOW SYSTEMS COMMENTS
CONSTRUCTION ISSUE
AMENDED CONSTRUCTION ISSUE - SERVICES LOCATIONS MODIFIED
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AMENDED CONSTRUCTION ISSUE - FLOW SYSTEMS COMMENTS Hunter Office 25.09.2015 03.11.2015 18.11.2015 J.N. J.N. J.N. J.N. J.N. J.N. PRESSURE SEWER RETICULATION L.G. L.G. L.G. L.G. L.G. L.G. PROPOSED SUBDIVISION Unit 7/335 Hillsborough Rd PLAN TITLE Warners Bay N.S.W. 2282 PRECINCT 2, STAGE 2.7 WATAGAN PARK POTABLE WATER DETAIL PLAN Phone: (02) 4978 5100 **JOHNSON** WHISTLER DRIVE, COORANBONG (02) 4978 5199 - SHEET 2 18.05.201 **PROPERTY** DA/307/2015 email: hunter@adwjohnson.com.au www.adwjohnson.com.au ABN 62 129 445 398 **GROUP** Johnson 3 239078(2.7) ADW Johnson A.H.D. - WAT -005 ALL DIMENSIONS ARE IN METRES. DO NOT SCALE DESIGN FILE N:\

723

724

DN100 x DN100 EQUAL TEE (TB TYPE 14)

Cad File: N:\239078\Dwg\Water & Sewer Design\Precinct 2 Water and Sewer\Stages 2.6 & 2.7\239078(2.7) - Issue 3\239078(2.7)-WAT-004(3).dwg Plot Date: 13/09/21 - 22:51

PLAN

SCALE 1: 250

850

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

717

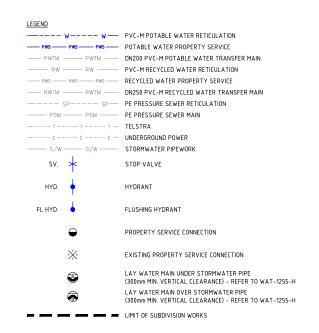
713

PLAN SCALE 1: 250

McDOWELL STREET.







POTABLE WATER PROPERTY SERVICE CONNECTIONS

TOTAL 27 CONNECTIONS

SINGLE SERVICES IN ACCORDANCE WITH WAT-1106-V

-6 × SHORT SIDE

-3 × LONG SIDE

SPLIT SERVICES IN ACCORDANCE WITH WAT-1107-V

-8 × SHORT SIDE

-1 × LONG SIDE

POTABLE WATER PIPE DATA											
PIPE	SIZE (m	m)	PIPE MATERIAL	TOTAL LENGTH (m)							
	DN100		PVC-M PN16	537							

- 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 025.
 3. FOR TYPICAL SERVICE CONNECTION DETAILS REFER TO DRG—030.



CONSTRUCTION ISSUE

-		DATE 5.09.2015	AMENDMENT PREIMINARY ISSUE	DRAWN J N	CHECK	DESIGN VERIF	SCALES 0 5 10 A1 / A3		Hunter Office	CLIENT	PROPERTY DESCRIPTION			ATER, RECYCLED WA		
-	B 03 0 18 1 02 2 01	3.11.2015 8.11.2015 2.12.2015 1.04.2016	AMENDED ISSUE - FLOW SYSTEMS COMMENTS CONSTRUCTION ISSUE - SERVICES LOCATIONS MODIFIED AMENDED CONSTRUCTION ISSUE - SERVICES LOCATIONS MODIFIED AMENDED CONSTRUCTION ISSUE - FLOW SYSTEMS COMMENTS	J.N. J.N. J.N. J.N. J.N.	L.G. L.G. L.G. L.G. 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	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, STAGE WHISTLER DRIV	SUBDIVISION : 2.7 WATAGAN PARK E, COORANBONG 7/2015	PLAN TITLE	BLE WATER DETAIL P - SHEET 3	-	
1								ohnson	www.adwjohnson.com.au ABN 62 129 445 398	GROUP	SURVEYED	DATUM	PROJECT No.	DISCIPLINE	NUMBER	REV.
	DESIGN FIL	LE N:\					ALL DIMENSIONS ARE IN METRES. DO NOT SCALE				ADW Johnson	A.H.D.	239078(2.7)	- WAT -	006	3

1009

W SP SP SP SP

1016

EXISTING STAGE 2.6

Plotted By: marks Plot Date: 13/09/21 - 22:51 Cad File: N:\239078\Dwg\Water & Sewer Design\Precinct 2 Water and Sewer\Stages 2.6 & 2.7\239078(2.7) - Issue 3\239078(2.7)-WAT-004(3).dwg

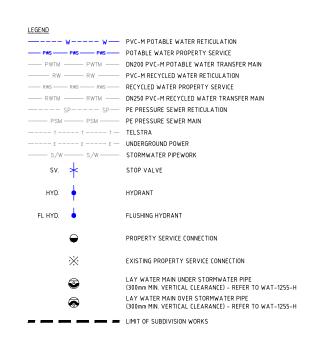
716

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

COSSENIME







POTABLE WATER PROPERTY SERVICE CONNECTIONS
TOTAL 27 CONNECTIONS
SINGLE SERVICES IN ACCORDANCE WITH WAT-1106-V
-6 x SHORT SIDE
-3 x LONG SIDE
SPLIT SERVICES IN ACCORDANCE WITH WAT-1107-V

-8 x SHORT SIDE -1 x LONG SIDE

		POT	ABLE WATER PIPE	DATA		
PIPE	SIZE	(mm)	PIPE MATERIAL	TOTAL	LENGTH	(m)
	DN100		PVC-M PN16		537	

- 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 025.
 3. FOR TYPICAL SERVICE CONNECTION DETAILS REFER TO DRG—030.

ADW Johnson Pty Ltd on behalf of

Cooranbong Water

Date Approved: 12/05/2016

CONSTRUCTION ISSUE

POTABLE WATER, RECYCLED WATER AND REV. DATE AMENDMENT DRAWN CHECK DESIGN VERIFY SCALES CLIENT PROPERTY DESCRIPTION PROJECT Hunter Office J.N. J.N. J.N. J.N. J.N. PRESSURE SEWER RETICULATION L.G. L.G. L.G. L.G. L.G. L.G. PROPOSED SUBDIVISION Unit 7/335 Hillsborough Rd PLAN TITLE PRECINCT 2, STAGE 2.7 WATAGAN PARK Warners Bay N.S.W. 2282 POTABLE WATER DETAIL PLAN JOHNSON Phone: (02) 4978 5100 WHISTLER DRIVE, COORANBONG (02) 4978 5199 - SHEET 4 **PROPERTY** DA/307/2015 email: hunter@adwjohnson.com.au **GROUP** www.adwjohnson.com.au ALL DIMENSIONS ARE IN METRES. DO NOT SCALE ONNSON REV. ABN 62 129 445 398 239078(2.7) 007 ADW Johnson A.H.D. - WAT -DESIGN FILE N:\

Plot Date: 13/09/21 - 22:52 Cad File: N:\239078\Dwg\Water & Sewer Design\Precinct 2 Water and Sewer\Stages 2.6 & 2.7\239078(2.7) - Issue 3\239078(2.7)-WAT-004(3).dwg

JOINS DRG-006

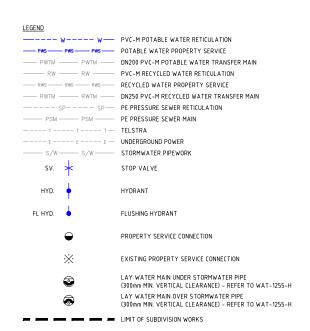
CARROLL CIRCUIT

PLAN

SCALE 1: 250







POTABLE WATER PROPERTY SERVICE CONNECTIONS
TOTAL 27 CONNECTIONS
SINGLE SERVICES IN ACCORDANCE WITH WAT-1106-V
-6 x SHORT SIDE
-3 x LONG SIDE
SPLIT SERVICES IN ACCORDANCE WITH WAT-1107-V

-8 x SHORT SIDE -1 x LONG SIDE

POT	ABLE WATER PIPE	DATA
PIPE SIZE (mm)	PIPE MATERIAL	TOTAL LENGTH (m)
DN100	PVC-M PN16	537

- 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 025.
 3. FOR TYPICAL SERVICE CONNECTION DETAILS REFER TO DRG—030.

