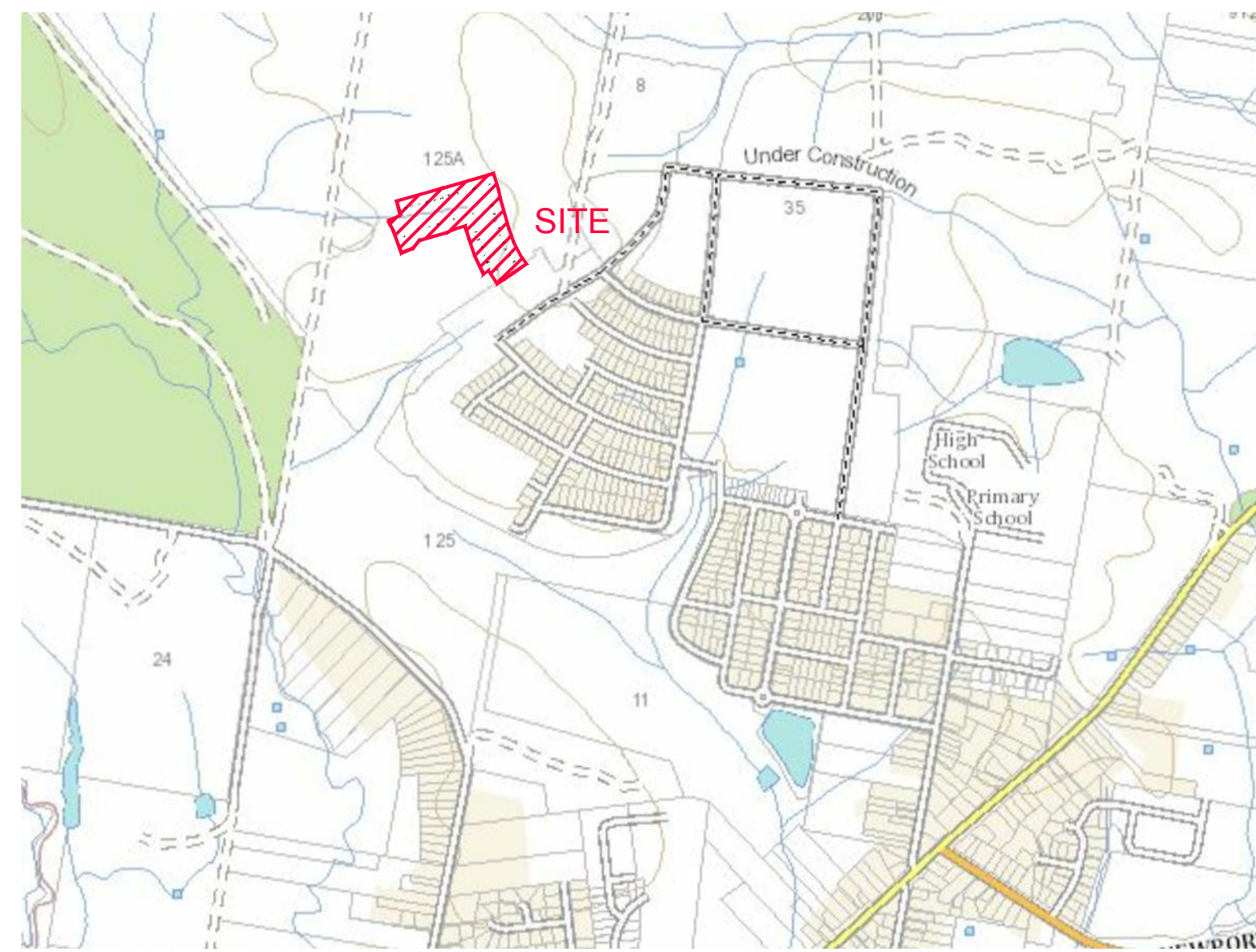




PROPOSED SUBDIVISION STAGE 3.2 WATAGAN PARK



LOCALITY SKETCH
NOT TO SCALE

Sheet List Table	
Sheet Title	Sheet Description
239078(3.2)-WAC-001(2)	COVER SHEET, LOCALITY PLAN AND DRAWING INDEX
239078(3.2)-WAC-002(2)	GENERAL NOTES
239078(3.2)-WAC-003(2)	OVERALL SITE PLAN
239078(3.2)-WAC-004(2)	POTABLE WATER DETAIL PLAN - SHEET 1
239078(3.2)-WAC-005(2)	POTABLE WATER DETAIL PLAN - SHEET 2
239078(3.2)-WAC-006(2)	POTABLE WATER DETAIL PLAN - SHEET 3
239078(3.2)-WAC-007(2)	NOT USED
239078(3.2)-WAC-008(2)	RECYCLED WATER DETAIL PLAN - SHEET 1
239078(3.2)-WAC-009(2)	RECYCLED WATER DETAIL PLAN - SHEET 2
239078(3.2)-WAC-010(2)	RECYCLED WATER DETAIL PLAN - SHEET 3
239078(3.2)-WAC-011(2)	NOT USED
239078(3.2)-WAC-012(2)	PRESSURE SEWER DETAIL PLAN - SHEET 1
239078(3.2)-WAC-013(2)	PRESSURE SEWER DETAIL PLAN - SHEET 2
239078(3.2)-WAC-014(2)	PRESSURE SEWER DETAIL PLAN - SHEET 3
239078(3.2)-WAC-015(2)	PRESSURE SEWER DETAIL PLAN - SHEET 4
239078(3.2)-WAC-016(2)	WAC COORD SCHEDULE
239078(3.2)-WAC-017(2)	TYPICAL CROSS SECTIONS - A & B
239078(3.2)-WAC-018(2)	TYPICAL PIPEWORK TRENCHING DETAILS
239078(3.2)-WAC-019(2)	TYPICAL PROPERTY CONNECTION - SHEET 1
239078(3.2)-WAC-020(2)	TYPICAL PROPERTY CONNECTION - SHEET 2
239078(3.2)-WAC-021(2)	SEWER SERVICE CONNECTION DETAILS
239078(3.2)-WAC-022(2)	THRUST BLOCK DETAILS

WORK-AS-EXECUTED
I certify that with the exception of the changes marked in RED, the work has been constructed in accordance with this drawing.
Signed: Date: 10/01/2022
Name: Malcolm Harvey Position: Registered Surveyor

AS CONSTRUCTED

100mm AT FULL SIZE

REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY	SCALES
A	16.04.2021	PRELIMINARY ISSUE	T.S.	J.N.	T.S.	R.J.	
B	22.04.2021	CLIENT COMMENTS	T.S.	R.J.	T.S.	R.J.	
C	27.04.2021	ELECTRICAL KIOSK LOCATION AMENDED	T.S.	R.J.	T.S.	R.J.	
D	29.04.2021	ALTOGETHER COMMENTS	T.S.	R.J.	T.S.	R.J.	
O	20.05.2021	CONSTRUCTION ISSUE	T.S.	R.J.	T.S.	R.J.	
1	09.06.2021	ELECTRICAL EASEMENT AMENDMENT	T.S.	R.J.	T.S.	R.J.	
2	09.03.2022	WORK AS CONSTRUCTED	I.B.	S.S.	T.S.	R.J.	

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ABN 62 129 445 398

CLIENT
 JOHNSON PROPERTY GROUP

PROPERTY DESCRIPTION
**PROPOSED SUBDIVISION
STAGE 3.2
WATAGAN PARK**

SURVEYED: ADW Johnson DATUM: A.H.D.

PROJECT	POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION		
PLAN TITLE	COVER SHEET, LOCALITY PLAN AND DRAWING INDEX		
PROJECT No.	DISCIPLINE	NUMBER	REV.
239078(3.2)	- WAT -	001	2

239078(3.2)WAC-003(2)

PRESSURE SEWER NOTES:

- 1. ALL WORKS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE DESIGN DRAWINGS, ALTOGETHER SUPPLEMENTARY MANUAL TO WSA, PRESSURE SEWERAGE CODE OF AUSTRALIA - WSA 07-2007 VERSION 11 AND POLYETHYLENE PIPELINE CODE WSA 01-2004.
2. ALL EQUIPMENT, MATERIALS AND ACCESSORIES USED IN THIS CONTRACT SHALL BE NEW AND SHALL COMPLY WITH ALTOGETHER REQUIREMENTS.
3. ALL SERVICES SHOWN ARE INDICATIVE ONLY. A CURRENT SERVICES SEARCH AND SITE CHECK OF ALL EXISTING SERVICES WILL BE REQUIRED PRIOR TO COMMENCEMENT OF ANY WORKS.

POTABLE WATER AND RECYCLED WATER NOTES:

- 1. ALL WORKS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE DESIGN DRAWINGS, ALTOGETHER SUPPLEMENTARY MANUAL TO WSA AND WSA 03-2011-3.1 (SYDNEY WATER EDITION 2014).
2. POTABLE WATER SHALL BE UTILISED FOR FIRE FIGHTING PURPOSES.
3. ALL EQUIPMENT, MATERIALS AND ACCESSORIES USED IN THIS CONTRACT SHALL BE NEW, SHALL CONFORM TO THE APPROPRIATE CURRENT AUSTRALIAN STANDARDS AND SHALL COMPLY WITH ALTOGETHER REQUIREMENTS.

GENERAL NOTES:

- 1. THIS DRAWING SET SHALL BE READ IN CONJUNCTION WITH CESSNOCK CITY COUNCIL STANDARDS, ALTOGETHER SUPPLEMENTARY MANUAL TO WSA AND OTHER ASSOCIATED DRAWINGS AND TECHNICAL SPECIFICATIONS.
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 THE COURSE OF WORKS. ANY SERVICE LOCATIONS SHOWN IN THIS DRAWING SET ARE INDICATIVE ONLY.



CLEARANCES BETWEEN PIPELINES AND UNDERGROUND SERVICES

Table with 4 columns: UTILITY (EXISTING OR PROPOSED SERVICE), MINIMUM HORIZONTAL CLEARANCE (mm) NEW MAIN SIZE, MINIMUM VERTICAL CLEARANCE (mm), and sub-columns for ≤ DN200 and ≥ DN200.

- NOTES:
1. VERTICAL SEPARATION SHALL ALWAYS BE MAINTAINED, EVEN WHEN THE PRESSURE SEWER AND WATER MAIN ARE PARALLEL. THE PRESSURE SEWER SHOULD ALWAYS BE LOCATED BELOW THE WATER MAIN TO MINIMISE THE POSSIBILITY OF BACKFLOW CONTAMINATION IN THE EVENT OF A PRESSURE MAIN BREAK.
2. WATER MAINS INCLUDE MAINS SUPPLYING BOTH POTABLE AND RECYCLED WATER.

SHOULD THE RECOMMENDED CLEARANCES NOT BE ACHIEVED, NOTIFICATION SHALL BE CONVEYED TO THE COORANBONG WATER REPRESENTATIVE IN WRITING FOR REVIEW & ACCEPTANCE PRIOR TO INSTALLATION.

100mm AT FULL SIZE

WORK-AS-EXECUTED stamp with signature of Malcolm Harvey, Date: 10/01/2022, Position: Registered Surveyor.

AS CONSTRUCTED

Table with columns: REV., DATE, AMENDMENT, DRAWN, CHECK, DESIGN, VERIFY, SCALES. Includes revision history for preliminary issue, client comments, and construction issue.

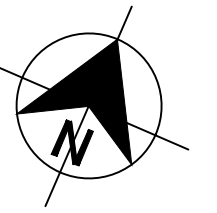
Hunter Office contact information: Unit 7/335 Hillsborough Rd, Warners Bay N.S.W. 2282. Includes phone, fax, email, and website details.

JOHNSON PROPERTY GROUP logo and contact information.

Table with columns: PROJECT (POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION), PLAN TITLE (GENERAL NOTES), SURVEYED (ADW Johnson), DATUM (A.H.D.), PROJECT No. (239078(3.2)), DISCIPLINE (WAT), NUMBER (002), REV. (2).

239078(3.2)-WAC-003(2)

100mm AT FULL SIZE



WORK-AS-EXECUTED
 I certify that with the exception of the changes marked in RED, the work has been constructed in accordance with this drawing.
 Signed: *M. Harvey* Date: 10/01/2022
 Name: Malcolm Harvey Position: Registered Surveyor

AS CONSTRUCTED

REV.	DATE	AMENDMENT
A	16.04.2021	PRELIMINARY ISSUE
B	22.04.2021	CLIENT COMMENTS
C	27.04.2021	ELECTRICAL KIOSK LOCATION AMENDED
D	29.04.2021	ALTOGETHER COMMENTS
O	20.05.2021	CONSTRUCTION ISSUE
1	09.06.2021	ELECTRICAL EASEMENT AMENDMENT
2	09.03.2022	WORK AS CONSTRUCTED

DRAWN	CHECK	DESIGN	VERIFY	SCALES
T.S.	J.N.	T.S.	R.J.	0 10 20 30 40 A1 / A3
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T.S.	R.J.	T.S.	R.J.	
T.S.	R.J.	T.S.	R.J.	
T.S.	R.J.	T.S.	R.J.	
T.S.	R.J.	T.S.	R.J.	
I.B.	S.S.	T.S.	R.J.	

