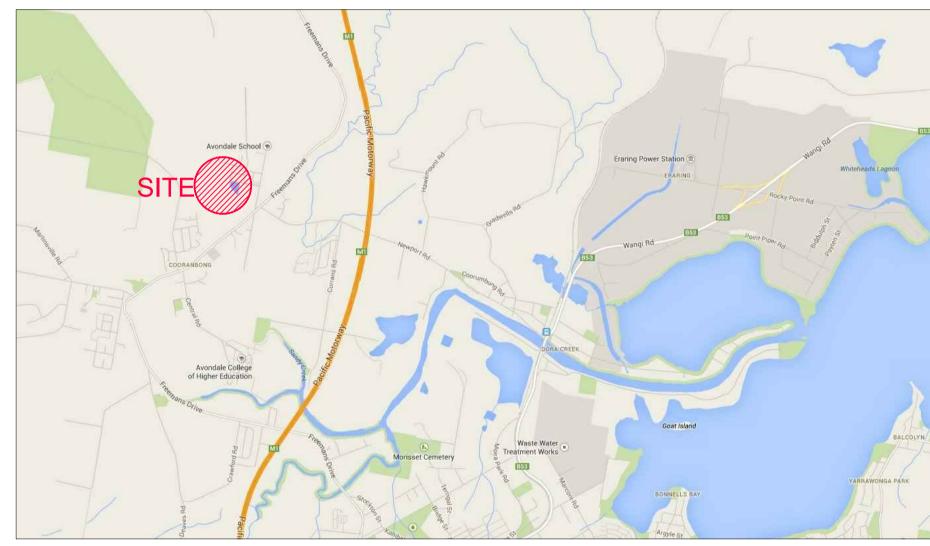
WATAGAN PARK SMALL LOT HOUSING DEVELOPMENT PROPOSED SUBDIVISION OF LOT 84 D.P.1237780 COURIN STREET, COORANBONG





LOCALITY	SKETCH
NOT TO	SCALE

	DRAWING INDEX
DRAWING	DRAWING TITLE
NUMBER 239078(25)S-WAT-00 1	COVER SHEET, LOCALITY PLAN AND DRAWING INDEX
239078(25)S-WAT-00 2	GENERAL NOTES
239078(25)S-WAT-00 3	NOT USED
239078(25)S-WAT-00 4	POTABLE WATER DETAIL PLAN
239078(25)S-WAT-00 5	NOT USED
239078(25)S-WAT-00 6	RECYCLED WATER DETAIL PLAN
239078(25)S-WAT-00 7	NOT USED
239078(25)S-WAT-00 8	PRESSURE SEWER DETAIL PLAN
239078(25)S-WAT-00 9	NOT USED
239078(25)S-WAT-01	TYPICAL PIPEWORK TRENCHING AND SERVICE CONNECTION DETAILS
239078(25)S-WAT-011	WASTE WATER COLLECTION TANK LEVEL DETAILS

		WORK-AS-CONSTRUCTED CERTIFICATION			
DEV	ELOPER:	JOHNSON PROPERTY GROUP			
PROJECT SUPERVISOR: ROSE ATKINS RIMMER (INFRASTRUCTURE)					
CON	ISTRUCTOR:	DARACON GROUP			
COV	MPLETED:	W.A.C. PREPARED:	15/2/2019		
REV	. DATE	AMENDMENT			

DRAWN CHECK DESIGN VERIFY SCALES PRELIMINARY ISSUE CONSTRUCTION ISSUE J.N. WORK-AS-CONSTRUCTED V.V. ESIGN FILE N: \ ALL DIMENSIONS ARE IN METRES. DO NOT SCA



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

CLIENT **JOHNSON** PROPERTY GROUP

PROPERTY DESCRIPTION WATAGAN PARK SMALL LOT HOUSING DEVELOPMENT

PROPOSED SUBDIVISION OF LOT 84 D.P.1237780 COURIN STREET, COORANBONG

POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION

WORK-AS-CONSTRUCTED

WAC

PLAN TITLE COVER SHEET, LOCALITY PLAN AND DRAWING INDEX

SURVEYED PROJECT No. DISCIPLINE NUMBER 239078(25) - WAT -001 ADW Johnson A.H.D.

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 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 COMMENCEMENT.
- 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 SUPERINTENDENT.
- 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 OF CONSTRUCTION.
- 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 MATERIALS REGISTER.
- 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)
 - FSI-1000-FS ON-LOT INFRASTRUCTURE INSTALLATION SET OUT DETAILS.
 - FSI-1001A-FS TYPICAL INFRASTRUCTURE STAGING DIAGRAM TANK IN FRONT OF PROPERTY. • FSI-1001B-FS TYPICAL INFRASTRUCTURE STAGING DIAGRAM - TANK IN REAR OF PROPERTY.
 - FSI-1002-FS TYPICAL ON-LOT WIRING DIAGRAM.
 - FSI-1003-FS TYPICAL WASTEWATER COLLECTION TANK CONTROL PANEL AND DMU ARRANGEMENT.