ADW Johnson Pty Ltd on behalf of Cooranbong Water

Date Approved: 12/05/2016

CONSTRUCTION ISSUE

POTABLE WATER, RECYCLED WATER AND REV. DATE AMENDMENT DRAWN CHECK DESIGN VERIFY SCALES PROPERTY DESCRIPTION PROJECT Hunter Office PRESSURE SEWER RETICULATION L.G. L.G. L.G. L.G. L.G. L.G. PROPOSED SUBDIVISION Unit 7/335 Hillsborough Rd PLAN TITLE Warners Bay N.S.W. 2282 PRECINCT 2, STAGE 2.7 WATAGAN PARK POTABLE WATER DETAIL PLAN Phone: (02) 4978 5100 JOHNSON WHISTLER DRIVE, COORANBONG (02) 4978 5199 - SHEET 5 **PROPERTY** DA/307/2015 email: hunter@adwjohnson.com.au www.adwjohnson.com.au ABN 62 129 445 398 **GROUP** ALL DIMENSIONS ARE IN METRES. DO NOT SCALE JOHNSON 3 239078(2.7) - WAT -800 ADW Johnson A.H.D. DESIGN FILE N:\

1023

EXISTING

STAGE 2.6

Cad File: N:\239078\Dwg\Water & Sewer Design\Precinct 2 Water and Sewer\Stages 2.6 & 2.7\239078(2.7) - Issue 3\239078(2.7)-WAT-004(3).dwg

CARROLL CIRCUIT

DN100 PVC-M PN16

PLAN

SCALE 1: 250

CIRCUIT

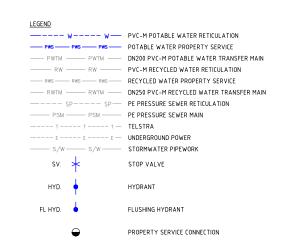
18,CARROLL

20° REMOVE EXISTING FLUSHING/ HYDRANT AND THRUST BLOCK_ AND CONNECT TO EXISTING DN100 RETICULATION PIPEWORK

STAGE 2.6







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

■ LIMIT OF SUBDIVISION WORKS

POTABLE WATER PROPERTY SERVICE CONNECTIONS

TOTAL 27 CONNECTIONS

SINGLE SERVICES IN ACCORDANCE WITH WAT-1106-V

-6 × SHORT SIDE

-3 × LONG SIDE

SPLIT SERVICES IN ACCORDANCE WITH WAT-1107-V

-8 × SHORT SIDE

-1 × LONG SIDE

POTABLE WATER PIPE DATA											
PIPE	SIZE	(mm)	PIPE	MATER	IAL	TOTAL	LENGTH	(m)			
	DN100)	PV0	C-M PN1	6		537				

- 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 025.
 3. FOR TYPICAL SERVICE CONNECTION DETAILS REFER TO DRG-030.

ADW Johnson Pty Ltd on behalf of

Cooranbong 🖨 Water

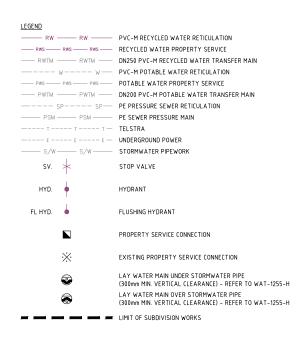
Date Approved: 12/05/2016

CONSTRUCTION ISSUE

-	REV.	DATE 09 2015	AMENDMENT PRELIMINARY ISSUE	DRAWN J.N.	CHECK DESIGN VER	-	9 5 10 A1 / A3 Hunter Office		PROPERTY DESCRIPTION	PROJECT	ER, RECYCLED WA				
-	B 0.	3.11.2015 3.11.2015 2.12.2015 .04.2016	AMENDED ISSUE - FLOW SYSTEMS COMMENTS CONSTRUCTION ISSUE - SERVICES LOCATIONS MODIFIED AMENDED CONSTRUCTION ISSUE - SERVICES LOCATIONS MODIFIED AMENDED CONSTRUCTION ISSUE - SERVICES LOCATIONS MODIFIED AMENDED CONSTRUCTION ISSUE - FLOW SYSTEMS COMMENTS	J.N. J.N. J.N. J.N. J.N.	L.G. J.N. L.G. L.G. J	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	PROPOSED SUBDIVISION PRECINCT 2, STAGE 2.7 WATAGAN PARK WHISTLER DRIVE, COORANBONG DA/307/2015	PLAN TITLE	 WATER DETAIL F	-	
	ESIGN FIL	.E N:\				ALL DIMENSIONS ARE IN METRES.	DO NOT SCALE	ohnson	www.adwjohnson.com.au ABN 62 129 445 398	GROUP	SURVEYED DATUM ADW Johnson A.H.D.	PROJECT No.	 - WAT -	NUMBER 009	REV.

PLAN SCALE 1: 250





RECYCLED WATER PROPERTY SERVICE CONNECTIONS
TOTAL 27 CONNECTIONS

• SINGLE SERVICES IN ACCORDANCE WITH WAT—1106—V

—3 x SHORT SIDE

—6 x LONG SIDE

• SPLIT SERVICES IN ACCORDANCE WITH WAT—1107—V

—1 x SHORT SIDE

—8 x LONG SIDE

REC`	YCLED WATER PIPE	DATA
PIPE SIZE (mm)	PIPE MATERIAL	TOTAL LENGTH (m)
DN100	PVC-M PN16	570

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 025.

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

ADW Johnson Pty Ltd on behalf of

Cooranbong 🖨 Water

Date Approved: 12/05/2016

CONSTRUCTION ISSUE

-		DATE 5.09.2015	AMENDMENT PREI IMINARY ISSUE	DRAWN	CHECK	DESIGN VERIF	1		Hunter Office	CLIENT	PROPERTY DESCRIPTION			ATER, RECYCLED WA		
-	B 03 0 18 1 02 2 01	03.11.2015 18.11.2015 02.12.2015 01.04.2016	AMENDED ISSUE - FLOW SYSTEMS COMMENTS CONSTRUCTION ISSUE - SERVICES LOCATIONS MODIFIED AMENDED CONSTRUCTION ISSUE - SERVICES LOCATIONS MODIFIED AMENDED CONSTRUCTION ISSUE - SERVICES LOCATIONS MODIFIED AMENDED CONSTRUCTION ISSUE - FLOW SYSTEMS COMMENTS	J.N. J.N. J.N. J.N. J.N.	L.G. L.G. L.G. L.G. L.G.	J.N. L.G.	0 5 10 A1 / A3 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, STAGE	E, COORANBONG	PLAN TITLE	CLED WATER DETAIL F - SHEET 1	-	
1								ohnsor	www.adwjohnson.com.au ABN 62 129 445 398	GROUP	SURVEYED	DATUM	PROJECT No.	DISCIPLINE	NUMBER	REV.
	DESIGN FII	ILE N:\					ALL DIMENSIONS ARE IN METRES. DO NOT SCALE				ADW Johnson	A.H.D.	239078(2.7)	- WAT -	012	3

1202

1201

721

FUTURE

STAGE 2.10

868

EXTEND DN100 PIPEWORK 5.0m BEYOND LIMIT OF SUBDIVISION WORKS AND INSTALL FLUSHING HYDRANT (TB TYPE 21)

723

SHIPWRIGHT STREET

PLAN SCALE 1: 250

Plotted By: marks Plot Date: 13/09/21 - 22:54 Cad File: N:\239078\Dwg\Water & Sewer Design\Precinct 2 Water and Sewer\Stages 2.6 & 2.7\239078(2.7) - Issue 3\239078(2.7)-WAT-012(3).dwg

