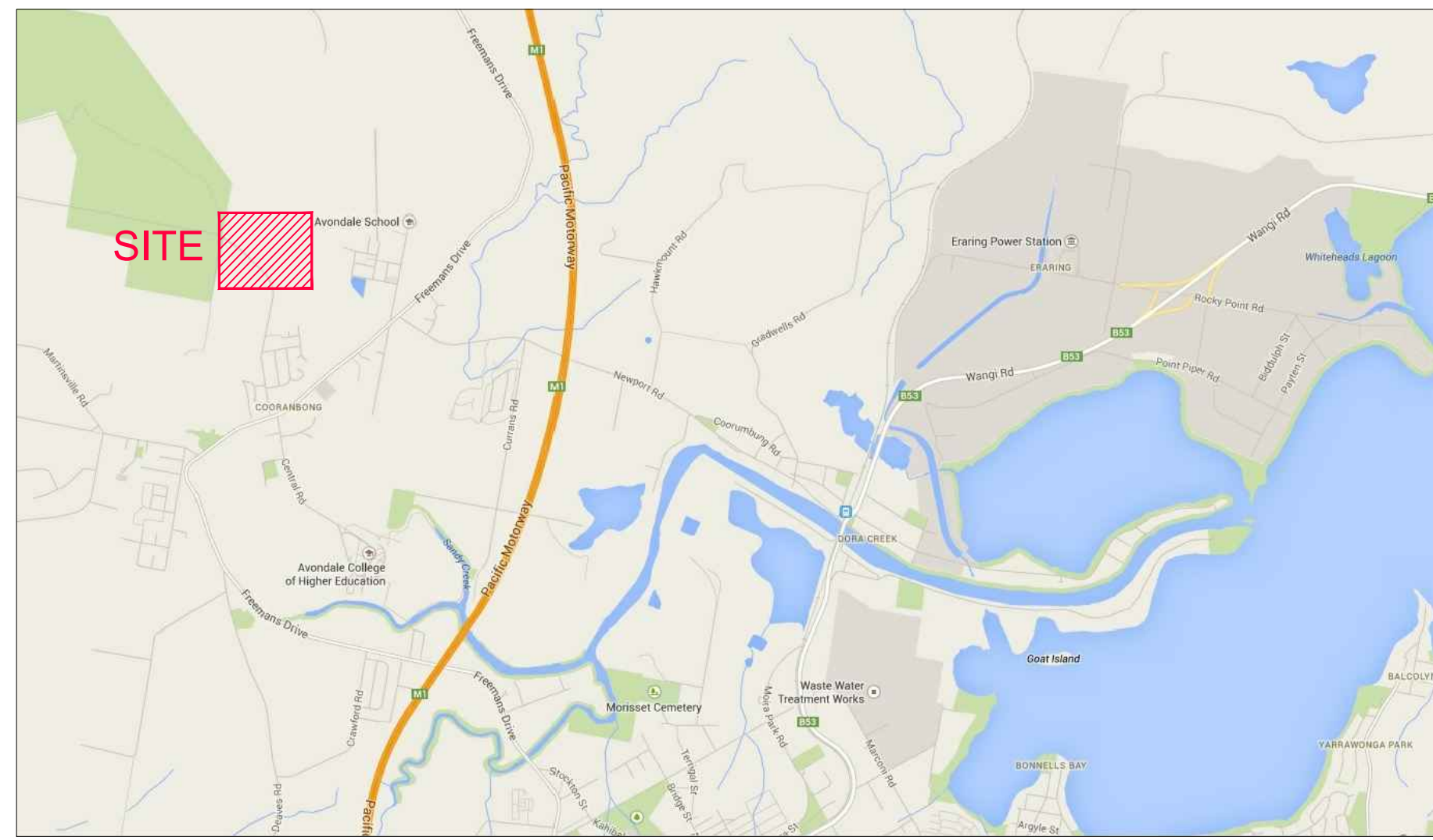




POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION PROPOSED SUBDIVISION STAGES 2.8 & 2.9 WATAGAN PARK WHISTLER DRIVE, COORANBONG DA/307/2015



LOCALITY SKETCH
NOT TO SCALE

DRAWING INDEX	
DRAWING NUMBER	DRAWING TITLE
239078(2.8 & 2.9)-WAT-001	COVER SHEET, LOCALITY PLAN AND DRAWING INDEX
239078(2.8 & 2.9)-WAT-002	GENERAL NOTES
239078(2.8 & 2.9)-WAT-003	OVERALL SITE PLAN
239078(2.8 & 2.9)-WAT-004	POTABLE WATER DETAIL PLAN - SHEET 1
239078(2.8 & 2.9)-WAT-005	POTABLE WATER DETAIL PLAN - SHEET 2
239078(2.8 & 2.9)-WAT-006	POTABLE WATER DETAIL PLAN - SHEET 3
239078(2.8 & 2.9)-WAT-007	POTABLE WATER DETAIL PLAN - SHEET 4
239078(2.8 & 2.9)-WAT-008	POTABLE WATER DETAIL PLAN - SHEET 5
239078(2.8 & 2.9)-WAT-009	POTABLE WATER DETAIL PLAN - SHEET 6
239078(2.8 & 2.9)-WAT-010	POTABLE WATER DETAIL PLAN - SHEET 7
239078(2.8 & 2.9)-WAT-011	NOT USED
239078(2.8 & 2.9)-WAT-012	NOT USED
239078(2.8 & 2.9)-WAT-013	RECYCLED WATER DETAIL PLAN - SHEET 1
239078(2.8 & 2.9)-WAT-014	RECYCLED WATER DETAIL PLAN - SHEET 2
239078(2.8 & 2.9)-WAT-015	RECYCLED WATER DETAIL PLAN - SHEET 3
239078(2.8 & 2.9)-WAT-016	RECYCLED WATER DETAIL PLAN - SHEET 4
239078(2.8 & 2.9)-WAT-017	RECYCLED WATER DETAIL PLAN - SHEET 5
239078(2.8 & 2.9)-WAT-018	RECYCLED WATER DETAIL PLAN - SHEET 6
239078(2.8 & 2.9)-WAT-019	RECYCLED WATER DETAIL PLAN - SHEET 7
239078(2.8 & 2.9)-WAT-020	NOT USED
239078(2.8 & 2.9)-WAT-021	NOT USED
239078(2.8 & 2.9)-WAT-022	PRESSURE SEWER DETAIL PLAN - SHEET 1
239078(2.8 & 2.9)-WAT-023	PRESSURE SEWER DETAIL PLAN - SHEET 2
239078(2.8 & 2.9)-WAT-024	PRESSURE SEWER DETAIL PLAN - SHEET 3
239078(2.8 & 2.9)-WAT-025	PRESSURE SEWER DETAIL PLAN - SHEET 4
239078(2.8 & 2.9)-WAT-026	PRESSURE SEWER DETAIL PLAN - SHEET 5
239078(2.8 & 2.9)-WAT-027	PRESSURE SEWER DETAIL PLAN - SHEET 6
239078(2.8 & 2.9)-WAT-028	PRESSURE SEWER DETAIL PLAN - SHEET 7
239078(2.8 & 2.9)-WAT-029	NOT USED
239078(2.8 & 2.9)-WAT-030	NOT USED
239078(2.8 & 2.9)-WAT-031	TYPICAL PIPEWORK TRENCHING DETAILS
239078(2.8 & 2.9)-WAT-032	NOT USED
239078(2.8 & 2.9)-WAT-033	TYPICAL SERVICE CONNECTION DETAILS
239078(2.8 & 2.9)-WAT-034	WASTEWATER COLLECTION TANK LEVEL DETAILS
239078(2.8 & 2.9)-WAT-035	ROAD CROSS SECTIONS - SHEET 1
239078(2.8 & 2.9)-WAT-036	ROAD CROSS SECTIONS - SHEET 2
239078(2.8 & 2.9)-WAT-037	ROAD CROSS SECTIONS - SHEET 3
239078(2.8 & 2.9)-WAT-038	NOT USED
239078(2.8 & 2.9)-WAT-039	THRUST BLOCK DETAILS

WORK-AS-CONSTRUCTED

REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY	SCALES	 Hunter Office Unit 7/335 Hillsborough Rd Warners Bay N.S.W. 2282 Phone: (02) 4978 5100 Fax: (02) 4978 5199 email: hunter@adwjohnson.com.au www.adwjohnson.com.au ABN 62 129 445 398	 JOHNSON PROPERTY GROUP	PROPERTY DESCRIPTION	PROJECT	PLAN TITLE	PROJECT No.	DISCIPLINE	NUMBER	REV.
A	20.11.2015	PRELIMINARY ISSUE	J.N.	L.G.	J.N.	L.G.				PROPOSED SUBDIVISION PRECINCT 2, STAGES 2.8 AND 2.9 WATAGAN PARK WHISTLER DRIVE, COORANBONG DA/307/2015	POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION	COVER SHEET, LOCALITY PLAN AND DRAWING INDEX	239078(2.8 & 2.9)	- WAT -	001	WAC



GENERAL NOTES:

- 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.
- 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.
- 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.
- DURING CONSTRUCTION ALL OPEN ENDS OF PIPES SHALL BE CAPPED TO PREVENT ENTRY OF FOREIGN MATTER.
- ALL MAINS SHALL BE FLUSHED WITH WATER TO REMOVE ANY DEBRIS PRIOR TO COMMISSIONING.
- SURFACE IDENTIFICATION MARKERS ARE TO BE PROVIDED TO COORANBONG WATER REQUIREMENTS.
- MAKE SMOOTH TRANSITION TO EXISTING INFRASTRUCTURE (ROAD PAVEMENT, KERBS, FOOTPATHS, ETC.) TO LAKE MACQUARIE CITY COUNCIL AND SUPERINTENDENT'S SATISFACTION.
- SUITABLE PROTECTION TO EXISTING INFRASTRUCTURE (ROAD PAVEMENT, KERBS, FOOTPATHS, ETC.) IS TO BE PROVIDED DURING DURATION OF CONSTRUCTION.
- 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.
- 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.
- 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.
- 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.
- ANY WORKS NOT COVERED BY THE SPECIFICATION OR THIS DRAWING SET ARE TO BE REFERRED TO THE SUPERINTENDENT.
- 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.
- ALL PIPE BEDDING MATERIAL TO COMPLY WITH WSAA PRODUCT SPECIFICATION WSA-PS350 AND WSA PS351.

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.
- 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.
- 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 MATERIALS REGISTER.
- 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.
- HYDRANTS MUST NOT BE POSITIONED IN DRIVEWAYS OR TAPPING POINTS. HYDRANTS NOMINALLY AT LEAST 5m FROM EACH BOUNDARY OR ON BOUNDARIES.
- 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.
- 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.
- 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.
- ALL POTABLE WATERMANS SHALL BE PLAIN BLUE PVC-M (PN16).
- ALL RECYCLED WATERMANS SHALL BE LILAC PVC-M (PN16).
- 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 WATERMANS. RECYCLED WATERMAIN TO ALWAYS BE LOWER THAN POTABLE WATERMAIN WITH MINIMUM 150mm VERTICAL CLEARANCE.
- FOR THRUST BLOCK DETAILS REFER TO DRG-027.
- 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.
- 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.
- 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.
- ALL PROPERTY SERVICE PIPES FOR RECYCLED WATER ARE TO BE COLOURED BLACK WITH LILAC (P23) LONGITUDINAL STRIPE TO AS 2700. WHERE NOMINAL PIPE SIZE IS SPECIFIED, AN EQUIVALENT PIPE SIZE APPROPRIATE TO THE MATERIAL BEING USED TO BE AS SPECIFIED IN AS 3500, TABLE 1.1, PE 100 B, PN16. ALL PROPERTY SERVICE PIPES FOR POTABLE WATER ARE TO BE COLOURED BLACK WITH BLUE LONGITUDINAL STRIPE TO A.S.2700.
- MAXIMUM PIPE COVER SHALL BE 1500mm UNLESS SPECIFIED ON THE DESIGN DRAWINGS OR APPROVAL IS OBTAINED FROM THE COORANBONG WATER REPRESENTATIVE.
- ALL MAINS LAID IN TRAFFICABLE CARRIAGEWAYS SHALL BE BACKFILLED WITH 16:1 STABILISED SAND CEMENT TO SUBGRADE LEVEL ONLY.
- 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.
- POTABLE AND RECYCLED WATERMAIN FITTINGS ARE TO BE STAGGERED.
- MAXIMUM JOINT DEFLECTIONS TO BE IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS.
- EACH PROPERTY SERVICE CONNECTION IS TO BE FLUSHED AND LOCKED FOLLOWING PRESSURE TESTING.
- SCOUR VALVES TO BE CONNECTED TO LOCAL STORMWATER SYSTEM.
- POTABLE WATER IS TO BE UTILISED FOR FIRE FIGHTING PURPOSES.
- HYDRANT SURFACE BOXES TO BE YELLOW (POTABLE WATER) AND LILAC (RECYCLED WATER).

PRESSURE SEWER NOTES:

- 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.
- WORKS MUST BE CONSTRUCTED IN ACCORDANCE WITH THE DESIGN DRAWINGS AND FLOW SYSTEMS STANDARD DRAWINGS REFERENCED IN FLOW SYSTEMS SUPPLEMENTARY MANUAL TO WSAA (TABLE 4.1). REFER TO <https://askus.flowsystems.com.au/hc/en-us/articles/210615353--Standard-Drawings> FOR LATEST VERSIONS OF FLOW SYSTEMS STANDARD DRAWINGS.
- PRESSURE SEWER MAINS SHALL BE BLACK POLYETHYLENE (PE100 PN16) WITH A CREAM STRIPE AS PER WSA 02-2007.
- ALL POLYETHYLENE MAINS SHALL BE JOINED USING ELECTROFUSION JOINTING TECHNIQUES IN ACCORDANCE WITH MANUFACTURERS REQUIREMENTS.
- ALL MAINS LAID IN TRAFFICABLE CARRIAGEWAYS SHALL BE BACKFILLED WITH 16:1 STABILISED SAND CEMENT TO SUBGRADE LEVEL ONLY.
- ALL BENDS SHALL BE ELECTROFUSION SWEEP BENDS (FABRICATED BENDS SHALL NOT BE USED).
- ALL HOUSE SERVICE LATERALS SHALL BE DN40 PE 100 PN16.
- DETECTABLE MARKING TAPE SHALL BE LAID ON TOP OF THE PIPE EMBEDMENT MATERIAL BEFORE BACKFILLING AND CONNECTED TO SURFACE FITTINGS.
- ALL SURFACE FITTINGS LOCATED IN TRAFFICABLE AREAS (ROADWAYS, PATHS) SHALL HAVE HEAVY DUTY SURROUNDS INSTALLED.
- ALL PRESSURE SEWER VALVES SHALL BE RESILIENT SEATED SLUICE GATE VALVES (CLOCKWISE CLOSING) AND SHALL BE RESTRAINED IN ACCORDANCE WITH WAT-1207.
- 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.

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).
- 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.
- 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).
- 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).
- ROPE OFF ALL PRESSURE SEWER UNITS AND FLUSHING POINTS TO LIMIT DAMAGE DURING CONSTRUCTION.

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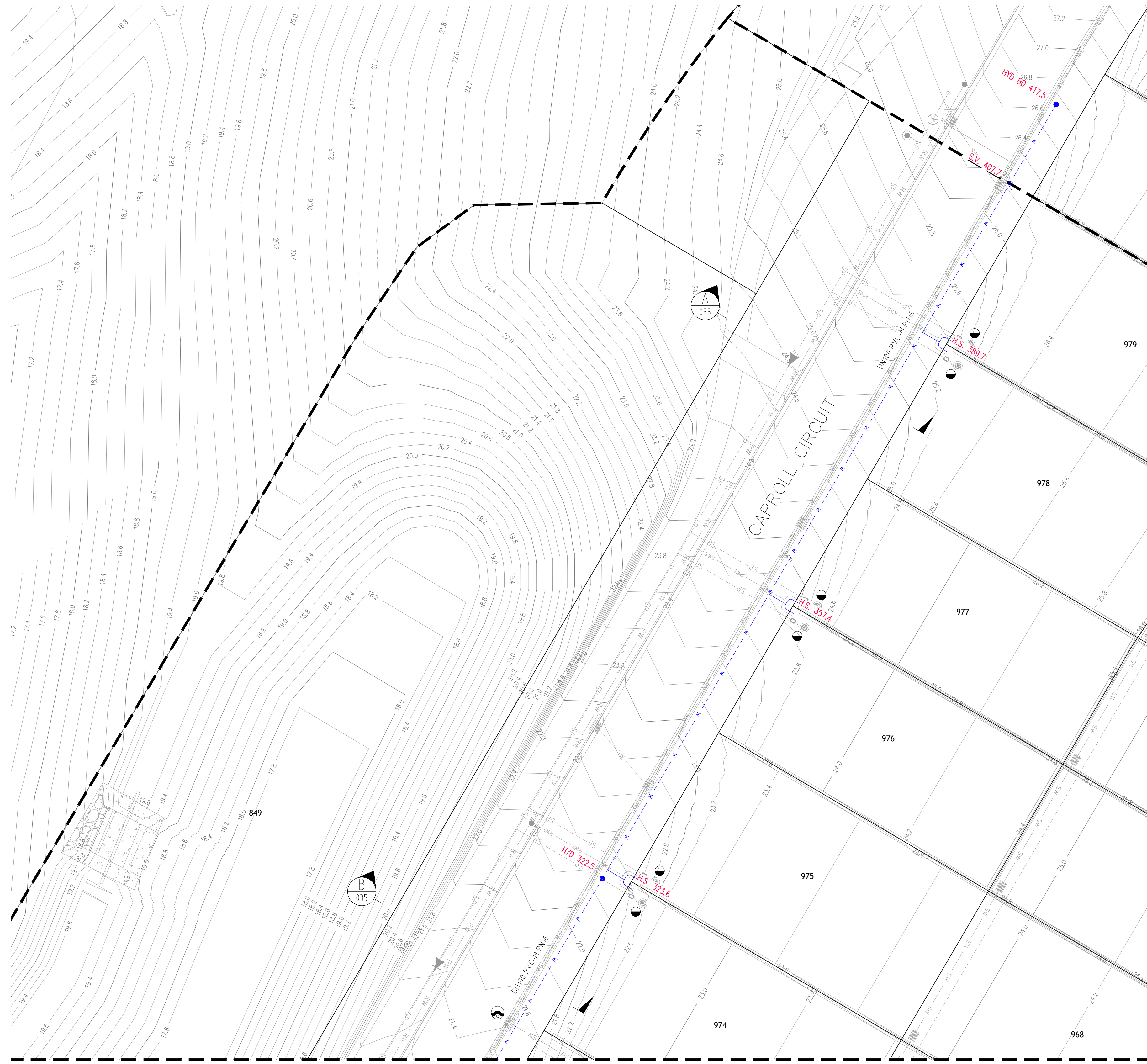
REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY	SCALES	CLIENT	PROPERTY DESCRIPTION	PROJECT	PLAN TITLE	PROJECT No.	DISCIPLINE	NUMBER	REV.
A	20.11.2015	PRELIMINARY ISSUE	J.N.	L.G.	J.N.	L.G.		<p>Hunter Office Unit 7/335 Hillsborough Rd Warners Bay N.S.W. 2282 Phone: (02) 4978 5100 Fax: (02) 4978 5199 email: hunter@adwjohnson.com.au www.adwjohnson.com.au ABN 62 129 445 398</p>	<p>PROPOSED SUBDIVISION PRECINCT 2, STAGES 2.8 AND 2.9 WATAGAN PARK WHISTLER DRIVE, COORANBONG DA/307/2015</p>	<p>POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION</p>	<p>GENERAL NOTES</p>	<p>239078(2.8 & 2.9)</p>	<p>WAT -</p>	<p>002</p>	<p>WAC</p>
B	07.12.2015	AMENDED ISSUE - FLOW SYSTEMS COMMENTS	J.N.	L.G.	J.N.	L.G.									
0	09.12.2015	CONSTRUCTION ISSUE	J.N.	L.G.	J.N.	L.G.									
1	18.05.2016	AMENDED CONSTRUCTION ISSUE - SERVICES RELOCATED	J.N.	L.G.	J.N.	L.G.									
2	29.03.2018	AMENDED CONSTRUCTION ISSUE - SERVICES RELOCATED	J.N.	L.G.	J.N.	L.G.									
3	17.06.2019	AMENDED CONSTRUCTION ISSUE - TANK LEVELS UPDATED	J.N.	L.G.	J.N.	L.G.									
WAC	30.10.2019	WORK-AS-CONSTRUCTED	A.S.A.	V.V.											
WAC	21.11.2019	LOT NUMBERS UPDATED	D.S.												
DESIGN FILE N:\							ALL DIMENSIONS ARE IN METRES. DO NOT SCALE								



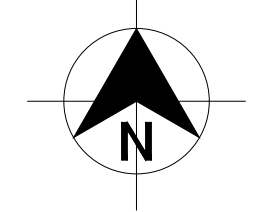
PLAN
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WORK-AS-CONSTRUCTED

REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY	SCALES	CLIENT		PROPERTY DESCRIPTION		PROJECT	PLAN TITLE				
A	20.11.2015	PRELIMINARY ISSUE	J.N.	L.G.	J.N.	L.G.		<p>Hunter Office Unit 7/335 Hillsborough Rd Warners Bay N.S.W. 2282 Phone: (02) 4978 5100 Fax: (02) 4978 5199 email: hunter@adwjohnson.com.au www.adwjohnson.com.au ABN 62 129 445 398</p>		PROPOSED SUBDIVISION PRECINCT 2, STAGES 2.8 AND 2.9 WATAGAN PARK WHISTLER DRIVE, COORANBONG DA/307/2015		POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION	OVERALL SITE PLAN				
B	07.12.2015	AMENDED ISSUE - FLOW SYSTEMS COMMENTS	J.N.	L.G.	J.N.	L.G.											
0	09.12.2015	CONSTRUCTION ISSUE	J.N.	L.G.	J.N.	L.G.											
1	18.05.2016	AMENDED CONSTRUCTION ISSUE - SERVICES RELOCATED	J.N.	L.G.	J.N.	L.G.											
2	29.03.2018	AMENDED CONSTRUCTION ISSUE - SERVICES RELOCATED	J.N.	L.G.	J.N.	L.G.											
3	17.06.2019	AMENDED CONSTRUCTION ISSUE - TANK LEVELS UPDATED	J.N.	L.G.	J.N.	L.G.											
WAC	30.10.2019	WORK-AS-CONSTRUCTED	A.S.A.	V.V.													
WAC	21.11.2019	LOT NUMBERS UPDATED	D.S.														
DESIGN FILE N:\								ALL DIMENSIONS ARE IN METRES. DO NOT SCALE		SURVEYED ADW Johnson		DISCIPLINE WAT -		NUMBER 003		REV. WAC	



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LEGEND

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

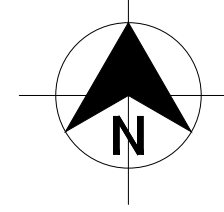
- POTABLE WATER PROPERTY SERVICE CONNECTIONS**
TOTAL 49 CONNECTIONS
- SINGLE SERVICES IN ACCORDANCE WITH WAT-1106-V
 - 5 x SHORT SIDE
 - 0 x LONG SIDE
 - SPLIT SERVICES IN ACCORDANCE WITH WAT-1107-V
 - 14 x SHORT SIDE
 - 8 x LONG SIDE

POTABLE WATER PIPE DATA		
PIPE SIZE (mm)	PIPE MATERIAL	TOTAL LENGTH (m)
DN100	PVC-M PN16	720

- NOTES:**
- FOR RECYCLED WATER PIPEWORK DETAIL PLANS REFER TO DRCS-013 TO 019.
 - FOR PRESSURE SEWER PIPEWORK DETAIL PLANS REFER TO DRCS-022 TO 028.
 - FOR TYPICAL SERVICE CONNECTION DETAILS REFER TO DRG-033.