 - FSI-1005-FS INFRASTRUCTURE INSTALLATION RESPONSIBILTY. PSS-1004-FS WATER SERVICES DRAWING - EXAMPLE ONLY.
 - PSS-1015-FS 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 ≤ 90mm.
 - PSS-1017-FS FLUSHING POINTS.
 - PSS-1018-FS TYPICAL BRANCH CONNECTION DETAILS.
 - PSS-1111-FS TYPICAL ON PROPERTY LAYOUT AND SANITARY DRAINAGE DETAILS.
 - PSS-1112-FS PROPERTY BOUNDARY ASSEMBLY TYPICAL INSTALLATION.
 - PSS-1113-FS WASTEWATER COLLECTION TANK INSTALLATION REQUIREMENTS.
 - PSS-1114-FS
 POOL AND SPA DRAINAGE CONNECTION REQUIREMENTS.
 - FS-SK03-FS PROPERTY SEWERAGE SERVICING GUIDELINES SLOPING LOTS. FS-SK04-FS PROPERTY SEWERAGE SERVICING GUIDELINES - REDUCED AREA LOTS.
 - FS-SK05-FS
 PROPERTY SEWERAGE SERVICING GUIDELINES NON-STANDARD CONNECTION DETAIL. • WAT-1854-FS DUAL WATER RETICULATION SYSTEM SINGLE PROPERTY SERVICES PRE-LAID IN
 - FOOTWAYS.
 - WAT-1855-FS DUAL WATER RETICULATION SYSTEM SPLIT PROPERTY SERVICES PRE-LAID IN FOOTWAYS.
- 3. PRESSURE SEWER MAINS SHALL BE BLACK POLYETHYLENE (PE100 PN16) WITH A CREAM STRIPE AS PER WSA 02 - 2007.
- 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. <u>ALL BENDS SHALL BE ELECTROFUSION SWEEP BENDS</u> (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.
- 12. FOR LOTS WITH TANKS IN THE REAR.
 - PROVIDE Ø25 HEAVY DUTY ELECTRICAL CONDUIT (WITH DRAW WIRE) INSTALLED FROM THE COLLECTION TANK TO THE RECYCLED WATER METER.
 - PROVIDE Ø25 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 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.

WORK-AS-CONSTRUCTED

-	REV.DATEAMENDMENTDRAWNCHECKDESIGNVERIFA25.06.2018PRELIMINARY ISSUEJ.N.L.G.J.N.L.G.	Y SCALES	Hunter Office CLIENT	PROPERTY DESCRIPTION	PROJECT POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION
-	B 22.11.2018 CONSTRUCTION ISSUE WORK-AS-CONSTRUCTED J.N. L.G. A.S.A. V.V.	aaw	Unit 7/335 Hillsborough Rd Warners Bay N.S.W. 2282 Phone: (02) 4978 5100 Fax: (02) 4978 5199 email: hunter@adwjohnson.com.au	WATAGAN PARK SMALL LOT HOUSING DEVELOPMENT PROPOSED SUBDIVISION OF LOT 84 D.P.1237780 COURIN STREET, COORANBONG	PLAN TITLE
=		lobpec	www.adwjohnson.com.au GROUP	SURVEYED DATUM	PROJECT No. DISCIPLINE NUMBER REV.
三	DESIGN FILE N:\	ALL DIMENSIONS ARE IN METRES. DO NOT SCALE JOHNSO	ON ABN 62 129 445 398	ADW Johnson A.H.D.	239078(25) - WAT - 002 WAC



AMENDMENT DRAWN CHECK DESIGN VERIFY SCALES DATE PRELIMINARY ISSUE CONSTRUCTION ISSUE WORK-AS-CONSTRUCTED J.N. L.G. J.N. L.G. A.S.A. V.V. J.N. J.N. ALL DIMENSIONS ARE IN METRES. DO NOT SCAL DESIGN FILE N:\

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

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

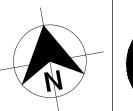
CLIENT JOHNSON PROPERTY GROUP

PROPERTY DESCRIPTION WATAGAN PARK SMALL LOT HOUSING DEVELOPMENT PROPOSED SUBDIVISION OF LOT 84 D.P.1237780 COURIN STREET, COORANBONG