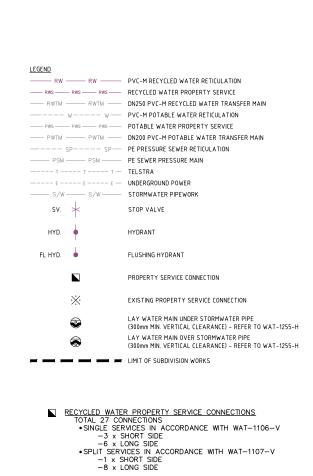
871

870

FUTURE STAGE 2.8







	REC`	YCLED WATER PIPE	DATA
DN100 PVC_M PN16 570	PIPE SIZE (mm)	PIPE MATERIAL	TOTAL LENGTH (m)
DIVIDO I VC MI I NIO 370	DN100	PVC-M PN16	570

NOTES:

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

2. FOR PRESSURE SEWER PIPEWORK DETAIL PLANS REFER TO DROS-020 TO 025.

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

ADW Johnson Pty Ltd on behalf of Cooranbong Water

Date Approved: 12/05/2016

CONSTRUCTION ISSUE

POTABLE WATER, RECYCLED WATER AND REV. DATE AMENDMENT PROJECT DRAWN CHECK DESIGN VERIFY SCALES PROPERTY DESCRIPTION Hunter Office PRELIMINARY ISSUE
AMENDED ISSUE - FLOW SYSTEMS COMMENTS
CONSTRUCTION ISSUE
AMENDED CONSTRUCTION ISSUE - SERVICES LOCATIONS MODIFIED
AMENDED CONSTRUCTION ISSUE - SERVICES LOCATIONS MODIFIED
AMENDED CONSTRUCTION ISSUE - FLOW SYSTEMS COMMENTS 25.09.2015 03.11.2015 18.11.2015 J.N. J.N. J.N. J.N. J.N. J.N. PRESSURE SEWER RETICULATION L.G. L.G. L.G. L.G. L.G. L.G. PROPOSED SUBDIVISION Unit 7/335 Hillsborough Rd PLAN TITLE Warners Bay N.S.W. 2282 PRECINCT 2, STAGE 2.7 WATAGAN PARK RECYCLED WATER DETAIL PLAN Phone: (02) 4978 5100 JOHNSON WHISTLER DRIVE, COORANBONG (02) 4978 5199 - SHEET 2 18.05.201 **PROPERTY** DA/307/2015 email: hunter@adwjohnson.com.au www.adwjohnson.com.au ABN 62 129 445 398 **GROUP** Johnson REV. 239078(2.7) 013 ADW Johnson A.H.D. - WAT -ALL DIMENSIONS ARE IN METRES. DO NOT SCALE DESIGN FILE N:\

723

724

B 032

PLAN

SCALE 1: 250

DN100 x 22.5° BEND (TB TYPE 17)

Plot Date: 13/09/21 - 22:54 Cad File: N:\239078\Dwg\Water & Sewer Design\Precinct 2 Water and Sewer\Stages 2.6 & 2.7\239078(2.7) - Issue 3\239078(2.7)-WAT-012(3).dwg

850

FUTURE STAGE 2.8

852

CARROLL CIRCUIT

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







<u>LEGEND</u> RW PVC-M RECYCLED WATER RETICULATION RWTM - RWTM DN250 PVC-M RECYCLED WATER TRANSFER MAIN --- W --- PVC-M POTABLE WATER RETICULATION PWS --- POTABLE WATER PROPERTY SERVICE — PWTM — DN200 PVC-M POTABLE WATER TRANSFER MAIN SP---- SP- PE PRESSURE SEWER RETICULATION — PSM — PSM — PE SEWER PRESSURE MAIN ----- 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

■ LIMIT OF SUBDIVISION WORKS

RECYCLED WATER PROPERTY SERVICE CONNECTIONS
TOTAL 27 CONNECTIONS
SINGLE SERVICES IN ACCORDANCE WITH WAT-1106-V
-3 × SHORT SIDE
-6 × LONG SIDE
SPLIT SERVICES IN ACCORDANCE WITH WAT-1107-V
-1 × SHORT SIDE
-8 × LONG SIDE

RECY	CLED WATER PIPE	DATA
PIPE SIZE (mm)	PIPE MATERIAL	TOTAL LENGTH (m)
DN100	PVC-M PN16	570

NOTES:

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

2. FOR PRESSURE SEWER PIPEWORK DETAIL PLANS REFER TO DROS-020 TO 025.

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

ADW Johnson Pty Ltd on behalf of



Date Approved: 12/05/2016

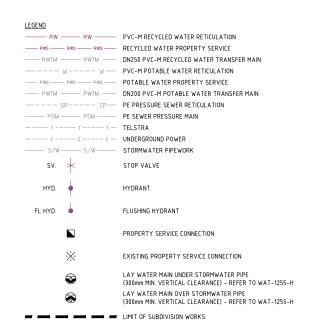
CONSTRUCTION ISSUE

POTABLE WATER, RECYCLED WATER AND REV. DATE AMENDMENT PROJECT DRAWN CHECK DESIGN VERIFY SCALES PROPERTY DESCRIPTION PRELIMINARY ISSUE
AMENDED ISSUE - FLOW SYSTEMS COMMENTS
CONSTRUCTION ISSUE
AMENDED CONSTRUCTION ISSUE - SERVICES LOCATIONS MODIFIED
AMENDED CONSTRUCTION ISSUE - SERVICES LOCATIONS MODIFIED
AMENDED CONSTRUCTION ISSUE - FLOW SYSTEMS COMMENTS Hunter Office 25.09.2015 03.11.2015 18.11.2015 J.N. J.N. J.N. J.N. J.N. J.N. PRESSURE SEWER RETICULATION L.G. L.G. L.G. L.G. L.G. L.G. PROPOSED SUBDIVISION Unit 7/335 Hillsborough Rd PLAN TITLE Warners Bay N.S.W. 2282 PRECINCT 2, STAGE 2.7 WATAGAN PARK RECYCLED WATER DETAIL PLAN Phone: (02) 4978 5100 **JOHNSON** WHISTLER DRIVE, COORANBONG (02) 4978 5199 - SHEET 3 **PROPERTY** DA/307/2015 email: hunter@adwjohnson.com.au www.adwjohnson.com.au ABN 62 129 445 398 **GROUP** Johnson 3 239078(2.7) ADW Johnson A.H.D. - WAT -014 ALL DIMENSIONS ARE IN METRES. DO NOT SCALE DESIGN FILE N:\

Plot Date: 13/09/21 - 22:55 Cad File: N:\239078\Dwg\Water & Sewer Design\Precinct 2 Water and Sewer\Stages 2.6 & 2.7\239078(2.7) - Issue 3\239078(2.7)-WAT-012(3).dwg







RECYCLED WATER PROPERTY SERVICE CONNECTIONS
TOTAL 27 CONNECTIONS

• SINGLE SERVICES IN ACCORDANCE WITH WAT—1106—V

—3 x SHORT SIDE

—6 x LONG SIDE

• SPLIT SERVICES IN ACCORDANCE WITH WAT—1107—V

—1 x SHORT SIDE

—8 x LONG SIDE

RECY	CLED WATER PIPE	DATA
PIPE SIZE (mm)	PIPE MATERIAL	TOTAL LENGTH (m)
DN100	PVC-M PN16	570

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 025.