WORK-AS-CONSTRUCTED

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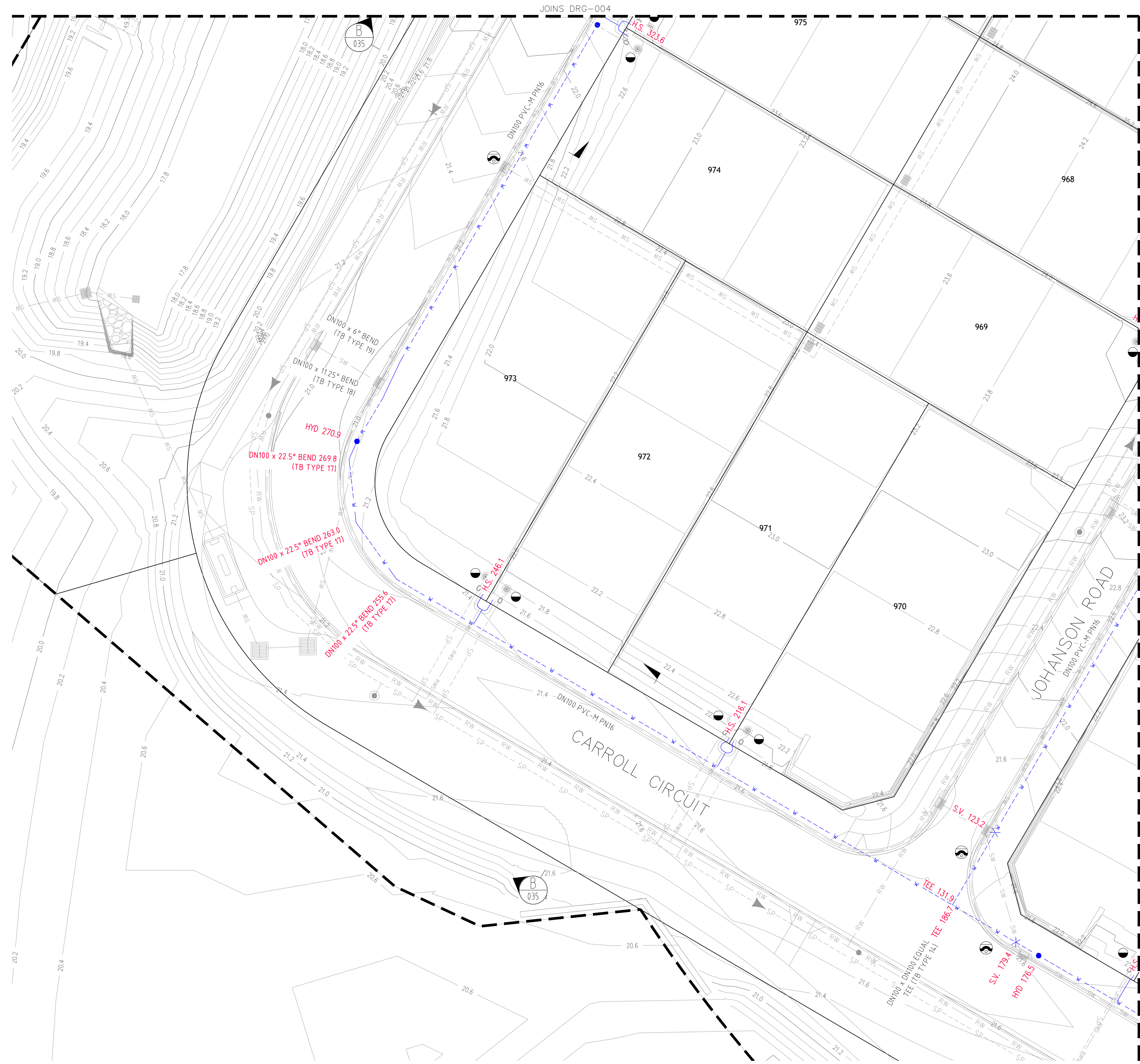
LEGEND

	PVC-M POTABLE WATER RETICULATION
	POTABLE WATER PROPERTY SERVICE
	PVC-M RECYCLED WATER RETICULATION
	RECYCLED WATER PROPERTY SERVICE
	PE PRESSURE SEWER RETICULATION
	TELSTRA
	UNDERGROUND POWER
	STORMWATER PIPEWORK
	STOP VALVE
	HYDRANT
	FLUSHING HYDRANT
	PROPERTY SERVICE CONNECTION
	EXISTING PROPERTY SERVICE CONNECTION
	LAY WATER MAIN OVER STORMWATER PIPE (300mm MIN. VERTICAL CLEARANCE) - REFER TO WAT-1255-H
	LIMIT OF SUBDIVISION WORKS

- POTABLE WATER PROPERTY SERVICE CONNECTIONS**
TOTAL 49 CONNECTIONS
- SINGLE SERVICES IN ACCORDANCE WITH WAT-1106-V
 - 5 x SHORT SIDE
 - 0 x LONG SIDE
 - SPLIT SERVICES IN ACCORDANCE WITH WAT-1107-V
 - 14 x SHORT SIDE
 - 8 x LONG SIDE

POTABLE WATER PIPE DATA		
PIPE SIZE (mm)	PIPE MATERIAL	TOTAL LENGTH (m)
DN100	PVC-M PN16	720

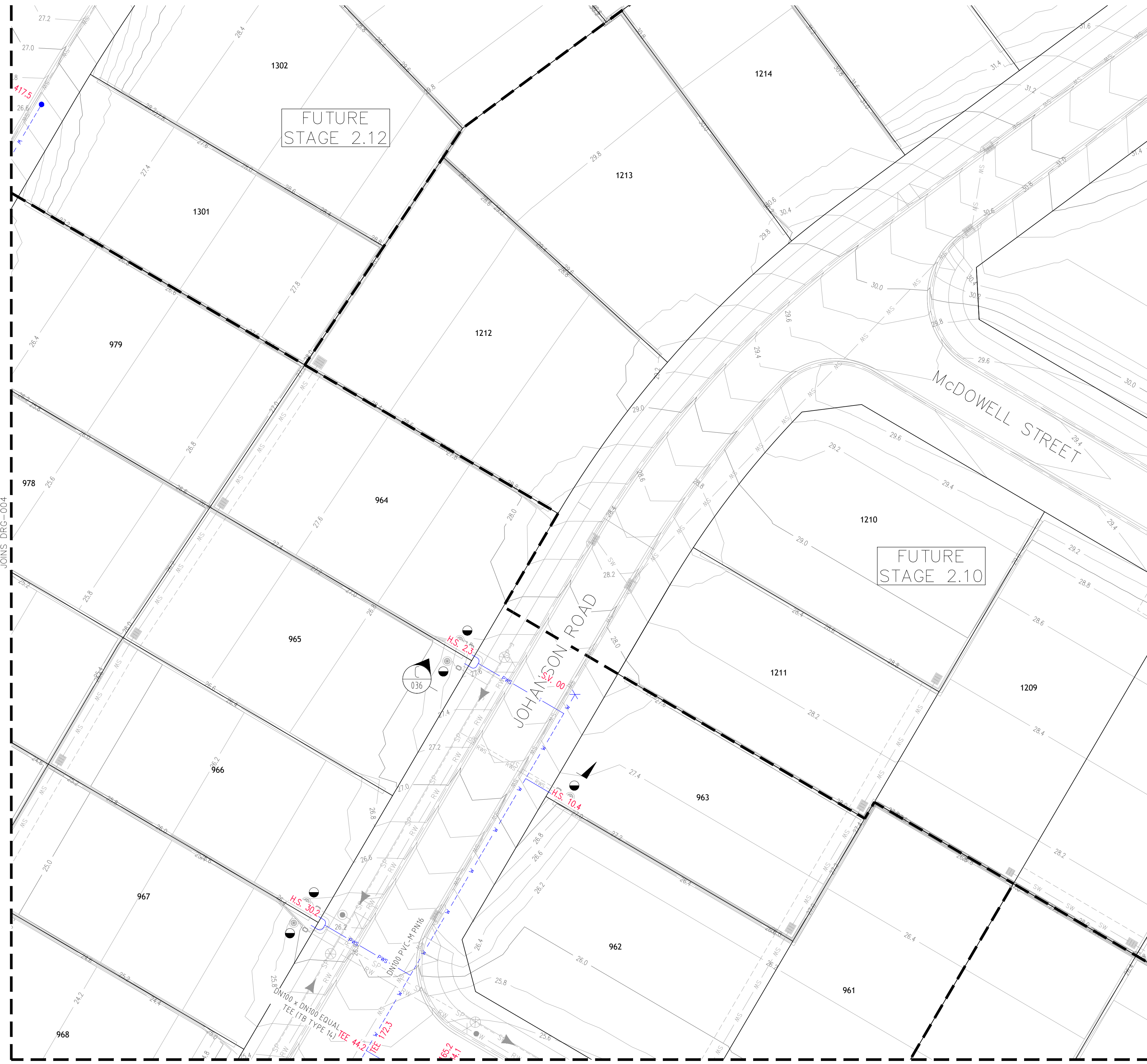
- NOTES:**
- FOR RECYCLED WATER PIPEWORK DETAIL PLANS REFER TO DRGS-013 TO 019.
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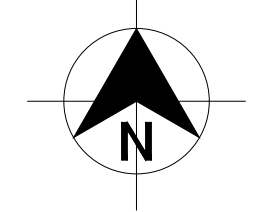
PLAN
SCALE 1:250

WORK-AS-CONSTRUCTED

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PLAN
SCALE 1:250



LEGEND

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RWS	RECYCLED WATER PROPERTY SERVICE
SP	PE PRESSURE SEWER RETICULATION
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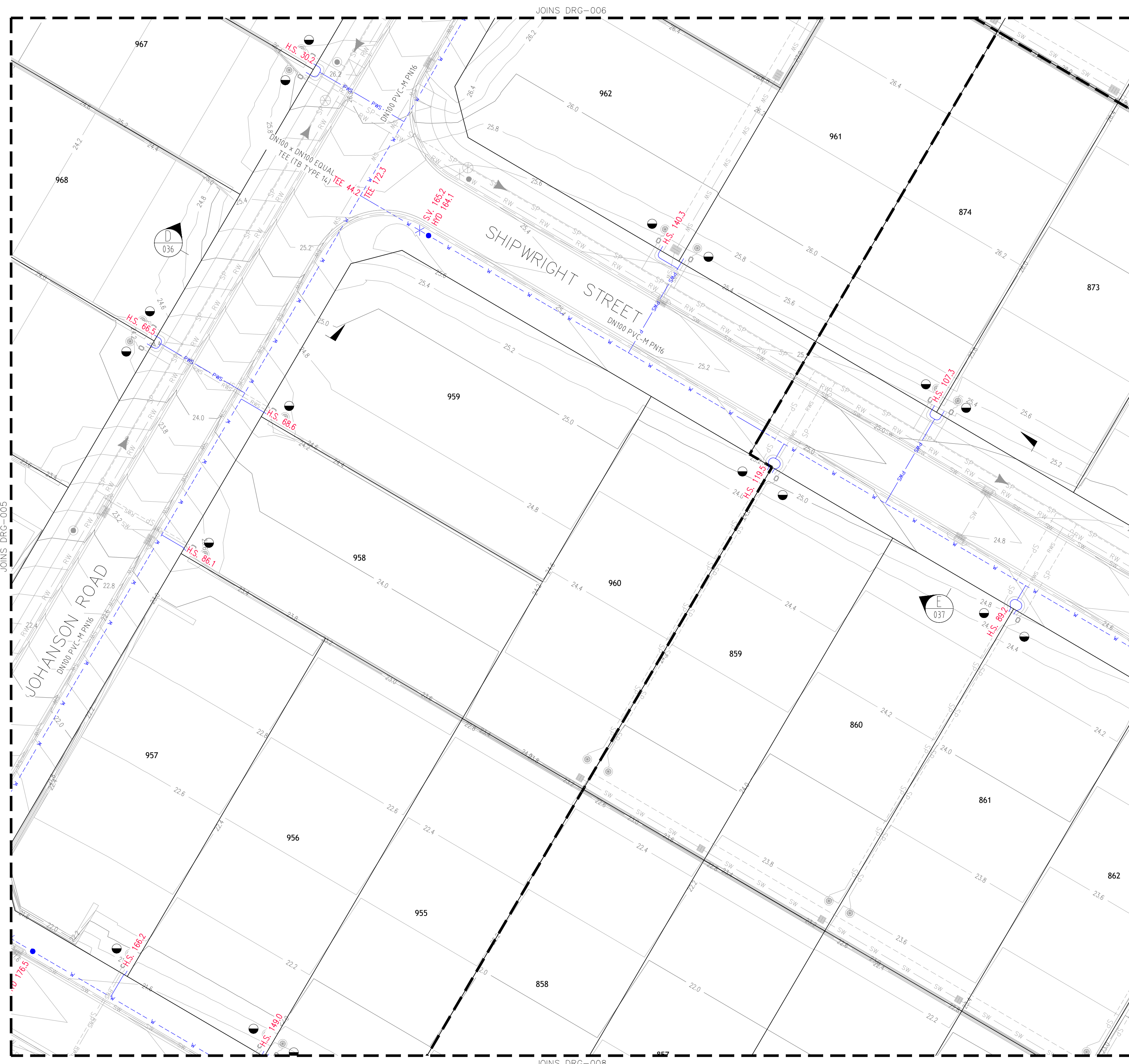
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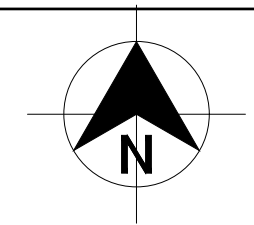
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<p>PLAN TITLE POTABLE WATER DETAIL PLAN - SHEET 3</p>	<p>SURVEYED ADW Johnson</p>	<p>DATUM A.H.D.</p>																																																																						



PLAN
SCALE 1:250



LEGEND

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

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- TOTAL 49 CONNECTIONS
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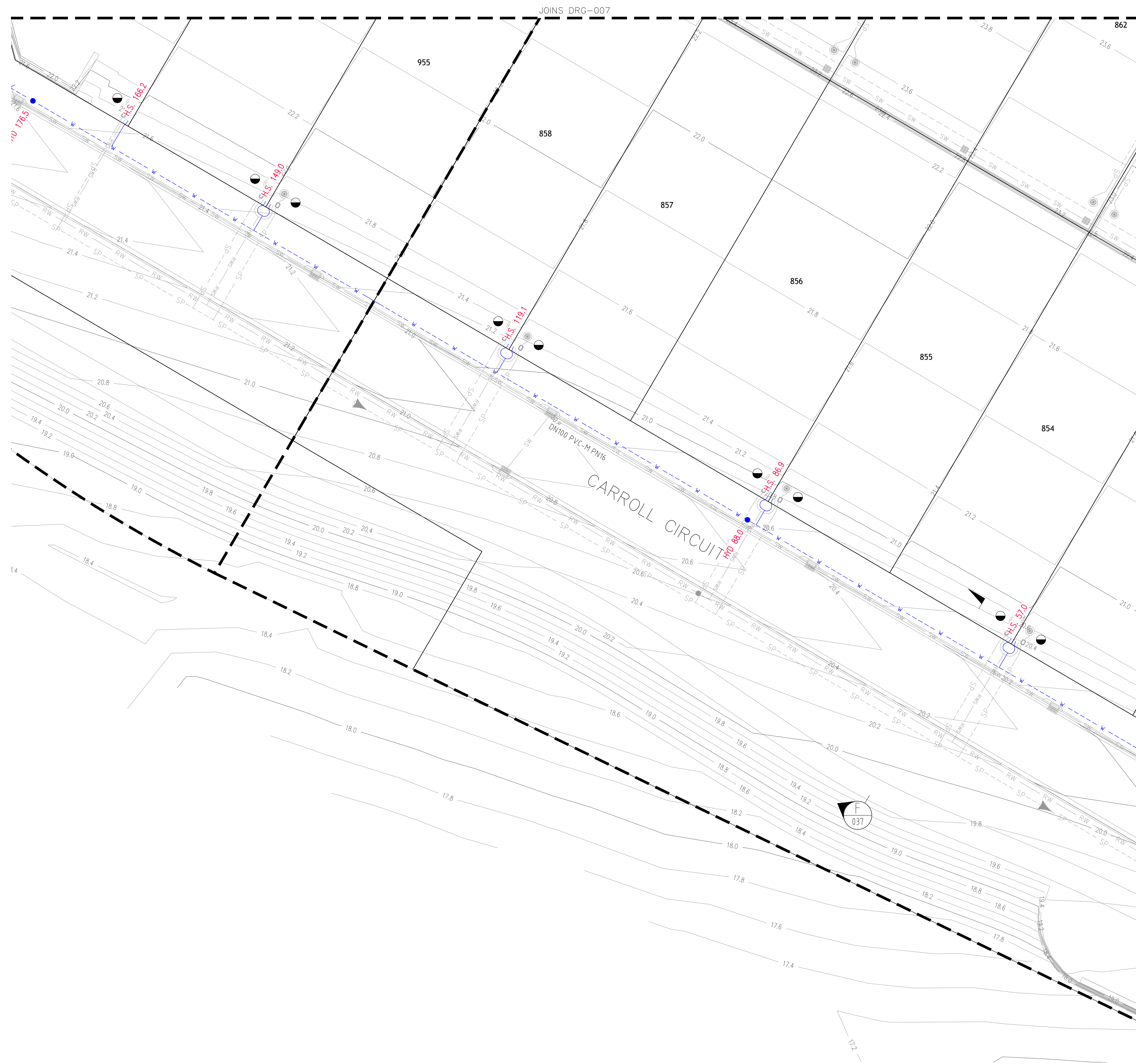
POTABLE WATER PIPE DATA		
PIPE SIZE (mm)	PIPE MATERIAL	TOTAL LENGTH (m)
DN100	PVC-M PN16	720

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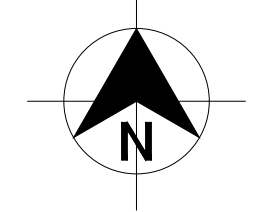
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PLAN
SCALE 1:250



LEGEND

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	RECYCLED WATER PROPERTY SERVICE
	PE PRESSURE SEWER RETICULATION
	TELSTRA
	UNDERGROUND POWER
	STORMWATER PIPEWORK
	STOP VALVE
	HYDRANT
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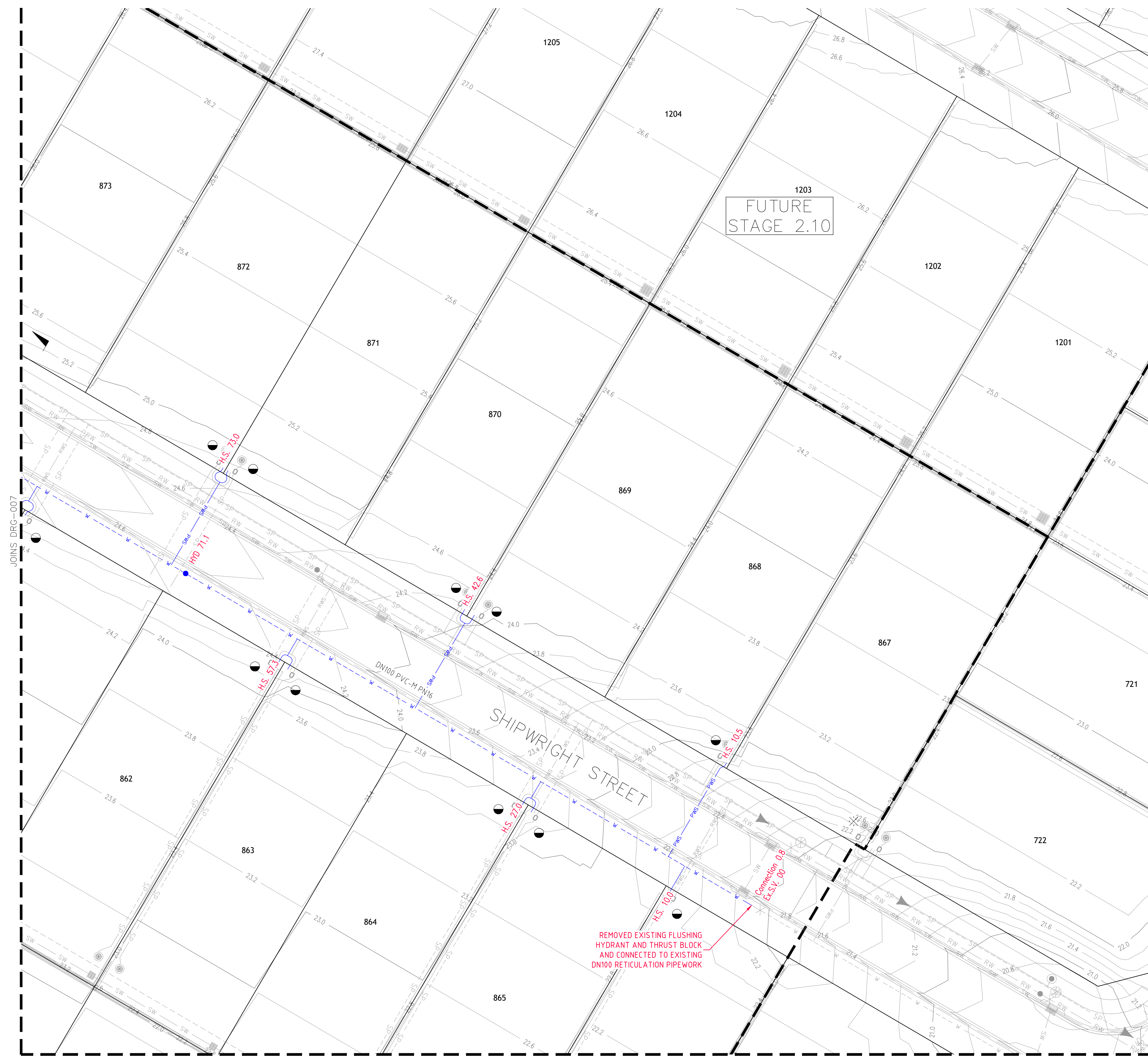
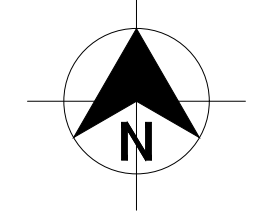
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- TOTAL 49 CONNECTIONS
- SINGLE SERVICES IN ACCORDANCE WITH WAT-1106-V
 - 5 x SHORT SIDE
 - 0 x LONG SIDE
 - SPLIT SERVICES IN ACCORDANCE WITH WAT-1107-V
 - 14 x SHORT SIDE
 - 8 x LONG SIDE