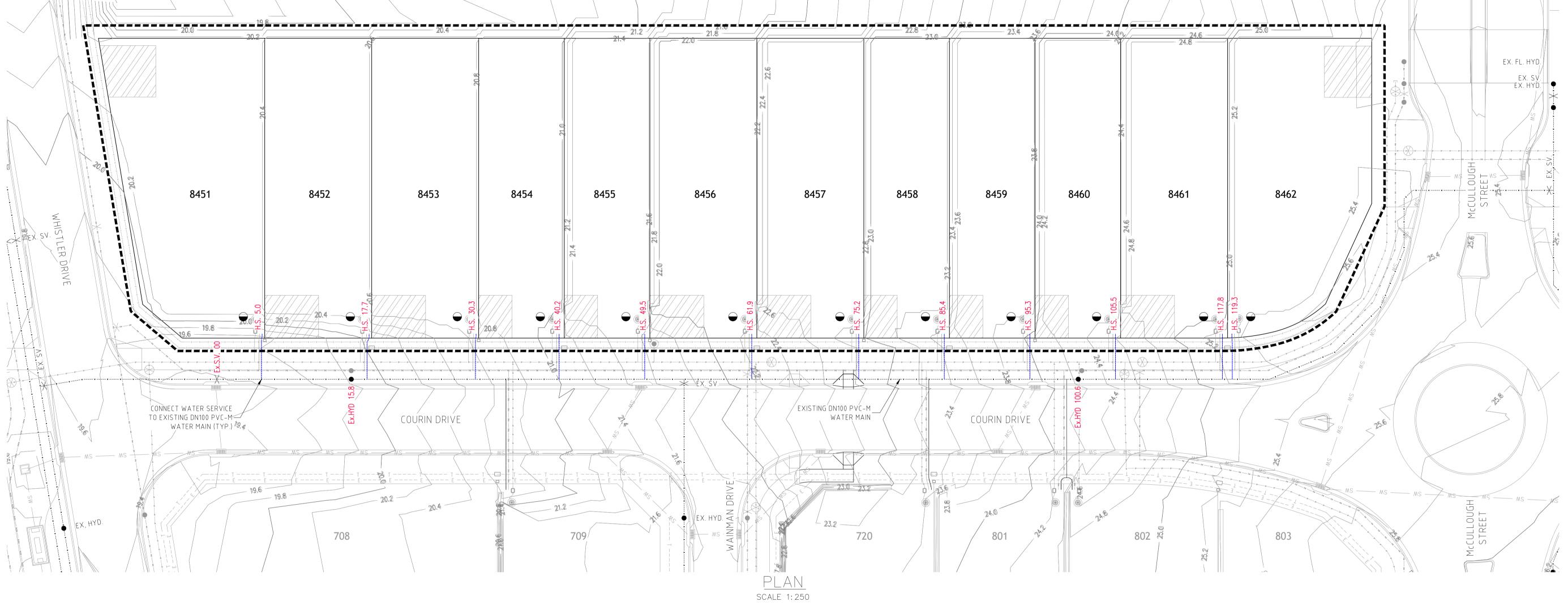
POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION PLAN TITLE

NOT USED

SURVEYED PROJECT No. DISCIPLINE WAC DATUM NUMBER 003 239078(25) - WAT -ADW Johnson A.H.D.







<u>LEGEND</u>

---- w---- w-- PVC-M POTABLE WATER RETICULATION ---- w---- w---- w- EXISTING PVC-M POTABLE WATER RETICULATION ---- SP---- SP---- SP- PE PRESSURE SEWER RETICULATION ---- T---- T---- TELECOMMUNICATIONS ---- E ---- E ---- E - UNDERGROUND POWER EX. SV. EXISTING STOP VALVE

EX. HYD. • EXISTING HYDRANT

EX. FL HYD. EXISTING FLUSHING HYDRANT

PROPERTY SERVICE CONNECTION

---- LIMIT OF SUBDIVISION WORKS

POTABLE WATER PROPERTY SERVICE CONNECTIONS

TOTAL 12 CONNECTIONS • SINGLE SERVICES IN ACCORDANCE WITH WAT-1106-V -12 x SHORT SIDE CONNECTION TO EXISTING MAIN TO BE IN ACCORDANCE

WITH WSAA WAT-1108-V

- 1. FOR RECYCLED WATER PIPEWORK DETAIL PLANS REFER TO DRG-006.
- 2. FOR PRESSURE SEWER PIPEWORK DETAIL PLANS REFER TO DRG-008.
- 3. FOR TYPICAL SERVICE CONNECTION DETAILS REFER TO DRG-010.