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CLIENT

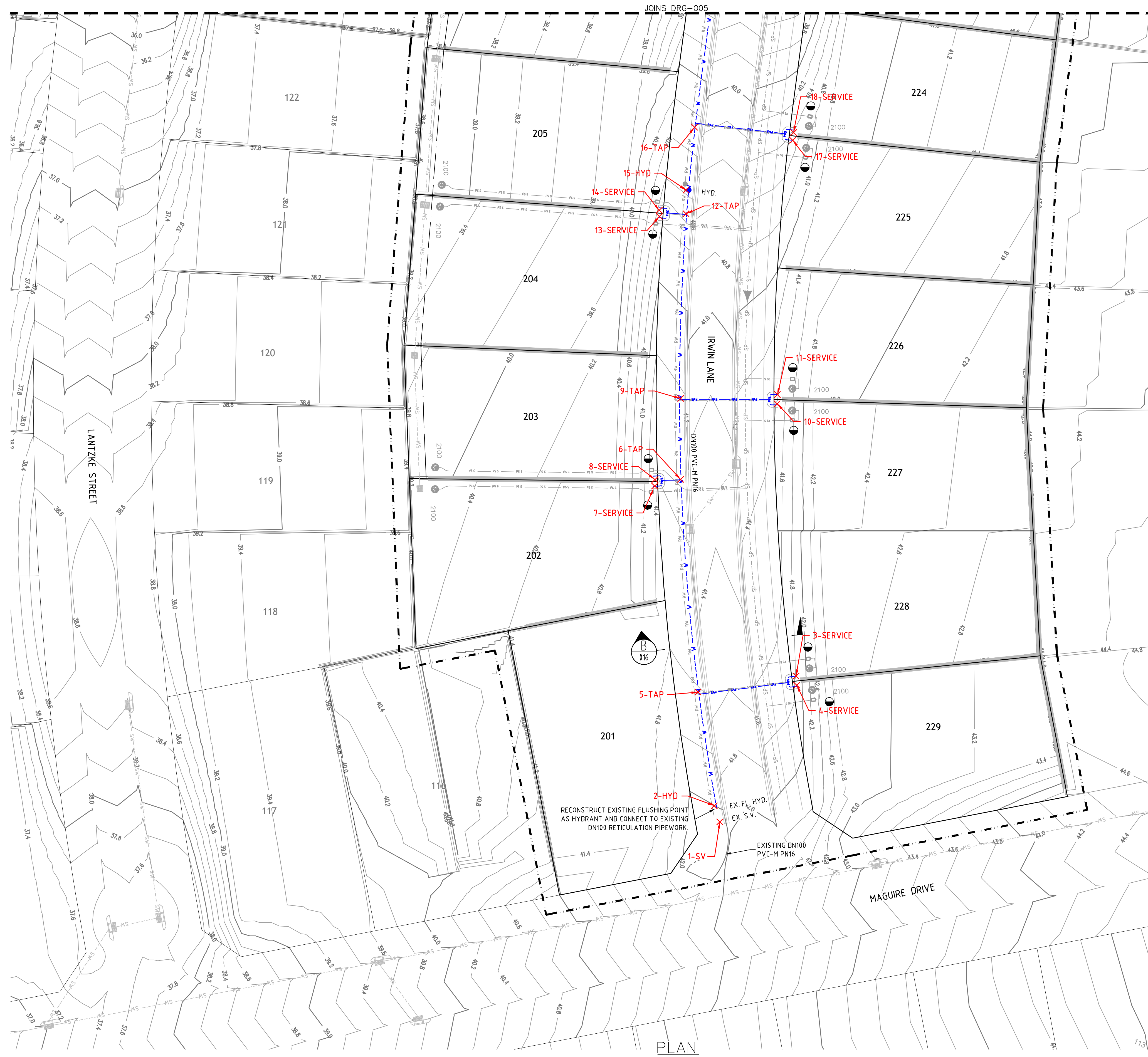
JOHNSON PROPERTY GROUP

PROPERTY DESCRIPTION	
PROPOSED SUBDIVISION STAGE 3.2 WATAGAN PARK	
SURVEYED	DATUM
ADW Johnson	A.H.D.

PROJECT POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION			
PLAN TITLE			
OVERALL SITE PLAN			
PROJECT No.	DISCIPLINE	NUMBER	REV.
239078(3.2)	- WAT -	003	2

239078(3.2)-WAC-007(2)

100mm AT FULL SIZE



- LEGEND**
- W PVC-M POTABLE WATER RETICULATION
 - PWS POTABLE WATER PROPERTY SERVICE
 - RW PVC-M RECYCLED WATER RETICULATION
 - RWS RECYCLED WATER PROPERTY SERVICE
 - PS PE PRESSURE SEWER RETICULATION
 - PWS PE PRESSURE SEWER PROPERTY SERVICE
 - EX PW EXISTING POTABLE WATER RETICULATION
 - EX RW EXISTING RECYCLED WATER RETICULATION
 - EX PS EXISTING PRESSURE SEWER RETICULATION
 - SW STORMWATER PIPEWORK
 - SV STOP VALVE
 - HYD HYDRANT
 - FL HYD FLUSHING HYDRANT
 - PROPERTY SERVICE CONNECTION
 - LAY WATER MAIN OVER STORMWATER PIPE (300mm MIN. VERTICAL CLEARANCE) - REFER TO WAT-1255-H
 - PROPOSED EASEMENT
 - - - - - SUBDIVISION STAGE BOUNDARY

- POTABLE WATER PROPERTY SERVICE CONNECTIONS**
 TOTAL 35 CONNECTIONS
- SINGLE SERVICES IN ACCORDANCE WITH WAT-1106-V
 - 4 x SHORT SIDE
 - 1 x LONG SIDE
 - SPLIT SERVICES IN ACCORDANCE WITH WAT-1107-V
 - 5 x SHORT SIDE
 - 10 x LONG SIDE

POTABLE WATER PIPE DATA		
PIPE SIZE (mm)	PIPE MATERIAL	TOTAL LENGTH (m)
DN100	PVC-M PN16	441

- NOTES:**
- FOR RECYCLED WATER PIPEWORK DETAIL PLANS REFER TO DRGS-008 TO 010.
 - FOR PRESSURE SEWER PIPEWORK DETAIL PLANS REFER TO DRGS-012 TO 015.
 - FOR TYPICAL SERVICE CONNECTION DETAILS REFER TO DRGS-018 TO 020.
 - POTABLE WATER & RECYCLED WATER TO SHARE ϕ 150mm CONDUIT ON LONG SIDE FOR FULL ROAD PAVEMENT

WORK-AS-EXECUTED

I certify that with the exception of the changes marked in RED, the work has been constructed in accordance with this drawing.

Signed: *M. Harvey* Date: 10/01/2022
 Name: Malcolm Harvey Position: Registered Surveyor

AS CONSTRUCTED

REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY
A	16.04.2021	PRELIMINARY ISSUE	T.S.	J.N.	T.S.	R.J.
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2	09.03.2022	WORK AS CONSTRUCTED	I.B.	S.S.	T.S.	R.J.

ALL DIMENSIONS ARE IN METRES. DO NOT SCALE

A1 / A3
1:250 / 1:500

adw Johnson

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CLIENT

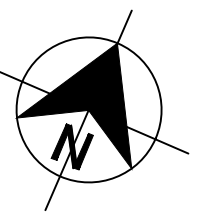
JOHNSON PROPERTY GROUP

PROPERTY DESCRIPTION

PROPOSED SUBDIVISION
 STAGE 3.2
 WATAGAN PARK

PROJECT	POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION		
PLAN TITLE	POTABLE WATER DETAIL PLAN - SHEET 1		
PROJECT No.	DISCIPLINE	NUMBER	REV.
239078(3.2)	- WAT -	004	2

239078(3.2)WAC-007(2)



LEGEND

- PVC-M POTABLE WATER RETICULATION
- POTABLE WATER PROPERTY SERVICE
- PVC-M RECYCLED WATER RETICULATION
- RECYCLED WATER PROPERTY SERVICE
- PE PRESSURE SEWER RETICULATION
- PE PRESSURE SEWER PROPERTY SERVICE
- EX PW
- EX RW
- EX PS
- STORMWATER PIPEWORK
- SV
- HYD
- FL HYD
- PROPERTY SERVICE CONNECTION
- LAY WATER MAIN OVER STORMWATER PIPE (300mm MIN. VERTICAL CLEARANCE) - REFER TO WAT-1255-H
- PROPOSED EASEMENT
- SUBDIVISION STAGE BOUNDARY

- POTABLE WATER PROPERTY SERVICE CONNECTIONS**
- TOTAL 35 CONNECTIONS
 - SINGLE SERVICES IN ACCORDANCE WITH WAT-1106-V
 - 4 x SHORT SIDE
 - 1 x LONG SIDE
 - SPLIT SERVICES IN ACCORDANCE WITH WAT-1107-V
 - 5 x SHORT SIDE
 - 10 x LONG SIDE

POTABLE WATER PIPE DATA		
PIPE SIZE (mm)	PIPE MATERIAL	TOTAL LENGTH (m)
DN100	PVC-M PN16	441

NOTES:

1. FOR RECYCLED WATER PIPEWORK DETAIL PLANS REFER TO DRGS-008 TO 010.
2. FOR PRESSURE SEWER PIPEWORK DETAIL PLANS REFER TO DRGS-012 TO 015.
3. FOR TYPICAL SERVICE CONNECTION DETAILS REFER TO DRGS-018 TO 020.
4. POTABLE WATER & RECYCLED WATER TO SHARE ϕ 150mm CONDUIT ON LONG SIDE FOR FULL ROAD PAVEMENT

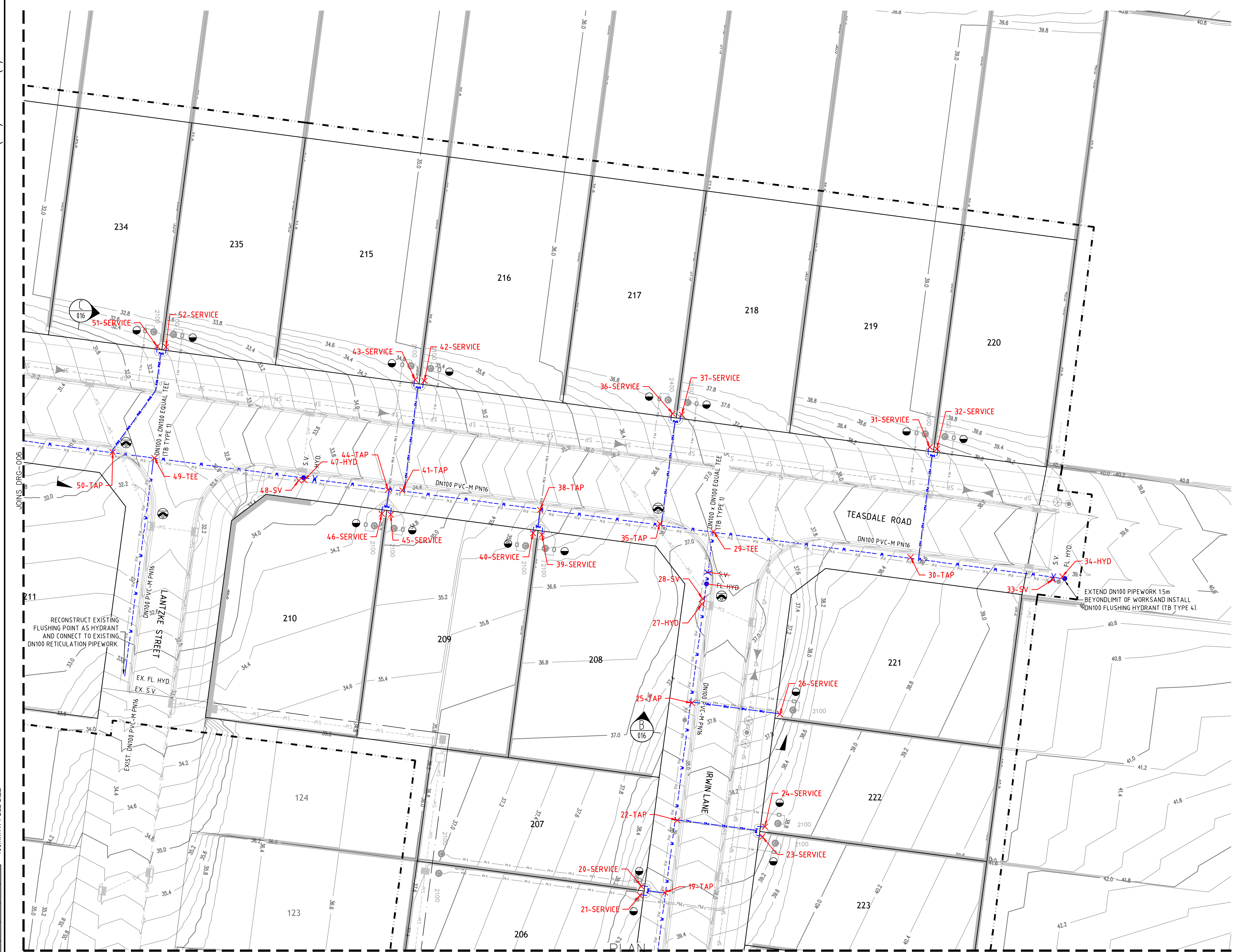
WORK-AS-EXECUTED

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Signed: Date: 10/01/2022

Name: Malcolm Harvey Position: Registered Surveyor

AS CONSTRUCTED



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SCALE 1:250

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adw Johnson

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 ABN 62 129 445 398

CLIENT

JOHNSON PROPERTY GROUP

PROPERTY DESCRIPTION

PROPOSED SUBDIVISION
 STAGE 3.2
 WATAGAN PARK

SURVEYED ADW Johnson

DATUM A.H.D.