POTABLE WATER PIPE DATA		
PIPE SIZE (mm)	PIPE MATERIAL	TOTAL LENGTH (m)
DN100	PVC-M PN16	720

- NOTES:**
1. FOR RECYCLED WATER PIPEWORK DETAIL PLANS REFER TO DRCS-013 TO 019.
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	PWS	POTABLE WATER PROPERTY SERVICE
	RW	PVC-M RECYCLED WATER RETICULATION
	RWS	RECYCLED WATER PROPERTY SERVICE
	SP	PE PRESSURE SEWER RETICULATION
	T	TELSTRA
	E	UNDERGROUND POWER
	S/W	STORMWATER PIPEWORK
	SV	STOP VALVE
	HYD.	HYDRANT
	FL HYD.	FLUSHING HYDRANT
		PROPERTY SERVICE CONNECTION
		EXISTING PROPERTY SERVICE CONNECTION
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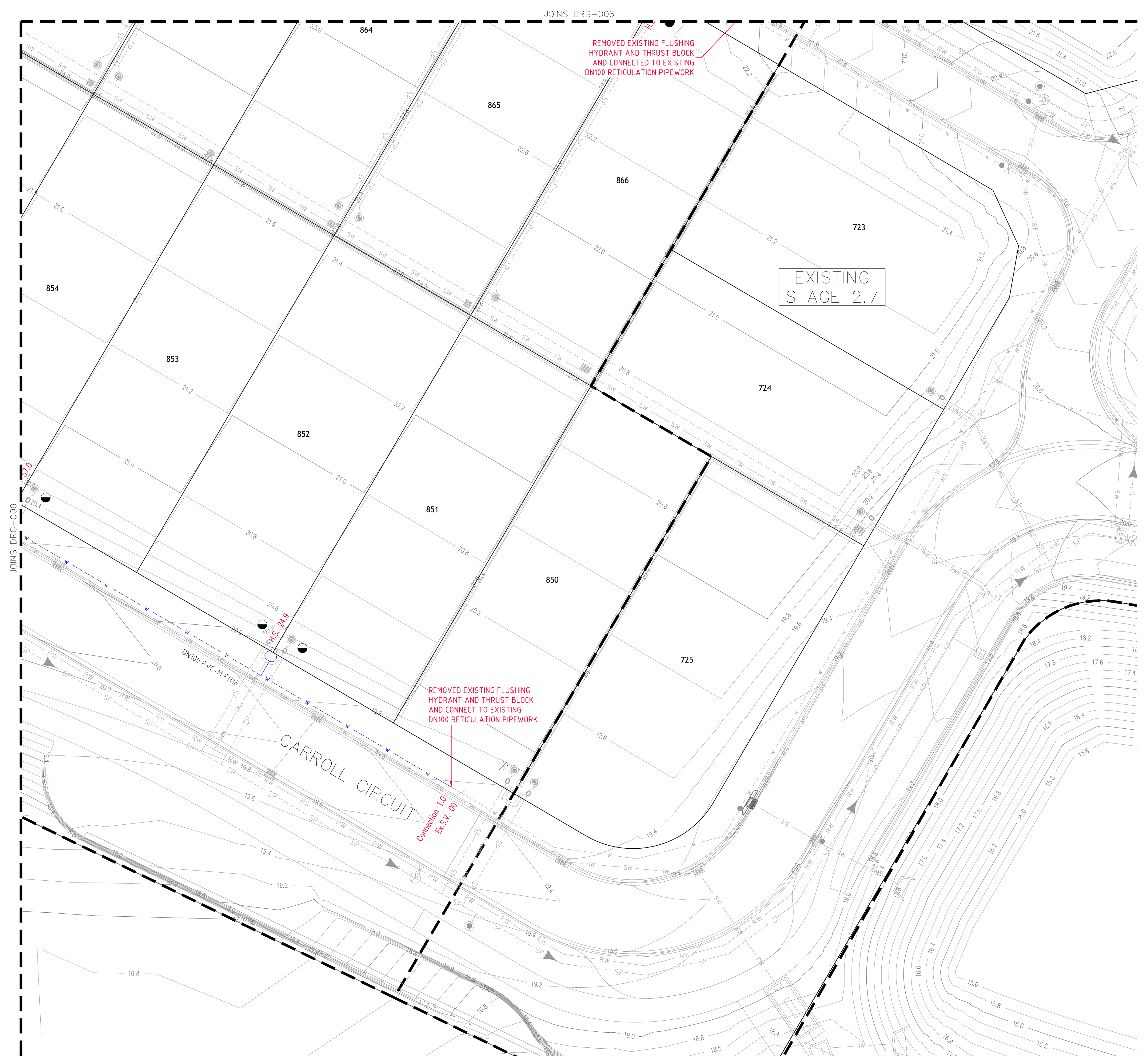
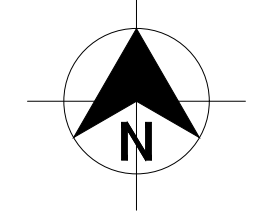
POTABLE WATER PIPE DATA		
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DN100	PVC-M PN16	720

- NOTES:**
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PLAN
SCALE 1:250

WORK-AS-COASTRUCTED

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<p>PLAN TITLE</p> <p>POTABLE WATER DETAIL PLAN - SHEET 7</p>	<p>SURVEYED</p> <p>ADW Johnson</p>	<p>DATUM</p> <p>A.H.D.</p>																																																																					



DIAL 1100
BEFORE YOU DIG

WORK-AS-CONSTRUCTED

REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY	SCALES	CLIENT		PROPERTY DESCRIPTION	PROJECT	DISCIPLINE				
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B	07.12.2015	AMENDED ISSUE - FLOW SYSTEMS COMMENTS	J.N.	L.G.	J.N.	L.G.	PLAN TITLE				NOT USED					
0	09.12.2015	CONSTRUCTION ISSUE	J.N.	L.G.	J.N.	L.G.	PROJECT No.				239078(2.8 & 2.9)		DISCIPLINE		- WAT -	
1	18.05.2016	AMENDED CONSTRUCTION ISSUE - SERVICES RELOCATED	J.N.	L.G.	J.N.	L.G.	NUMBER				011		REV.		WAC	
2	29.03.2018	AMENDED CONSTRUCTION ISSUE - SERVICES RELOCATED	J.N.	L.G.	J.N.	L.G.	SURVEYED				ADW Johnson		DATUM		A.H.D.	
3	17.06.2019	AMENDED CONSTRUCTION ISSUE - TANK LEVELS UPDATED	J.N.	L.G.	J.N.	L.G.	DESIGN FILE N:\						ALL DIMENSIONS ARE IN METRES. DO NOT SCALE			
WAC	30.10.2019	WORK-AS-CONSTRUCTED	A.S.A.	V.V.												
WAC	21.11.2019	LOT NUMBERS UPDATED	D.S.													



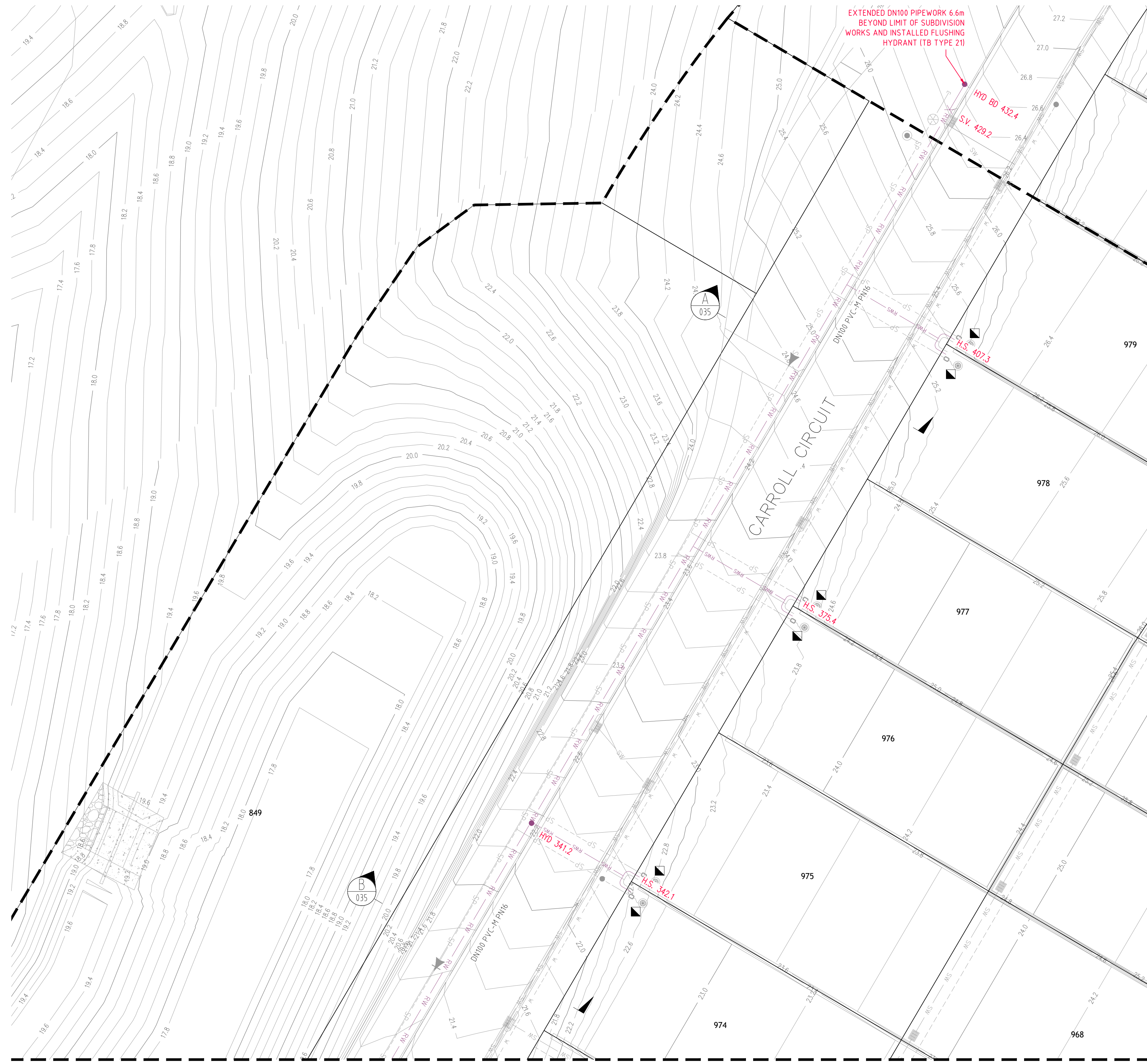
DIAL 1100
BEFORE YOU DIG

100mm AT FULL SIZE

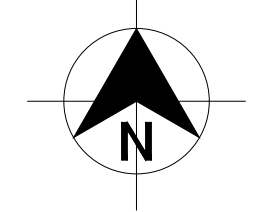
WORK-AS-CONSTRUCTED

REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY	SCALES
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WAC	30.10.2019	WORK-AS-CONSTRUCTED	A.S.A.	V.V.			
WAC	21.11.2019	LOT NUMBERS UPDATED	D.S.				

		Hunter Office Unit 7/335 Hillsborough Rd Warners Bay N.S.W. 2282 Phone: (02) 4978 5100 Fax: (02) 4978 5199 email: hunter@adwjohanson.com.au www.adwjohanson.com.au ABN 62 129 445 398	CLIENT 	PROPERTY DESCRIPTION PROPOSED SUBDIVISION PRECINCT 2, STAGES 2.8 AND 2.9 WATAGAN PARK WHISTLER DRIVE, COORANBONG DA/307/2015	PROJECT POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION PLAN TITLE NOT USED				
DESIGN FILE N:\	ALL DIMENSIONS ARE IN METRES. DO NOT SCALE		SURVEYED ADW Johnson	DATUM A.H.D.	<table border="1"> <tr> <td>PROJECT No. 239078(2.8 & 2.9) – WAT –</td> <td>DISCIPLINE</td> <td>NUMBER 012</td> <td>REV. WAC</td> </tr> </table>	PROJECT No. 239078(2.8 & 2.9) – WAT –	DISCIPLINE	NUMBER 012	REV. WAC
PROJECT No. 239078(2.8 & 2.9) – WAT –	DISCIPLINE	NUMBER 012	REV. WAC						



PLAN
SCALE 1:250



DIAL 1100
BEFORE YOU DIG

LEGEND

- RW PVC-M RECYCLED WATER RETICULATION
- RWS RECYCLED WATER PROPERTY SERVICE
- W PVC-M POTABLE WATER RETICULATION
- PWS POTABLE WATER PROPERTY SERVICE
- SP PE PRESSURE SEWER RETICULATION
- T TELSTRA
- E UNDERGROUND POWER
- S/W STORMWATER PIPEWORK
- SV STOP VALVE
- HYD HYDRANT
- FL HYD FLUSHING HYDRANT
- PROPERTY SERVICE CONNECTION
- EXISTING PROPERTY SERVICE CONNECTION
- 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 49 CONNECTIONS
 - SINGLE SERVICES IN ACCORDANCE WITH WAT-1106-V
 - 0 x SHORT SIDE
 - 5 x LONG SIDE
 - SPLIT SERVICES IN ACCORDANCE WITH WAT-1107-V
 - 12 x SHORT SIDE
 - 10 x LONG SIDE

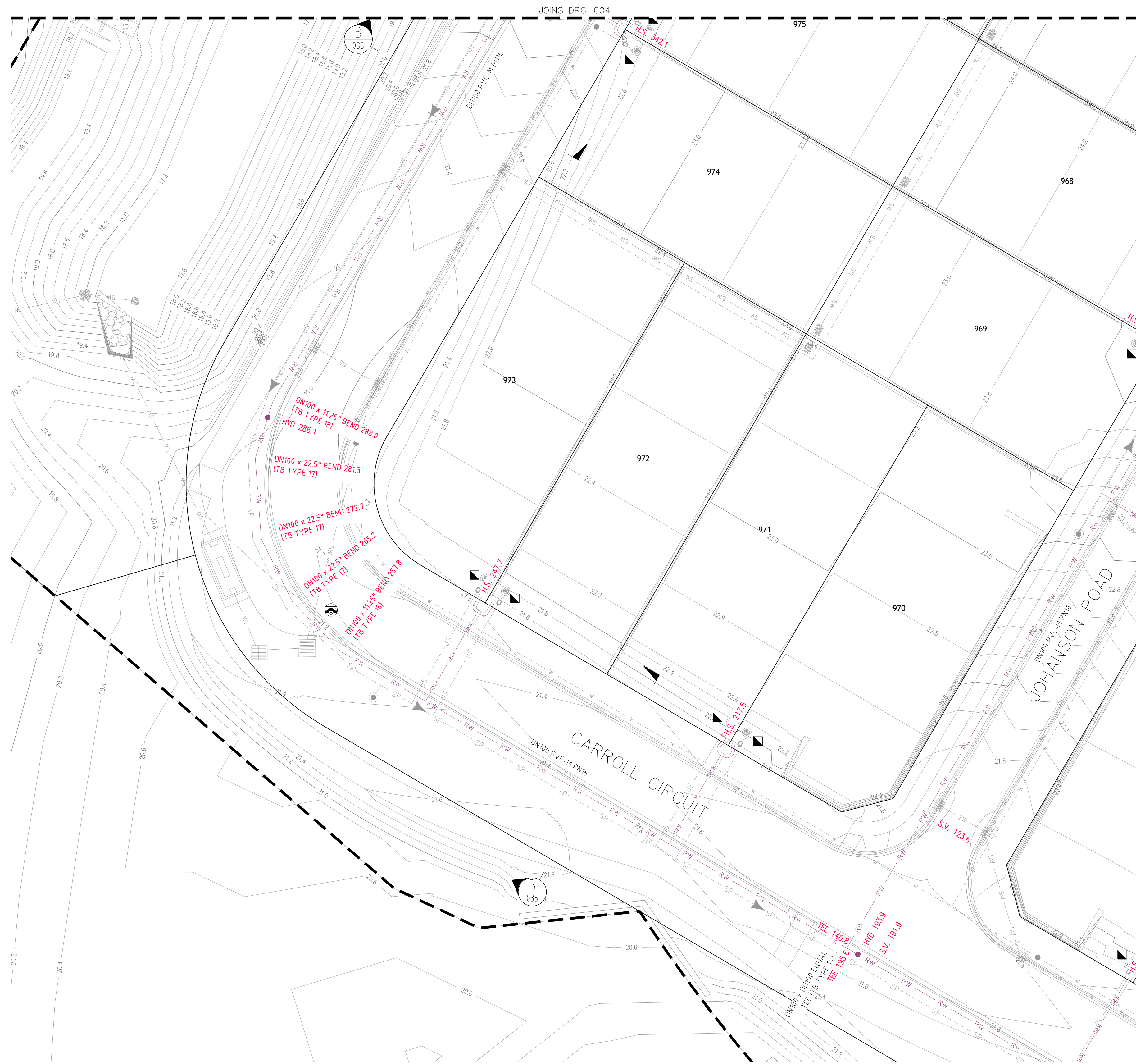
RECYCLED WATER PIPE DATA		
PIPE SIZE (mm)	PIPE MATERIAL	TOTAL LENGTH (m)
DN100	PVC-M PN16	750

NOTES:

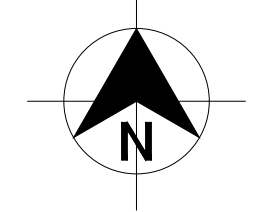
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2. FOR PRESSURE SEWER PIPEWORK DETAIL PLANS REFER TO DRGS-022 TO 038.
3. FOR TYPICAL SERVICE CONNECTION DETAILS REFER TO DRG-033.