_	REV. DATE AMENDMENT DF	RAWN	CHECK	DESIG	VERIF	Y SCALES			CLIENT	PROPERTY DESCRIPTION		PROJECT POTABLE W	ATER, RECYCLED WA	ATER AND	
	A 25.06.2018 PRELIMINARY ISSUE B 22.11.2018 CONSTRUCTION ISSUE	J.N.	L.G.	J.N.	L.G.	0 5 10 A1 / A3		Hunter Office Unit 7/335 Hillsborough Rd		WATAGAN PARK		PRESSURE SEWER RETICULATION			
-	WAC WORK-AS-CONSTRUCTED A	S.A.	V. V.	0.111		1:250 / 1:500		Warners Bay N.S.W. 2282		SMALL LOT HOUS	SING DEVELOPMENT	PLAN TITLE			
-							adwl	Fax: (02) 4978 5100 Fax: (02) 4978 5199	JOHNSON		ON OF LOT 84 D.P.1237780 ET, COORANBONG	РОТА	BLE WATER DETAIL P	PLAN	
_							<u>aa m</u>	email: hunter@adwjohnson.com.au	PROPERTY GROUP						
	DESIGN FILE N:\					ALL DIMENSIONS ARE IN METRES. DO NOT SCALE	johnson	ABN 62 129 445 398	\ OI\OOI	SURVEYED ADW Johnson	DATUM A.H.D.	PROJECT No. 239078(25)	DISCIPLINE - WAT -	NUMBER 004	WAC
	PESIGN FILE IV. \					ALL DIMENSIONS ARE IN METRES. DO NOT SCALE	,				1	20010(20)	V V /	 	



NOT USED

NUMBER

005

WAC

DRAWN CHECK DESIGN VERIFY SCALES DATE AMENDMENT PRELIMINARY ISSUE CONSTRUCTION ISSUE WORK-AS-CONSTRUCTED J.N. L.G. J.N. L.G. A.S.A. V.V. J.N. J.N. ALL DIMENSIONS ARE IN METRES. DO NOT SCAL DESIGN FILE N:\

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

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

CLIENT JOHNSON PROPERTY GROUP

PROPERTY DESCRIPTION WATAGAN PARK SMALL LOT HOUSING DEVELOPMENT PROPOSED SUBDIVISION OF LOT 84 D.P.1237780 COURIN STREET, COORANBONG

POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION PLAN TITLE

SURVEYED PROJECT No. DISCIPLINE DATUM 239078(25) - WAT -ADW Johnson A.H.D.

<u>LEGEND</u>

---- w---- w-- PVC-M POTABLE WATER RETICULATION ---- SP---- SP---- SP- PE PRESSURE SEWER RETICULATION

---- E ---- E ---- E - UNDERGROUND POWER EX. SV. EXISTING STOP VALVE

---- T---- T---- TELECOMMUNICATIONS

EX. HYD. • EXISTING HYDRANT

EX. FL HYD. EXISTING FLUSHING HYDRANT

---- LIMIT OF SUBDIVISION WORKS

PROPERTY SERVICE CONNECTION

RECYCLED WATER PROPERTY SERVICE CONNECTIONS
TOTAL 12 CONNECTIONS

• SINGLE SERVICES IN ACCORDANCE WITH WAT-1106-V -12 x SHORT SIDE CONNECTION TO EXISTING MAIN TO BE IN ACCORDANCE

WITH WSAA WAT-1108-V

1. FOR POTABLE WATER PIPEWORK DETAIL PLANS REFER TO

DRG-004. 2. FOR PRESSURE SEWER PIPEWORK DETAIL PLANS REFER TO

DRG-008. 3. FOR TYPICAL SERVICE CONNECTION DETAILS REFER TO DRG-010.

RE	EV.	DATE	AMENDMENT DR	RAWN C	HECK DE	SIGN VERIFY SCALES	CLIENT PROPERTY DESCRIPTION					PROJECT POTABLE WATER, RECYCLED WATER AND				
- A	A 25 B 22 AC	5.06.2018 2.11.2018	PRELIMINARY ISSUE CONSTRUCTION ISSUE WORK-AS-CONSTRUCTED A.	J.N. J.N. .S.A.	L.G. L.G. V.V.		/ A3 / 1:500		Hunter Office Unit 7/335 Hillsborough Rd Warners Bay N.S.W. 2282		WATAGAN PARK SMALL LOT HOUSING DEVELOPMENT		PLAN TITLE	RESSURE SEWER RETIC	ULATION	
								adw	Phone: (02) 4978 5100 Fax: (02) 4978 5199 email:hunter@adwjohnson.com.au	PROPERTY	PROPOSED SUBDIVISION OF LOT 84 D.P.1237780 COURIN STREET, COORANBONG		ı	RECYCLED WATER DETA	AIL PLAN	
DE	SIGN FIL	LE 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(DISCIPLINE - WAT -	NUMBER - 006	WAC



DRAWN CHECK DESIGN VERIFY SCALES AMENDMENT DATE PRELIMINARY ISSUE CONSTRUCTION ISSUE WORK-AS-CONSTRUCTED J.N. L.G. J.N. L.G. A.S.A. V.V. J.N. J.N. ALL DIMENSIONS ARE IN METRES. DO NOT SCAL DESIGN FILE N:\

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

CLIENT JOHNSON PROPERTY GROUP

PROPERTY DESCRIPTION WATAGAN PARK SMALL LOT HOUSING DEVELOPMENT PROPOSED SUBDIVISION OF LOT 84 D.P.1237780 COURIN STREET, COORANBONG

POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION

PLAN TITLE

NOT USED

SURVEYED	DATUM	PROJECT No.	DISCIPLINE	NUMBER	R
ADW Johnson	A.H.D.	239078(25)	– WAT –	007	W.