PROJECT POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION

PLAN TITLE POTABLE WATER DETAIL PLAN - SHEET 2

PROJECT No.	DISCIPLINE	NUMBER	REV.
239078(3.2)	- WAT -	005	2



- LEGEND**
- PVC-M POTABLE WATER RETICULATION
 - POTABLE WATER PROPERTY SERVICE
 - PVC-M RECYCLED WATER RETICULATION
 - RECYCLED WATER PROPERTY SERVICE
 - PE PRESSURE SEWER RETICULATION
 - PE PRESSURE SEWER PROPERTY SERVICE
 - EXISTING POTABLE WATER RETICULATION
 - EXISTING RECYCLED WATER RETICULATION
 - EXISTING PRESSURE SEWER RETICULATION
 - STORMWATER PIPEWORK
 - SV: STOP VALVE
 - HYD: HYDRANT
 - FL HYD: FLUSHING HYDRANT
 - : PROPERTY SERVICE CONNECTION
 - : LAY WATER MAIN OVER STORMWATER PIPE (300mm MIN. VERTICAL CLEARANCE) - REFER TO WAT-1255-H
 - - - - - PROPOSED EASEMENT
 - - - - - SUBDIVISION STAGE BOUNDARY

- POTABLE WATER PROPERTY SERVICE CONNECTIONS**
- TOTAL 35 CONNECTIONS
 - SINGLE SERVICES IN ACCORDANCE WITH WAT-1106-V
 - 4 x SHORT SIDE
 - 1 x LONG SIDE
 - SPLIT SERVICES IN ACCORDANCE WITH WAT-1107-V
 - 5 x SHORT SIDE
 - 10 x LONG SIDE

POTABLE WATER PIPE DATA		
PIPE SIZE (mm)	PIPE MATERIAL	TOTAL LENGTH (m)
DN100	PVC-M PN16	441

- NOTES:**
1. FOR RECYCLED WATER PIPEWORK DETAIL PLANS REFER TO DRGS-008 TO 010.
 2. FOR PRESSURE SEWER PIPEWORK DETAIL PLANS REFER TO DRGS-012 TO 015.
 3. FOR TYPICAL SERVICE CONNECTION DETAILS REFER TO DRGS-018 TO 020.
 4. POTABLE WATER & RECYCLED WATER TO SHARE 150mm CONDUIT ON LONG SIDE FOR FULL ROAD PAVEMENT

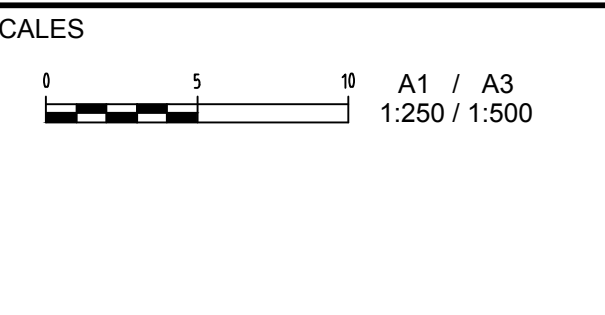
WORK-AS-EXECUTED

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Signed: *Malcolm Harvey* Date: 10/01/2022
 Name: Malcolm Harvey Position: Registered Surveyor

AS CONSTRUCTED

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CLIENT

JOHNSON PROPERTY GROUP

PROPERTY DESCRIPTION

PROPOSED SUBDIVISION
 STAGE 3.2
 WATAGAN PARK

PROJECT	POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION		
PLAN TITLE	POTABLE WATER DETAIL PLAN - SHEET 3		
PROJECT No.	DISCIPLINE	NUMBER	REV.
239078(3.2)	- WAT -	006	2

239078(3.2)WAC-007(2)



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
- PWS PE PRESSURE SEWER PROPERTY SERVICE
- EX PW EXISTING POTABLE WATER RETICULATION
- EX RW EXISTING RECYCLED WATER RETICULATION
- EX PS EXISTING PRESSURE SEWER RETICULATION
- SW STORMWATER PIPEWORK
- SV STOP VALVE
- HYD. HYDRANT
- FL HYD. FLUSHING HYDRANT
- PROPERTY SERVICE CONNECTION
- LAY WATER MAIN OVER STORMWATER PIPE (300mm MIN. VERTICAL CLEARANCE) - REFER TO WAT-1255-H
- PROPOSED EASEMENT
- SUBDIVISION STAGE BOUNDARY

- POTABLE WATER PROPERTY SERVICE CONNECTIONS**
 TOTAL 35 CONNECTIONS
- SINGLE SERVICES IN ACCORDANCE WITH WAT-1106-V
 - 4 x SHORT SIDE
 - 1 x LONG SIDE
 - SPLIT SERVICES IN ACCORDANCE WITH WAT-1107-V
 - 5 x SHORT SIDE
 - 10 x LONG SIDE

POTABLE WATER PIPE DATA		
PIPE SIZE (mm)	PIPE MATERIAL	TOTAL LENGTH (m)
DN100	PVC-M PN16	44.1

- NOTES:**
- FOR RECYCLED WATER PIPEWORK DETAIL PLANS REFER TO DRGS-008 TO 010.
 - FOR PRESSURE SEWER PIPEWORK DETAIL PLANS REFER TO DRGS-012 TO 015.
 - FOR TYPICAL SERVICE CONNECTION DETAILS REFER TO DRGS-018 TO 020.
 - POTABLE WATER & RECYCLED WATER TO SHARE ϕ 150mm CONDUIT ON LONG SIDE FOR FULL ROAD PAVEMENT

WORK-AS-EXECUTED
 I certify that with the exception of the changes marked in RED, the work has been constructed in accordance with this drawing.

Signed: Date: 10/01/2022
 Name: Malcolm Harvey Position: Registered Surveyor

AS CONSTRUCTED

PLAN SCALE 1:250

REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY
A	16.04.2021	PRELIMINARY ISSUE	T.S.	J.N.	T.S.	R.J.
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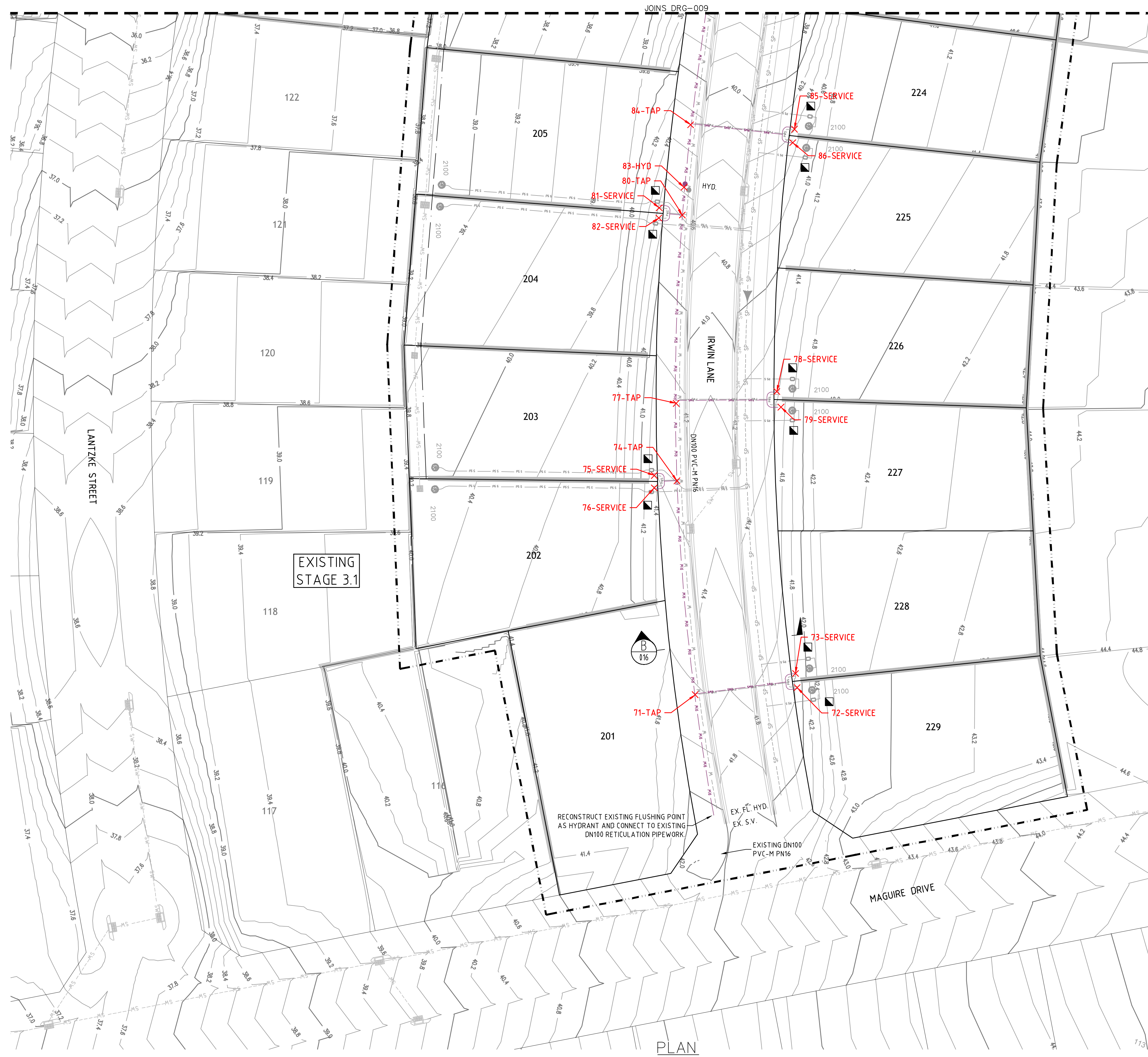
JOHNSON PROPERTY GROUP

PROPERTY DESCRIPTION

PROPOSED SUBDIVISION
 STAGE 3.2
 WATAGAN PARK

SURVEYED ADW Johnson DATUM A.H.D.

PROJECT	POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION		
PLAN TITLE	NOT USED		
PROJECT No.	DISCIPLINE	NUMBER	REV.
239078(3.2)	- WAT -	007	2



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
	PS S	PE PRESSURE SEWER PROPERTY SERVICE
	EX RW	EXISTING RECYCLED WATER RETICULATION
	EX PW	EXISTING POTABLE WATER RETICULATION
	EX PS	EXISTING PRESSURE SEWER RETICULATION
	SW	STORMWATER PIPEWORK
	SV	STOP VALVE
	HYD.	HYDRANT
	FL HYD.	FLUSHING HYDRANT
	90°	90° HORIZONTAL BEND - REFER TO THRUST BLOCK TABLE
		PROPERTY SERVICE CONNECTION
		LAY WATER MAIN OVER STORMWATER PIPE (300mm MIN. VERTICAL CLEARANCE) - REFER TO WAT-1255-H
		PROPOSED EASEMENT
		SUBDIVISION STAGE BOUNDARY

- RECYCLED WATER PROPERTY SERVICE CONNECTIONS**
 TOTAL 35 CONNECTIONS
- SINGLE SERVICES IN ACCORDANCE WITH WAT-1106-V
 - 4 x SHORT SIDE
 - 1 x LONG SIDE
 - SPLIT SERVICES IN ACCORDANCE WITH WAT-1107-V
 - 5 x SHORT SIDE
 - 10 x LONG SIDE

RECYCLED WATER PIPE DATA

PIPE SIZE (mm)	PIPE MATERIAL	TOTAL LENGTH (m)
DN100	PVC-M PN16	440

- NOTES:**
- FOR POTABLE WATER PIPEWORK DETAIL PLANS REFER TO DRGS-004 TO 006.
 - FOR PRESSURE SEWER PIPEWORK DETAIL PLANS REFER TO DRGS-012 TO 015.
 - FOR TYPICAL SERVICE CONNECTION DETAILS REFER TO DRGS-018 TO 020.
 - POTABLE WATER & RECYCLED WATER TO SHARE #150mm CONDUIT ON LONG SIDE FOR FULL ROAD PAVEMENT

WORK-AS-EXECUTED
 I certify that with the exception of the changes marked in RED, the work has been constructed in accordance with this drawing.

Signed: Date: 10/01/2022
 Name: Malcolm Harvey Position: Registered Surveyor

AS CONSTRUCTED

REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY
A	16.04.2021	PRELIMINARY ISSUE	T.S.	J.N.	T.S.	R.J.
B	22.04.2021	CLIENT COMMENTS	T.S.	R.J.	T.S.	R.J.
C	27.04.2021	ELECTRICAL KIOSK LOCATION AMENDED	T.S.	R.J.	T.S.	R.J.
D	29.04.2021	ALTOGETHER COMMENTS	T.S.	R.J.	T.S.	R.J.
O	20.05.2021	CONSTRUCTION ISSUE	T.S.	R.J.	T.S.	R.J.
1	09.06.2021	ELECTRICAL EASEMENT AMENDMENT	T.S.	R.J.	T.S.	R.J.
2	09.03.2022	WORK AS CONSTRUCTED	I.B.	S.S.	T.S.	R.J.

SCALE
A1 / A3 1:250 / 1:500

adw Johnson

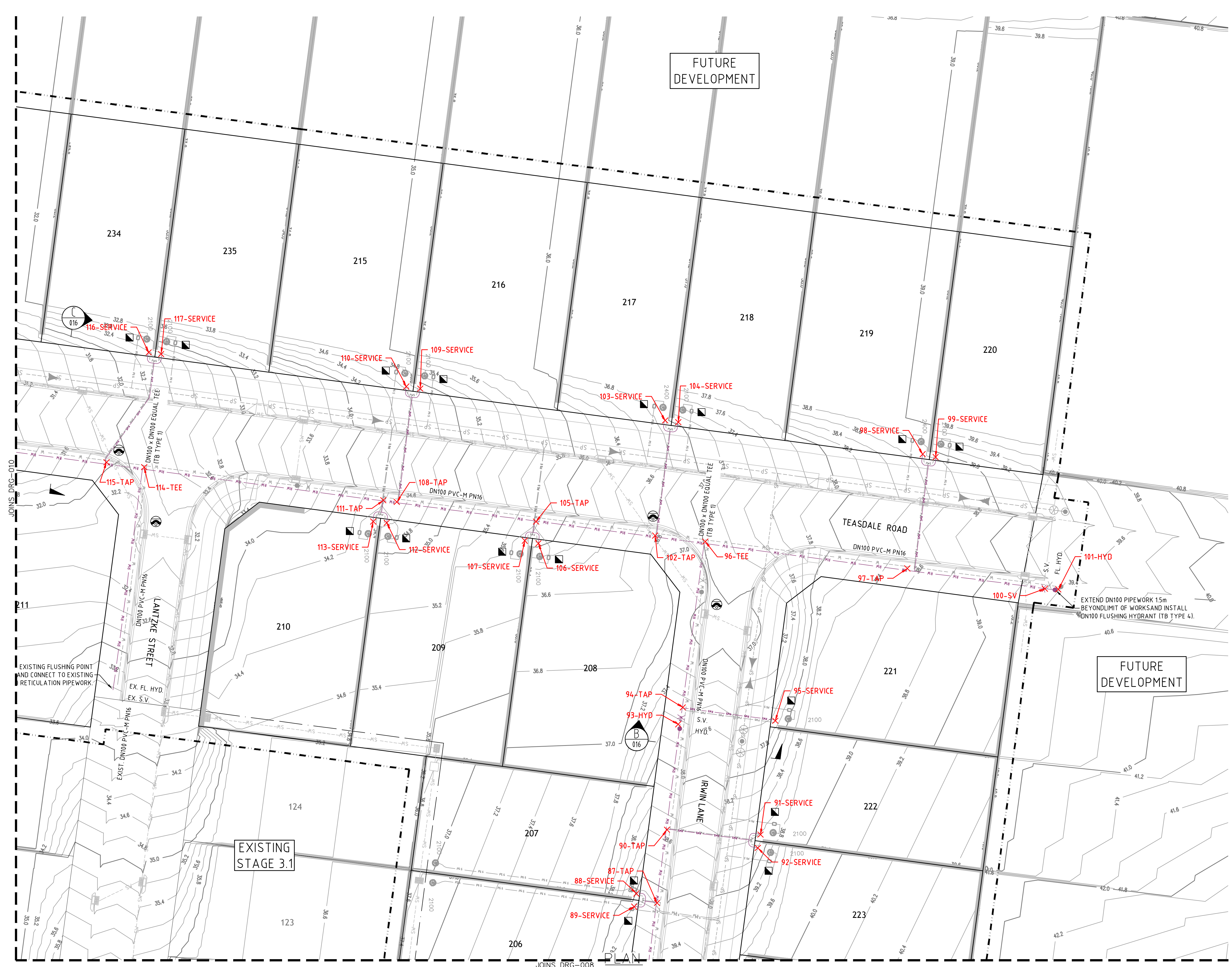
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 Fax: (02) 4978 5199
 email: hunter@adwjohnson.com.au
 www.adwjohnson.com.au
 ABN 62 129 445 398