WORK-AS-COASTRUCTED

REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY	SCALES	CLIENT	PROPERTY DESCRIPTION	PROJECT	PLAN TITLE	PROJECT No.	DISCIPLINE	NUMBER	REV.
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B	07.12.2015	AMENDED ISSUE - FLOW SYSTEMS COMMENTS	J.N.	L.G.	J.N.	L.G.									
0	09.12.2015	CONSTRUCTION ISSUE	J.N.	L.G.	J.N.	L.G.									
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PLAN
SCALE 1:250



LEGEND

	RW	PVC-M RECYCLED WATER RETICULATION
	RWS	RECYCLED WATER PROPERTY SERVICE
	W	PVC-M POTABLE WATER RETICULATION
	PWS	POTABLE WATER PROPERTY SERVICE
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RECYCLED WATER PIPE DATA		
PIPE SIZE (mm)	PIPE MATERIAL	TOTAL LENGTH (m)
DN100	PVC-M PN16	750

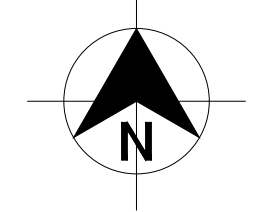
- NOTES:**
- FOR POTABLE WATER PIPEWORK DETAIL PLANS REFER TO DRGS-004 TO 010.
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WORK-AS-CONSTRUCTED

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PLAN
SCALE 1:250



LEGEND

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

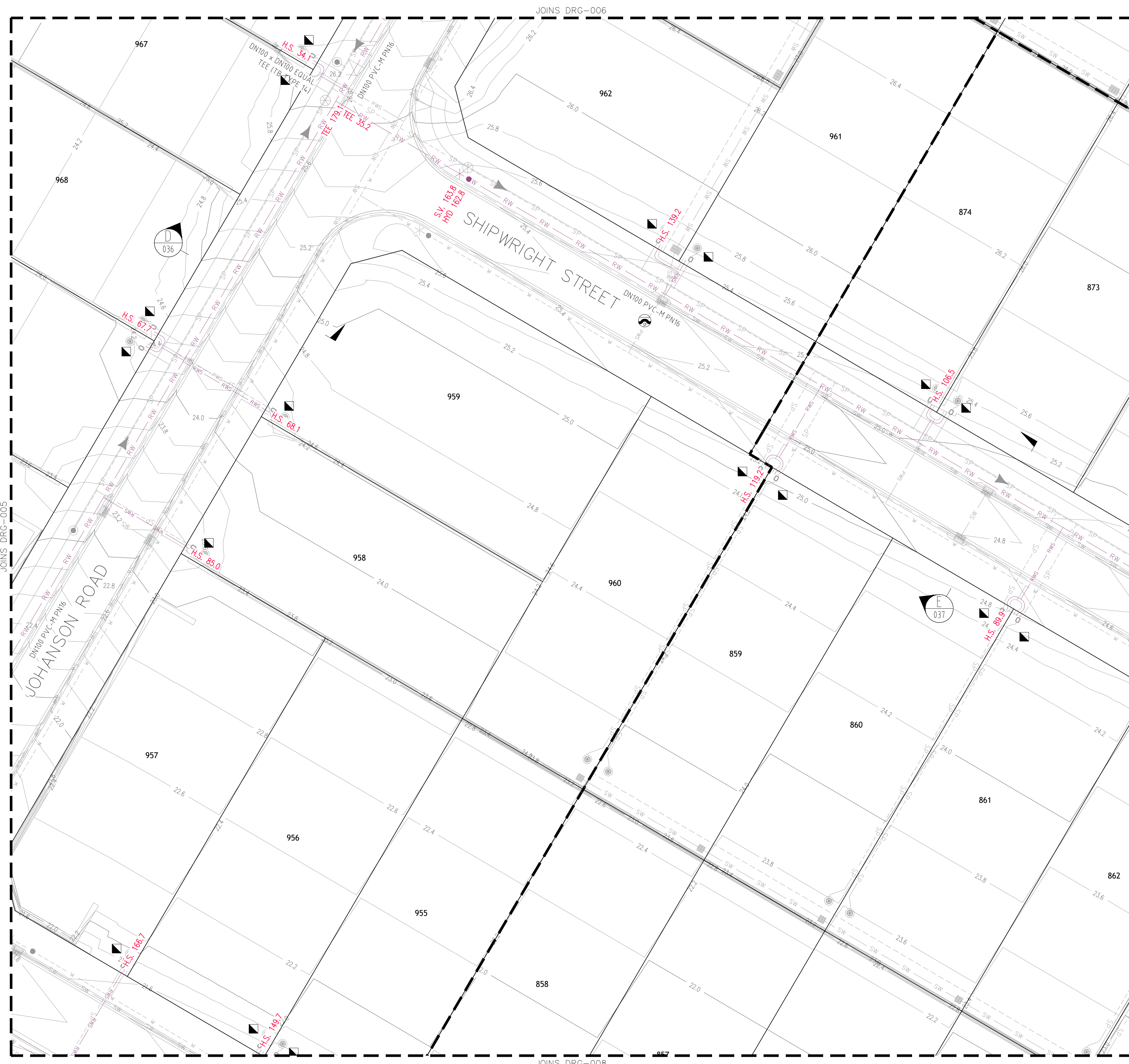
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RECYCLED WATER PIPE DATA		
PIPE SIZE (mm)	PIPE MATERIAL	TOTAL LENGTH (m)
DN100	PVC-M PN16	750

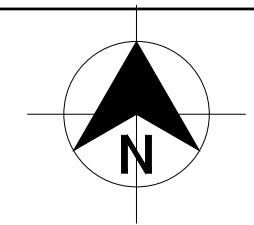
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WORK-AS-CONSTRUCTED

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PLAN
SCALE 1:250



LEGEND

— RW — RW —	PVC-M RECYCLED WATER RETICULATION
— RWS — RWS —	RECYCLED WATER PROPERTY SERVICE
— W — W —	PVC-M POTABLE WATER RETICULATION
— PWS — PWS —	POTABLE WATER PROPERTY SERVICE
— SP — SP —	PE PRESSURE SEWER RETICULATION
— T — T —	TELSTRA
— 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 OVER STORMWATER PIPE (300mm MIN. VERTICAL CLEARANCE) - REFER TO WAT-1255-H
---	LIMIT OF SUBDIVISION WORKS

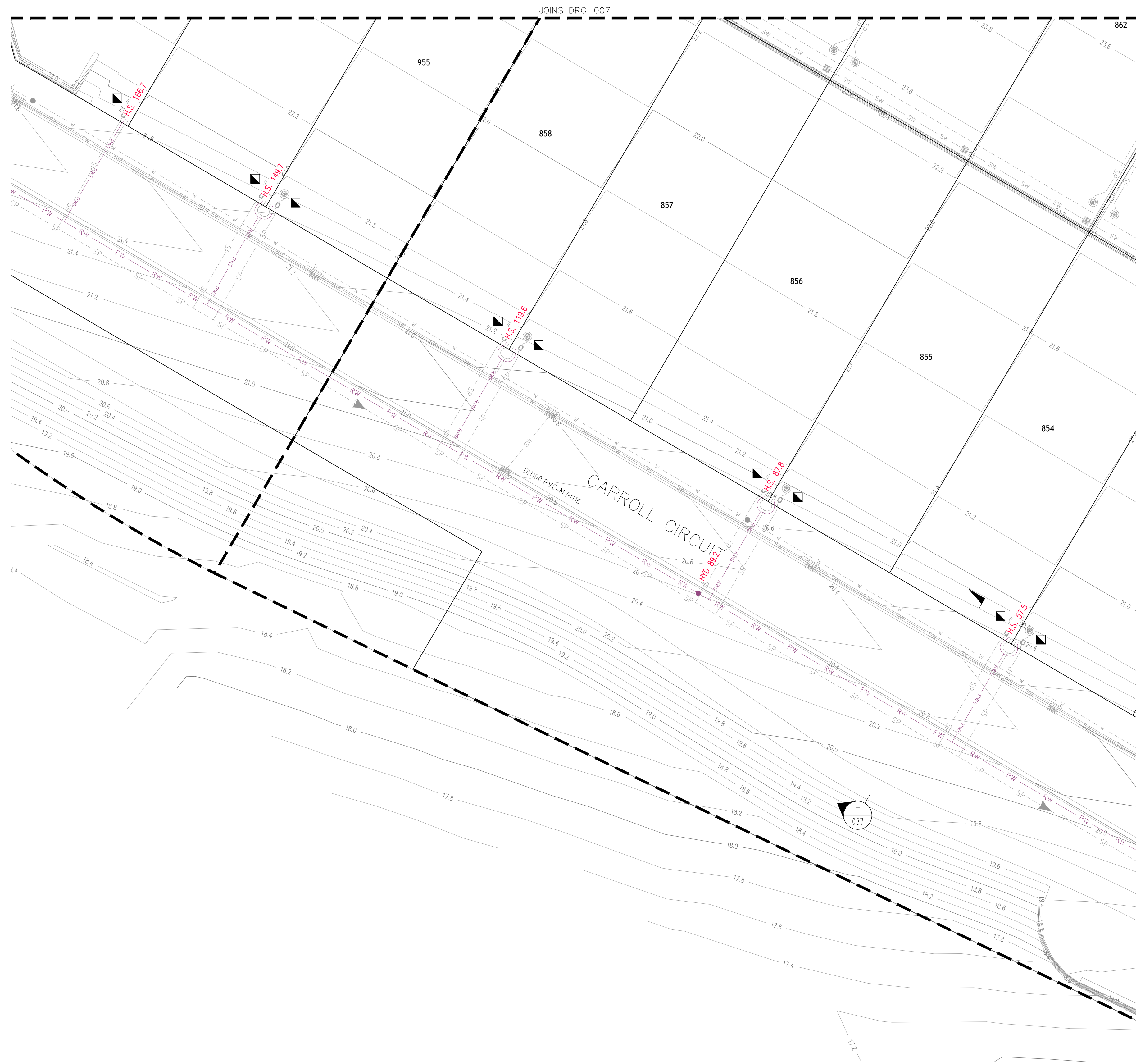
- RECYCLED WATER PROPERTY SERVICE CONNECTIONS
TOTAL 49 CONNECTIONS
- SINGLE SERVICES IN ACCORDANCE WITH WAT-1106-V
 - 0 x SHORT SIDE
 - 5 x LONG SIDE
 - SPLIT SERVICES IN ACCORDANCE WITH WAT-1107-V
 - 12 x SHORT SIDE
 - 10 x LONG SIDE

RECYCLED WATER PIPE DATA		
PIPE SIZE (mm)	PIPE MATERIAL	TOTAL LENGTH (m)
DN100	PVC-M PN16	750

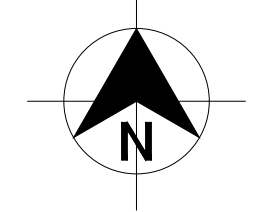
- NOTES:**
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PLAN
SCALE 1:250



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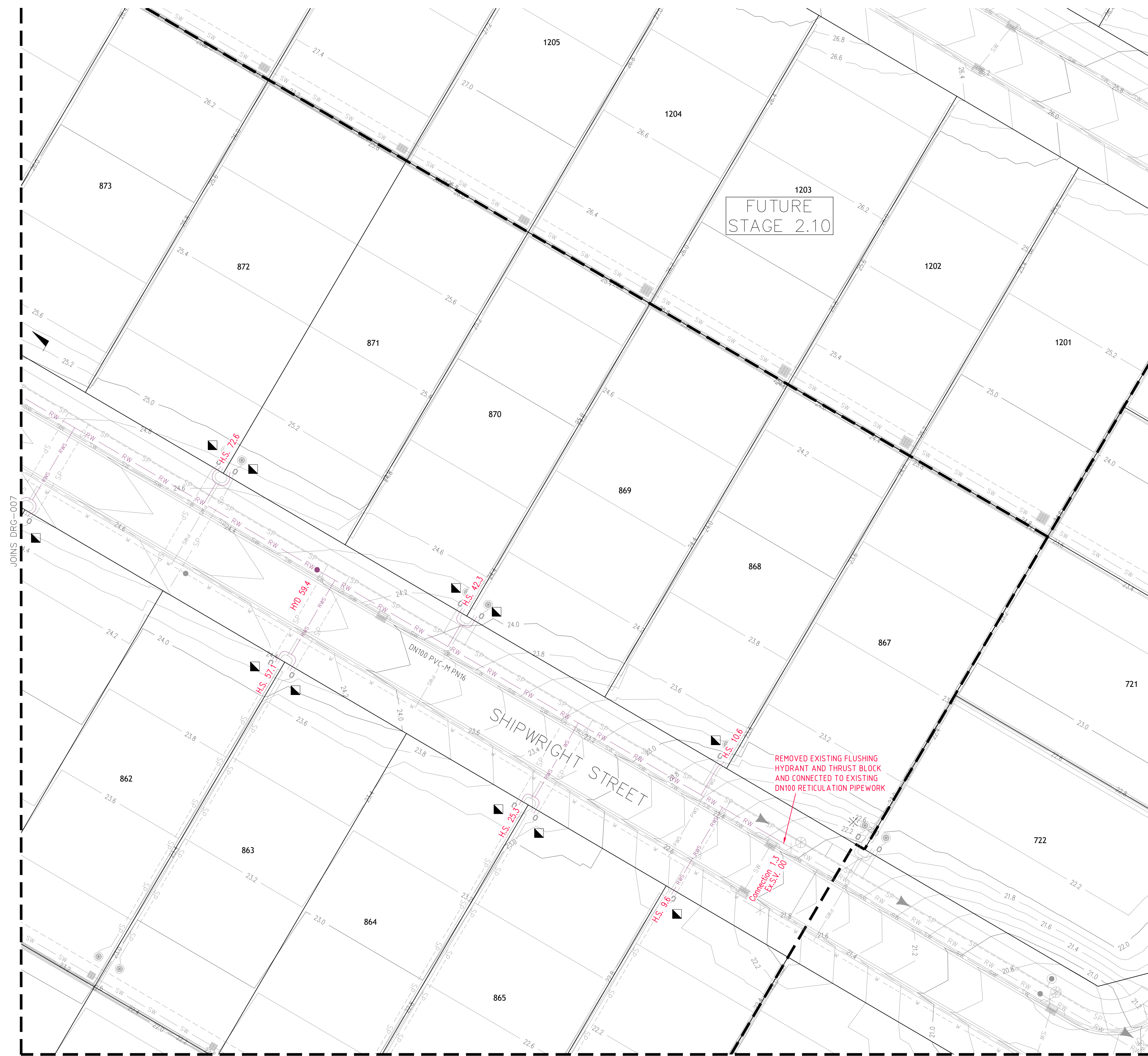
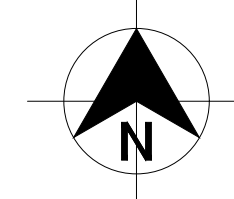
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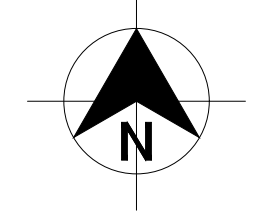
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SCALE 1:250

WORK-AS-COASTRUCTED

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LEGEND

RW	RW	PVC-M RECYCLED WATER RETICULATION
RWS	RWS	RECYCLED WATER PROPERTY SERVICE
W	W	PVC-M POTABLE WATER RETICULATION
PWS	PWS	POTABLE WATER PROPERTY SERVICE
SP	SP	PE PRESSURE SEWER RETICULATION
T	T	TELSTRA
E	E	UNDERGROUND POWER
S/W	S/W	STORMWATER PIPEWORK
SV	SV	STOP VALVE
HYD.	HYD.	HYDRANT
FL HYD.	FL HYD.	FLUSHING HYDRANT
■	■	PROPERTY SERVICE CONNECTION
⊗	⊗	EXISTING PROPERTY SERVICE CONNECTION
⊙	⊙	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 49 CONNECTIONS
 • SINGLE SERVICES IN ACCORDANCE WITH WAT-1106-V
 -0 x SHORT SIDE
 -5 x LONG SIDE
 • SPLIT SERVICES IN ACCORDANCE WITH WAT-1107-V
 -12 x SHORT SIDE
 -10 x LONG SIDE

RECYCLED WATER PIPE DATA		
PIPE SIZE (mm)	PIPE MATERIAL	TOTAL LENGTH (m)
DN100	PVC-M PN16	750

- NOTES:**
 1. FOR POTABLE WATER PIPEWORK DETAIL PLANS REFER TO DRGS-004 TO 010.
 2. FOR PRESSURE SEWER PIPEWORK DETAIL PLANS REFER TO DRGS-022 TO 038.
 3. FOR TYPICAL SERVICE CONNECTION DETAILS REFER TO DRG-033.

WORK-AS-COASTRUCTED

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DIAL 1100
BEFORE YOU DIG

100mm AT FULL SIZE

WORK-AS-CONSTRUCTED

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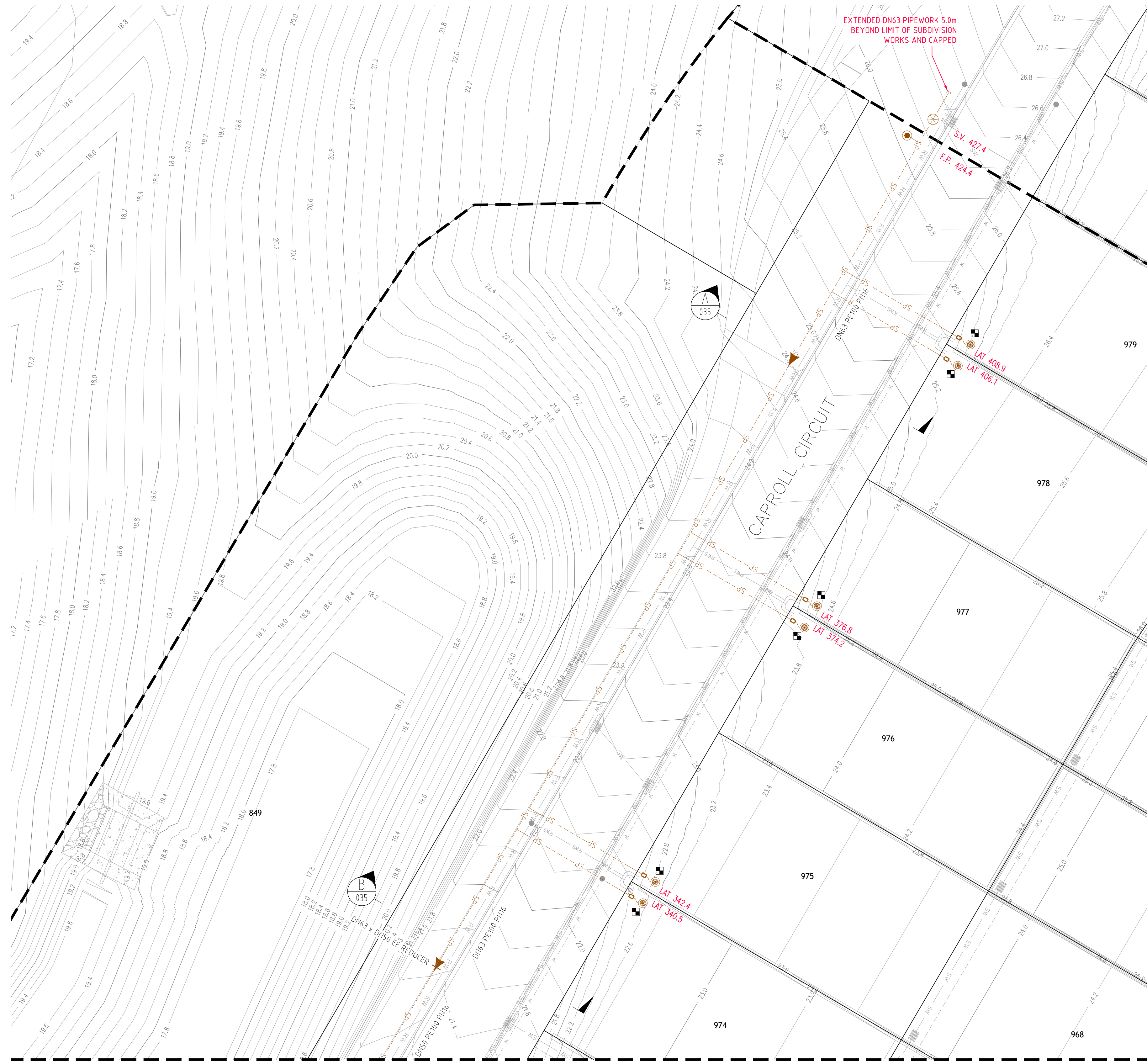
DIAL 1100
BEFORE YOU DIG

100mm AT FULL SIZE

WORK-AS-CONSTRUCTED

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SURVEYED ADW Johnson	DATUM A.H.D.	PROJECT No. 239078(2.8 & 2.9)	DISCIPLINE - WAT -	NUMBER 021	REV. WAC



PLAN
SCALE 1:250

LEGEND

- SP PE PRESSURE SEWER RETICULATION
- W PVC-M POTABLE WATER RETICULATION
- PWS POTABLE WATER PROPERTY SERVICE
- RW PVC-M RECYCLED WATER RETICULATION
- RWS RECYCLED WATER PROPERTY SERVICE
- T TELSTRA
- E UNDERGROUND POWER
- S/W STORMWATER PIPEWORK
- IV ISOLATION VALVE
- FP FLUSHING POINT
- WASTEWATER COLLECTION TANK AND BOUNDARY KIT
- PRESSURE SEWER FLOW DIRECTION (SEE NOTE 8)
- 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 49 CONNECTIONS
 • SINGLE SERVICES
 -16 x SHORT SIDE
 -33 x LONG SIDE

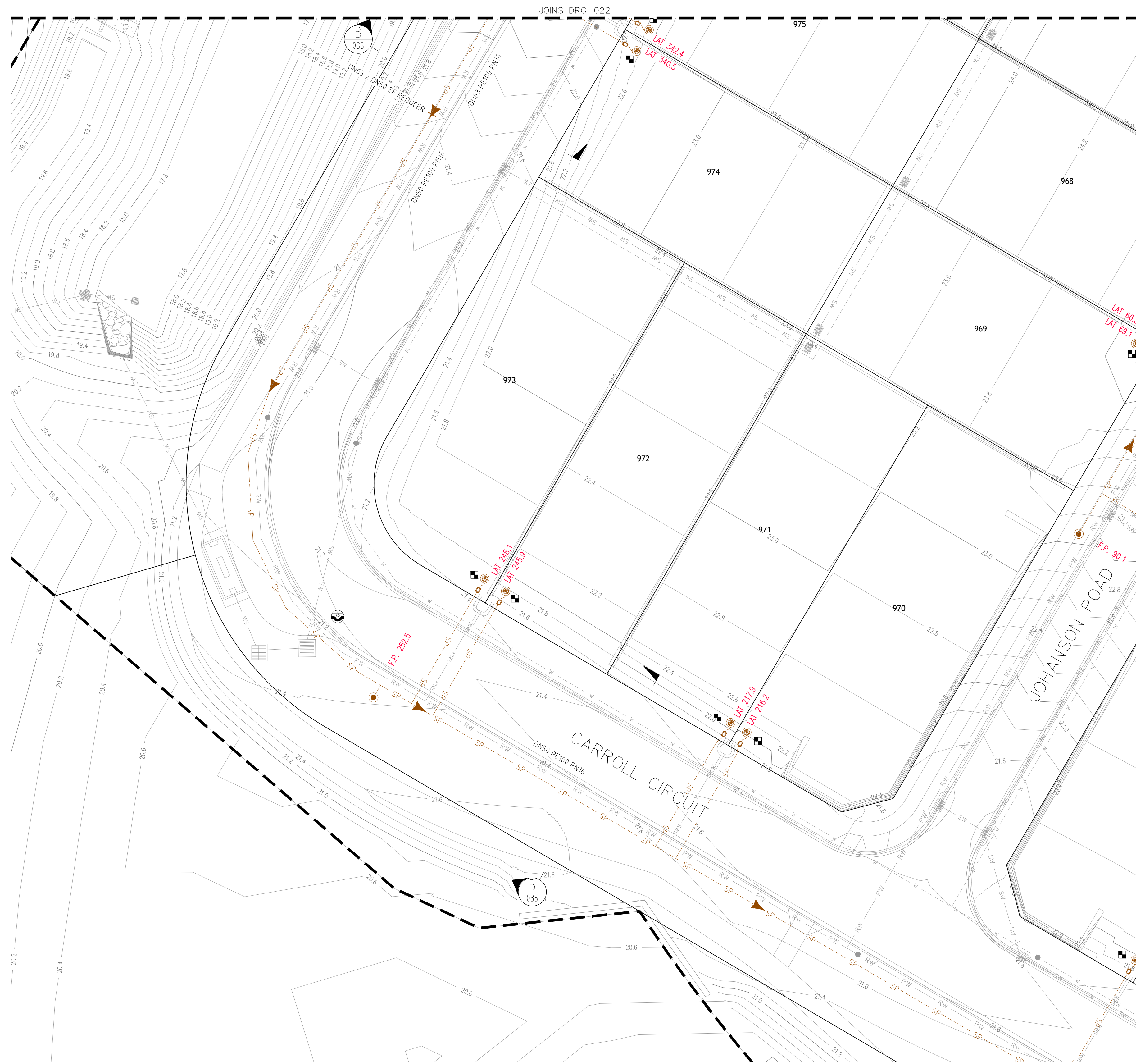
PRESSURE SEWER PIPE DATA		
PIPE SIZE (mm)	PIPE MATERIAL	TOTAL LENGTH (m)
DN63	PE100 PN16	153
DN50	PE100 PN16	561

- NOTES:**
- FOR POTABLE WATER PIPEWORK DETAIL PLANS REFER TO DRGS-004 TO 010.
 - FOR RECYCLED WATER PIPEWORK DETAIL PLANS REFER TO DRGS-013 AND 019.
 - FOR TYPICAL SERVICE CONNECTION DETAILS REFER TO DRG-033.
 - FOR FLUSHING POINT TYPICAL DETAILS REFER TO STANDARD DRAWING PSS-1017-FS.
 - CONTRACTOR MAY BEND POLYETHYLENE PIPEWORK IN PLACE OF USING STANDARD FITTINGS WITH A MIN. BENDING RADIUS OF 20 x PIPE DIAM.
 - ALL BENDS SHALL BE ELECTROFUSION SWEEP BENDS (FABRICATED BENDS SHALL NOT BE USED).
 - DN280 AND DN250 PE PRESSURE SEWER MAIN TO BE LAID TO GRADE.
 - DIRECTION OF FLOW OF PRESSURE SEWER SHOWN ON THESE DRAWINGS IS TEMPORARY. FLOW ALONG SHIPWRIGHT STREET WILL BE REDIRECTED THROUGH STAGES 2.10, AND 2.11 AFTER CONSTRUCTION OF STAGES 2.10 AND 2.11 HAS BEEN COMPLETED. FLOW ALONG CARROLL CIRCUIT WILL BE REDIRECTED THROUGH STAGE 2.12 AFTER CONSTRUCTION OF STAGE 2.12 HAS BEEN COMPLETED.