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

ADW Johnson Pty Ltd on behalf of Cooranbong 🖨 Water

Date Approved: 12/05/2016

CONSTRUCTION ISSUE

	REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN VERIFY	SCALES			CLIENT	PROPERTY DESCRIPTION		PROJECT POTABLE V	/ATER, RECYCLED WA	TER AND	
			PRELIMINARY ISSUE AMENDED ISSUE - FLOW SYSTEMS COMMENTS	J.N.	L.G.	J.N. L.G.	0 5 10 A1 / A3		Hunter Office Unit 7/335 Hillsborough Rd		PROPOSED	SURDIVISION	PRESSI	JRE SEWER RETICULA	ATION	
-	0 1 1 0 2 0	18.11.2015 02.12.2015 01.04.2016	AMULTIDED 13012 - TEUN 31312M3 COMMILTIS CONSTRUCTION ISSUE - SERVICES LOCATIONS MODIFIED AMENDED CONSTRUCTION ISSUE - SERVICES LOCATIONS MODIFIED AMENDED CONSTRUCTION ISSUE - FLOW SYSTEMS COMMENTS	J.N. J.N. J.N. J.N.	L.G. L.G. L.G. L.G.	J.N. L.G. J.N. L.G. J.N. L.G. J.N. L.G.	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, STAGE WHISTLER DRIVI		PLAN TITLE RECY(CLED WATER DETAIL F - SHEET 4	PLAN	
륍								Johnson	www.adwjohnson.com.au ABN 62 129 445 398	GROUP	SURVEYED	DATUM	PROJECT No.	DISCIPLINE	NUMBER	REV.
-3[DESIGN F	TILE N:\					ALL DIMENSIONS ARE IN METRES. DO NOT SCALE	johnson	ABIN 02 123 443 330		ADW Johnson	A.H.D.	239078(2.7)	- WAT -	015	3

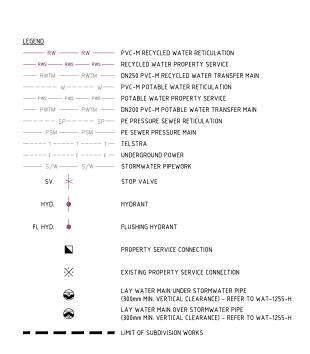
JOINS DRG-014

CARROLL CIRCUIT

PLAN SCALE 1: 250







RECYCLED WATER PROPERTY SERVICE CONNECTIONS
TOTAL 27 CONNECTIONS

• SINGLE SERVICES IN ACCORDANCE WITH WAT-1106-V

-3 × SHORT SIDE

-6 × LONG SIDE

• SPLIT SERVICES IN ACCORDANCE WITH WAT-1107-V

-1 × SHORT SIDE

-8 × LONG SIDE

REC'	YCLED WATER PIPE	DATA
PIPE SIZE (mm)	PIPE MATERIAL	TOTAL LENGTH (m)
DN100	PVC-M PN16	570

NOTES:

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

2. FOR PRESSURE SEWER PIPEWORK DETAIL PLANS REFER TO DROS-020 TO 025.

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

ADW Johnson Pty Ltd on behalf of

Cooranbong 🖨 Water

Date Approved: 12/05/2016

CONSTRUCTION ISSUE

POTABLE WATER, RECYCLED WATER AND REV. DATE AMENDMENT PROJECT PROPERTY DESCRIPTION Hunter Office PRESSURE SEWER RETICULATION L.G. L.G. L.G. L.G. L.G. L.G. PROPOSED SUBDIVISION Unit 7/335 Hillsborough Rd PLAN TITLE Warners Bay N.S.W. 2282 Phone: (02) 4978 5100 PRECINCT 2, STAGE 2.7 WATAGAN PARK RECYCLED WATER DETAIL PLAN JOHNSON WHISTLER DRIVE, COORANBONG (02) 4978 5199 - SHEET 5 **PROPERTY** DA/307/2015 email: hunter@adwjohnson.com.au www.adwjohnson.com.au ABN 62 129 445 398 **GROUP** ALL DIMENSIONS ARE IN METRES. DO NOT SCALE ONNSON 3 239078(2.7) - WAT -ADW Johnson A.H.D. 016 DESIGN FILE N:\

1023

EXISTING

STAGE 2.6

Cad File: N:\239078\Dwg\Water & Sewer Design\Precinct 2 Water and Sewer\Stages 2.6 & 2.7\239078(2.7) - Issue 3\239078(2.7)-WAT-012(3).dwg

CARROLL CIRCUIT

PLAN

SCALE 1: 250

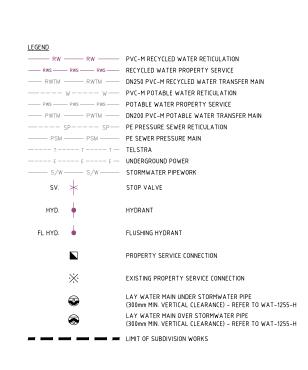
1023

EXISTING

STAGE 2.6







RECYCLED WATER PIPE DATA PIPE SIZE (mm) PIPE MATERIAL TOTAL LENGTH (m) DN100 PVC-M PN16 570

RECYCLED WATER PROPERTY SERVICE CONNECTIONS
TOTAL 27 CONNECTIONS

• SINGLE SERVICES IN ACCORDANCE WITH WAT-1106-V

-3 × SHORT SIDE

-6 × LONG SIDE

• SPLIT SERVICES IN ACCORDANCE WITH WAT-1107-V

-1 × SHORT SIDE

-8 × LONG SIDE

NOTES:

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

2. FOR PRESSURE SEWER PIPEWORK DETAIL PLANS REFER TO DROS-020 TO 025.

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

ADW Johnson Pty Ltd on behalf of

Cooranbong Water

Date Approved: 12/05/2016

CONSTRUCTION ISSUE

POTABLE WATER, RECYCLED WATER AND REV. DATE AMENDMENT PROJECT DRAWN CHECK DESIGN VERIFY SCALES CLIENT PROPERTY DESCRIPTION Hunter Office PRELIMINARY ISSUE
AMENDED ISSUE - FLOW SYSTEMS COMMENTS
CONSTRUCTION ISSUE
AMENDED CONSTRUCTION ISSUE - SERVICES LOCATIONS MODIFIED
AMENDED CONSTRUCTION ISSUE - SERVICES LOCATIONS MODIFIED
AMENDED CONSTRUCTION ISSUE - FLOW SYSTEMS COMMENTS 25.09.2015 03.11.2015 18.11.2015 02.12.2015 J.N. J.N. J.N. J.N. J.N. J.N. PRESSURE SEWER RETICULATION L.G. L.G. L.G. L.G. L.G. L.G. PROPOSED SUBDIVISION Unit 7/335 Hillsborough Rd PLAN TITLE Warners Bay N.S.W. 2282 PRECINCT 2, STAGE 2.7 WATAGAN PARK RECYCLED WATER DETAIL PLAN Phone: (02) 4978 5100 JOHNSON WHISTLER DRIVE, COORANBONG (02) 4978 5199 - SHEET 6 **PROPERTY** DA/307/2015 email: hunter@adwjohnson.com.au www.adwjohnson.com.au ABN 62 129 445 398 **GROUP** ALL DIMENSIONS ARE IN METRES. DO NOT SCALE JOHNSON 3 239078(2.7) ADW Johnson A.H.D. - WAT -017 DESIGN FILE N:\ Cad File: N:\239078\Dwg\Water & Sewer Design\Precinct 2 Water and Sewer\Stages 2.6 & 2.7\239078(2.7) - Issue 3\239078(2.7)-WAT-012(3).dwg

F 034 CIRCUIT CARROLL

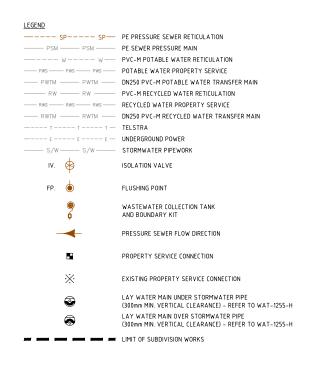
PLAN

SCALE 1: 250

REMOVE EXISTING FLUSHING

HYDRANT AND THRUST BLOCK
AND CONNECT TO EXISTING
DN100 RETICULATION PIPEWORK





PRESSURE SEWER PROPERTY SERVICE CONNECTIONS

TOTAL 27 CONNECTIONS

SINCLE SERVICES

-5 x SHORT SIDE

-22 x LONG SIDE

PRES	SSURE SEWER PIPE	DATA
PIPE SIZE (mm)	PIPE MATERIAL	TOTAL LENGTH (m)
DN63	PE100 PN16	73
DN50	PE100 PN16	426

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).

ADW Johnson Pty Ltd on behalf of Cooranbong 🖨 Water

CONSTRUCTION ISSUE

Date Approved: 12/05/2016

ŀ	A 25.09	ATE AMENDMENT 9.2015 PRELIMINARY ISSUE	DRAWN CHECK DESIGN VERIF	0 5 10 A1 / A3		Hunter Office	CLIENT	PROPERTY DESCRIPTION PROPOSED S	NIDDIVICION		/ATER, RECYCLED W/ JRE SEWER RETICUL		
-	0 18.11. 1 02.12 2 01.04	1.2015 AMENDED ISSUE - FLOW SYSTEMS COMMENTS 1.2015 CONSTRUCTION ISSUE - SERVICES LOCATIONS MODIFIED 4.2016 AMENDED CONSTRUCTION ISSUE - SERVICES LOCATIONS MODIFIED 5.2016 AMENDED CONSTRUCTION ISSUE - FLOW SYSTEMS COMMENTS	J.N. L.G.	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	PROPOSED 3 PRECINCT 2, STAGE WHISTLER DRIVE DA/301	2.7 WATAGAN PARK , COORANBONG	PLAN TITLE PRESS	SURE SEWER DETAIL - SHEET 1	PLAN	
1	DESIGN FILE	N: \		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(2.7)	DISCIPLINE - WAT -	NUMBER 020	REV.