CLIENT

JOHNSON PROPERTY GROUP

PROPERTY DESCRIPTION
PROPOSED SUBDIVISION STAGE 3.2 WATAGAN PARK

PROJECT	PLAN TITLE
POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION	RECYCLED WATER DETAIL PLAN - SHEET 1



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
- PS PE PRESSURE SEWER PROPERTY SERVICE
- EX RW EXISTING RECYCLED WATER RETICULATION
- EX W EXISTING POTABLE WATER RETICULATION
- EX PS EXISTING PRESSURE SEWER RETICULATION
- SW STORMWATER PIPEWORK
- SV STOP VALVE
- HYD HYDRANT
- FL HYD FLUSHING HYDRANT
- 90° 90° HORIZONTAL BEND - REFER TO THRUST BLOCK TABLE
- PROPERTY SERVICE CONNECTION
- LAY WATER MAIN OVER STORMWATER PIPE (300mm MIN. VERTICAL CLEARANCE) - REFER TO WAT-1255-H
- PROPOSED EASEMENT
- SUBDIVISION STAGE BOUNDARY

- RECYCLED WATER PROPERTY SERVICE CONNECTIONS**
- TOTAL 35 CONNECTIONS
 - SINGLE SERVICES IN ACCORDANCE WITH WAT-1106-V
 - 4 x SHORT SIDE
 - 1 x LONG SIDE
 - SPLIT SERVICES IN ACCORDANCE WITH WAT-1107-V
 - 5 x SHORT SIDE
 - 10 x LONG SIDE

RECYCLED WATER PIPE DATA

PIPE SIZE (mm)	PIPE MATERIAL	TOTAL LENGTH (m)
DN100	PVC-M PN16	4.40

- NOTES:**
1. FOR POTABLE WATER PIPEWORK DETAIL PLANS REFER TO DRGS-004 TO 006.
 2. FOR PRESSURE SEWER PIPEWORK DETAIL PLANS REFER TO DRGS-012 TO 015.
 3. FOR TYPICAL SERVICE CONNECTION DETAILS REFER TO DRGS-018 TO 020.
 4. POTABLE WATER & RECYCLED WATER TO SHARE Ø150mm CONDUIT ON LONG SIDE FOR FULL ROAD PAVEMENT

WORK-AS-EXECUTED
 I certify that with the exception of the changes marked in RED, the work has been constructed in accordance with this drawing.

Signed: Date: 10/01/2022
 Name: Malcolm Harvey Position: Registered Surveyor

AS CONSTRUCTED

REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY
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1	09.06.2021	ELECTRICAL EASEMENT AMENDMENT	T.S.	R.J.	T.S.	R.J.
2	09.03.2022	WORK AS CONSTRUCTED	I.B.	S.S.	T.S.	R.J.

SCALE 1:250

ALL DIMENSIONS ARE IN METRES. DO NOT SCALE

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 www.adwjohnson.com.au
 ABN 62 129 445 398

CLIENT

JOHNSON PROPERTY GROUP

PROPERTY DESCRIPTION

PROPOSED SUBDIVISION
 STAGE 3.2
 WATAGAN PARK

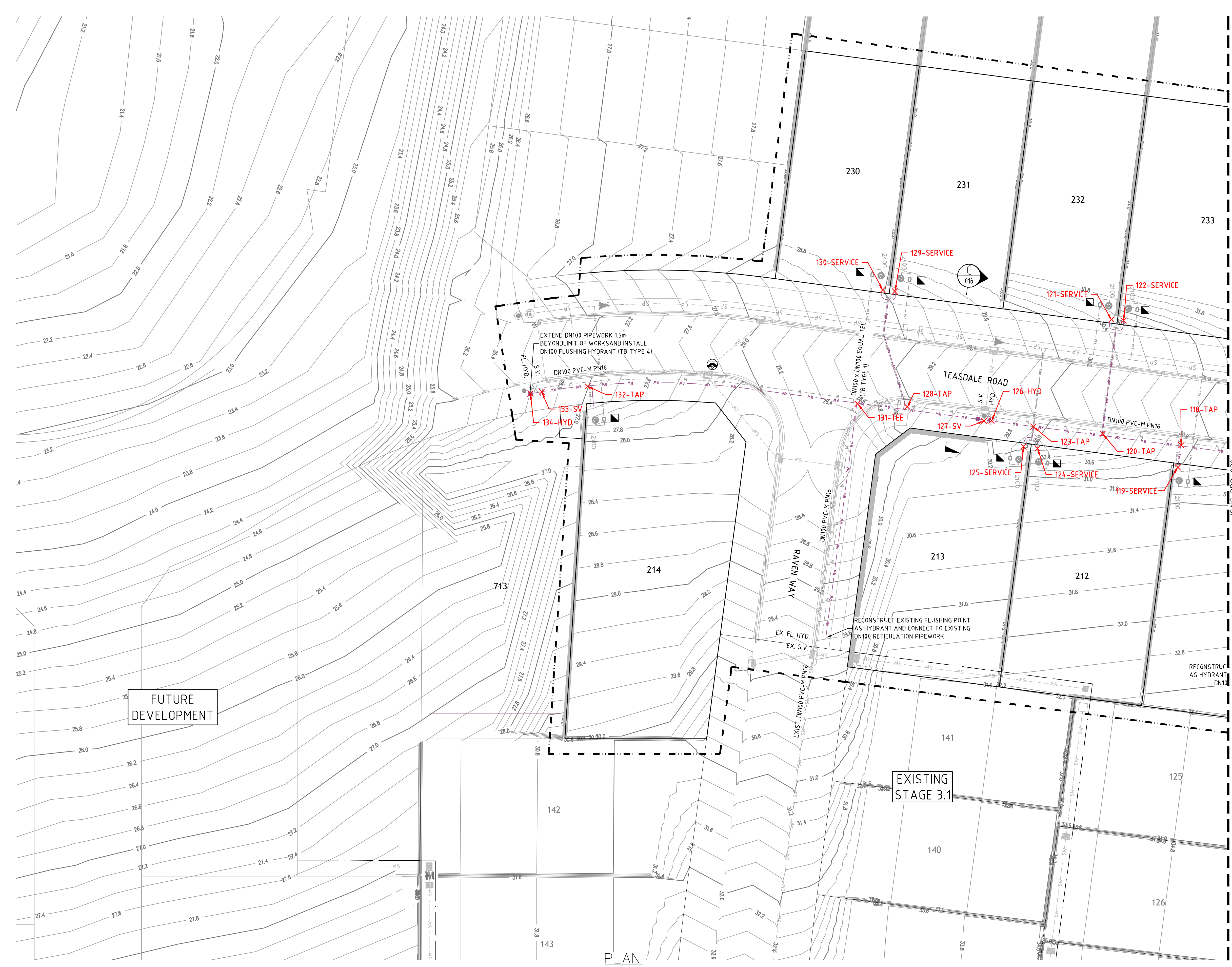
SURVEYED ADW Johnson

DATUM A.H.D.

PROJECT POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION

PLAN TITLE RECYCLED WATER DETAIL PLAN - SHEET 2

PROJECT No. 239078(3.2) DISCIPLINE WAT NUMBER 009 REV. 2



LEGEND

- RW PVC-M RECYCLED WATER RETICULATION
- RWS RECYCLED WATER PROPERTY SERVICE
- PVC-M POTABLE WATER RETICULATION
- PWS POTABLE WATER PROPERTY SERVICE
- SP PE PRESSURE SEWER RETICULATION
- PS S PE PRESSURE SEWER PROPERTY SERVICE
- EX RW EXISTING RECYCLED WATER RETICULATION
- EX PWS EXISTING POTABLE WATER RETICULATION
- EX PS EXISTING PRESSURE SEWER RETICULATION
- SW STORMWATER PIPEWORK
- SV STOP VALVE
- HYD HYDRANT
- FL HYD FLUSHING HYDRANT
- 90° 90° HORIZONTAL BEND - REFER TO THRUST BLOCK TABLE
- PROPERTY SERVICE CONNECTION
- LAY WATER MAIN OVER STORMWATER PIPE (300mm MIN. VERTICAL CLEARANCE) - REFER TO WAT-1255-H
- PROPOSED EASEMENT
- SUBDIVISION STAGE BOUNDARY

- RECYCLED WATER PROPERTY SERVICE CONNECTIONS**
 TOTAL 35 CONNECTIONS
- SINGLE SERVICES IN ACCORDANCE WITH WAT-1106-V
 - 4 x SHORT SIDE
 - 1 x LONG SIDE
 - SPLIT SERVICES IN ACCORDANCE WITH WAT-1107-V
 - 5 x SHORT SIDE
 - 10 x LONG SIDE

RECYCLED WATER PIPE DATA		
PIPE SIZE (mm)	PIPE MATERIAL	TOTAL LENGTH (m)
DN100	PVC-M PN16	440

- NOTES:**
1. FOR POTABLE WATER PIPEWORK DETAIL PLANS REFER TO DRGS-004 TO 006.
 2. FOR PRESSURE SEWER PIPEWORK DETAIL PLANS REFER TO DRGS-012 TO 015.
 3. FOR TYPICAL SERVICE CONNECTION DETAILS REFER TO DRGS-018 TO 020.
 4. POTABLE WATER & RECYCLED WATER TO SHARE #150mm CONDUIT ON LONG SIDE FOR FULL ROAD PAVEMENT

WORK-AS-EXECUTED

I certify that with the exception of the changes marked in RED, the work has been constructed in accordance with this drawing.

Signed: *M. Harvey* Date: 10/01/2022
 Name: Malcolm Harvey Position: Registered Surveyor

AS CONSTRUCTED

100mm AT FULL SIZE

REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY
A	16.04.2021	PRELIMINARY ISSUE	T.S.	J.N.	T.S.	R.J.
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D	29.04.2021	ALTOGETHER COMMENTS	T.S.	R.J.	T.S.	R.J.
O	20.05.2021	CONSTRUCTION ISSUE	T.S.	R.J.	T.S.	R.J.
1	09.06.2021	ELECTRICAL EASEMENT AMENDMENT	T.S.	R.J.	T.S.	R.J.
2	09.03.2022	WORK AS CONSTRUCTED	I.B.	S.S.	T.S.	R.J.

ALL DIMENSIONS ARE IN METRES. DO NOT SCALE

A1 / A3
1:250 / 1:500

adw Johnson

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 www.adwjohnson.com.au
 ABN 62 129 445 398

CLIENT

JOHNSON PROPERTY GROUP

PROPERTY DESCRIPTION

PROPOSED SUBDIVISION
 STAGE 3.2
 WATAGAN PARK

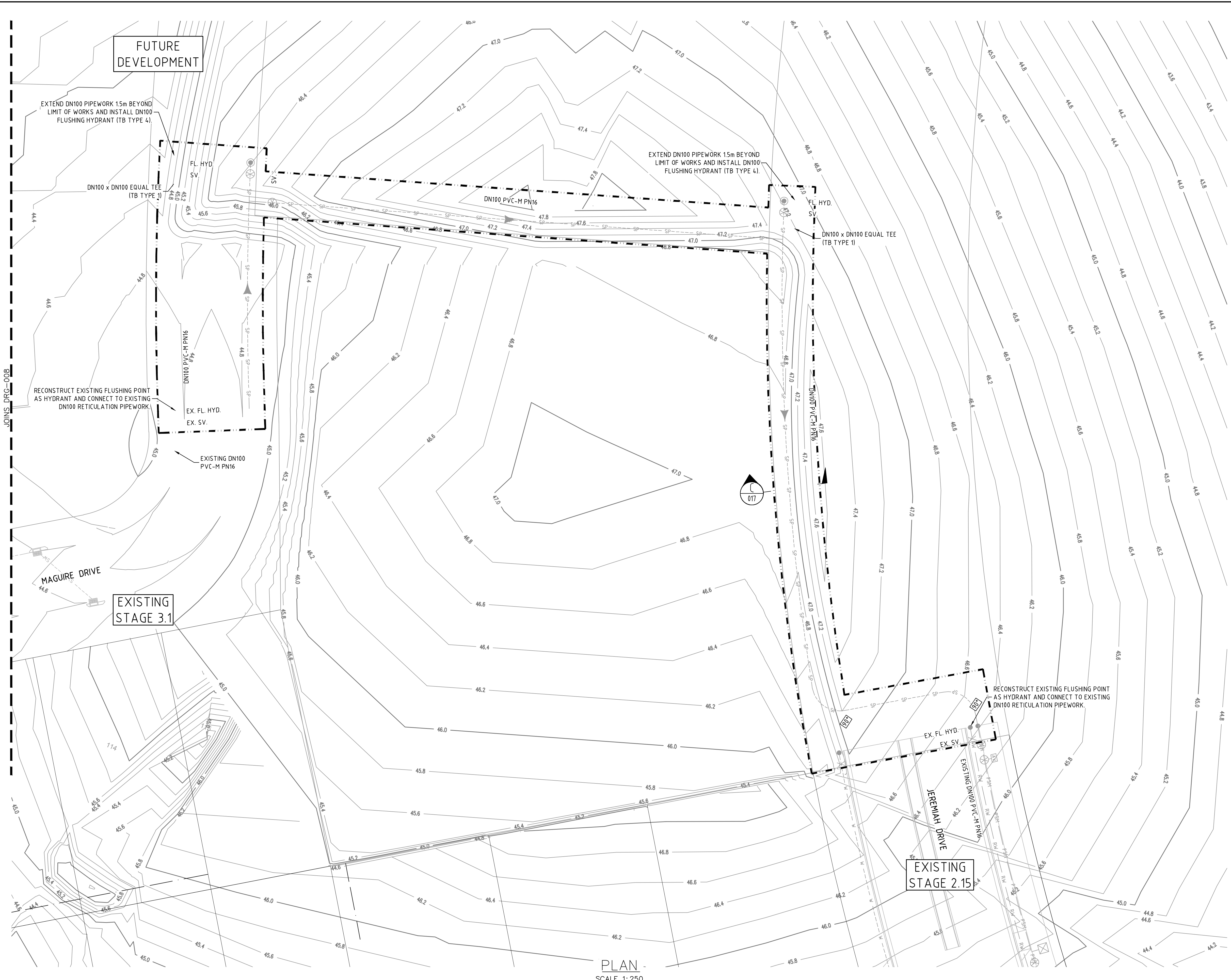
SURVEYED ADW Johnson DATUM A.H.D.