<u>LEGEND</u>

WASTEWATER COLLECTION TANK
AND BOUNDARY KIT

---- LIMIT OF SUBDIVISION WORKS

'

EX. IV.

EXISTING FLUSHING POINT

EXISTING ISOLATION VALVE

EX. FP.

PROPERTY SERVICE CONNECTION

PRESSURE SEWER PROPERTY SERVICE CONNECTIONS

TOTAL 12 CONNECTIONS

◆SINGLE SERVICES IN ACCORDANCE WITH WAT—1106—V

—12 x SHORT SIDE

CONNECTION TO EXISTING MAIN TO BE IN ACCORDANCE WITH WSAA WAT-1108-V

NOTES:

NOTES:
1. FOR POTABLE WATER PIPEWORK DETAIL PLANS REFER TO

DRG-004. 2. FOR RECYCLED WATER PIPEWORK DETAIL PLANS REFER TO

DRG-006.
3. FOR TYPICAL SERVICE CONNECTION DETAILS REFER TO DRG-010.

REV. DATE AMENDMENT DRAWN CHECK DESIG	VERIFY SCALES	Hunter Office	CLIENT	PROPERTY DESCRIPTION	PROJECT POTABLE WATER, RECYCLED WATER AND
A 25.06.2018 PRELIMINARY ISSUE B 22.11.2018 CONSTRUCTION ISSUE WAC WORK-AS-CONSTRUCTED J.N. L.G. J.N. L.G. J.N. A.S.A. V.V.	L.G. 0 5 10 A1 / A3 L.G. 1:250 / 1:500	Unit 7/335 Hillsborough Rd Warners Bay N.S.W. 2282		WATAGAN PARK SMALL LOT HOUSING DEVELOPMENT	PRESSURE SEWER RETICULATION PLAN TITLE
	adw	Phone: (02) 4978 5100 Fax: (02) 4978 5199 email:hunter@adwjohnson.com.au	JOHNSON PROPERTY	PROPOSED SUBDIVISION OF LOT 84 D.P.1237780 COURIN STREET, COORANBONG	PRESSURE SEWER DETAIL PLAN
	iohnso	www.adwjohnson.com.au ABN 62 129 445 398	GROUP	SURVEYED DATUM	PROJECT No. DISCIPLINE NUMBER REV.
DESIGN FILE N:\	ALL DIMENSIONS ARE IN METRES. DO NOT SCALE JOHNSO	ADIN 02 129 440 090		ADW Johnson A.H.D.	239078(25) - WAT - 008 WAC



DRAWN CHECK DESIGN VERIFY SCALES DATE AMENDMENT PRELIMINARY ISSUE CONSTRUCTION ISSUE WORK-AS-CONSTRUCTED J.N. L.G. J.N. L.G. A.S.A. V.V. J.N. J.N. ALL DIMENSIONS ARE IN METRES. DO NOT SCAL DESIGN FILE N:\

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

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

CLIENT JOHNSON PROPERTY GROUP

PROPERTY DESCRIPTION WATAGAN PARK SMALL LOT HOUSING DEVELOPMENT PROPOSED SUBDIVISION OF LOT 84 D.P.1237780

POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION

PLAN TITLE

NOT USED

WAC

COURIN STREET, COORANBONG SURVEYED PROJECT No. DISCIPLINE DATUM NUMBER 239078(25) - WAT -009 ADW Johnson A.H.D.

RETAINING WALL-

DN100 PVC PROPERTY

CONNECTION TO BE

CAPPED FOR LATER—

CONNECTION BY

RETAINING WALL

(REFER TO NOTE 4)

DN25 PE RECYCLED

MAIN AND TEE

WATER SERVICE CONNECTION

BETWEEN RECYCLED WATER

OWNER (TYP.)

600 MIN.

£ £ £

1000 APPROX.

600 MIN.

500 400 INTER ALLOTMENT

500 MIN.

CLEARANCE

CLEARANCE

NOV MONO INVIZI-Q PRESSURE SEWER

UNIT (PSU) WASTEWATER COLLECTION

BOUNDARY KIT TO MANUFACTURERS

FOR TYPICAL DETAILS REFER TO STANDARD DRAWING PSS-1111-FS

REQUIREMENTS (TYP.)