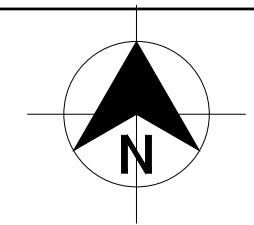
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B	07.12.2015	AMENDED ISSUE - FLOW SYSTEMS COMMENTS	J.N.	L.G.	J.N.	L.G.										PROJECT No. 239078(2.8 & 2.9) - WAT - 022	
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PLAN
SCALE 1:250



LEGEND

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W	PVC-M POTABLE WATER RETICULATION
PWS	POTABLE WATER PROPERTY SERVICE
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RWS	RECYCLED WATER PROPERTY SERVICE
T	TELSTRA
E	UNDERGROUND POWER
S/W	STORMWATER PIPEWORK
IV	ISOLATION VALVE
FP	FLUSHING POINT
(Circle with 'X')	WASTEWATER COLLECTION TANK AND BOUNDARY KIT
(Arrow)	PRESSURE SEWER FLOW DIRECTION (SEE NOTE 8)
(Square)	PROPERTY SERVICE CONNECTION
(Cross)	EXISTING PROPERTY SERVICE CONNECTION
(Circle with 'X' over line)	LAY WATER MAIN UNDER STORMWATER PIPE (300mm MIN. VERTICAL CLEARANCE) - REFER TO WAT-1255-H
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(Dashed line)	LIMIT OF SUBDIVISION WORKS

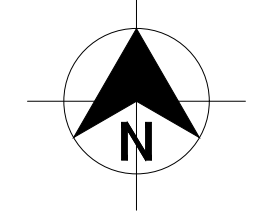
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WORK-AS-CONSTRUCTED

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 - W PVC-M POTABLE WATER RETICULATION
 - PWS POTABLE WATER PROPERTY SERVICE
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 - RWS RECYCLED WATER PROPERTY SERVICE
 - T TELSTRA
 - E UNDERGROUND POWER
 - S/W STORMWATER PIPEWORK
 - IV ISOLATION VALVE
 - FP FLUSHING POINT
 - WASTEWATER COLLECTION TANK AND BOUNDARY KIT
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 - PROPERTY SERVICE CONNECTION
 - EXISTING PROPERTY SERVICE CONNECTION
 - LAY WATER MAIN UNDER STORMWATER PIPE (300mm MIN. VERTICAL CLEARANCE) - REFER TO WAT-1255-H
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 - LIMIT OF SUBDIVISION WORKS

- PRESSURE SEWER PROPERTY SERVICE CONNECTIONS
 TOTAL 49 CONNECTIONS
 • SINGLE SERVICES
 -16 x SHORT SIDE
 -33 x LONG SIDE

PRESSURE SEWER PIPE DATA		
PIPE SIZE (mm)	PIPE MATERIAL	TOTAL LENGTH (m)
DN63	PE100 PN16	153
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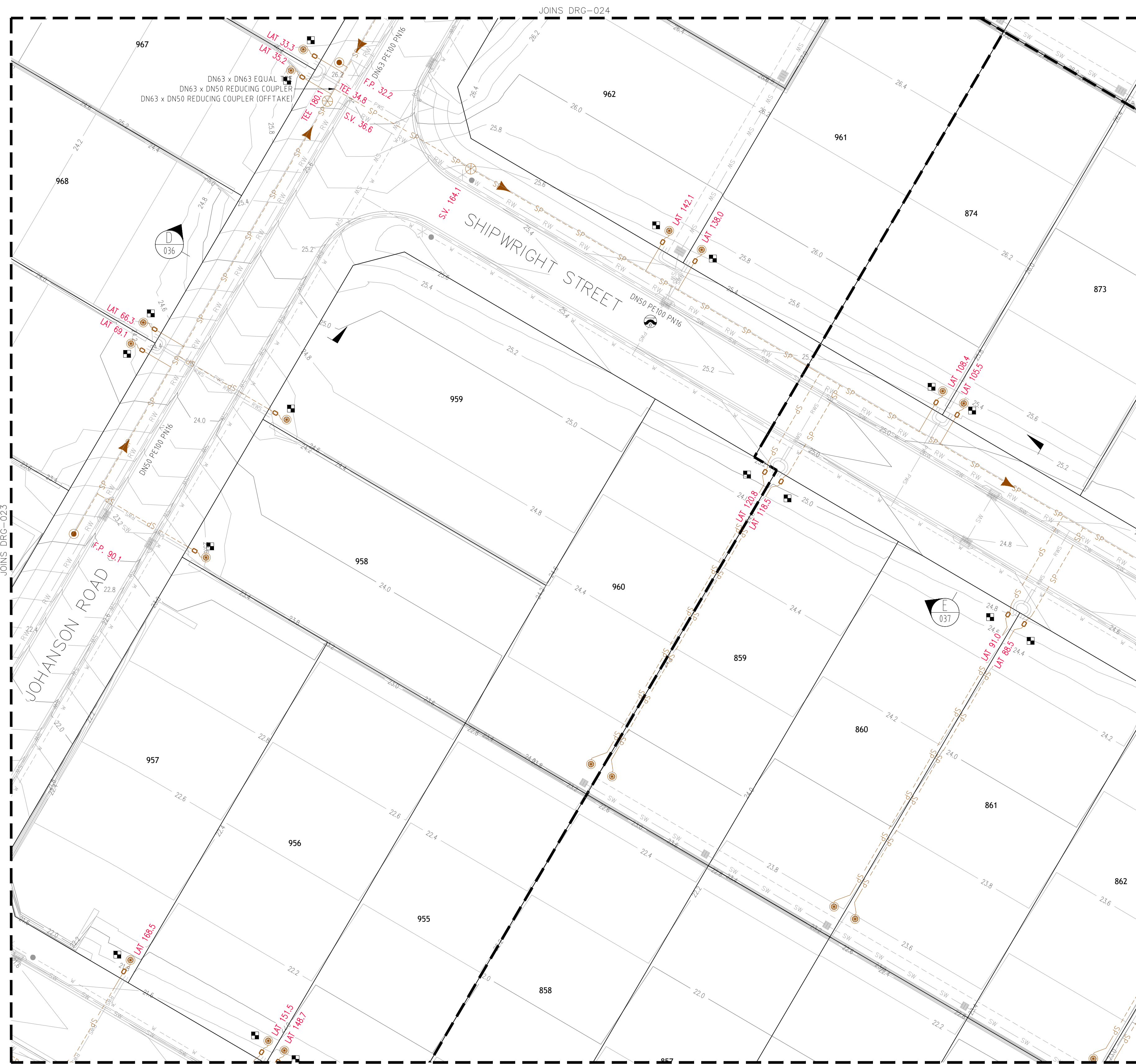
- NOTES:**
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PLAN
SCALE 1:250

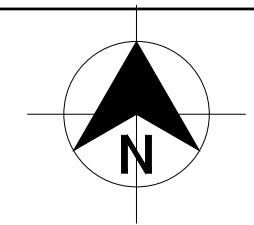
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ALL DIMENSIONS ARE IN METRES. DO NOT SCALE



PLAN
SCALE 1:250



LEGEND

- SP PE PRESSURE SEWER RETICULATION
- W PVC-M POTABLE WATER RETICULATION
- PWS POTABLE WATER PROPERTY SERVICE
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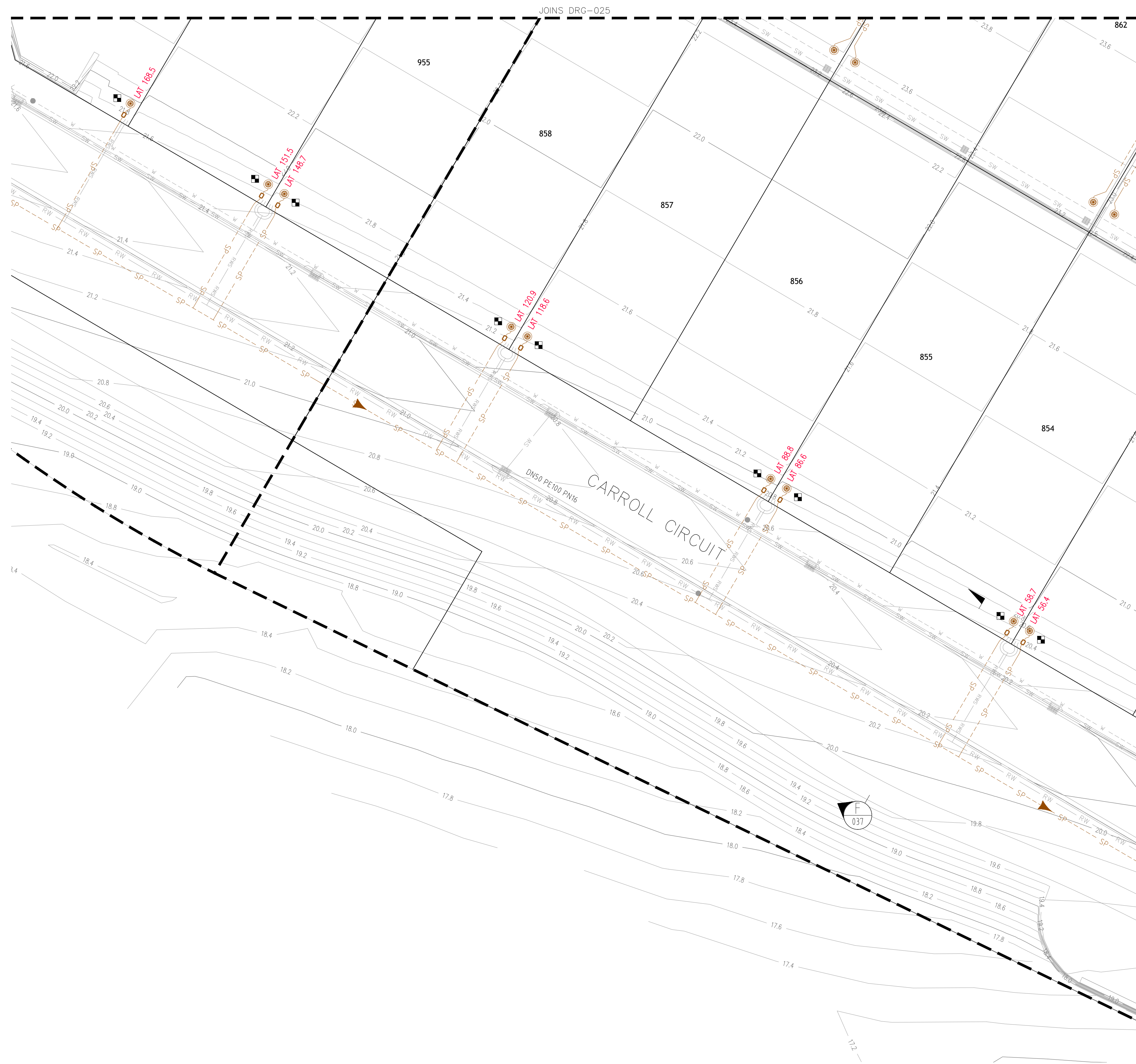
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PRESSURE SEWER PIPE DATA		
PIPE SIZE (mm)	PIPE MATERIAL	TOTAL LENGTH (m)
DN63	PE100 PN16	153
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PLAN
SCALE 1:250

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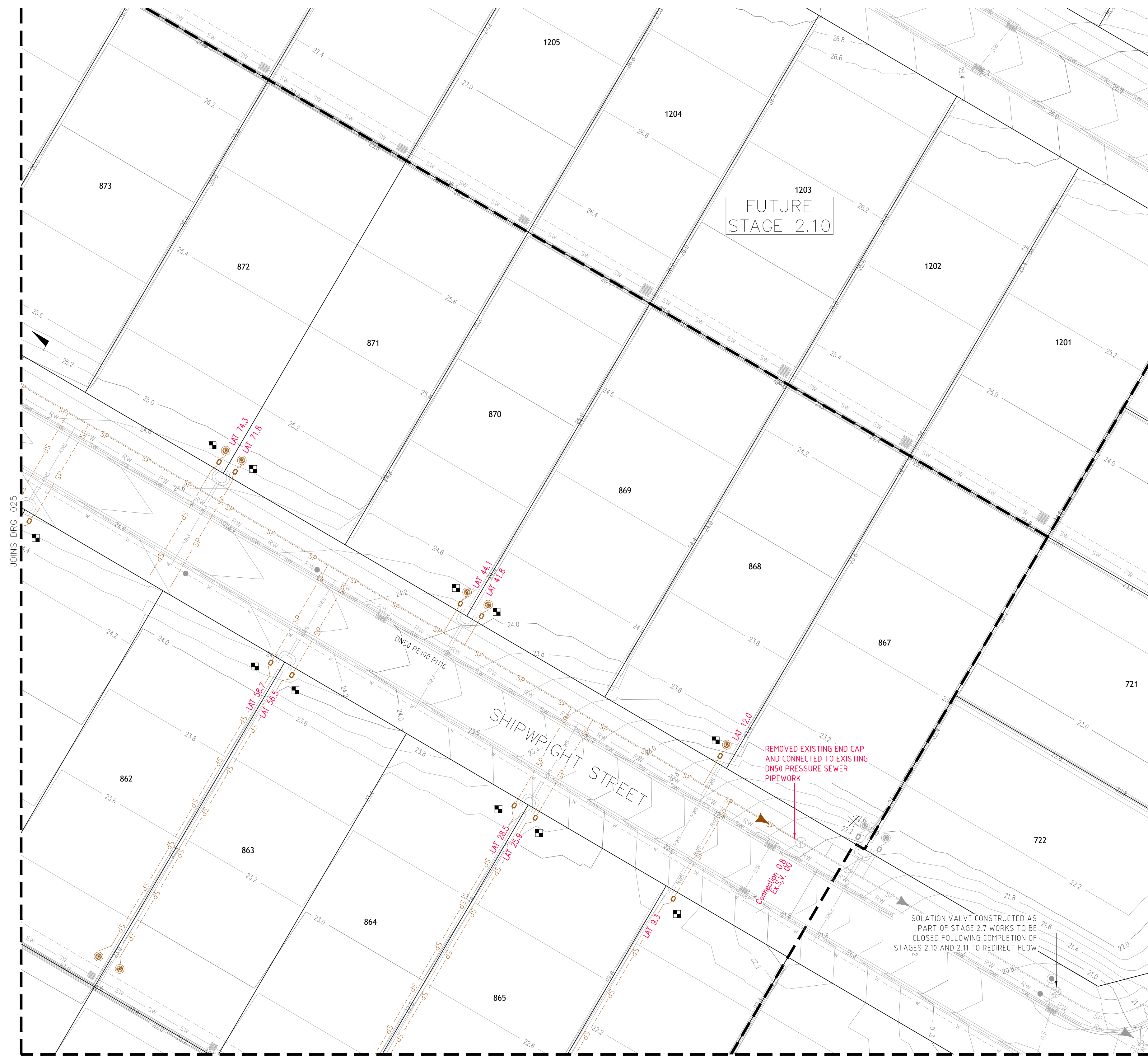
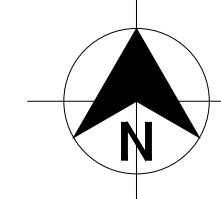
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FUTURE STAGE 2.10

- LEGEND**
- SP PE PRESSURE SEWER RETICULATION
 - W PVC-M POTABLE WATER RETICULATION
 - PWS POTABLE WATER PROPERTY SERVICE
 - RW PVC-M RECYCLED WATER RETICULATION
 - RWS RECYCLED WATER PROPERTY SERVICE
 - T TELSTRA
 - E UNDERGROUND POWER
 - S/W STORMWATER PIPEWORK
 - IV ISOLATION VALVE
 - FP FLUSHING POINT
 - WASTEWATER COLLECTION TANK AND BOUNDARY KIT
 - PRESSURE SEWER FLOW DIRECTION (SEE NOTE 8)
 - 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 49 CONNECTIONS
 • SINGLE SERVICES
 -16 x SHORT SIDE
 -33 x LONG SIDE

PRESSURE SEWER PIPE DATA		
PIPE SIZE (mm)	PIPE MATERIAL	TOTAL LENGTH (m)
DN63	PE100 PN16	153
DN50	PE100 PN16	561

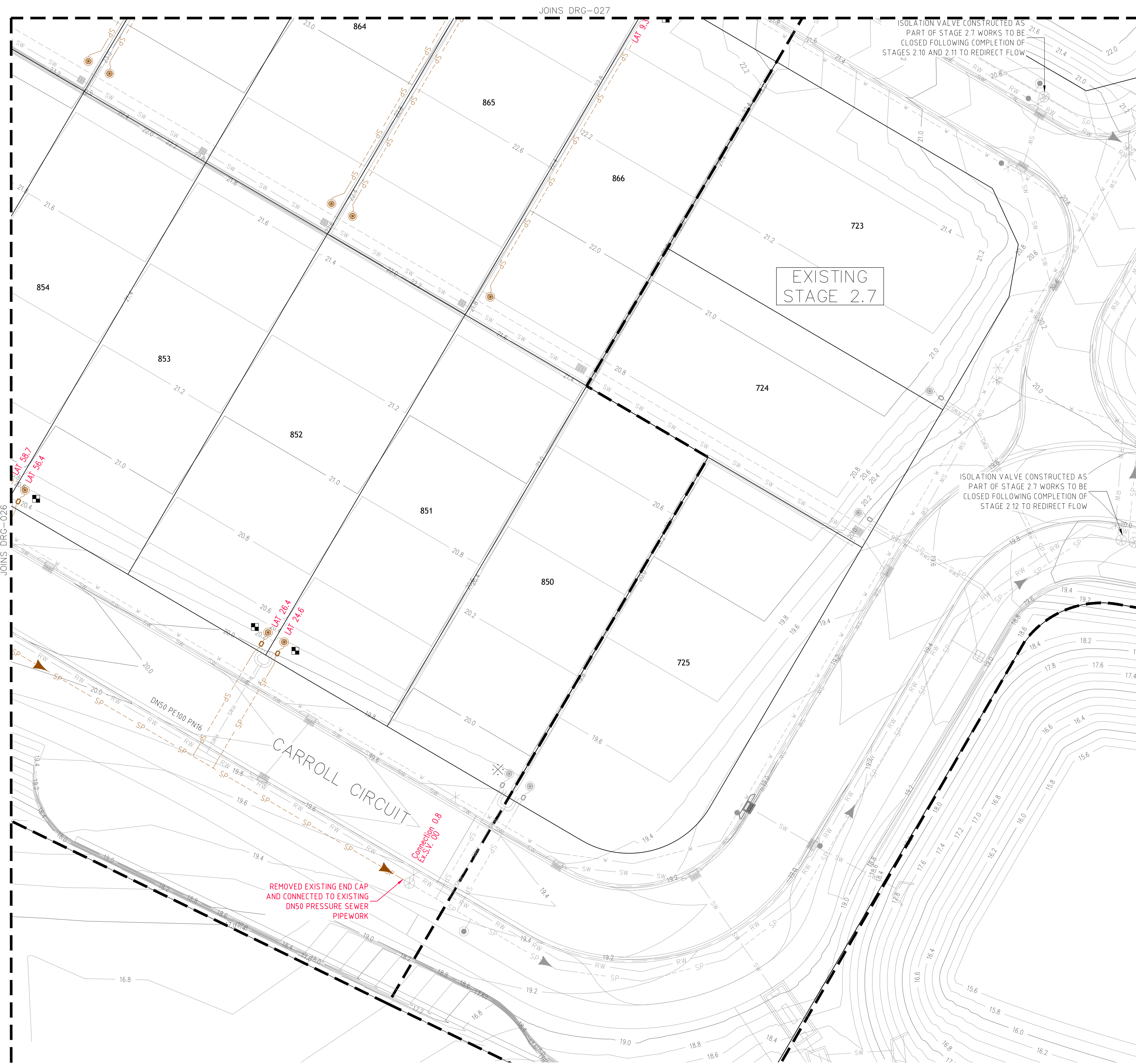
- NOTES:**
- FOR POTABLE WATER PIPEWORK DETAIL PLANS REFER TO DRGS-004 TO 010.
 - FOR RECYCLED WATER PIPEWORK DETAIL PLANS REFER TO DRGS-013 AND 019.
 - FOR TYPICAL SERVICE CONNECTION DETAILS REFER TO DRG-033.
 - FOR FLUSHING POINT TYPICAL DETAILS REFER TO STANDARD DRAWING PSS-1017-FS.
 - CONTRACTOR MAY BEND POLYETHYLENE PIPEWORK IN PLACE OF USING STANDARD FITTINGS WITH A MIN. BENDING RADIUS OF 20 x PIPE DIAM.
 - ALL BENDS SHALL BE ELECTROFUSION SWEEP BENDS (FABRICATED BENDS SHALL NOT BE USED).
 - DN280 AND DN250 PE PRESSURE SEWER MAIN TO BE LAID TO GRADE.
 - DIRECTION OF FLOW OF PRESSURE SEWER SHOWN ON THESE DRAWINGS IS TEMPORARY. FLOW ALONG SHIPWRIGHT STREET WILL BE REDIRECTED THROUGH STAGES 2.10, AND 2.11 AFTER CONSTRUCTION OF STAGES 2.10 AND 2.11 HAS BEEN COMPLETED. FLOW ALONG CARROLL CIRCUIT WILL BE REDIRECTED THROUGH STAGE 2.12 AFTER CONSTRUCTION OF STAGE 2.12 HAS BEEN COMPLETED.