PROJECT POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION

PLAN TITLE RECYCLED WATER DETAIL PLAN - SHEET 3

PROJECT No. 239078(3.2) DISCIPLINE - WAT - NUMBER 010 REV. 2

239078(3.2)-WAC-011(2)



LEGEND

	RW	PVC-M RECYCLED WATER RETICULATION
	RWS	RECYCLED WATER PROPERTY SERVICE
	PWC-M	PVC-M POTABLE WATER RETICULATION
	PWS	POTABLE WATER PROPERTY SERVICE
	SP	PE PRESSURE SEWER RETICULATION
	PS	PE PRESSURE SEWER PROPERTY SERVICE
	EX RW	EXISTING RECYCLED WATER RETICULATION
	EX PWS	EXISTING POTABLE WATER RETICULATION
	EX PS	EXISTING PRESSURE SEWER RETICULATION
	SW	STORMWATER PIPEWORK
	SV	STOP VALVE
	HYD.	HYDRANT
	FL HYD.	FLUSHING HYDRANT
	90°	90° HORIZONTAL BEND - REFER TO THRUST BLOCK TABLE
		PROPERTY SERVICE CONNECTION
		LAY WATER MAIN OVER STORMWATER PIPE (300mm MIN. VERTICAL CLEARANCE) - REFER TO WAT-1255-H
		PROPOSED EASEMENT
		SUBDIVISION STAGE BOUNDARY

- RECYCLED WATER PROPERTY SERVICE CONNECTIONS**
- TOTAL 35 CONNECTIONS
 - SINGLE SERVICES IN ACCORDANCE WITH WAT-1106-V
 - 4 x SHORT SIDE
 - 1 x LONG SIDE
 - SPLIT SERVICES IN ACCORDANCE WITH WAT-1107-V
 - 5 x SHORT SIDE
 - 10 x LONG SIDE

RECYCLED WATER PIPE DATA

PIPE SIZE (mm)	PIPE MATERIAL	TOTAL LENGTH (m)
DN100	PVC-M PN16	440

- NOTES:**
- FOR POTABLE WATER PIPEWORK DETAIL PLANS REFER TO DRGS-004 TO 006.
 - FOR PRESSURE SEWER PIPEWORK DETAIL PLANS REFER TO DRGS-012 TO 015.
 - FOR TYPICAL SERVICE CONNECTION DETAILS REFER TO DRGS-018 TO 020.
 - POTABLE WATER & RECYCLED WATER TO SHARE #150mm CONDUIT ON LONG SIDE FOR FULL ROAD PAVEMENT

WORK-AS-EXECUTED
 I certify that with the exception of the changes marked in RED, the work has been constructed in accordance with this drawing.
 Signed: Date: 10/01/2022
 Name: Malcolm Harvey Position: Registered Surveyor

AS CONSTRUCTED

PLAN
SCALE 1:250

REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY
A	16.04.2021	PRELIMINARY ISSUE	T.S.	J.N.	T.S.	R.J.
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D	29.04.2021	ALTOGETHER COMMENTS	T.S.	R.J.	T.S.	R.J.
O	20.05.2021	CONSTRUCTION ISSUE	T.S.	R.J.	T.S.	R.J.
1	09.06.2021	ELECTRICAL EASEMENT AMENDMENT	T.S.	R.J.	T.S.	R.J.
2	09.03.2022	WORK AS CONSTRUCTED	I.B.	S.S.	T.S.	R.J.

SCALE
0 5 10 A1 / A3 1:250 / 1:500

adw Johnson
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CLIENT

JOHNSON PROPERTY GROUP

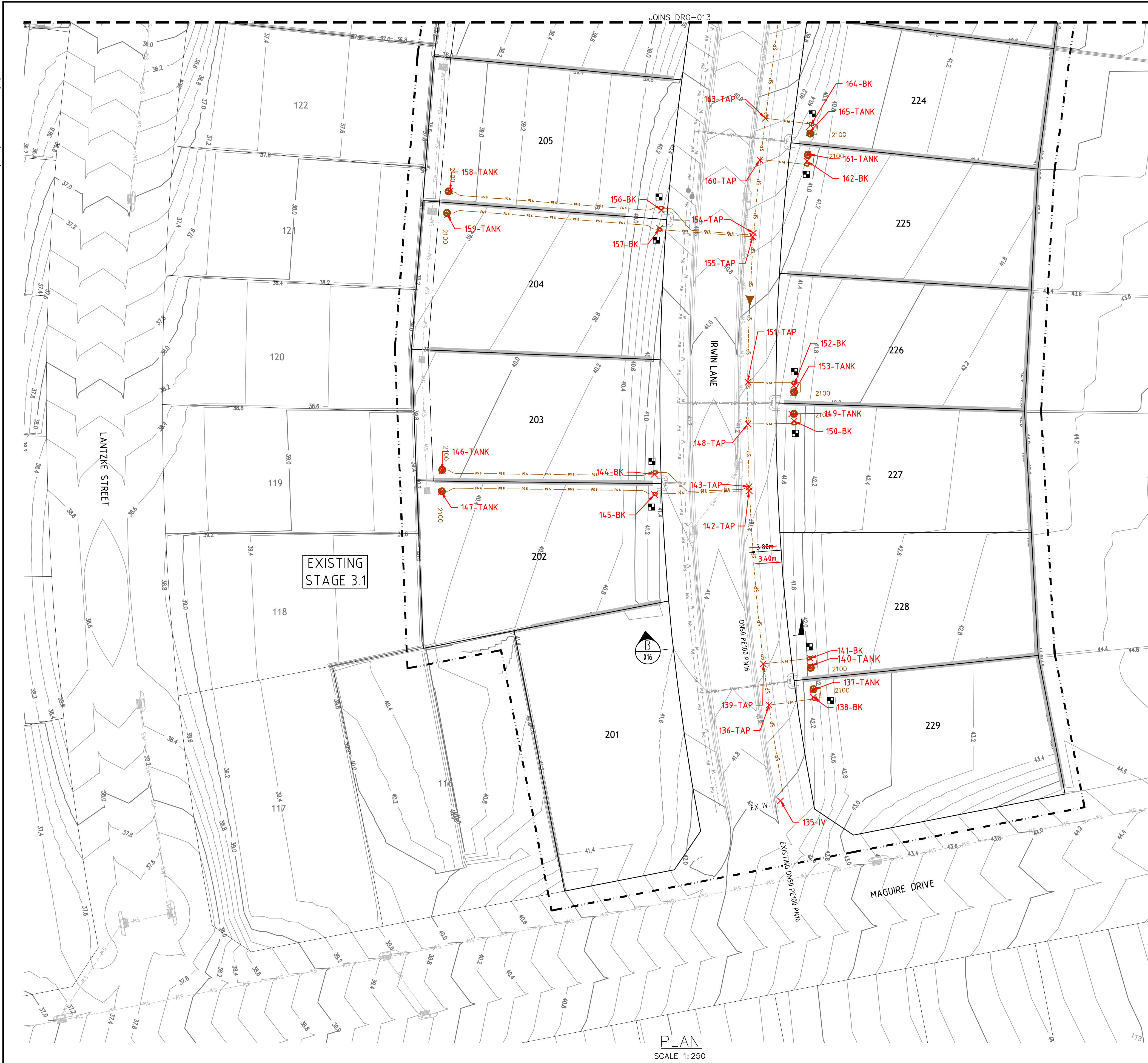
PROPERTY DESCRIPTION
PROPOSED SUBDIVISION STAGE 3.2 WATAGAN PARK

PROJECT	PLAN TITLE
POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION	NOT USED

PROJECT No.	DISCIPLINE	NUMBER	REV.
239078(3.2)	- WAT -	011	2

239078(3.2)WAC-015(2)

100mm AT FULL SIZE



- LEGEND**
- SP-SP PE PRESSURE SEWER RETICULATION
 - PS S PE PRESSURE SEWER PROPERTY SERVICE
 - PVC-M POTABLE WATER RETICULATION
 - PWS PWS POTABLE WATER PROPERTY SERVICE
 - RW RW PVC-M RECYCLED WATER RETICULATION
 - RWS RWS RECYCLED WATER PROPERTY SERVICE
 - EX PS EXISTING PRESSURE SEWER RETICULATION
 - EX PW EXISTING POTABLE WATER RETICULATION
 - EX RW EXISTING RECYCLED WATER RETICULATION
 - SW SW STORMWATER PIPEWORK
 - IV ISOLATION VALVE
 - FP FLUSHING POINT
 - WASTEWATER COLLECTION TANK AND BOUNDARY KIT
 - PRESSURE SEWER FLOW DIRECTION (INTERMEDIATE)
 - PRESSURE SEWER FLOW DIRECTION (ULTIMATE)
 - PROPERTY SERVICE CONNECTION
 - LAY PRESSURE SEWER MAIN UNDER STORMWATER PIPE (300mm MIN. VERTICAL CLEARANCE) - REFER TO WAT-1255-H
 - PROPOSED EASEMENT
 - SUBDIVISION STAGE BOUNDARY

■ PRESSURE SEWER PROPERTY SERVICE CONNECTIONS
 TOTAL 35 CONNECTIONS
 • SINGLE SERVICES
 -21 x SHORT SIDE
 -14 x LONG SIDE

PRESSURE SEWER PIPE DATA		
PIPE SIZE (mm)	PIPE MATERIAL	TOTAL LENGTH (m)
DN50	PE100 SDR11	239
DN75	PE100 SDR11	5
DN90	PE100 SDR11	257
DN125	PE100 SDR11	5
DN160	PE100 SDR11	70
DN180	PE100 SDR11	85

- NOTES:**
- FOR POTABLE WATER PIPEWORK DETAIL PLANS REFER TO DRGS-004 TO 007.
 - FOR RECYCLED WATER PIPEWORK DETAIL PLANS REFER TO DRGS-008 TO 011.
 - FOR TYPICAL SERVICE CONNECTION DETAILS REFER TO DRGS-019 TO 021.
 - FOR FLUSHING POINT TYPICAL DETAILS REFER TO STANDARD DRAWING PSS-1017-FS.
 - FOR FLOW MONITORING POINT TYPICAL DETAILS REFER TO STANDARD DRAWING PSS-1115-FS.
 - CONTRACTOR MAY BEND POLYETHYLENE PIPEWORK IN PLACE OF USING STANDARD FITTINGS WITH A MIN. BENDING RADIUS OF 20 x PIPE DIAM.
 - ALL BENDS SHALL BE ELECTROFUSION SWEEP BENDS (FABRICATED BENDS SHALL NOT BE USED).

WORK-AS-EXECUTED
 I certify that with the exception of the changes marked in RED, the work has been constructed in accordance with this drawing.
 Signed: *M. Harvey* Date: 10/01/2022
 Name: Malcolm Harvey Position: Registered Surveyor

AS CONSTRUCTED

REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY	SCALES
A	16.04.2021	PRELIMINARY ISSUE	T.S.	J.N.	T.S.	R.J.	A1 / A3
B	22.04.2021	CLIENT COMMENTS	T.S.	R.J.	T.S.	R.J.	1:250 / 1:500
C	27.04.2021	ELECTRICAL KIOSK LOCATION AMENDED	T.S.	R.J.	T.S.	R.J.	
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2	09.03.2022	WORK AS CONSTRUCTED	I.B.	S.S.	T.S.	R.J.	

PLAN
SCALE 1:250

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 ABN 62 129 445 398

CLIENT

PROPERTY DESCRIPTION	PROPOSED SUBDIVISION STAGE 3.2 WATAGAN PARK
SURVEYED	ADW Johnson
DATUM	A.H.D.

PROJECT	POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION		
PLAN TITLE	PRESSURE SEWER DETAIL PLAN - SHEET 1		
PROJECT No.	DISCIPLINE	NUMBER	REV.
239078(3.2)	- WAT	- 012	2

239078(3.2)WAC-015(2)

JOINS_DRG-014

100mm AT FULL SIZE

JOINS_DRG-012

SCALE 1:250

REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY	SCALES
A	16.04.2021	PRELIMINARY ISSUE	T.S.	J.N.	T.S.	R.J.	
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2	09.03.2022	WORK AS CONSTRUCTED	I.B.	S.S.	T.S.	R.J.	

DRAWN	CHECK	DESIGN	VERIFY
T.S.	J.N.	T.S.	R.J.
T.S.	R.J.	T.S.	R.J.
T.S.	R.J.	T.S.	R.J.
T.S.	R.J.	T.S.	R.J.
T.S.	R.J.	T.S.	R.J.
T.S.	R.J.	T.S.	R.J.
I.B.	S.S.	T.S.	R.J.