1202

1201

721

FUTURE

STAGE 2.10

868

EXTEND DNS0 PIPEWORK 5.0m BEYOND LIMIT OF SUBDIVISION WORKS AND CAP

723

SHIPWRIGHT STREET

PLAN

SCALE 1: 250

870

FUTURE STAGE 2.8 852

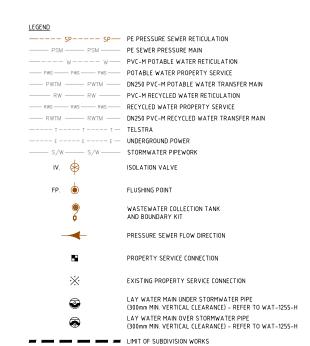
CARROLL CIRCUIT

EXTEND DN50 PIPEWORK 5.0m

BEYOND LIMIT OF SUBDIVISION: WORKS AND CAP







PRESSURE SEWER PROPERTY SERVICE CONNECTIONS

TOTAL 27 CONNECTIONS

SINCLE SERVICES

-5 x SHORT SIDE

-22 x LONG SIDE

PRES	SSURE SEWER PIPE	DATA
PIPE SIZE (mm)	PIPE MATERIAL	TOTAL LENGTH (m)
DN63	PE100 PN16	73
DN50	PE100 PN16	426

- 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).

ADW Johnson Pty Ltd on behalf of Cooranbong 🖨 Water Date Approved: 12/05/2016

CONSTRUCTION ISSUE

- RE	V. DATE	AMENDMENT	DRAWN	CHECK DESI	GN VERIFY	SCALES		Hunter Office	CLIENT	PROPERTY DESCRIPTION			VATER, RECYCLED WA		
- B 0	3 03.11.2015 18.11.2015 1 02.12.2015	PRELIMINARY ISSUE AMENDED ISSUE - FLOW SYSTEMS COMMENTS CONSTRUCTION ISSUE AMENDED CONSTRUCTION ISSUE - SERVICES LOCATIONS MODIFIED	J.N. J.N. J.N. J.N.	L.G. J.N L.G. J.N L.G. J.N L.G. J.N	L.G. L.G. L.G. L.G.	0 5 10 A1 / A3 1:250 / 1:500		Unit 7/335 Hillsborough Rd Warners Bay N.S.W. 2282 Phone: (02) 4978 5100	LOUINGON	PRECINCT 2, STAGE		PLAN TITLE	URE SEWER RETICUL	-	
3		AMENDED CONSTRUCTION ISSUE - SERVICES LOCATIONS MODIFIED AMENDED CONSTRUCTION ISSUE - FLOW SYSTEMS COMMENTS	J.N. J.N.	L.G. J.N L.G. J.N	L.G. L.G.		adw	Fax: (02) 4978 5199 email:hunter@adwjohnson.com.au	JOHNSON PROPERTY GROUP		E, COORANBONG 7/2015	T NEOC	- SHEET 2	. 27 11 4	
DES	SIGN FILE N:\					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(2.7)	DISCIPLINE - WAT -	NUMBER 021	REV.

723

724

DN50 x 22.5° BEND (SEE NOTE 4)

<u>/a</u>

PLAN SCALE 1: 250

/■/

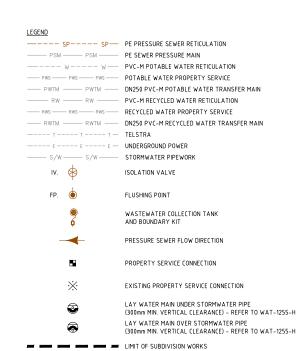
COSSENIME

144

721







PRESSURE SEWER PROPERTY SERVICE CONNECTIONS

TOTAL 27 CONNECTIONS

SINCLE SERVICES

-5 x SHORT SIDE

-22 x LONG SIDE

PRESSURE SEWER PIPE DATA										
PIPE SIZE (mm)	PIPE MATERIAL	TOTAL LENGTH (m)								
DN63	PE100 PN16	73								
DN50	PE100 PN16	426								

NOTES:

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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.

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ADW Johnson Pty Ltd on behalf of Cooranbong 🖨 Water

CONSTRUCTION ISSUE

Date Approved: 12/05/2016

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_ F	REV. DAT	ΓE .	AMENDMENT	DRAWN	CHECK	DESIGN V	ERIFY	SCALES			CLIENT	PROPERTY DESCRIPTION		PROJECT POTABL	E WATER, RECYCLED W	ATER AND	
			PRELIMINARY ISSUE	J.N.	L.G.	J.N.	L.G.	0 5 10 A1 / A3		Hunter Office Unit 7/335 Hillsborough Rd		DDODOSED	CLIDDI//ICION	PRE	SSURE SEWER RETICUL	_ATION	
1	0 18.11.2 1 02.12.2 2 01.04.3	2015 2015 2016	AMENDED ISSUE - FLOW SYSTEMS COMMENTS CONSTRUCTION ISSUE AMENDED CONSTRUCTION ISSUE - SERVICES LOCATIONS MODIFIED AMENDED CONSTRUCTION ISSUE - SERVICES LOCATIONS MODIFIED AMENDED CONSTRUCTION ISSUE - FLOW SYSTEMS COMMENTS		L.G.	J.N. J.N. J.N. J.N.	L.G.	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 GROUP	PRECINCT 2, STAGE WHISTLER DRIV	SUBDIVISION : 2.7 WATAGAN PARK E, COORANBONG 7/2015	PLAN TITLE PR	ESSURE SEWER DETAIL - SHEET 3	PLAN	
릨									le breen	www.adwjohnson.com.au	GROUP	SURVEYED	DATUM	PROJECT No.	DISCIPLINE	NUMBER	REV.
	DESIGN FILE N	•	0.1.0.1.47/00/04							ABN 62 129 445 398		ADW Johnson	A.H.D.	239078(2.	7) – WAT –	022	3

McDOWELL STREET.

REMOVE EXISTING END CAP -AND CONNECT TO EXISTING DN63 PRESSURE SEWER PIPEWORK

717

713

PLAN

SCALE 1: 250

1009

THE STATE OF THE S

1016

EXISTING STAGE 2.6







PRESSURE SEWER PROPERTY SERVICE CONNECTIONS

TOTAL 27 CONNECTIONS

SINGLE SERVICES

-5 × SHORT SIDE

-22 × LONG SIDE

		DATA
PIPE SIZE (mm)	PIPE MATERIAL	TOTAL LENGTH (m)
DN63	PE100 PN16	73
DN50	PE100 PN16	426

- NOTES:

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ADW Johnson Pty Ltd on behalf of Cooranbong 🖨 Water Date Approved: 12/05/2016

CONSTRUCTION ISSUE

- RI				SSUE J.N. L.G. J.N. L.G. 0 5 10 A1 / A3					PROPERTY DESCRIPTION		PROJECT POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION				
	0 18.11.2015 1 02.12.2015 2 01.04.2016	AMENDED CONSTRUCTION ISSUE — SERVICES LOCATIONS MODIFIED AMENDED CONSTRUCTION ISSUE — SERVICES LOCATIONS MODIFIED AMENDED CONSTRUCTION ISSUE — FLOW SYSTEMS COMMENTS	J.N. L.G. J.N.	L.G. L.G. L.G. L.G.	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	PROPOSED SUBDIVISION PRECINCT 2, STAGE 2.7 WATAGAN PARK WHISTLER DRIVE, COORANBONG DA/307/2015		PLAN TITLE	PRESSURE SEWER DETAIL - SHEET 4	L PLAN		
4						labraan	www.adwjohnson.com.au	GROUP	SURVEYED	DATUM	PROJECT No.	DISCIPLINE	NUMBER	REV.	
_E	SIGN FILE N:\			AL	LL DIMENSIONS ARE IN METRES. DO NOT SCALE	1109 II 1201 I	ABN 62 129 445 398		ADW Johnson	A.H.D.	239078	3(2.7) - WAT -	023	3	