PLAN SCALE 1:250

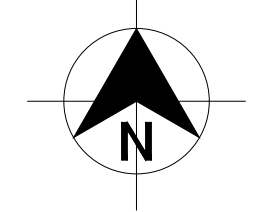
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PLAN
SCALE 1:250



LEGEND

SP	PE PRESSURE SEWER RETICULATION
W	PVC-M POTABLE WATER RETICULATION
PWS	POTABLE WATER PROPERTY SERVICE
RW	PVC-M RECYCLED WATER RETICULATION
RWS	RECYCLED WATER PROPERTY SERVICE
T	TELSTRA
E	UNDERGROUND POWER
S/W	STORMWATER PIPEWORK
IV	ISOLATION VALVE
FP	FLUSHING POINT
WWT	WASTEWATER COLLECTION TANK AND BOUNDARY KIT
PS	PRESSURE SEWER FLOW DIRECTION (SEE NOTE 8)
PC	PROPERTY SERVICE CONNECTION
PCX	EXISTING PROPERTY SERVICE CONNECTION
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■ PRESSURE SEWER PROPERTY SERVICE CONNECTIONS

TOTAL 49 CONNECTIONS

- SINGLE SERVICES
 - 16 x SHORT SIDE
 - 33 x LONG SIDE

PRESSURE SEWER PIPE DATA		
PIPE SIZE (mm)	PIPE MATERIAL	TOTAL LENGTH (m)
DN63	PE100 PN16	153
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DIAL 1100
BEFORE YOU DIG

100mm AT FULL SIZE

WORK-AS-CONSTRUCTED

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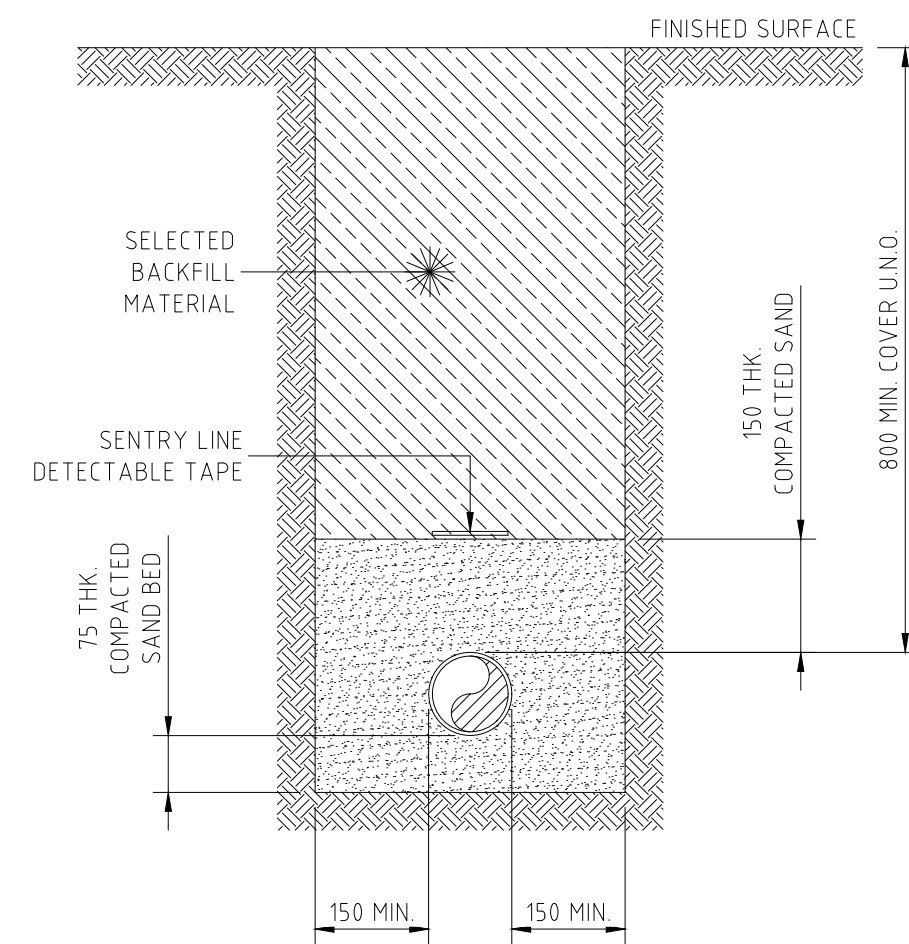
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BEFORE YOU DIG

100mm AT FULL SIZE

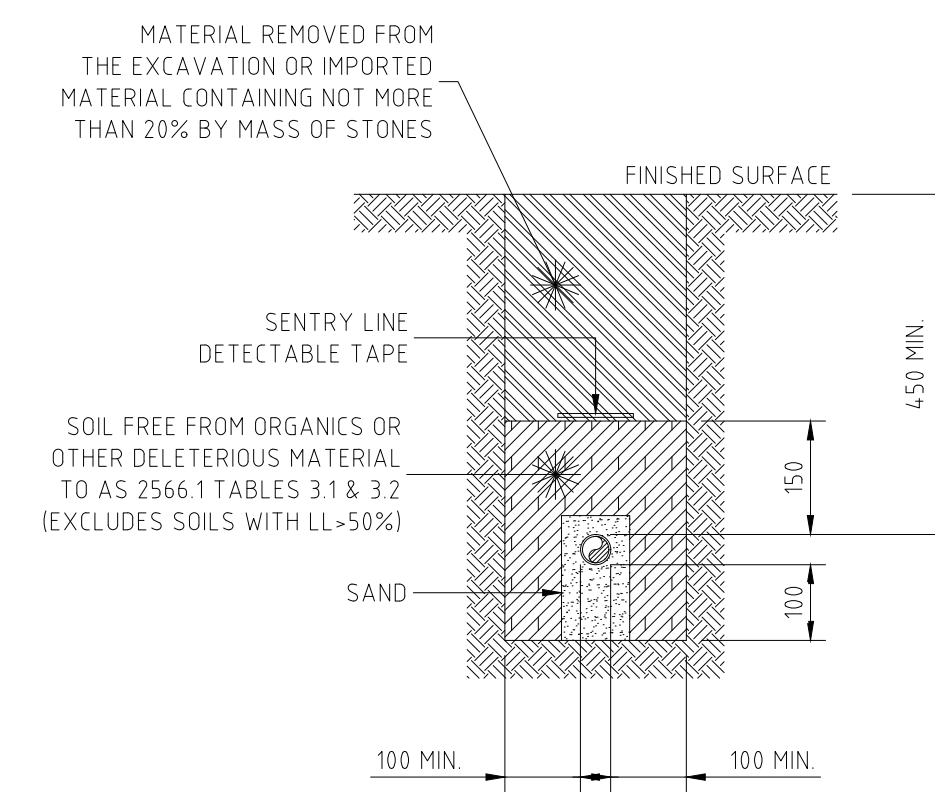
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0	09.12.2015	CONSTRUCTION ISSUE	J.N.	L.G.	J.N.	L.G.	
1	18.05.2016	AMENDED CONSTRUCTION ISSUE - SERVICES RELOCATED	J.N.	L.G.	J.N.	L.G.	
2	29.03.2018	AMENDED CONSTRUCTION ISSUE - SERVICES RELOCATED	J.N.	L.G.	J.N.	L.G.	
3	17.06.2019	AMENDED CONSTRUCTION ISSUE - TANK LEVELS UPDATED	J.N.	L.G.	J.N.	L.G.	
WAC	30.10.2019	WORK-AS-CONSTRUCTED	A.S.A.	V.V.			
WAC	21.11.2019	LOT NUMBERS UPDATED	D.S.				

		Hunter Office Unit 7/335 Hillsborough Rd Warners Bay N.S.W. 2282 Phone: (02) 4978 5100 Fax: (02) 4978 5199 email: hunter@adwjohanson.com.au www.adwjohanson.com.au ABN 62 129 445 398	CLIENT 	PROPERTY DESCRIPTION PROPOSED SUBDIVISION PRECINCT 2, STAGES 2.8 AND 2.9 WATAGAN PARK WHISTLER DRIVE, COORANBONG DA/307/2015	PROJECT POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION PLAN TITLE NOT USED
SURVEYED ADW Johnson	DATUM A.H.D.	PROJECT No. 239078(2.8 & 2.9)	DISCIPLINE - WAT -	NUMBER 030	REV. WAC



STREET PRESSURE MAIN
TYPICAL DETAIL
SCALE 1:10



PRIVATE PROPERTY PRESSURE MAIN
TYPICAL DETAIL
SCALE 1:10

NOTES:

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

WORK-AS-CONSTRUCTED

REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY	SCALES	CLIENT	PROPERTY DESCRIPTION	PROJECT	DISCIPLINE	NUMBER	REV.
A	20.11.2015	PRELIMINARY ISSUE	J.N.	L.G.	J.N.	L.G.		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	PROPOSED SUBDIVISION PRECINCT 2, STAGES 2.8 AND 2.9 WATAGAN PARK WHISTLER DRIVE, COORANBONG DA/307/2015	POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION		239078(2.8 & 2.9) - WAT - 031	WAC
B	07.12.2015	AMENDED ISSUE - FLOW SYSTEMS COMMENTS	J.N.	L.G.	J.N.	L.G.				JOHNSON PROPERTY GROUP	TYPICAL PIPEWORK TRENCHING DETAILS		
0	09.12.2015	CONSTRUCTION ISSUE	J.N.	L.G.	J.N.	L.G.							
1	18.05.2016	AMENDED CONSTRUCTION ISSUE - SERVICES RELOCATED	J.N.	L.G.	J.N.	L.G.							
2	29.03.2018	AMENDED CONSTRUCTION ISSUE - SERVICES RELOCATED	J.N.	L.G.	J.N.	L.G.							
3	17.06.2019	AMENDED CONSTRUCTION ISSUE - TANK LEVELS UPDATED	J.N.	L.G.	J.N.	L.G.							
WAC	30.10.2019	WORK-AS-CONSTRUCTED	A.S.A.	V.V.									
WAC	21.11.2019	LOT NUMBERS UPDATED	D.S.										



CLIENT



SURVEYED

DATUM

PROJECT No.

DISCIPLINE

NUMBER

REV.

ADW Johnson

A.H.D.

239078(2.8 & 2.9) - WAT - 031



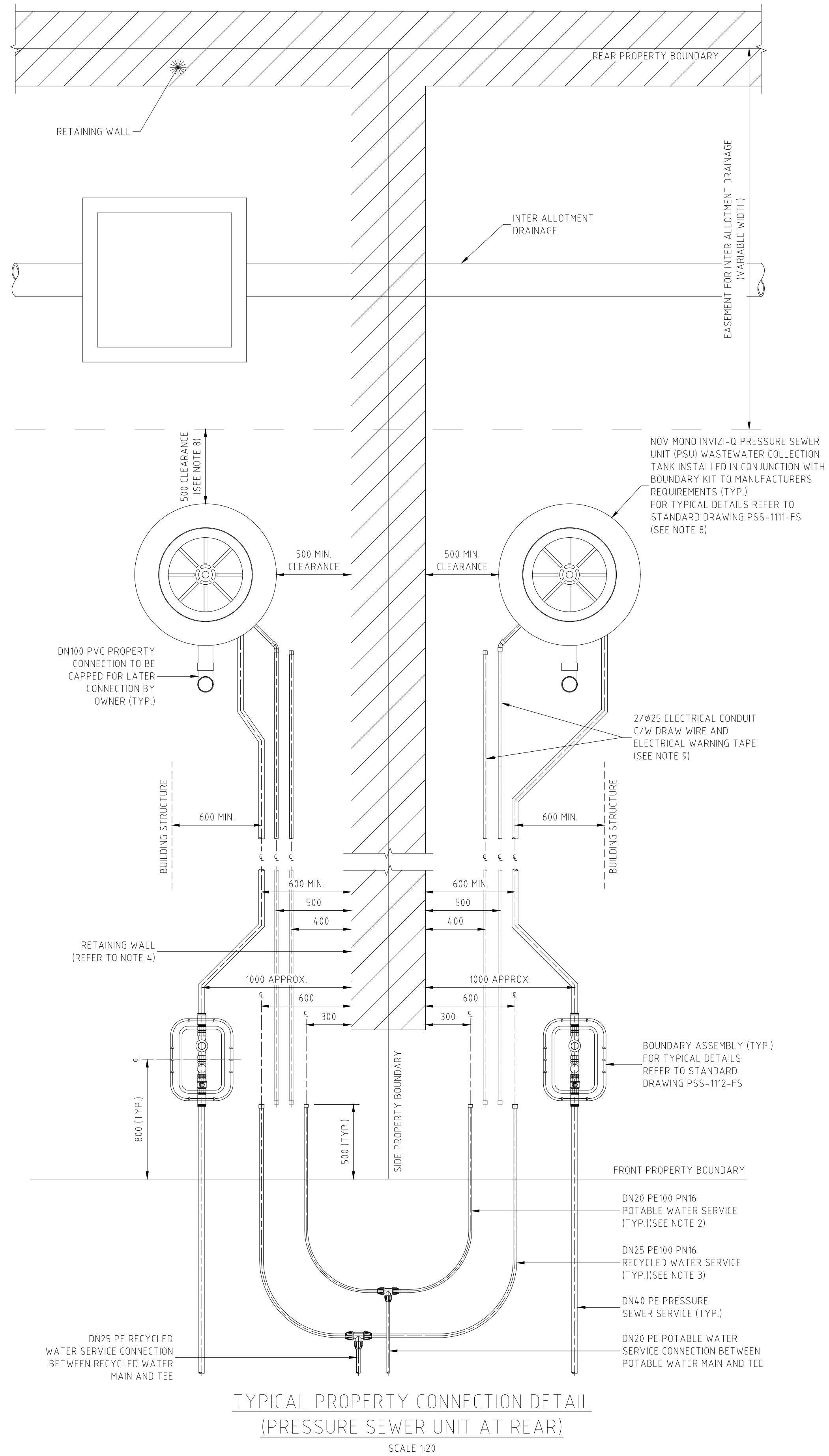
DIAL 1100
BEFORE YOU DIG

100mm AT FULL SIZE

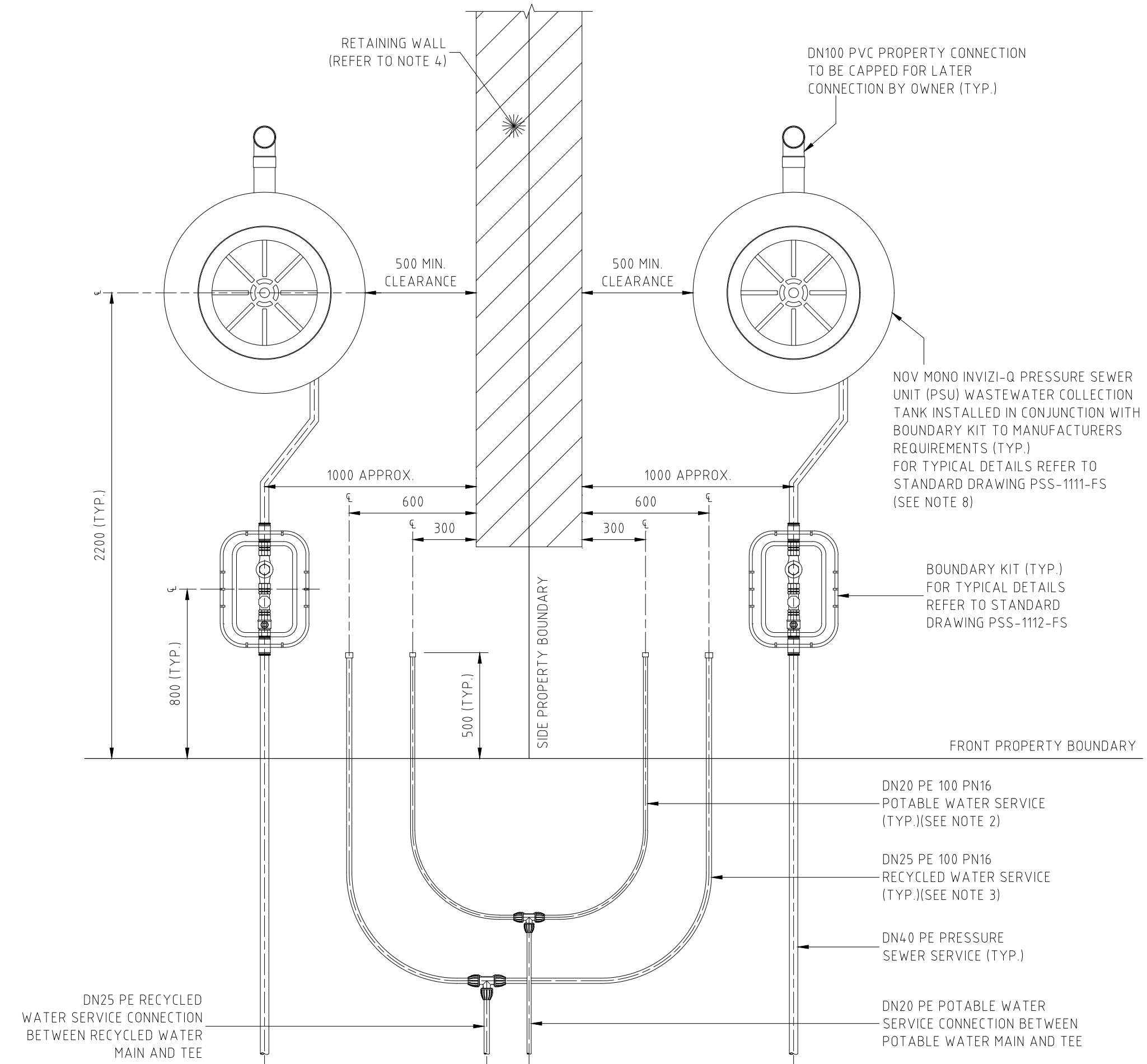
WORK-AS-CONSTRUCTED

REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY	SCALES
A	20.11.2015	PRELIMINARY ISSUE	J.N.	L.G.	J.N.	L.G.	
B	07.12.2015	AMENDED ISSUE - FLOW SYSTEMS COMMENTS	J.N.	L.G.	J.N.	L.G.	
0	09.12.2015	CONSTRUCTION ISSUE	J.N.	L.G.	J.N.	L.G.	
1	18.05.2016	AMENDED CONSTRUCTION ISSUE - SERVICES RELOCATED	J.N.	L.G.	J.N.	L.G.	
2	29.03.2018	AMENDED CONSTRUCTION ISSUE - SERVICES RELOCATED	J.N.	L.G.	J.N.	L.G.	
3	17.06.2019	AMENDED CONSTRUCTION ISSUE - TANK LEVELS UPDATED	J.N.	L.G.	J.N.	L.G.	
WAC	30.10.2019	WORK-AS-CONSTRUCTED	A.S.A.	V.V.			
WAC	21.11.2019	LOT NUMBERS UPDATED	D.S.				