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CLIENT

PROPERTY DESCRIPTION
 PROPOSED SUBDIVISION
 STAGE 3.2
 WATAGAN PARK

PROJECT POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION
 PLAN TITLE PRESSURE SEWER DETAIL PLAN - SHEET 2
 PROJECT No. 239078(3.2) DISCIPLINE WAT NUMBER 013 REV. 2



LEGEND

- SP PE PRESSURE SEWER RETICULATION
- PS S PE PRESSURE SEWER PROPERTY SERVICE
- W PVC-M POTABLE WATER RETICULATION
- PWS POTABLE WATER PROPERTY SERVICE
- RW PVC-M RECYCLED WATER RETICULATION
- RWS RECYCLED WATER PROPERTY SERVICE
- EX PS EXISTING PRESSURE SEWER RETICULATION
- EX PW EXISTING POTABLE WATER RETICULATION
- EX RW EXISTING RECYCLED WATER RETICULATION
- SW STORMWATER PIPEWORK
- IV ISOLATION VALVE
- FP FLUSHING POINT
- WASTEWATER COLLECTION TANK AND BOUNDARY KIT
- PRESSURE SEWER FLOW DIRECTION (INTERMEDIATE)
- PRESSURE SEWER FLOW DIRECTION (ULTIMATE)
- PROPERTY SERVICE CONNECTION
- LAY PRESSURE SEWER MAIN UNDER STORMWATER PIPE (300mm MIN. VERTICAL CLEARANCE) - REFER TO WAT-1255-H
- PROPOSED EASEMENT
- SUBDIVISION STAGE BOUNDARY

PRESSURE SEWER PROPERTY SERVICE CONNECTIONS
 TOTAL 35 CONNECTIONS
 • SINGLE SERVICES -21 x SHORT SIDE
 -14 x LONG SIDE

PRESSURE SEWER PIPE DATA

PIPE SIZE (mm)	PIPE MATERIAL	TOTAL LENGTH (m)
DN50	PE100 SDR11	239
DN75	PE100 SDR11	5
DN90	PE100 SDR11	257
DN125	PE100 SDR11	5
DN160	PE100 SDR11	70
DN180	PE100 SDR11	85

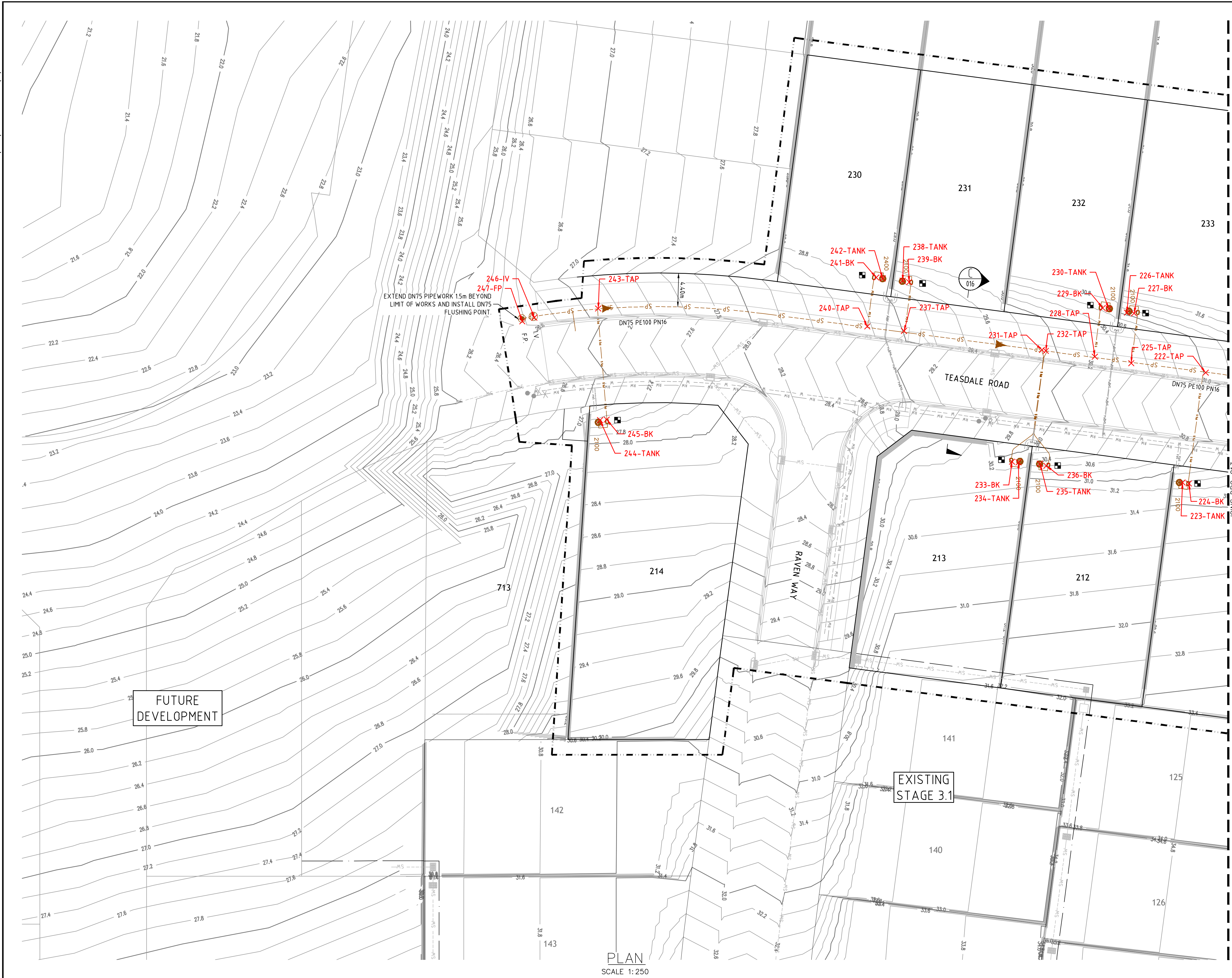
- NOTES:**
- FOR POTABLE WATER PIPEWORK DETAIL PLANS REFER TO DRGS-004 TO 007.
 - FOR RECYCLED WATER PIPEWORK DETAIL PLANS REFER TO DRGS-008 TO 011.
 - FOR TYPICAL SERVICE CONNECTION DETAILS REFER TO DRGS-019 TO 021.
 - FOR FLUSHING POINT TYPICAL DETAILS REFER TO STANDARD DRAWING PSS-107-FS.
 - FOR FLOW MONITORING POINT TYPICAL DETAILS REFER TO STANDARD DRAWING PSS-115-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).

WORK-AS-EXECUTED
 I certify that with the exception of the changes marked in RED, the work has been constructed in accordance with this drawing.
 Signed: Date: 10/01/2022
 Name: Malcolm Harvey Position: Registered Surveyor

AS CONSTRUCTED

239078(3.2)WAC-015(2)

100mm AT FULL SIZE



LEGEND

- SP PE PRESSURE SEWER RETICULATION
- PS PE PRESSURE SEWER PROPERTY SERVICE
- PVC-M POTABLE WATER RETICULATION
- PWS POTABLE WATER PROPERTY SERVICE
- RW PVC-M RECYCLED WATER RETICULATION
- RWS RECYCLED WATER PROPERTY SERVICE
- EX PS EXISTING PRESSURE SEWER RETICULATION
- EX PW EXISTING POTABLE WATER RETICULATION
- EX RW EXISTING RECYCLED WATER RETICULATION
- SW STORMWATER PIPEWORK
- IV ISOLATION VALVE
- FP FLUSHING POINT
- WASTEWATER COLLECTION TANK AND BOUNDARY KIT
- PRESSURE SEWER FLOW DIRECTION (INTERMEDIATE)
- PRESSURE SEWER FLOW DIRECTION (ULTIMATE)
- PROPERTY SERVICE CONNECTION
- LAY PRESSURE SEWER MAIN UNDER STORMWATER PIPE (300mm MIN. VERTICAL CLEARANCE) - REFER TO WAT-1255-H
- PROPOSED EASEMENT
- SUBDIVISION STAGE BOUNDARY

■ PRESSURE SEWER PROPERTY SERVICE CONNECTIONS
 TOTAL 35 CONNECTIONS
 • SINGLE SERVICES
 -21 x SHORT SIDE
 -14 x LONG SIDE

PRESSURE SEWER PIPE DATA		
PIPE SIZE (mm)	PIPE MATERIAL	TOTAL LENGTH (m)
DN50	PE100 SDR11	239
DN75	PE100 SDR11	5
DN90	PE100 SDR11	257
DN125	PE100 SDR11	5
DN160	PE100 SDR11	70
DN180	PE100 SDR11	85

- NOTES:**
- FOR POTABLE WATER PIPEWORK DETAIL PLANS REFER TO DRGS-004 TO 007.
 - FOR RECYCLED WATER PIPEWORK DETAIL PLANS REFER TO DRGS-008 TO 011.
 - FOR TYPICAL SERVICE CONNECTION DETAILS REFER TO DRGS-019 TO 021.
 - FOR FLUSHING POINT TYPICAL DETAILS REFER TO STANDARD DRAWING PSS-1017-FS.
 - FOR FLOW MONITORING POINT TYPICAL DETAILS REFER TO STANDARD DRAWING PSS-1115-FS.
 - CONTRACTOR MAY BEND POLYETHYLENE PIPEWORK IN PLACE OF USING STANDARD FITTINGS WITH A MIN. BENDING RADIUS OF 20 x PIPE DIAM.
 - ALL BENDS SHALL BE ELECTROFUSION SWEEP BENDS (FABRICATED BENDS SHALL NOT BE USED).

WORK-AS-EXECUTED
 I certify that with the exception of the changes marked in RED, the work has been constructed in accordance with this drawing.
 Signed: *M. Harvey* Date: 10/01/2022
 Name: Malcolm Harvey Position: Registered Surveyor

AS CONSTRUCTED

REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY
A	16.04.2021	PRELIMINARY ISSUE	T.S.	J.N.	T.S.	R.J.
B	22.04.2021	CLIENT COMMENTS	T.S.	R.J.	T.S.	R.J.
C	27.04.2021	ELECTRICAL KIOSK LOCATION AMENDED	T.S.	R.J.	T.S.	R.J.
D	29.04.2021	ALTOGETHER COMMENTS	T.S.	R.J.	T.S.	R.J.
O	20.05.2021	CONSTRUCTION ISSUE	T.S.	R.J.	T.S.	R.J.
1	09.06.2021	ELECTRICAL EASEMENT AMENDMENT	T.S.	R.J.	T.S.	R.J.
2	09.03.2022	WORK AS CONSTRUCTED	I.B.	S.S.	T.S.	R.J.

SCALE 1:250

ALL DIMENSIONS ARE IN METRES. DO NOT SCALE

adw Johnson

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

CLIENT

JOHNSON PROPERTY GROUP

PROPERTY DESCRIPTION

PROPOSED SUBDIVISION
 STAGE 3.2
 WATAGAN PARK

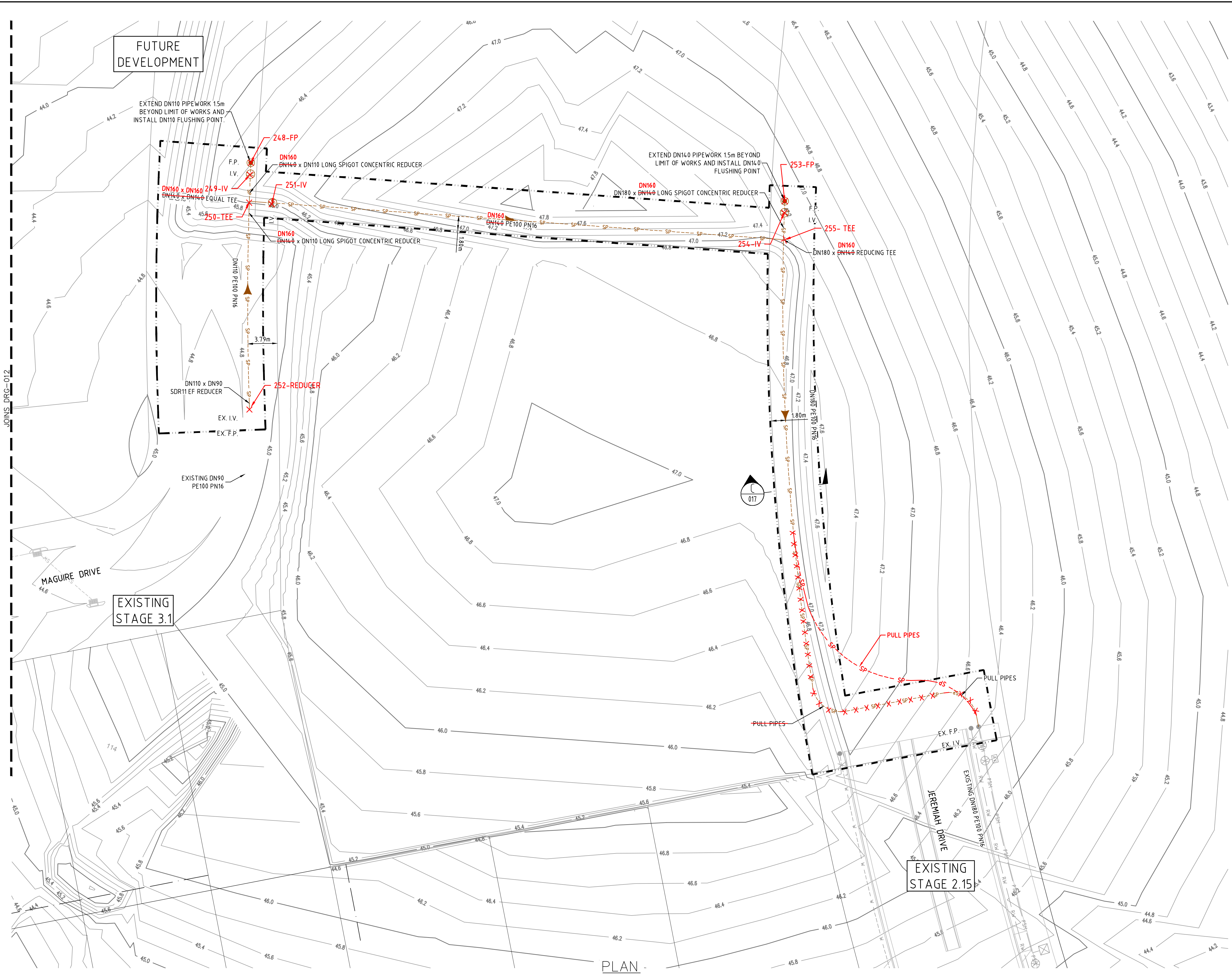
SURVEYED ADW Johnson DATUM A.H.D.