JOINS DRG-022

CARROLL CIRCUIT

PLAN SCALE 1: 250







PRESSURE SEWER PIPE DATA										
PIPE SIZE (mm)	PIPE MATERIAL	TOTAL LENGTH (m)								
DN63	PE100 PN16	73								
DN50	PF100 PN16	426								

NOTES:

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CONSTRUCTION ISSUE

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RE	V. DATE	AMENDMENT	DRAWN	CHECK DE	ESIGN VERIF	SCALES			CLIENT	PROPERTY DESCRIPTION		PROJECT POTABLE	WATER, RECYCLED W	ATER AND	
4	25.09.2015	PRELIMINARY ISSUE AMENDED ISSUE - FLOW SYSTEMS COMMENTS	J.N.	L.G.	J.N. L.G.	0 5 10 A1 / A3		Hunter Office Unit 7/335 Hillsborough Rd		PROPOSED	SUBDIVISION	PRESS	SURE SEWER RETICUL	ATION	
1 6	18.11.2015	CONSTRUCTION ISSUE	J.N. J.N.	L.G.	J.N. L.G.	1:250 / 1:500		Warners Bay N.S.W. 2282			SUBDIVISION E 2.7 WATAGAN PARK	PLAN TITLE			
	02.12.2015 01.04.2016	AMENDED CONSTRUCTION ISSUE — SERVICES LOCATIONS MODIFIED AMENDED CONSTRUCTION ISSUE — SERVICES LOCATIONS MODIFIED	J.N. J.N.	L.G.	J.N. L.G. J.N. L.G.		ار در مار در	Phone: (02) 4978 5100	JOHNSON		E, COORANBONG	PRES	SURE SEWER DETAIL	PLAN	
3	18.05.2016	AMENDED CONSTRUCTION ISSUE - FLOW SYSTEMS COMMENTS	J.N.	L.G.	J.N. L.G.		aawi	Fax: (02) 4978 5199 email: hunter@adwiohnson.com.au	PROPERTY	II	17/2015		- SHEET 5		
ᅦ								www.adwjohnson.com.au	GROUP						
							labnean	ABN 62 129 445 398	GROUP	SURVEYED	DATUM	PROJECT No.	DISCIPLINE	NUMBER	REV.
_E	SIGN FILE N:\				·	ALL DIMENSIONS ARE IN METRES. DO NOT SCALE	johnson	MDN 02 129 445 596		ADW Johnson	A.H.D.	239078(2.7)	- WAT -	024	3

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EXISTING

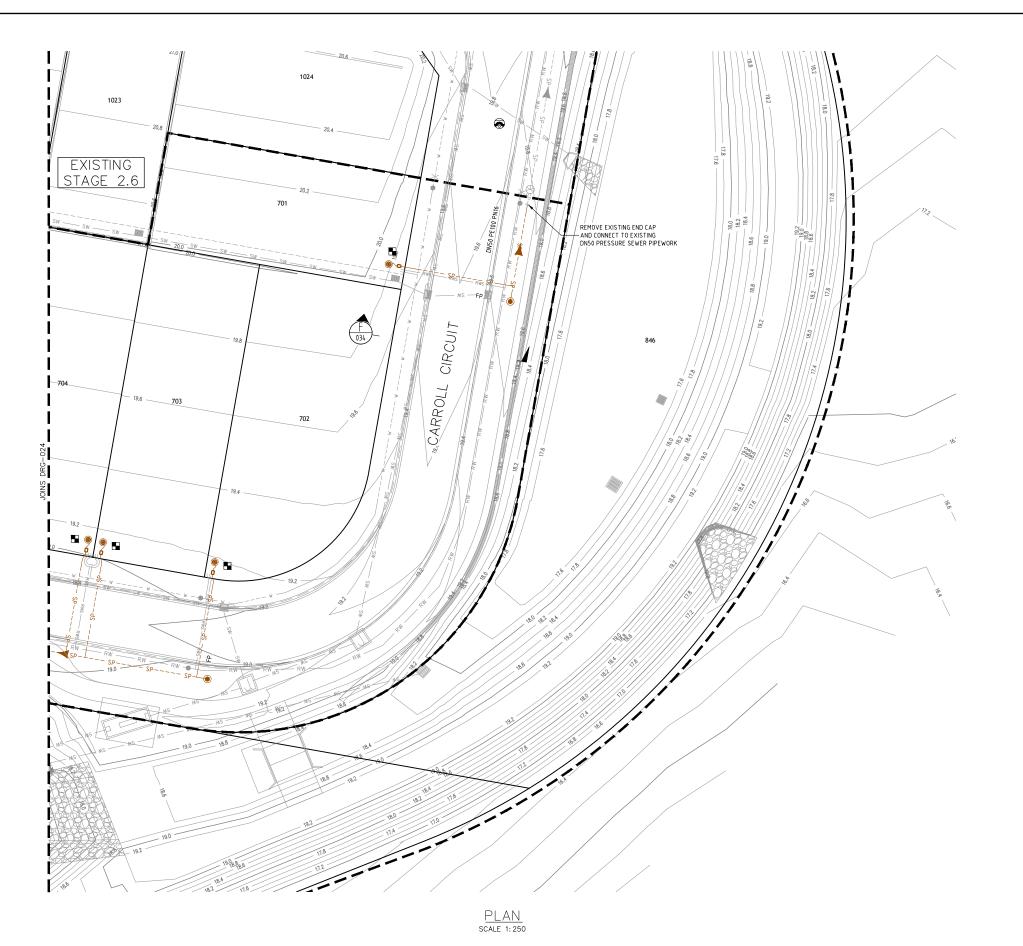
STAGE 2.6

CARROLL CIRCUIT

PLAN SCALE 1: 250







<u>LEGEND</u>

---- SP---- SP-- PE PRESSURE SEWER RETICULATION PSM PSM PE SEWER PRESSURE MAIN ----- W----- W--- PVC-M POTABLE WATER RETICULATION PWS ---- PWS ---- PWS ---- POTABLE WATER PROPERTY SERVICE PWTM --- DN250 PVC-M POTABLE WATER TRANSFER MAIN PVC-M RECYCLED WATER RETICULATION RWS ---- RWS ---- RECYCLED WATER PROPERTY SERVICE RWTM ---- RWTM --- DN250 PVC-M RECYCLED WATER TRANSFER MAIN ----- 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

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

LIMIT OF SUBDIVISION WORKS

PRESSURE SEWER PROPERTY SERVICE CONNECTIONS

TOTAL 27 CONNECTIONS

SINCLE SERVICES

-5 x SHORT SIDE

-22 x LONG SIDE

PRESSURE SEWER PIPE DATA										
PIPE SIZE (mm)	PIPE MATERIAL	TOTAL LENGTH (m)								
DN63	PE100 PN16	73								
DN50	PE100 PN16	426								

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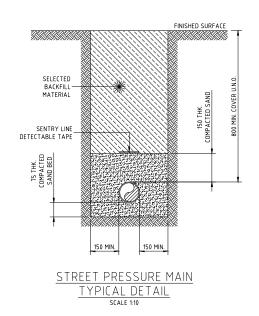
ADW Johnson Pty Ltd on behalf of Cooranbong 🖨 Water