(SEE NOTE 8)

2/ø25 ELECTRICAL CONDUIT

ELECTRICAL WARNING TAPE

BOUNDARY ASSEMBLY (TYP.) FOR TYPICAL DETAILS

REFER TO STANDARD

DRAWING PSS-1112-FS

FRONT PROPERTY BOUNDARY

-POTABLE WATER SERVICE

-RECYCLED WATER SERVICE

DN20 PE POTABLE WATER

- SERVICE CONNECTION BETWEEN

POTABLE WATER MAIN AND TEE

DN20 PE100 PN16

(TYP.)(SEE NOTE 2)

DN25 PE100 PN16

(TYP.)(SEE NOTE 3)

DN40 PE PRESSURE SEWER SERVICE (TYP.)

C/W DRAW WIRE AND

(SEE NOTE 9)

600 MIN.

£ £ £

1000 APPROX.

600 || || 4

400

300 [£]

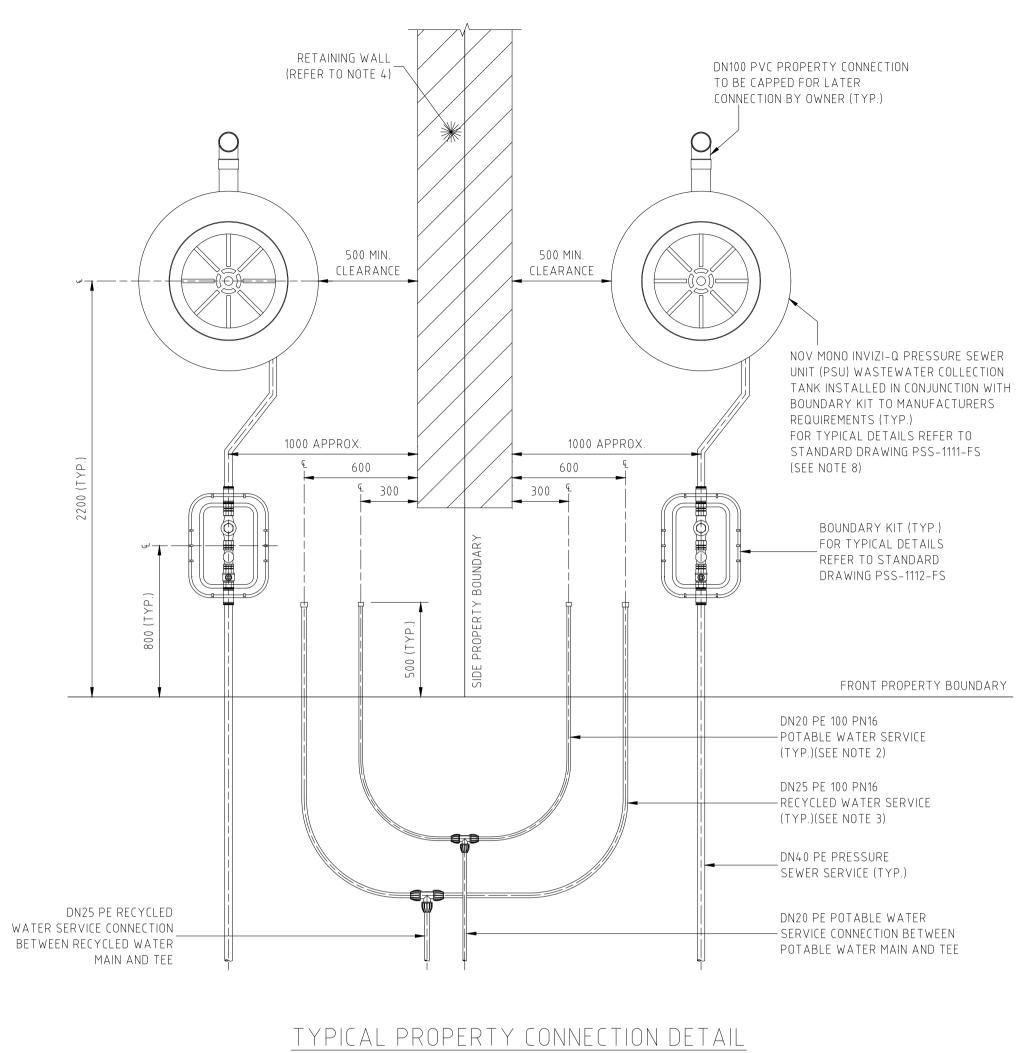
TYPICAL PROPERTY CONNECTION DETAIL

(PRESSURE SEWER UNIT AT REAR)