PROJECT POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION

PLAN TITLE PRESSURE SEWER DETAIL PLAN - SHEET 3

PROJECT No. 239078(3.2) DISCIPLINE WAT NUMBER 014 REV. 2

239078(3.2)WAC-015(2)



LEGEND

- SP PE PRESSURE SEWER RETICULATION
- PS S PE PRESSURE SEWER PROPERTY SERVICE
- W PVC-M POTABLE WATER RETICULATION
- PWS POTABLE WATER PROPERTY SERVICE
- RW PVC-M RECYCLED WATER RETICULATION
- RWS RECYCLED WATER PROPERTY SERVICE
- EX PS EXISTING PRESSURE SEWER RETICULATION
- EX PW EXISTING POTABLE WATER RETICULATION
- EX RW EXISTING RECYCLED WATER RETICULATION
- SW STORMWATER PIPEWORK
- IV ISOLATION VALVE
- FP FLUSHING POINT
- WASTEWATER COLLECTION TANK AND BOUNDARY KIT
- PRESSURE SEWER FLOW DIRECTION (INTERMEDIATE)
- PRESSURE SEWER FLOW DIRECTION (ULTIMATE)
- PROPERTY SERVICE CONNECTION
- LAY PRESSURE SEWER MAIN UNDER STORMWATER PIPE (300mm MIN. VERTICAL CLEARANCE) - REFER TO WAT-1255-H
- PROPOSED EASEMENT
- SUBDIVISION STAGE BOUNDARY

■ PRESSURE SEWER PROPERTY SERVICE CONNECTIONS
 TOTAL 35 CONNECTIONS
 • SINGLE SERVICES
 - 21 x SHORT SIDE
 - 14 x LONG SIDE

PRESSURE SEWER PIPE DATA		
PIPE SIZE (mm)	PIPE MATERIAL	TOTAL LENGTH (m)
DN50	PE100 SDR11	239
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- NOTES:**
- FOR POTABLE WATER PIPEWORK DETAIL PLANS REFER TO DRGS-004 TO 007.
 - FOR RECYCLED WATER PIPEWORK DETAIL PLANS REFER TO DRGS-008 TO 011.
 - FOR TYPICAL SERVICE CONNECTION DETAILS REFER TO DRGS-019 TO 021.
 - FOR FLUSHING POINT TYPICAL DETAILS REFER TO STANDARD DRAWING PSS-107-FS.
 - FOR FLOW MONITORING POINT TYPICAL DETAILS REFER TO STANDARD DRAWING PSS-115-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).**

WORK-AS-EXECUTED
 I certify that with the exception of the changes marked in RED, the work has been constructed in accordance with this drawing.
 Signed: *M. Harvey* Date: 10/01/2022
 Name: Malcolm Harvey Position: Registered Surveyor

AS CONSTRUCTED

PLAN SCALE 1:250

REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY	SCALES
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adw Johnson
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 email: hunter@adwjohnson.com.au
 www.adwjohnson.com.au
 ABN 62 129 445 398

CLIENT

JOHNSON PROPERTY GROUP

PROPERTY DESCRIPTION
 PROPOSED SUBDIVISION
 STAGE 3.2
 WATAGAN PARK

PROJECT	POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION		
PLAN TITLE	PRESSURE SEWER DETAIL PLAN - SHEET 4		
PROJECT No.	DISCIPLINE	NUMBER	REV.
239078(3.2)	- WAT -	015	2

WAC WATER TABLE

Table with 4 columns: POINT, EASTING, NORTHING, FITTING. Contains 70 rows of data for water infrastructure points.

NOTE: REFER SHEETS 004 TO 006

WAC REC-WATER TABLE

Table with 4 columns: POINT, EASTING, NORTHING, FITTING. Contains 14 rows of data for recycled water infrastructure points.

NOTE: REFER SHEETS 008 TO 010

WAC SEWER TABLE

Table with 4 columns: POINT, EASTING, NORTHING, FITTING. Contains 166 rows of data for sewer infrastructure points.

NOTE: REFER SHEETS 012 TO 015

WAC SEWER TABLE

Table with 4 columns: POINT, EASTING, NORTHING, FITTING. Contains 255 rows of data for sewer infrastructure points.

NOTE: REFER SHEETS 012 TO 015



DIAL 1100 BEFORE YOU DIG

WORK-AS-EXECUTED stamp with signature of Malcolm Harvey, Date: 10/01/2022, Position: Registered Surveyor.

AS CONSTRUCTED

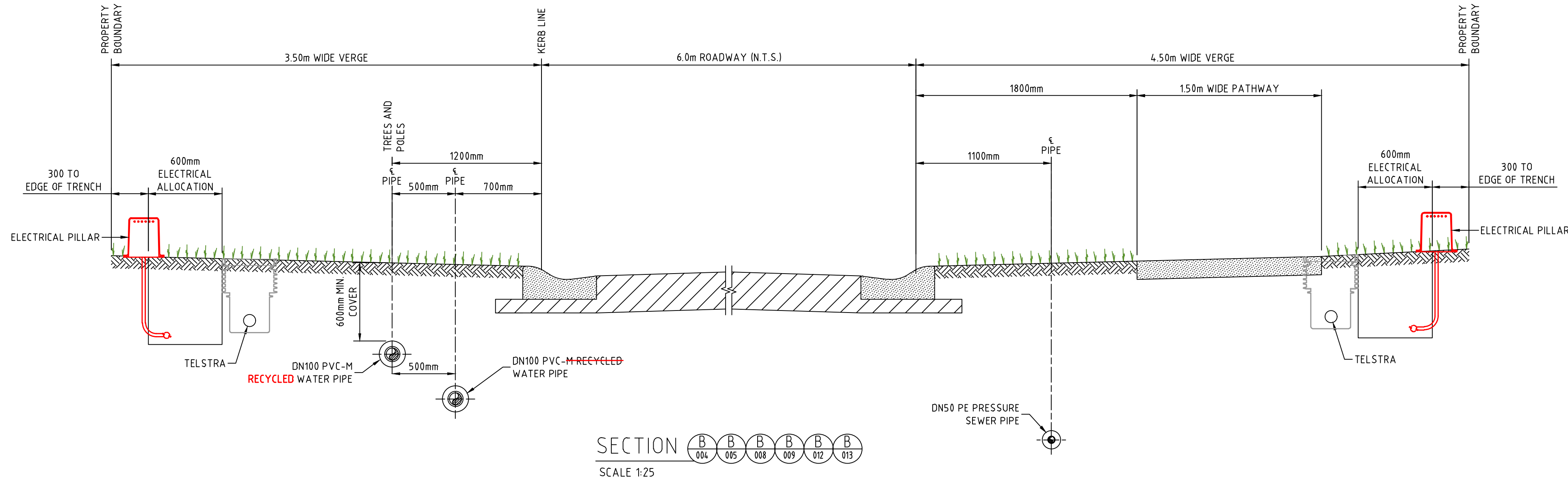
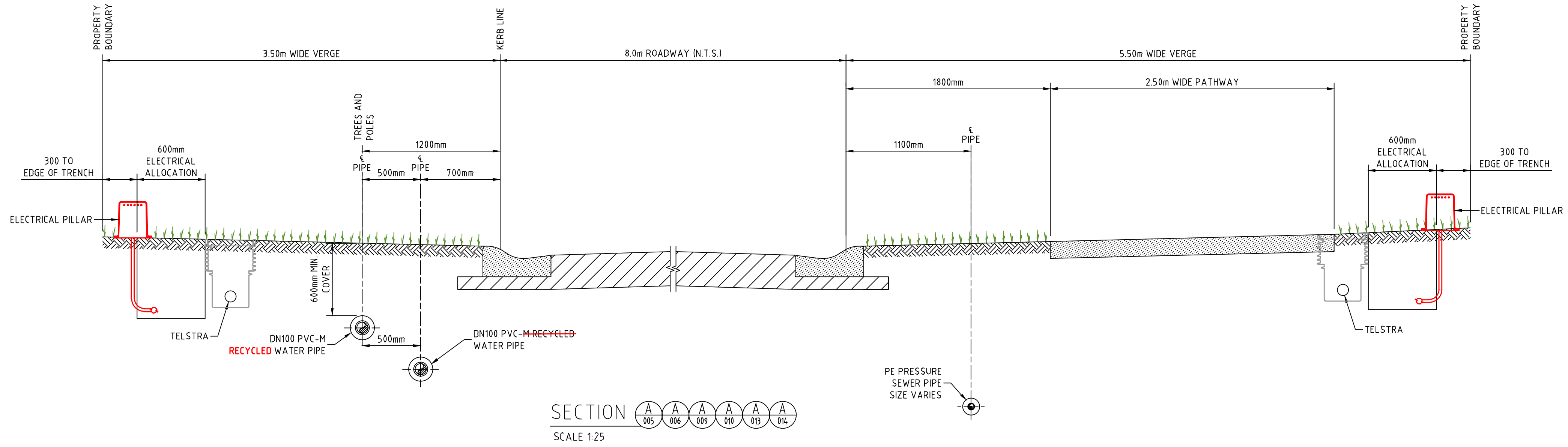
Revision table with columns: REV., DATE, AMENDMENT, DRAWN, CHECK, DESIGN, VERIFY, SCALES.

adw Johnson logo and Hunter Office contact information.

JOHNSON PROPERTY GROUP logo.

Table with columns: SURVEYED, DATUM, PROJECT DESCRIPTION, PROJECT, PLAN TITLE.

Table with columns: PROJECT No., DISCIPLINE, NUMBER, REV.



NOTES:

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

WORK-AS-EXECUTED
I certify that with the exception of the changes marked in RED, the work has been constructed in accordance with this drawing.
Signed: *M Harvey* Date: 10/01/2022
Name: Malcolm Harvey Position: Registered Surveyor

AS CONSTRUCTED

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SCALE
0 0.1 0.2 0.3 0.4 A1 / A3 1:10 / 1:20

ALL DIMENSIONS ARE IN METRES. DO NOT SCALE

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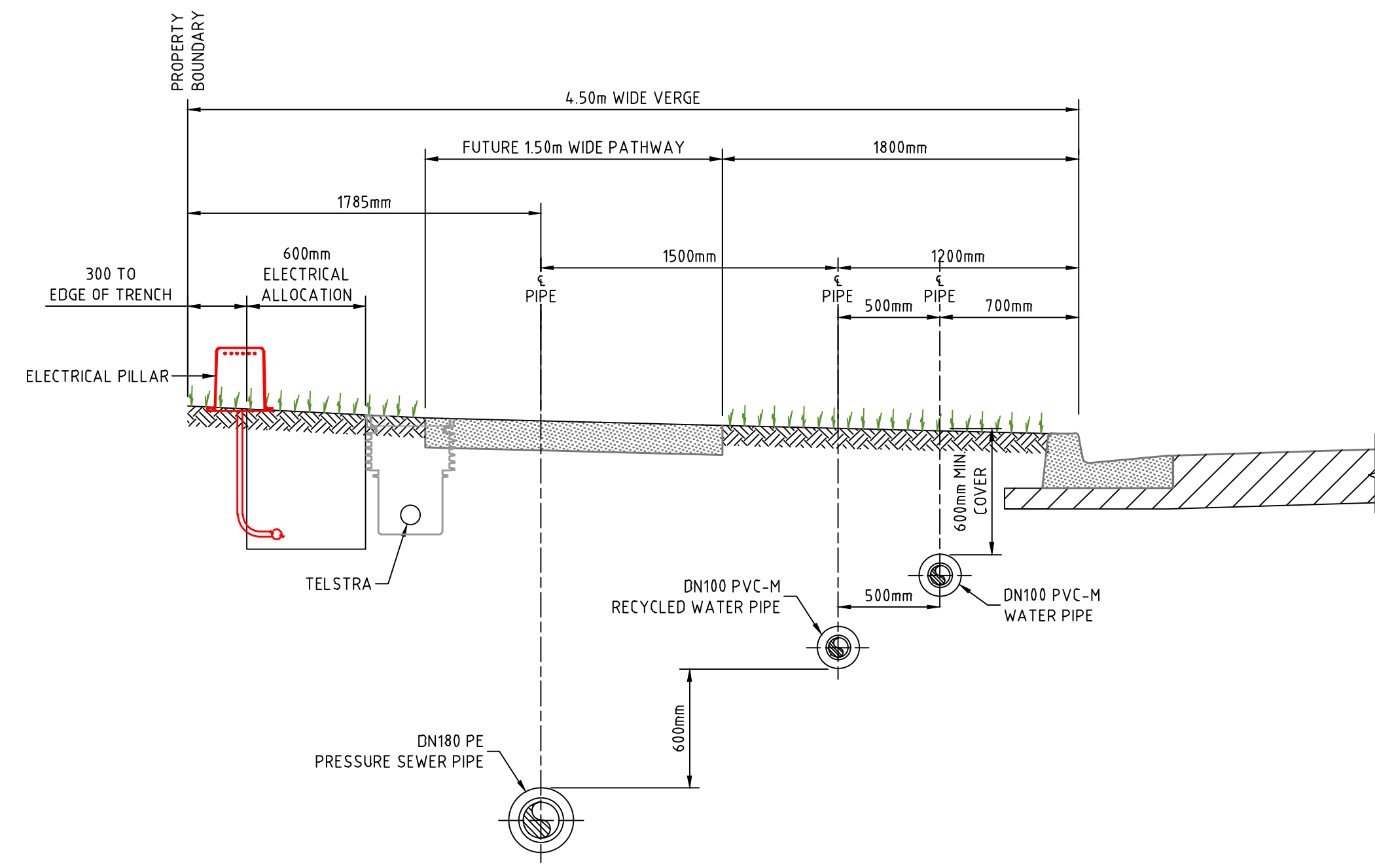
CLIENT
JOHNSON PROPERTY GROUP