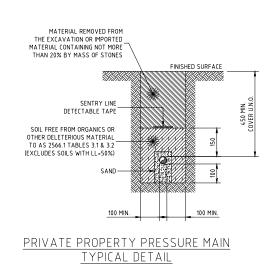
Date Approved: 12/05/2016

CONSTRUCTION ISSUE

RE	. DA1	ATE	AMENDMENT	DRAW	N CHECK	DESIG	SIGN VERIFY SCALES				CLIENT		PROPERTY DESCRIPTION		PROJECT POTABLE W	/ATER, RECYCLED W/	ATER AND		
- A B 0	25.09. 03.11. 18.11.2	.2015 .2015	PRELIMINARY ISSUE AMENDED ISSUE - FLOW SYSTEMS COMMENTS CONSTRUCTION ISSUE - SERVICES LOCATIONS MODIFIED	J.N. J.N. J.N.	L.G. L.G. L.G.	J.N. J.N. J.N.		A1 / A3 250 / 1:500		Hunter Office Unit 7/335 Hillsborough Rd Warners Bay N.S.W. 2282			 	SUBDIVISION E 2.7 WATAGAN PARK	PLAN TITLE	JRE SEWER RETICUL	-		
3	02.12. 01.04. 18.05.	.2016	AMENDED CONSTRUCTION ISSUE – SERVICES LOCATIONS MODIFIED AMENDED CONSTRUCTION ISSUE – FLOW SYSTEMS COMMENTS		L.G. L.G.	J.N. J.N. J.N.	N. L.G. N. L.G.		adw	Phone: (02) 4978 5100 Fax: (02) 4978 5199 email:hunter@adwjohnson.com.au	N Pi	OHNSON ROPERTY	WHISTLER DRIVE, COORANBONG DA/307/2015		PRESS	PRESSURE SEWER DETAIL PLAN - SHEET 6			
DES	GN FILE 1	N: \					ALL DIMENSIONS ARE IN METRES.	DO NOT SCALE	Johnsor	www.adwjohnson.com.au ABN 62 129 445 398	\ G	ROUP	SURVEYED ADW Johnson	DATUM A.H.D.	PROJECT No. 239078(2.7)	DISCIPLINE - WAT -	NUMBER 025	REV.	







SCALE 1:10

NOTES:

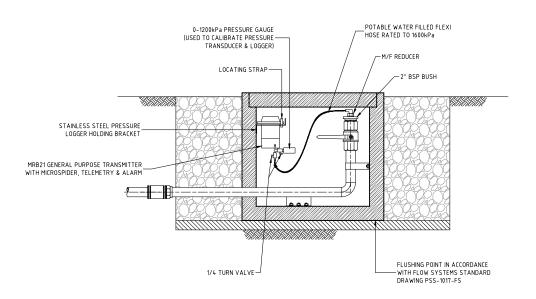
ALL POLYETHYLENE FITTINGS SHALL BE JOINED USING ELECTROFUSION JOINTING TECHNIQUES IN ACCORDANCE WITH MANUFACTURERS REQUIREMENTS. ROTATE BENDS AS NECESSARY.

CONSTRUCTION ISSUE

ADW Johnson Pty Ltd on behalf of Cooranbong Water Date Approved: 12/05/2016

CLIENT PROPERTY DESCRIPTION POTABLE WATER, RECYCLED WATER AND PROJECT SCALES 25.09.2015 03.11.2015 18.11.2015 02.12.2015 01.04.2016 18.05.2016 PRELIMINARY ISSUE
AMENDED ISSUE - FLOW SYSTEMS COMMENTS
CONSTRUCTION ISSUE
AMENDED CONSTRUCTION ISSUE - SERVICES LOCATIONS MODIFIED
AMENDED CONSTRUCTION ISSUE - SERVICES LOCATIONS MODIFIED
AMENDED CONSTRUCTION ISSUE - FLOW SYSTEMS COMMENTS 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 2.7 WATAGAN PARK JOHNSON PROPERTY GROUP WHISTLER DRIVE, COORANBONG TYPICAL PIPEWORK TRENCHING DETAILS Fax: (02) 4978 5199 email: hunter@adwjohnson.com.au adw DA/307/2015 ALL DIMENSIONS ARE IN METRES. DO NOT SCALE JOHNSON ARE IN METRES. REV. 239078(2.7) - WAT -028 A.H.D. ADW Johnson DESIGN FILE N:\





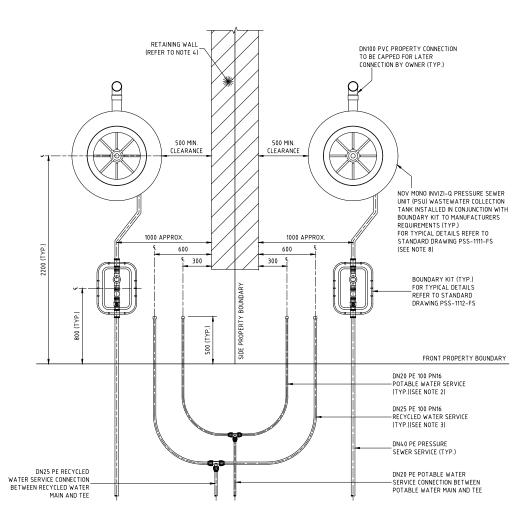
PRESSURE MONITORING POINT TYPICAL DETAIL



CONSTRUCTION ISSUE

Date Approved: 12/05/2016

REV. DATE AMENDMENT HECK DESIGN VERIFY SCALES CLIENT PROPERTY DESCRIPTION PROJECT POTABLE WATER, RECYCLED WATER AND 25.09.2015 03.11.2015 18.11.2015 02.12.2015 01.04.2016 18.05.2016 PRELIMINARY ISSUE
AMENDED ISSUE - FLOW SYSTEMS COMMENTS
CONSTRUCTION ISSUE
AMENDED CONSTRUCTION ISSUE - SERVICES LOCATIONS MODIFIED
AMENDED CONSTRUCTION ISSUE - SERVICES LOCATIONS MODIFIED
AMENDED CONSTRUCTION ISSUE - FLOW SYSTEMS COMMENTS Hunter Office J.N. J.N. J.N. J.N. J.N. PRESSURE SEWER RETICULATION Unit 7/335 Hillsborough Rd Warners Bay N.S.W. 2282 Phone: (02) 4978 5100 PROPOSED SUBDIVISION PLAN TITLE PRECINCT 2, STAGE 2.7 WATAGAN PARK JOHNSON PROPERTY GROUP PRESSURE TRANSMITTER WHISTLER DRIVE, COORANBONG Fax: (02) 4978 5199 email: hunter@adwjohnson.com.au TYPICAL DETAIL DA/307/2015 ALL DIMENSIONS ARE IN METRES. DO NOT SCALE JOHNSON ABN 62 129 445 398 REV. A.H.D. 239078(2.7) - WAT -029 ADW Johnson DESIGN FILE N: \



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 PM16 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
- 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 (LEARANCE 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 (LEARANCE FROM BUILDING STRUCTURES.
- 9. \$\psi 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.

ADW Johnson Pty Ltd on behalf of Cooranbong * Water

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Date Approved: 12/05/2016

CONSTRUCTION ISSUE

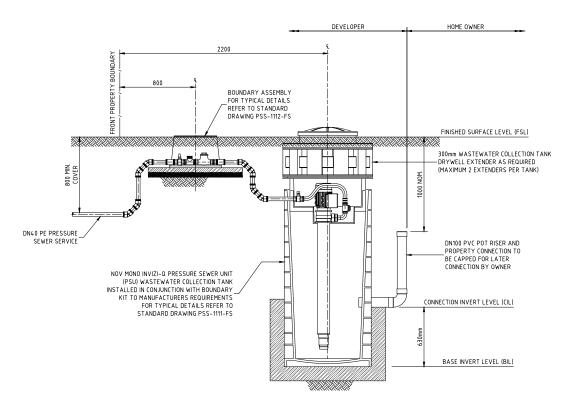
POTABLE WATER, RECYCLED WATER AND CLIENT PROPERTY DESCRIPTION PROJECT PRELIMINARY ISSUE
AMENDED ISSUE - FLOW SYSTEMS COMMENTS
CONSTRUCTION ISSUE
AMENDED CONSTRUCTION ISSUE - SERVICES LOCATIONS MODIFIED
AMENDED CONSTRUCTION ISSUE - SERVICES LOCATIONS MODIFIED
AMENDED CONSTRUCTION ISSUE - FLOW SYSTEMS COMMENTS Hunter Office PRESSURE SEWER RETICULATION 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 2.7 WATAGAN PARK 0.8 A1 / A3 1:20 / 1:40 **JOHNSON** WHISTLER DRIVE, COORANBONG TYPICAL SERVICE CONNECTION DETAILS 01.04.2016 18.05.2016 Fax: (02) 4978 5199 aaw **PROPERTY** DA/307/2015 email: hunter@adwjohnson.com.a GROUP ALL DIMENSIONS ARE IN METRES. DO NOT SCALE JOHNSON 3 ABN 62 129 445 398 239078(2.7) - WAT -030 ADW Johnson A.H.D. DESIGN FILE N:\