		Hunter Office Unit 7/335 Hillsborough Rd Warners Bay N.S.W. 2282 Phone: (02) 4978 5100 Fax: (02) 4978 5199 email: hunter@adwjohanson.com.au www.adwjohanson.com.au ABN 62 129 445 398	CLIENT 	PROPERTY DESCRIPTION PROPOSED SUBDIVISION PRECINCT 2, STAGES 2.8 AND 2.9 WATAGAN PARK WHISTLER DRIVE, COORANBONG DA/307/2015	PROJECT POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION PLAN TITLE NOT USED								
DESIGN FILE N:\	ALL DIMENSIONS ARE IN METRES. DO NOT SCALE		SURVEYED ADW Johnson	DATUM A.H.D.	<table border="1"> <tr> <td>PROJECT No.</td> <td>DISCIPLINE</td> <td>NUMBER</td> <td>REV.</td> </tr> <tr> <td>239078(2.8 & 2.9)</td> <td>- WAT -</td> <td>032</td> <td>WAC</td> </tr> </table>	PROJECT No.	DISCIPLINE	NUMBER	REV.	239078(2.8 & 2.9)	- WAT -	032	WAC
PROJECT No.	DISCIPLINE	NUMBER	REV.										
239078(2.8 & 2.9)	- WAT -	032	WAC										



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



TYPICAL PROPERTY CONNECTION DETAIL
SCALE 1:20

NOTES:

- PROPERTY SERVICE CONNECTIONS SHALL BE IN ACCORDANCE WITH WSA STANDARD DRAWINGS FOR DUAL WATER SUPPLY SYSTEMS (SYDNEY WATER VERSION) (SUPPLEMENT TO WSA 03-2011).
- DN20 PE100 PN16 POTABLE WATER SERVICE TO EXTEND 500mm BEYOND PROPERTY BOUNDARY AND BE CAPPED FOR LATER CONNECTION BY PROPERTY OWNER.
- DN25 PE100 PN16 RECYCLED WATER SERVICE TO EXTEND 500mm BEYOND PROPERTY BOUNDARY AND BE CAPPED FOR LATER CONNECTION BY PROPERTY OWNER.
- FOR PROPERTY CONNECTIONS WHERE A RETAINING WALL IS NOT PRESENT, SERVICES ARE TO BE OFFSET FROM THE PROPERTY BOUNDARY.
- WHERE SERVICE CONNECTIONS ARE LOCATED ADJACENT TO TELSTRA PITS/ELECTRICAL PILLARS, A MINIMUM CLEARANCE OF 200mm BETWEEN PITS AND SERVICE PIPEWORK IS TO BE MAINTAINED.
- MINIMUM BENDING RADIUS FOR PE PIPEWORK IS TO BE 20 x PIPE DIAMETER.
- ALL POLYETHYLENE FITTINGS SHALL BE JOINED USING ELECTROFUSION JOINTING TECHNIQUES IN ACCORDANCE WITH MANUFACTURERS REQUIREMENTS. ROTATE BENDS AS NECESSARY.
- PRESSURE SEWER UNIT (PSU) IS TO HAVE 500mm CLEARANCE FROM INTER ALLOTMENT DRAINAGE EASEMENT (IF PRESENT), REAR PROPERTY BOUNDARY RETAINING WALL (IF PRESENT) OR REAR PROPERTY BOUNDARY. PRESSURE SEWER UNIT (PSU) IS TO HAVE 2150mm CLEARANCE FROM BUILDING STRUCTURES.
- ø25 ELECTRICAL CONDUIT IS TO EXTEND FROM CONNECTION WITH PRESSURE SEWER UNIT (PSU) TO NOM. 500mm INSIDE FRONT PROPERTY BOUNDARY AND BE CAPPED. ELECTRICAL CONDUIT IS TO BE HEAVY DUTY ORANGE. ALL CONDUIT BENDS ARE TO BE LARGE RADIUS SWEEP BENDS.
- FOR MORE INFORMATION REFER TO FLOW SYSTEMS STANDARD DRAWING FSI-1000-FS.
- FOR ALTERNATE TANK AND BOUNDARY CONFIGURATIONS, AND DETAILS FOR TANKS INSTALLED ON PROPERTIES WITH BATTERS AND RETAINING WALLS, REFER TO FLOW SYSTEMS STANDARD DRAWINGS FSI-SK03A-FS AND FSI-SK03B-FS.

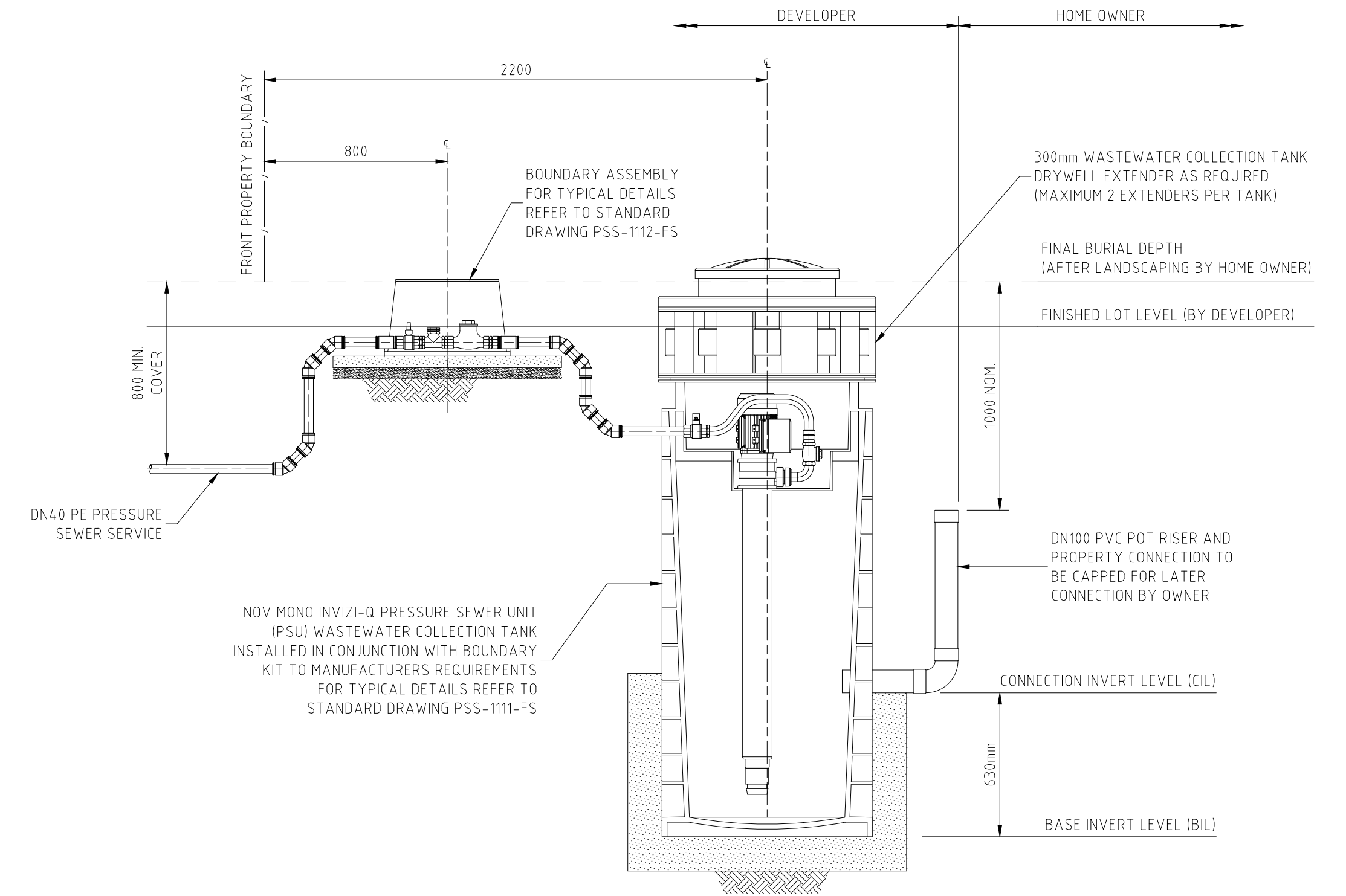
WORK-AS-CONSTRUCTED

REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY	SCALES	CLIENT	PROPERTY DESCRIPTION	PROJECT	PLAN TITLE	PROJECT No.	DISCIPLINE	NUMBER	REV.
A	20.11.2015	PRELIMINARY ISSUE	J.N.	L.G.	J.N.	L.G.	0 0.1 0.2 0.3 0.4 A1 / A3	Hunter Office	PROPOSED SUBDIVISION	POTABLE WATER, RECYCLED WATER AND		239078(2.8 & 2.9)	WAT	033	WAC
B	07.12.2015	AMENDED ISSUE - FLOW SYSTEMS COMMENTS	J.N.	L.G.	J.N.	L.G.	1:10 / 1:20	Unit 7/335 Hillsborough Rd	PRECINCT 2, STAGES 2.8 AND 2.9 WATAGAN PARK	PRESSURE SEWER RETICULATION					
0	09.12.2015	CONSTRUCTION ISSUE	J.N.	L.G.	J.N.	L.G.	0 0.4 0.8 A1 / A3	Warners Bay N.S.W. 2282	WHISTLER DRIVE, COORANBONG		TYPICAL SERVICE CONNECTION DETAILS				
1	18.05.2016	AMENDED CONSTRUCTION ISSUE - SERVICES RELOCATED	J.N.	L.G.	J.N.	L.G.	1:20 / 1:40	Phone: (02) 4978 5100	DA/307/2015						
2	29.03.2018	AMENDED CONSTRUCTION ISSUE - SERVICES RELOCATED	J.N.	L.G.	J.N.	L.G.		Fax: (02) 4978 5199							
3	17.06.2019	AMENDED CONSTRUCTION ISSUE - TANK LEVELS UPDATED	J.N.	L.G.	J.N.	L.G.		email: hunter@adwjohanson.com.au							
WAC	30.10.2019	WORK-AS-CONSTRUCTED	J.N.	L.G.	J.N.	L.G.		www.adwjohanson.com.au							
WAC	21.11.2019	LOT NUMBERS UPDATED	A.S.A.	V.V.				ABN 62 129 445 398							
DESIGN FILE: N:\								ALL DIMENSIONS ARE IN METRES. DO NOT SCALE							



PRESSURE SEWER COLLECTION TANK LEVEL DETAILS									
WATAGAN PARK DEVELOPMENT - STAGE 2.8 & 2.9									
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]
850 (1101)									
851 (1102)	FRONT BATTER	900L	20.18		18.05	18.68	20.32	18.70	0.02
852 (1103)	FRONT BATTER	900L	20.29		18.16	18.79	20.45	18.83	0.04
853 (1104)	FRONT BATTER	900L	20.57		18.44	19.07	20.75	19.13	0.06
854 (1105)	FRONT BATTER	900L	20.67		18.54	19.17	20.84	19.22	0.05
855 (1106)	FRONT BATTER	900L	20.94		18.81	19.44	21.08	19.46	0.02
856 (1107)	FRONT BATTER	900L	21.05		18.92	19.55	21.21	19.59	0.04
857 (1108)	FRONT BATTER	900L	21.25		19.12	19.75	21.45	19.83	0.08
858 (1109)	FRONT BATTER	900L	21.35		19.22	19.85	21.50	19.88	0.03
859 (1116)	REAR	900L	23.90		21.77	22.40	24.01	22.39	-0.01
860 (1117)	REAR	900L	23.79		21.66	22.29	24.02	22.40	0.11
861 (1118)	REAR	900L	23.59		21.46	22.09	23.80	22.18	0.09
862 (1119)	REAR	900L	23.30		21.17	21.80	23.54	21.92	0.12
863 (1120)	REAR	900L	22.89		20.76	21.39	23.15	21.53	0.14
864 (1121)	REAR	900L	22.70		20.57	21.20	22.98	21.36	0.16
865 (1122)	REAR	900L	22.30		20.17	20.80	22.57	20.95	0.15
866 (1123)	REAR	900L	21.80		19.67	20.30	22.12	20.50	0.20
867 (1124)									
868 (1125)	FRONT BATTER	900L	23.15		21.02	21.65	23.42	21.80	0.15
869 (1126)	FRONT FLAT	900L	24.06		21.93	22.56	24.41	22.79	0.23
870 (1127)	FRONT BATTER	900L	24.32		22.19	22.82	24.68	23.06	0.24
871 (1128)	FRONT BATTER	900L	24.87		22.74	23.37	25.18	23.56	0.19
872 (1129)	FRONT BATTER	900L	24.89		22.76	23.39	25.19	23.57	0.18
873 (1130)	FRONT BATTER	900L	25.40		23.27	23.90	25.58	23.96	0.06
874 (1131)	FRONT BATTER	900L	25.49		23.36	23.99	25.76	24.14	0.15
955 (1110)	FRONT BATTER	900L	21.62		19.49	20.12	21.82	20.20	0.08
956 (1111)	FRONT BATTER	900L	21.72		19.59	20.22	21.87	20.25	0.03
957 (1112)	FRONT BATTER	900L	21.93		19.80	20.43	22.09	20.47	0.04
958 (1113)	FRONT BATTER	900L	23.60		21.47	22.10	23.85	22.23	0.13
959 (1114)	FRONT BATTER	900L	24.53		22.40	23.03	24.87	23.25	0.22
960 (1115)	REAR	900L	24.09		21.96	22.59	24.23	22.61	0.02
961 (1132)	FRONT BATTER	900L	25.66		23.53	24.16	25.92	24.30	0.14
962 (1133)	FRONT BATTER	900L	25.67		23.54	24.17	25.94	24.32	0.15
963 (1134)	FRONT FLAT	900L	27.26		25.13	25.76	27.46	25.84	0.08
964 (1135)	FRONT FLAT	900L	27.81	1	25.38	26.01	28.28	26.36	0.35
965 (1136)	FRONT BATTER	900L	27.31	2	24.58	25.21	27.63	25.41	0.20
966 (1137)	FRONT FLAT	900L	26.38	1	23.95	24.58	26.68	24.76	0.18
967 (1138)	FRONT BATTER	900L	25.86	2	23.13	23.76	26.09	23.87	0.11
968 (1139)	FRONT FLAT	900L	24.40	1	21.97	22.60	24.68	22.76	0.16
969 (1140)	FRONT FLAT	900L	24.16	2	21.43	22.06	24.39	22.17	0.11
970 (1141)	FRONT BATTER	900L	22.04		19.91	20.54	22.33	20.71	0.17
971 (1142)	FRONT BATTER	900L	22.12		19.99	20.62	22.38	20.76	0.14
972 (1143)	FRONT BATTER	900L	21.76		19.63	20.26	21.96	20.34	0.08
973 (1144)	FRONT BATTER	900L	21.53		19.40	20.03	21.86	20.24	0.21
974 (1145)	FRONT BATTER	900L	22.56		20.43	21.06	22.85	21.23	0.17
975 (1146)	FRONT BATTER	900L	22.84		20.71	21.34	23.18	21.56	0.22
976 (1147)	FRONT BATTER	900L	23.84		21.72	22.35	24.16	22.54	0.19
977 (1148)	FRONT BATTER	900L	24.34		22.84	23.47	24.65	23.03	0.19
978 (1149)	FRONT BATTER	900L	25.36		23.23	23.86	25.59	23.97	0.11
979 (1150)	FRONT BATTER	900L	25.83		23.70	24.33	26.16	24.54	0.21

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

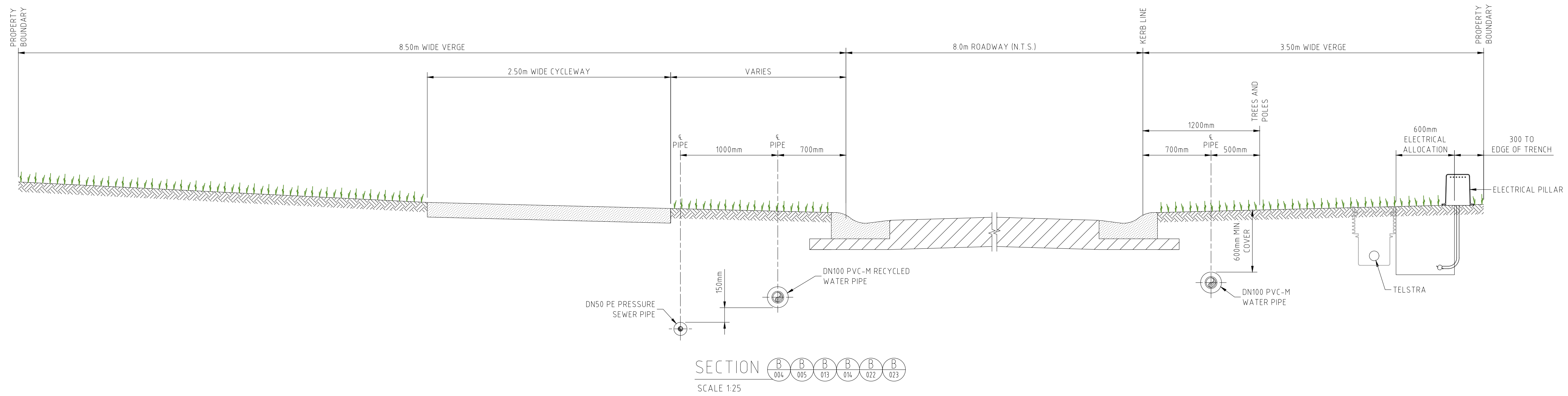
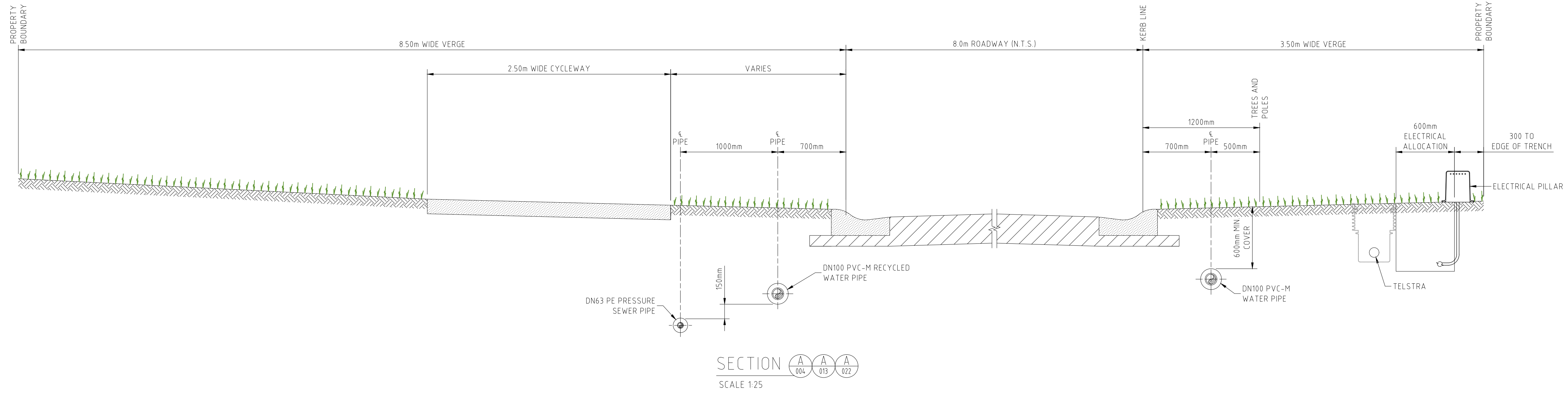


PRESSURE SEWER SERVICE CONNECTION
TYPICAL SECTIONAL ELEVATION
SCALE 1:20
(SHOWN AS FRONT OF LOT SERVICE CONNECTION WITH 1 DRYWELL EXTENDER)

- NOTE:
- 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

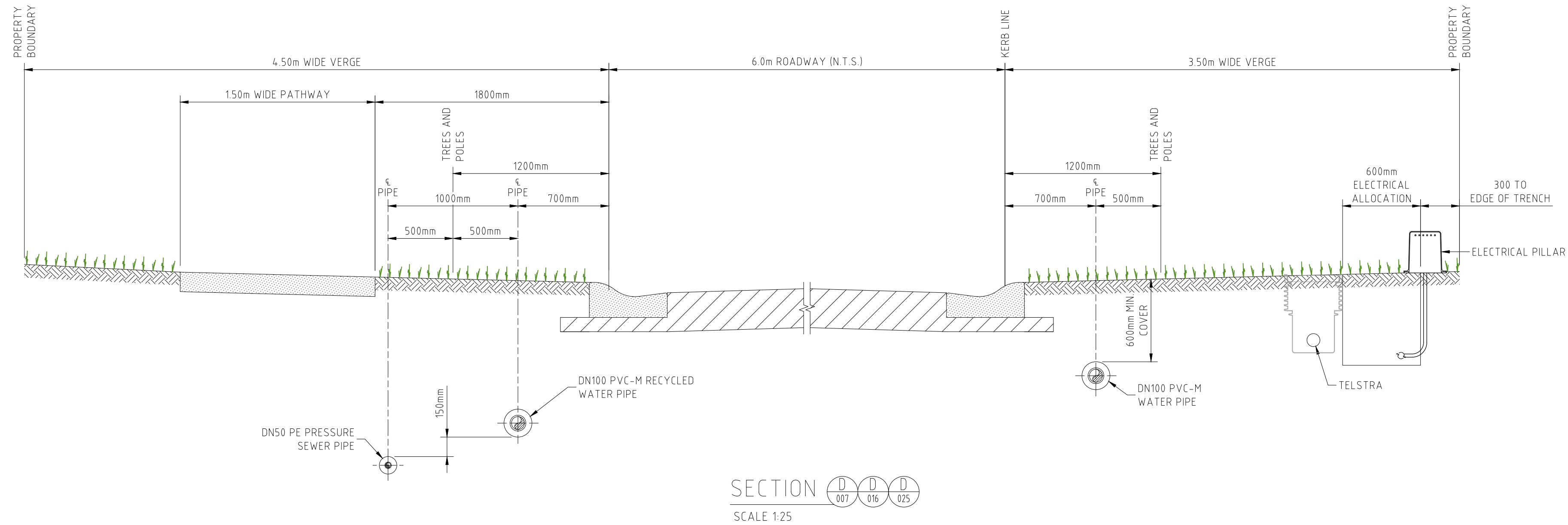
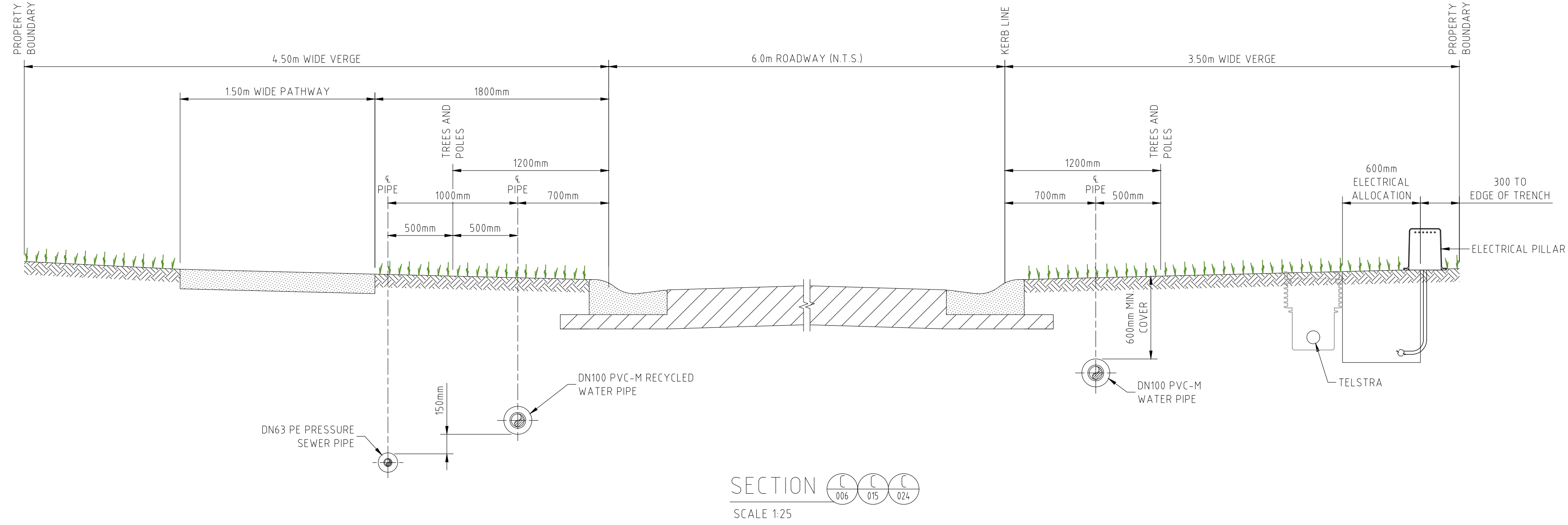
REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY	SCALES		Hunter Office Unit 7/335 Hillsborough Rd Warners Bay N.S.W. 2282 Phone: (02) 4978 5100 Fax: (02) 4978 5199 email: hunter@adwjohnson.com.au www.adwjohnson.com.au ABN 62 129 445 398		PROPERTY DESCRIPTION	PROJECT	PLAN TITLE	PROJECT No.	DISCIPLINE	NUMBER	REV.
A	20.11.2015	PRELIMINARY ISSUE	J.N.	L.G.	J.N.	L.G.					PROPOSED SUBDIVISION	POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION	WASTEWATER COLLECTION TANK LEVEL DETAILS	239078(2.8 & 2.9)	- WAT -	034	WAC
B	07.12.2015	AMENDED ISSUE - FLOW SYSTEMS COMMENTS	J.N.	L.G.	J.N.	L.G.											
0	09.12.2015	CONSTRUCTION ISSUE	J.N.	L.G.	J.N.	L.G.											
1	18.05.2016	AMENDED CONSTRUCTION ISSUE - SERVICES RELOCATED	J.N.	L.G.	J.N.	L.G.											
2	29.03.2018	AMENDED CONSTRUCTION ISSUE - SERVICES RELOCATED	J.N.	L.G.	J.N.	L.G.											
3	17.06.2019	AMENDED CONSTRUCTION ISSUE - TANK LEVELS UPDATED	J.N.	L.G.	J.N.	L.G.											
WAC	30.10.2019	WORK-AS-CONSTRUCTED	J.N.	L.G.	J.N.	L.G.											
WAC	21.11.2019	LOT NUMBERS UPDATED	A.S.A.	D.S.	V.V.												