SCALE 1:20

TANK INSTALLED IN CONJUNCTION WITH

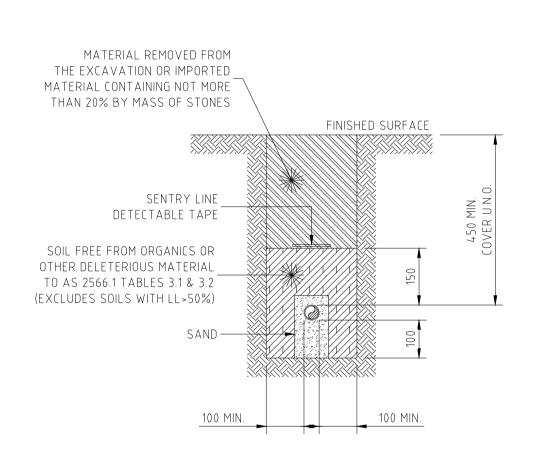




SCALE 1:20

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 BOUNDARY.
- 5. WHERE SERVICE CONNECTIONS ARE LOCATED ADJACENT TO TELSTRA PITS/ELECTRICAL PILLARS, A MINIMUM CLEARANCE OF 200mm BETWEEN PITS AND SERVICE PIPEWORK IS TO BE MAINTAINED.
- 6. MINIMUM BENDING RADIUS FOR PE PIPEWORK IS TO BE 20 x PIPE DIAMETER.
- 7. ALL POLYETHYLENE FITTINGS SHALL BE JOINED USING ELECTROFUSION JOINTING TECHNIQUES IN ACCORDANCE WITH MANUFACTURERS REQUIREMENTS. ROTATE BENDS AS NECESSARY.
- 8. PRESSURE SEWER UNIT (PSU) IS TO HAVE 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. ϕ 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.