Plotted By: marks Plot Date: 13/09/21 - 23:00 Cad File: N:\239078\Dwg\Water & Sewer Design\Precinct 2 Water and Sewer\Stages 2.6 & 2.7\239078(2.7) - Issue 3\239078(2.7) - WAT-028(3).dwg



	WASTEWAT	ER COLLECTION T	ANK LEVEL DETAI	LS
LOT NUMBER	FINISHED SURFACE LEVEL (FSL)	TANK BASE INVERT LEVEL (BIL)	TANK CONNECTION INVERT LEVEL (CIL)	NUMBER OF DRYWELL EXTENDERS
1015	24.15	22.02	22.65	0
1016	23.46	21.33	21.96	0
1017	23.10	20.97	21.60	0
1018	21.95	19.82	20.45	0
1019	20.76	18.63	19.26	0
1020	20.17	18.04	18.67	0
1021	19.49	17.36	17.99	0
1022	20.70	18.57	19.20	0
1023	20.60	18.47	19.10	0
1024	20.36	18.23	18.86	0
1025	20.35	18.22	18.85	0
1026	20.11	17.98	18.61	0
1027	20.01	17.88	18.51	0
1028	19.77	17.64	18.27	0
1029	19.61	17.48	18.11	0
1030	19.59	17.46	18.09	0
1031	19.22	17.09	17.72	0
1032	19.16	17.03	17.66	0
1033	19.11	16.98	17.61	0
1034	19.12	16.99	17.62	0
1035	19.18	17.05	17.68	0
1036	19.83	17.70	18.33	0
1047	22.47	20.34	20.97	0
1048	23.48	21.35	21.98	0
1049	24.09	21.96	22.59	0
1101	19.77	17.64	18.27	0
1124	22.46	20.33	20.96	0

WASTEWATER COLLECTION TANK TO BE PLACED IN FRONT OF LOT ON LOW SIDE



PRESSURE SEWER SERVICE CONNECTION TYPICAL SECTIONAL ELEVATION

SCALE 1:20

SCALE 1:20

(SHOWN AS FRONT OF LOT SERVICE CONNECTION WITH 1 DRYWELL EXTENDER)

- NOTE:

 1. WASTEWATER COLLECTION TANK INVERT LEVEL(IL)=FINISHED SURFACE LEVEL(FSL)

 MINUS 2130 FOR 0 DRYWELL EXTENDERS

 MINUS 2430 FOR 1 DRYWELL EXTENDERS

 MINUS 2730 FOR 2 DRYWELL EXTENDERS

 FOR FURTHER DETAILS REFER TO STANDARD DRAWING PSS—1113—FS.

ADW Johnson Pty Ltd on behalf of Cooranbong 🖨 Water

CONSTRUCTION ISSUE

Date Approved: 12/05/2016

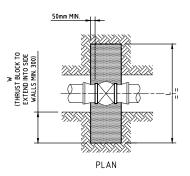
╢	A 25.09.2015	PRELIMINARY ISSUE	J.N.	L.G.	J.N.	ERIFY SCALES		Hunter Office	CLIENT	PROPERTY DESCRIPTION			WATER, RECYCLED WA' SURE SEWER RETICULA	
	03.11.2015 0 18.11.2015 1 02.12.2015 2 01.04.2016 3 18.05.2016	AMENDED ISSUE - FLOW SYSTEMS COMMENTS CONSTRUCTION ISSUE AMENDED CONSTRUCTION ISSUE - SERVICES LOCATIONS MODIFIED AMENDED CONSTRUCTION ISSUE - SERVICES LOCATIONS MODIFIED AMENDED CONSTRUCTION ISSUE - FLOW SYSTEMS COMMENTS	J.N. J.N. J.N. J.N. J.N.	L.G. L.G. L.G. L.G.	J.N. J.N. J.N. J.N. J.N.	L.G. L.G. L.G. L.G.	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	JOHNS PROPE	PRECINCT 2, STAG ON WHISTLER DRI ERTY DAY	PROPOSED SUBDIVISION PRECINCT 2, STAGE 2.7 WATAGAN PARK WHISTLER DRIVE, COORANBONG DA/307/2015		EWATER COLLECTION 1 LEVEL DETAILS	FANK
-	DESIGN FILE N:\					ALL DIMENSIONS ARE IN ME	TRES. DO NOT SCALE JOHNSON	www.adwjohnson.com.au ABN 62 129 445 398	GROUI	SURVEYED ADW Johnson	DATUM A.H.D.	PROJECT No. 239078(2.7)	DISCIPLINE - WAT -	NUMBER RI

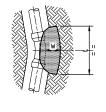
Plotted By: marks Plot Date: 13/09/21 - 23:00 Cad File: N:\239078\Dwg\Water & Sewer Design\Precinct 2 Water and Sewer\Stages 2.6 & 2.7\239078(2.7) - Issue 3\239078(2.7) - WAT-028(3).dwg

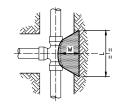
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ADW Johnson









PLAN





HOLD DOWN STRAP MATERIAL: 316 STAINLESS STEEL N.T.S.

SUIT PIPE



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

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

TYPE	FITTING	Sail AHBP (Kpa)	Design STP(Kpa)	Thrust	TA (m2)	Length (L)	He ight (H)	Width (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	0.63	0.83	0.76	0.40
6	DN200 x DN 200 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	D N200 x 11.25° BEND	100	1000	8.10	0.08	0.30	0.30	0.30
12	D N200 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 DN 100 ECUAL 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° BE ND	100	1000	2.20	0.02	0.30	0.30	0.30
20	DN100 STOPVALVE	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°.
- 5. CONCRETE FOR THE THRUST BLOCKS TO BE GRADE \$25 USING CEMENT TYPE "SR" TO A\$3972. 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.
- 8. REFER TO WAT-1207-V FOR GENERAL VALVE AND VERTICAL BEND THRUST BLOCK ARRANGEMENTS.

ADW Johnson Pty Ltd on behalf of Cooranbong 3 Water Date Approved: 12/05/2016

CONSTRUCTION ISSUE

REV. DATE AMENDMENT DRAWN CHECK DESIGN VER	Y SCALES Hunter Office	CLIENT	PROPERTY DESCRIPTION		PROJECT POTABLE WA	ATER, RECYCLED WATE	DAND
4 05 00 0045 DDELININADY ICCUIE	☐ Hunter Office					ALER, RECTULED WATE	R AND
A 25.09.2015 PRELIMINARY ISSUE J.N. L.G. J.N. J.N. L.G. J.N. J.N. J. J.N. J.	Hait 7/775 Hillahaman	L D.1	PROPOSED SUE	DDIVICION	PRESSUF	RE SEWER RETICULATI	ON
0 18.11.2015 CONSTRUCTION ISSUE J.N. L.G. J.N. L.G.	Unit 7/335 Hillsborou Warners Bay N.S.W. 2		PRECINCT 2, STAGE 2.7		PLAN TITLE		
1 02.12.2015 AMENDED CONSTRUCTION ISSUE - SERVICES LOCATIONS MODIFIED J.N. L.G. J.N. L	Phone: (02) 4978 51		WHISTLER DRIVE, C		THR	RUST BLOCK DETAILS	
3 18.05.2016 AMENDED CONSTRUCTION ISSUE - FLOW SYSTEMS COMMENTS J.N. L.G. J.N. L.G.	Fax: (02) 4978 51 email: hunter@adwjohnson.	DDODEDTV	DA/307/20		1		
	www.adwiohnson.com.						
		ONOOI	SURVEYED	DATUM	PROJECT No.		UMBER REV.
DESIGN FILE N:\	ALL DIMENSIONS ARE IN METRES. DO NOT SCALE JOHNSON ABN 62 129 445 39		ADW Johnson	A.H.D.	239078(2.7)	- WAT -	036 3

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