NOTE:
 1. FOR MINIMUM VERTICAL AND HORIZONTAL CLEARANCES REFER TO WATER SUPPLY CODE OF AUSTRALIA WSA 03-2011-3.1. (SYDNEY WATER EDITION 2012).

WORK-AS-CONSTRUCTED

REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY	SCALES			Hunter Office Unit 7/335 Hillsborough Rd Warners Bay N.S.W. 2282 Phone: (02) 4978 5100 Fax: (02) 4978 5199 email: hunter@adwjohnson.com.au www.adwjohnson.com.au ABN 62 129 445 398	CLIENT		PROPERTY DESCRIPTION PROPOSED SUBDIVISION PRECINCT 2, STAGES 2.8 AND 2.9 WATAGAN PARK WHISTLER DRIVE, COORANBONG DA/307/2015	PROJECT	POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION					
														PLAN TITLE	ROAD CROSS SECTIONS - SHEET 1					
DESIGN FILE N:\													PROJECT No.	239078(2.8 & 2.9) - WAT - 035	DISCIPLINE	WAT	NUMBER	035	REV.	WAC



NOTE:
 1. FOR MINIMUM VERTICAL AND HORIZONTAL CLEARANCES REFER TO WATER SUPPLY CODE OF AUSTRALIA WSA 03-2011-3.1. (SYDNEY WATER EDITION 2012).

WORK-AS-CONSTRUCTED

100mm AT FULL SIZE

REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY
A	20.11.2015	PRELIMINARY ISSUE	J.N.	L.G.	J.N.	L.G.
B	07.12.2015	AMENDED ISSUE - FLOW SYSTEMS COMMENTS	J.N.	L.G.	J.N.	L.G.
0	09.12.2015	CONSTRUCTION ISSUE	J.N.	L.G.	J.N.	L.G.
1	18.05.2016	AMENDED CONSTRUCTION ISSUE - SERVICES RELOCATED	J.N.	L.G.	J.N.	L.G.
2	29.03.2018	AMENDED CONSTRUCTION ISSUE - SERVICES RELOCATED	J.N.	L.G.	J.N.	L.G.
3	17.06.2019	AMENDED CONSTRUCTION ISSUE - TANK LEVELS UPDATED	J.N.	L.G.	J.N.	L.G.
WAC	30.10.2019	WORK-AS-CONSTRUCTED	A.S.A.	V.V.		
WAC	21.11.2019	LOT NUMBERS UPDATED	D.S.			

SCALES
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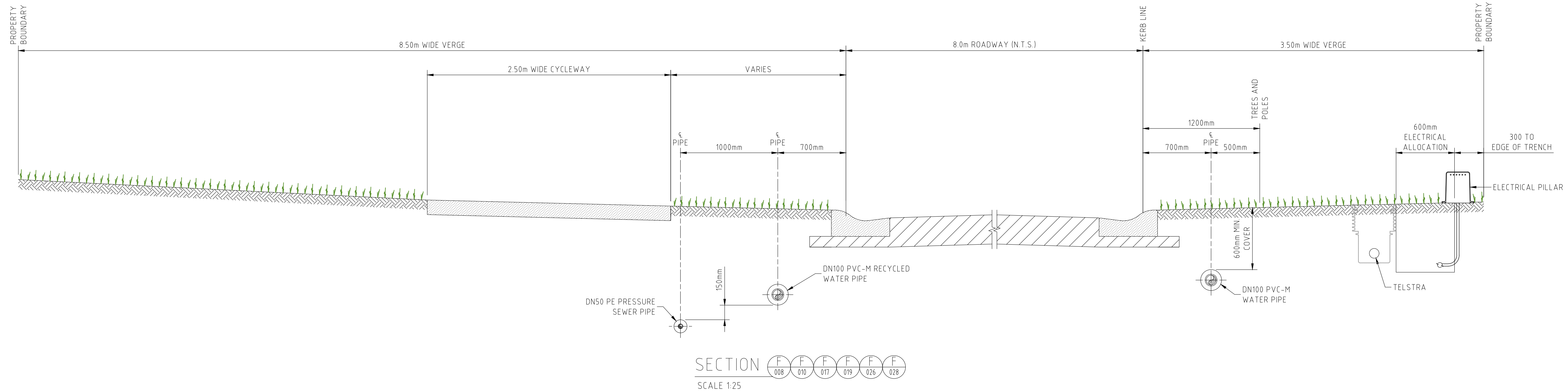
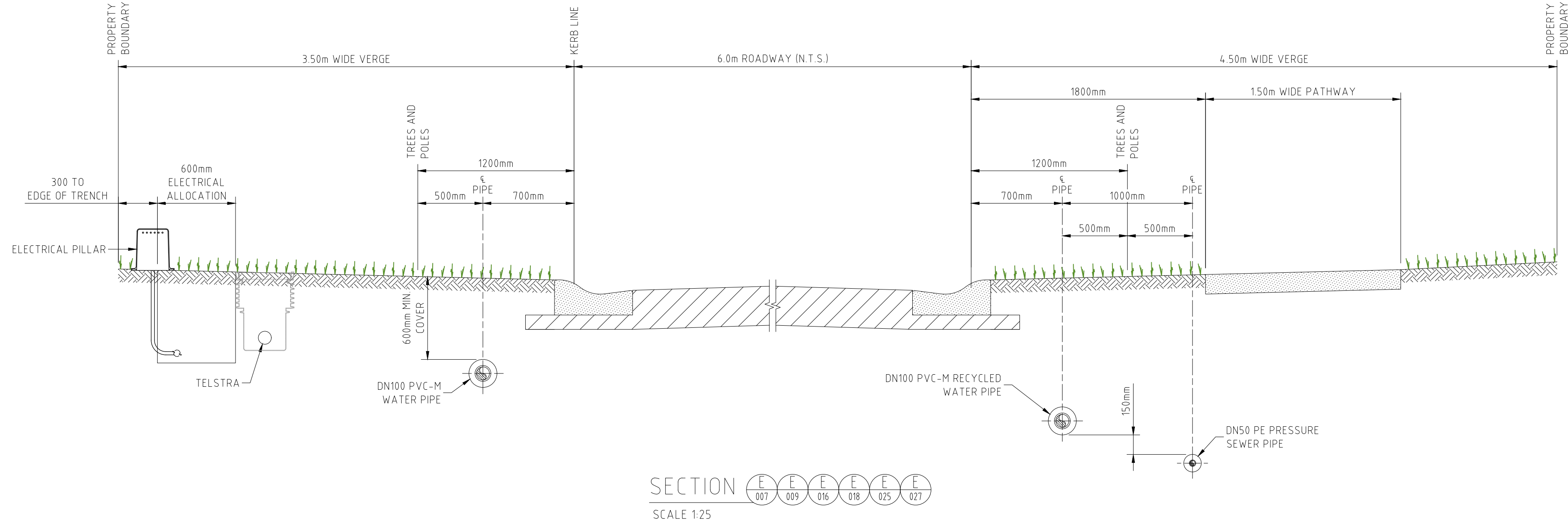
ALL DIMENSIONS ARE IN METRES. DO NOT SCALE

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

JOHNSON PROPERTY GROUP

CLIENT
 PROPERTY DESCRIPTION
 PROPOSED SUBDIVISION
 PRECINCT 2, STAGES 2.8 AND 2.9 WATAGAN PARK
 WHISTLER DRIVE, COORANBONG
 DA/307/2015

PROJECT	POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION		
PLAN TITLE	ROAD CROSS SECTIONS - SHEET 2		
PROJECT No.	DISCIPLINE	NUMBER	REV.
239078(2.8 & 2.9)	- WAT -	036	WAC



NOTE:
1. FOR MINIMUM VERTICAL AND HORIZONTAL CLEARANCES REFER TO WATER SUPPLY CODE OF AUSTRALIA WSA 03-2011-3.1. (SYDNEY WATER EDITION 2012).

WORK-AS-CONSTRUCTED

REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY	SCALES	<p>Hunter Office Unit 7/335 Hillsborough Rd Warners Bay N.S.W. 2282 Phone: (02) 4978 5100 Fax: (02) 4978 5199 email: hunter@adwjohnson.com.au www.adwjohnson.com.au ABN 62 129 445 398</p>		<p>PROPERTY DESCRIPTION PROPOSED SUBDIVISION PRECINCT 2, STAGES 2.8 AND 2.9 WATAGAN PARK WHISTLER DRIVE, COORANBONG DA/307/2015</p>	PROJECT	POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION		
A	20.11.2015	PRELIMINARY ISSUE	J.N.	L.G.	J.N.	L.G.	 A1 / A3 1:25 / 1:50				PLAN TITLE	ROAD CROSS SECTIONS - SHEET 3		
B	07.12.2015	AMENDED ISSUE - FLOW SYSTEMS COMMENTS	J.N.	L.G.	J.N.	L.G.		<p>DESIGN FILE: N:\</p>	PROJECT No.		DISCIPLINE	NUMBER	REV.	
0	09.12.2015	CONSTRUCTION ISSUE	J.N.	L.G.	J.N.	L.G.	ADW Johnson		A.H.D.	239078(2.8 & 2.9) - WAT -	037	WAC		
1	18.05.2016	AMENDED CONSTRUCTION ISSUE - SERVICES RELOCATED	J.N.	L.G.	J.N.	L.G.								
2	29.03.2018	AMENDED CONSTRUCTION ISSUE - SERVICES RELOCATED	J.N.	L.G.	J.N.	L.G.								
3	17.06.2019	AMENDED CONSTRUCTION ISSUE - TANK LEVELS UPDATED	J.N.	L.G.	J.N.	L.G.								
WAC	30.10.2019	WORK-AS-CONSTRUCTED	J.N.	L.G.	J.N.	L.G.								
WAC	21.11.2019	LOT NUMBERS UPDATED	A.S.A. D.S.	V.V.										



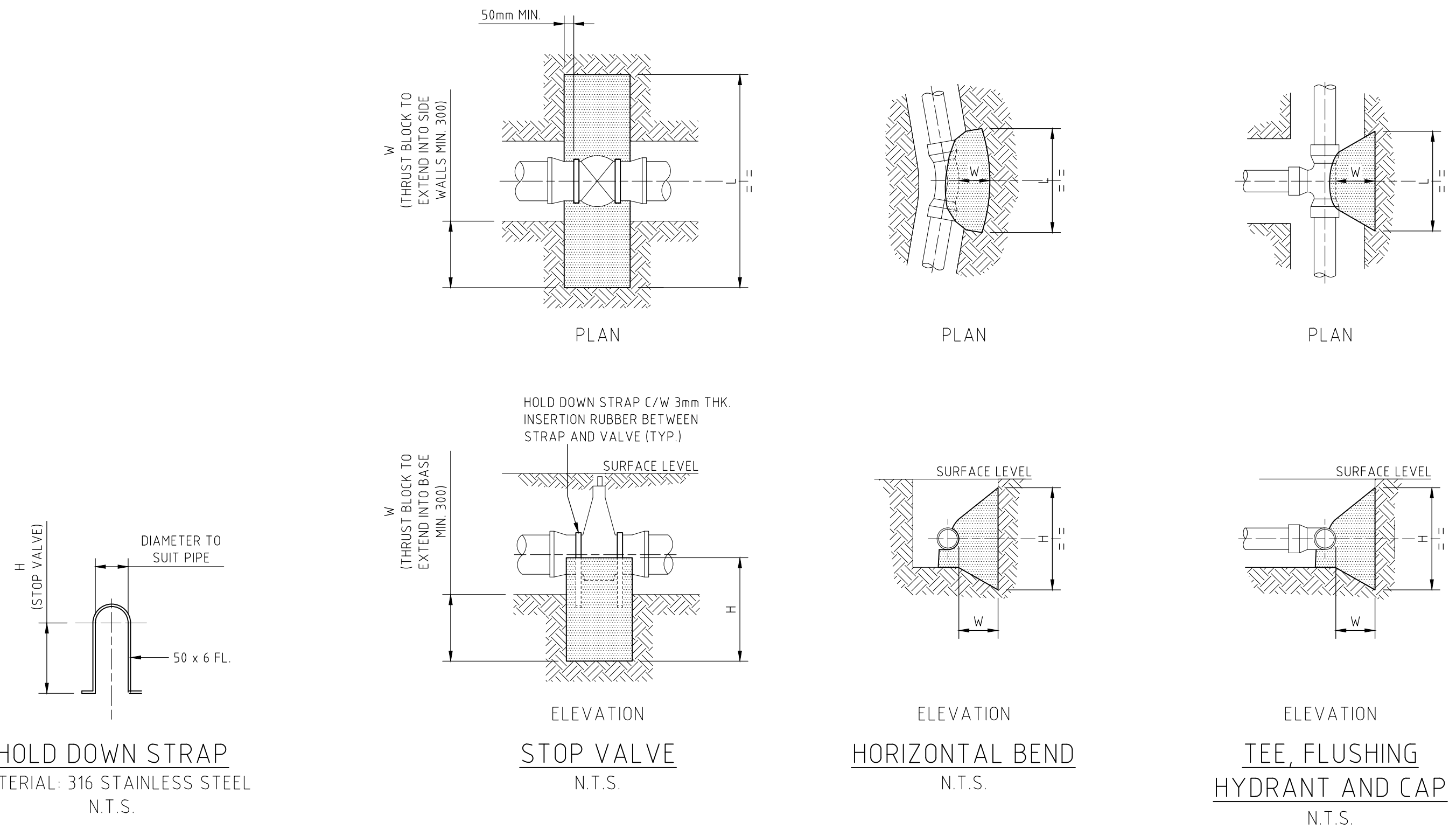
DIAL 1100
BEFORE YOU DIG

100mm AT FULL SIZE

WORK-AS-CONSTRUCTED

REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY	SCALES
A	20.11.2015	PRELIMINARY ISSUE	J.N.	L.G.	J.N.	L.G.	
B	07.12.2015	AMENDED ISSUE - FLOW SYSTEMS COMMENTS	J.N.	L.G.	J.N.	L.G.	
0	09.12.2015	CONSTRUCTION ISSUE	J.N.	L.G.	J.N.	L.G.	
1	18.05.2016	AMENDED CONSTRUCTION ISSUE - SERVICES RELOCATED	J.N.	L.G.	J.N.	L.G.	
2	29.03.2018	AMENDED CONSTRUCTION ISSUE - SERVICES RELOCATED	J.N.	L.G.	J.N.	L.G.	
3	17.06.2019	AMENDED CONSTRUCTION ISSUE - TANK LEVELS UPDATED	J.N.	L.G.	J.N.	L.G.	
WAC	30.10.2019	WORK-AS-CONSTRUCTED	A.S.A.	V.V.			
WAC	21.11.2019	LOT NUMBERS UPDATED	D.S.				

		Hunter Office Unit 7/335 Hillsborough Rd Warners Bay N.S.W. 2282 Phone: (02) 4978 5100 Fax: (02) 4978 5199 email: hunter@adwjohanson.com.au www.adwjohanson.com.au ABN 62 129 445 398	CLIENT 	PROPERTY DESCRIPTION PROPOSED SUBDIVISION PRECINCT 2, STAGES 2.8 AND 2.9 WATAGAN PARK WHISTLER DRIVE, COORANBONG DA/307/2015	PROJECT POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION PLAN TITLE NOT USED
SURVEYED ADW Johnson	DATUM A.H.D.	PROJECT No. 239078(2.8 & 2.9)	DISCIPLINE - WAT -	NUMBER 038	REV. WAC



TYPE	FITTING	Soil AHBP (Kpa)	Design STP (Kpa)	Thrust	TA (m2)	Length (L)	Height (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	0.65	0.85	0.76	0.40
6	DN200 x DN200 EQUAL TEE	100	1000	43.00	0.43	0.70	0.61	0.30
7	DN200 x DN100 TAPER	100	1000	31.00	0.31	0.60	0.52	0.30
8	DN200 x 90° BEND	100	1000	60.00	0.60	0.80	0.75	0.30
9	DN200 x 45° BEND	100	1000	33.00	0.33	0.60	0.55	0.30
10	DN200 x 22.5° BEND	100	1000	17.00	0.17	0.45	0.38	0.30
11	DN200 x 11.25° BEND	100	1000	8.10	0.08	0.30	0.30	0.30
12	DN200 STOP VALVE	100	1000	43.00	0.43	1.20	0.52	0.30
13	DN200 FLUSHING HYDRANT	100	1000	53.00	0.53	0.75	0.71	0.40
14	DN100 x DN100 EQUAL TEE	100	1000	12.00	0.12	0.40	0.30	0.30
15	DN100 x 90° BEND	100	1000	17.00	0.17	0.45	0.38	0.30
16	DN100 x 45° BEND	100	1000	8.80	0.09	0.30	0.30	0.30
17	DN100 x 22.5° BEND	100	1000	4.50	0.05	0.30	0.30	0.30
18	DN100 x 11.25° BEND	100	1000	2.20	0.02	0.30	0.30	0.30
19	DN100 x 6° BEND	100	1000	2.20	0.02	0.30	0.30	0.30
20	DN100 STOP VALVE	100	1000	12.00	0.12	1.05	0.44	0.30
21	DN100 FLUSHING HYDRANT	100	1000	12.00	0.12	0.40	0.30	0.40

THRUST BLOCK NOTES:

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

WORK-AS-CONSTRUCTED

REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY	SCALES	<p>Hunter Office Unit 7/335 Hillsborough Rd Warners Bay N.S.W. 2282 Phone: (02) 4978 5100 Fax: (02) 4978 5199 email: hunter@adwjohanson.com.au www.adwjohanson.com.au ABN 62 129 445 398</p>		CLIENT	PROPERTY DESCRIPTION	PROJECT	POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION
A	20.11.2015	PRELIMINARY ISSUE	J.N.	L.G.	J.N.	L.G.					PROPOSED SUBDIVISION	PLAN TITLE	THRUST BLOCK DETAILS
B	07.12.2015	AMENDED ISSUE - FLOW SYSTEMS COMMENTS	J.N.	L.G.	J.N.	L.G.				PRECINCT 2, STAGES 2.8 AND 2.9 WATAGAN PARK			
0	09.12.2015	CONSTRUCTION ISSUE	J.N.	L.G.	J.N.	L.G.				WHISTLER DRIVE, COORANBONG			
1	18.05.2016	AMENDED CONSTRUCTION ISSUE - SERVICES RELOCATED	J.N.	L.G.	J.N.	L.G.				DA/307/2015			
2	29.03.2018	AMENDED CONSTRUCTION ISSUE - SERVICES RELOCATED	J.N.	L.G.	J.N.	L.G.							
3	17.06.2019	AMENDED CONSTRUCTION ISSUE - TANK LEVELS UPDATED	J.N.	L.G.	J.N.	L.G.							
WAC	30.10.2019	WORK-AS-CONSTRUCTED	J.N.	L.G.	J.N.	L.G.							
WAC	21.11.2019	LOT NUMBERS UPDATED	A.S.A.	V.V.									
			D.S.										
DESIGN FILE: N:\								ALL DIMENSIONS ARE IN METRES. DO NOT SCALE		SURVEYED		ADW Johnson	
								DATUM		A.H.D.		PROJECT No.	
										239078(2.8 & 2.9) - WAT -		DISCIPLINE	
										039		NUMBER	
										WAC		REV.	