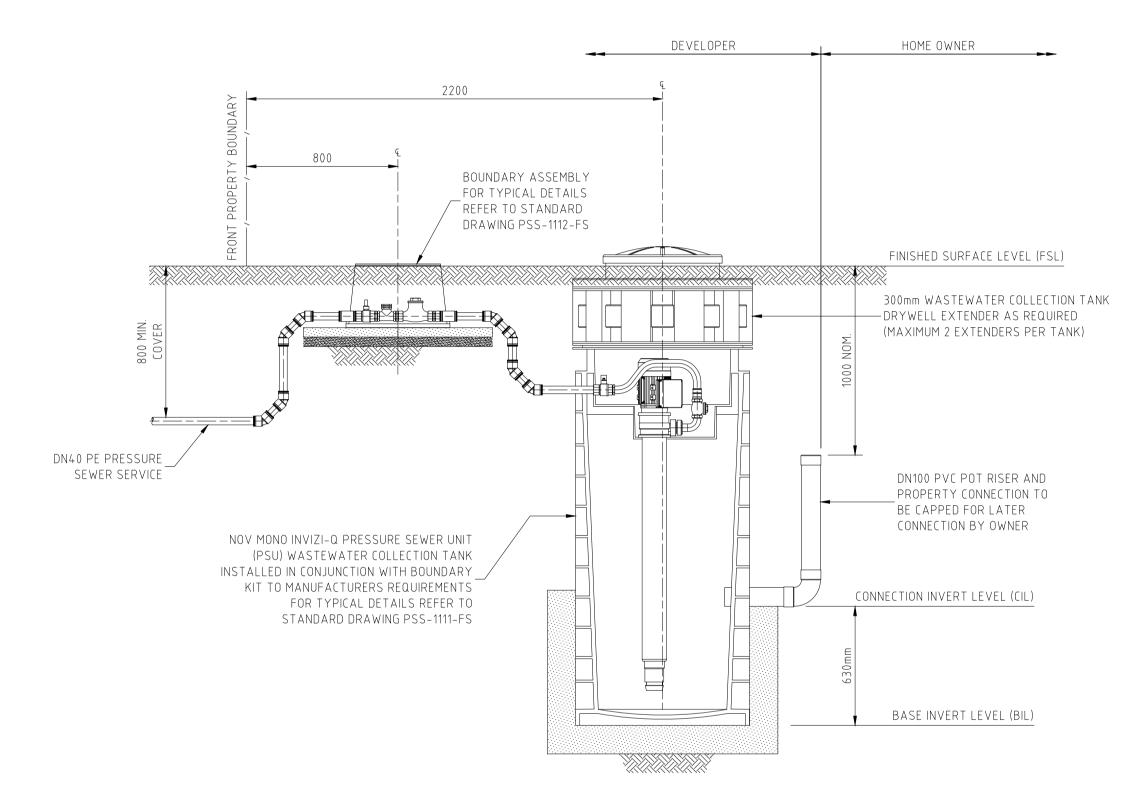
PRIVATE PROPERTY PRESSURE MAIN TYPICAL DETAIL

REV. DATE	AMENDMENT	DRAWN CHECK DESIGN VERIFY SCALES		CLIENT	PROPERTY DESCRIPTION		PROJECT F	POTABLE WATER, RECYCLED \	WATER AND	
A 25.06.2018 B 22.11.2018 WAC	PRELIMINARY ISSUE CONSTRUCTION ISSUE WORK-AS-CONSTRUCTED	J.N. J.N. A.S.A. V.V. J.N. J.N. J.N. L.G. J.N. J.N. J.N. J.N. J.N. J.N. J.N. J.N	CCW PI	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	SMALL LOT H PROPOSED SUBDIV	ATAGAN PARK OUSING DEVELOPMENT VISION OF LOT 84 D.P.1237780 REET, COORANBONG	PLAN TITLE	TYPICAL PIPEWORK TRENCH SERVICE CONNECTION D	HING AND	
			W W	www.adwjohnson.com.au GROUP	SURVEYED	DATUM	PROJECT No.	DISCIPLINE	NUMBER	REV.
DESIGN FILE N: \	'	ALL DIMENSIONS ARE IN METRES. DO NOT	SCALE JOHNSON A	ABN 62 129 445 398	ADW Johnson	A.H.D.	2390	078(25) – WAT –	010	WAC



	PRESSURE SEWER COLLECTION TANK LEVEL DETAILS												
	PRESSURE SERVER COLLECTION TAINK LEVEL DETAILS												
	WATAGAN PARK DEVELOPMENT - SMALL LOT HOUSING												
LOT NUMBER	COLLECTION TANK LOCATION	TANK SIZE	PFSL AT TANK LOCATION	QUANTITY OF DRYWELL RISERS REQUIRED	TANK BASE INVERT	CONNECTION INVERT LEVEL	TOP OF COLLECTION TANK LID *	CALCULATED CONNECTION INVERT LEVEL	WAC v's DESIGN INVERT LEVEL COMPARISON				
	[FRONT/REAR]	[900L/2200L]			[Design R.L.]	[Design R.L.]	[Work-As-Constructed]	[Work-As-Constructed]	[- LOWER / + HIGHER]				
8451	FRONT BATTER	900L	20.30		18.17	18.80	20.55	18.91	0.11				
8452	FRONT BATTER	900L	20.37		18.24	18.87	20.63	18.99	0.12				
8453	FRONT FLAT	900L	20.71		18.58	19.21	20.97	19.33	0.12				
8454	FRONT FLAT	900L	21.03		18.90	19.53	21.26	19.62	0.09				
8455	FRONT FLAT	900L	21.56		19.43	20.06	21.72	20.08	0.02				
8456	FRONT FLAT	900L	21.16		20.03	20.66	22.34	20.70	0.04				
8457	FRONT FLAT	900L	22.77		20.64	21.27	22.96	21.32	0.05				
8458	FRONT FLAT	900L	23.28		21.15	21.78	23.52	21.88	0.10				
8459	FRONT FLAT	900L	23.83		21.70	22.33	23.98	22.34	0.01				
8460	FRONT FLAT	900L	24.37		22.24	22.87	24.56	22.92	0.05				
8461	FRONT FLAT	900L	25.00	1	22.57	23.20	25.20	23.26	0.06				
8462	FRONT FLAT	900L	25.30		23.17	23.80	25.49	23.85	0.05				

* COLLECTION TANK LEVEL PROVIDED TO G.P.S. ACCURACY ONLY. THE BUILDER IS REQUIRED TO CONFIRM DRAINAGE CONSTRAINTS PRIOR TO MAKING CONNECTION TO TANK.



PRESSURE SEWER SERVICE CONNECTION

TYPICAL SECTIONAL ELEVATION

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 2150 FOR 0 DRYWELL EXTENDERS

• MINUS 2450 FOR 1 DRYWELL EXTENDERS

• MINUS 2750 FOR 2 DRYWELL EXTENDERS

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

WORK-AS-CONSTRUCTED

AMENDMENT DRAWN CHECK DESIGN VERIFY SCALES POTABLE WATER, RECYCLED WATER AND DATE CLIENT PROPERTY DESCRIPTION **Hunter Office** PRELIMINARY ISSUE CONSTRUCTION ISSUE 25.06.2018 22.11.2018 PRESSURE SEWER RETICULATION 0.8 A1 / A3 1:20 / 1:40 Unit 7/335 Hillsborough Rd **WATAGAN PARK** J.N. L.G. A.S.A. V.V. J.N. PLAN TITLE WORK-AS-CONSTRUCTED Warners Bay N.S.W. 2282 SMALL LOT HOUSING DEVELOPMENT JOHNSON PROPERTY GROUP WASTE WATER COLLECTION Phone: (02) 4978 5100 PROPOSED SUBDIVISION OF LOT 84 D.P.1237780 TANK LEVEL DETAILS Fax: (02) 4978 5199 COURIN STREET, COORANBONG email: hunter@adwjohnson.com.au www.adwjohnson.com.au SURVEYED DATUM PROJECT No. DISCIPLINE NUMBER ABN 62 129 445 398 WAC 239078(25) – WAT – 011 ADW Johnson A.H.D. ALL DIMENSIONS ARE IN METRES. DO NOT SCAL DESIGN FILE N:\