PROPERTY DESCRIPTION
PROPOSED SUBDIVISION
STAGE 3.2
WATAGAN PARK

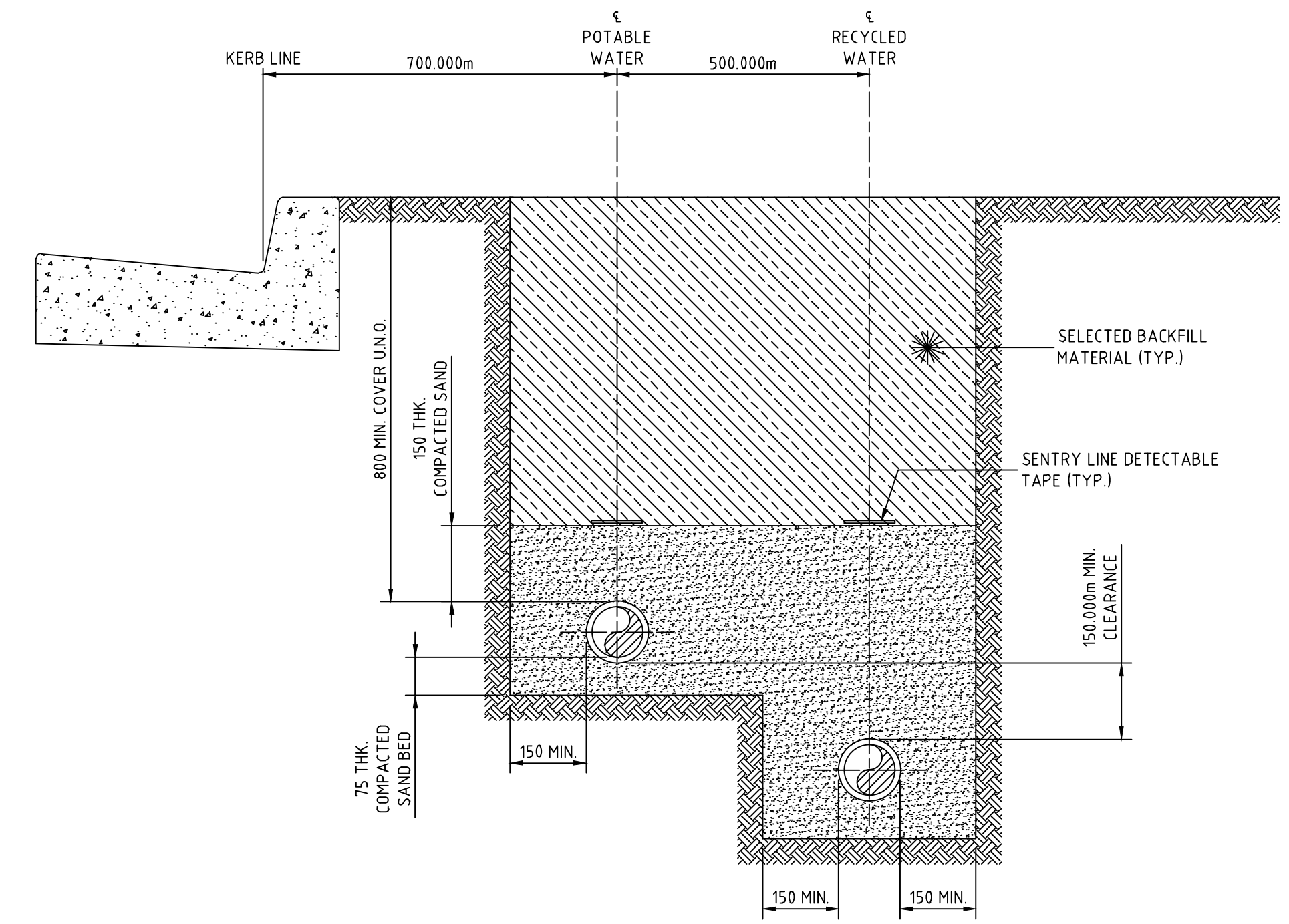
SURVEYED
ADW Johnson

DATUM
A.H.D.

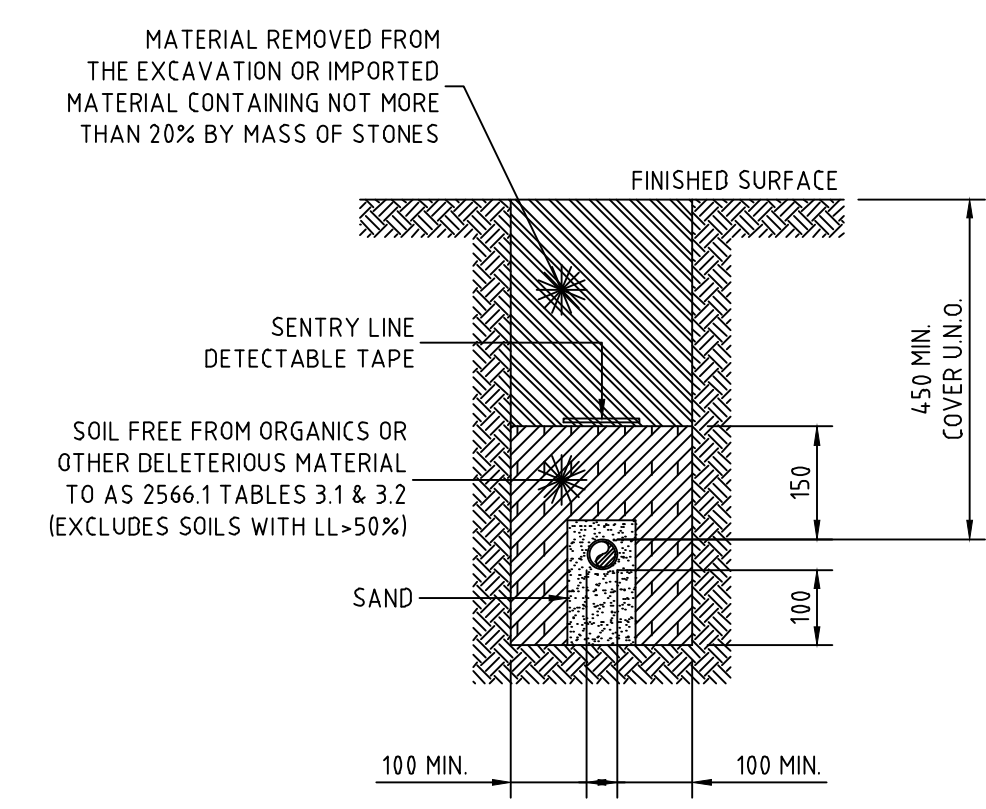
PROJECT	PLAN TITLE
POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION	TYPICAL CROSS SECTIONS - A & B
PROJECT No. 239078(3.2)	DISCIPLINE - WAT -
NUMBER 017	REV. 2



SECTION 007 011 015
SCALE 1:25



STREET PRESSURE MAIN
TYPICAL DETAIL
SCALE 1:10



PRIVATE PROPERTY PRESSURE MAIN
TYPICAL DETAIL
SCALE 1:10

WORK-AS-EXECUTED
I certify that with the exception of the changes marked in RED, the work has been constructed in accordance with this drawing.
Signed: *Malcolm Harvey* Date: 10/01/2022
Name: Malcolm Harvey Position: Registered Surveyor

AS CONSTRUCTED

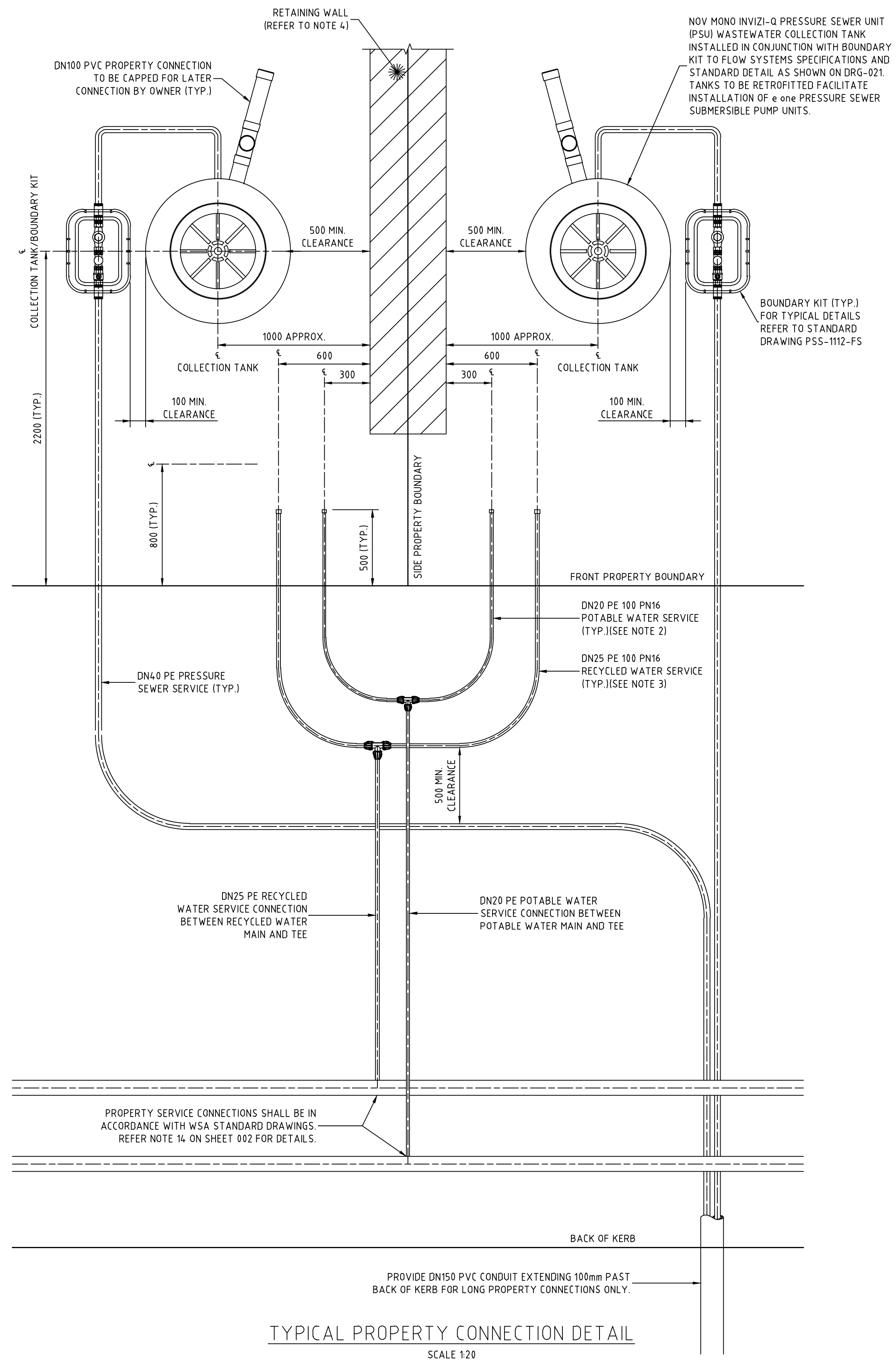
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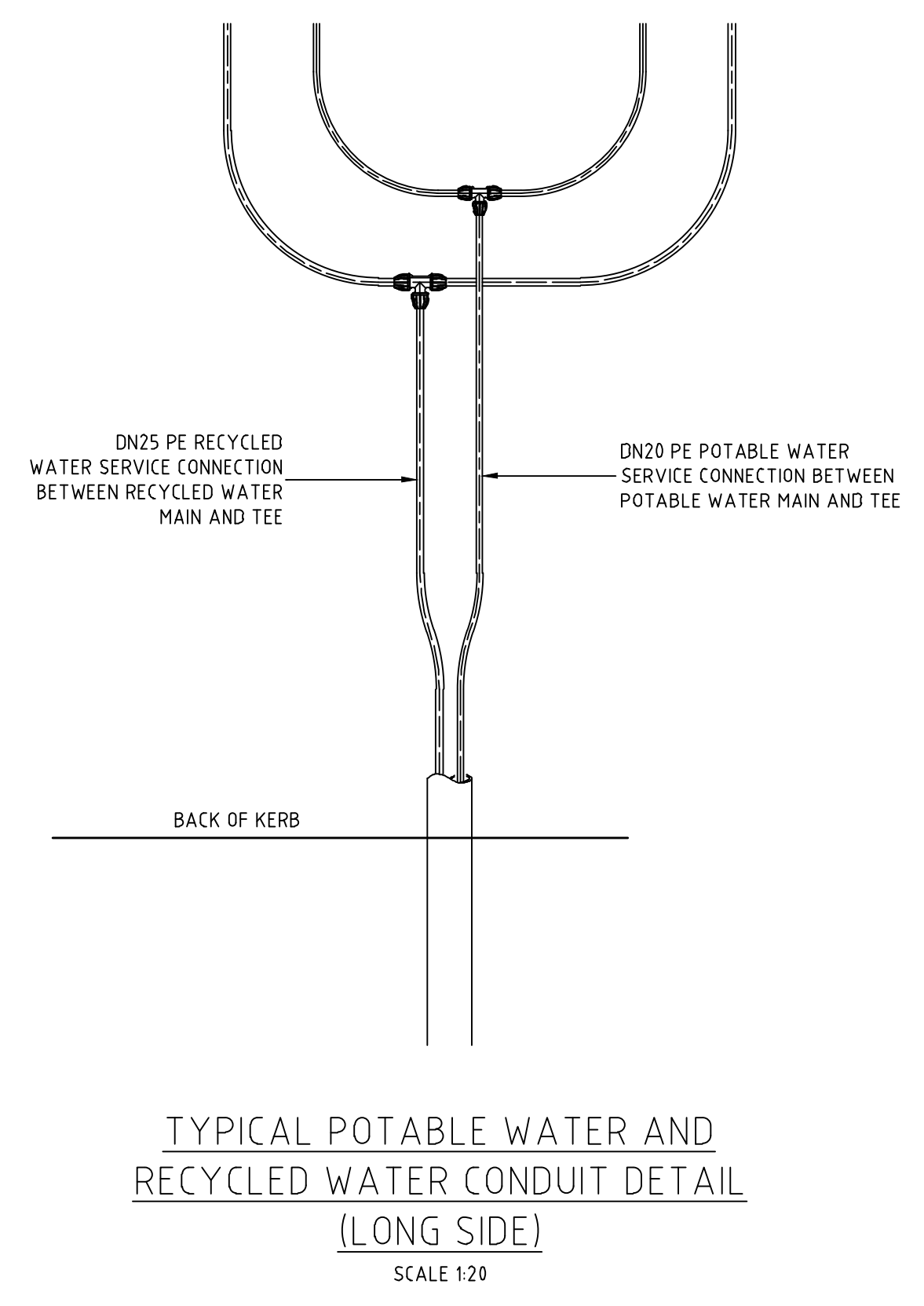
CLIENT
JOHNSON PROPERTY GROUP

PROPERTY DESCRIPTION
PROPOSED SUBDIVISION
STAGE 3.2
WATAGAN PARK

PROJECT	POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION		
PLAN TITLE	TYPICAL PIPEWORK TRENCHING DETAILS		
PROJECT No.	DISCIPLINE	NUMBER	REV.
239078(3.2)	- WAT -	018	2



- 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 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.

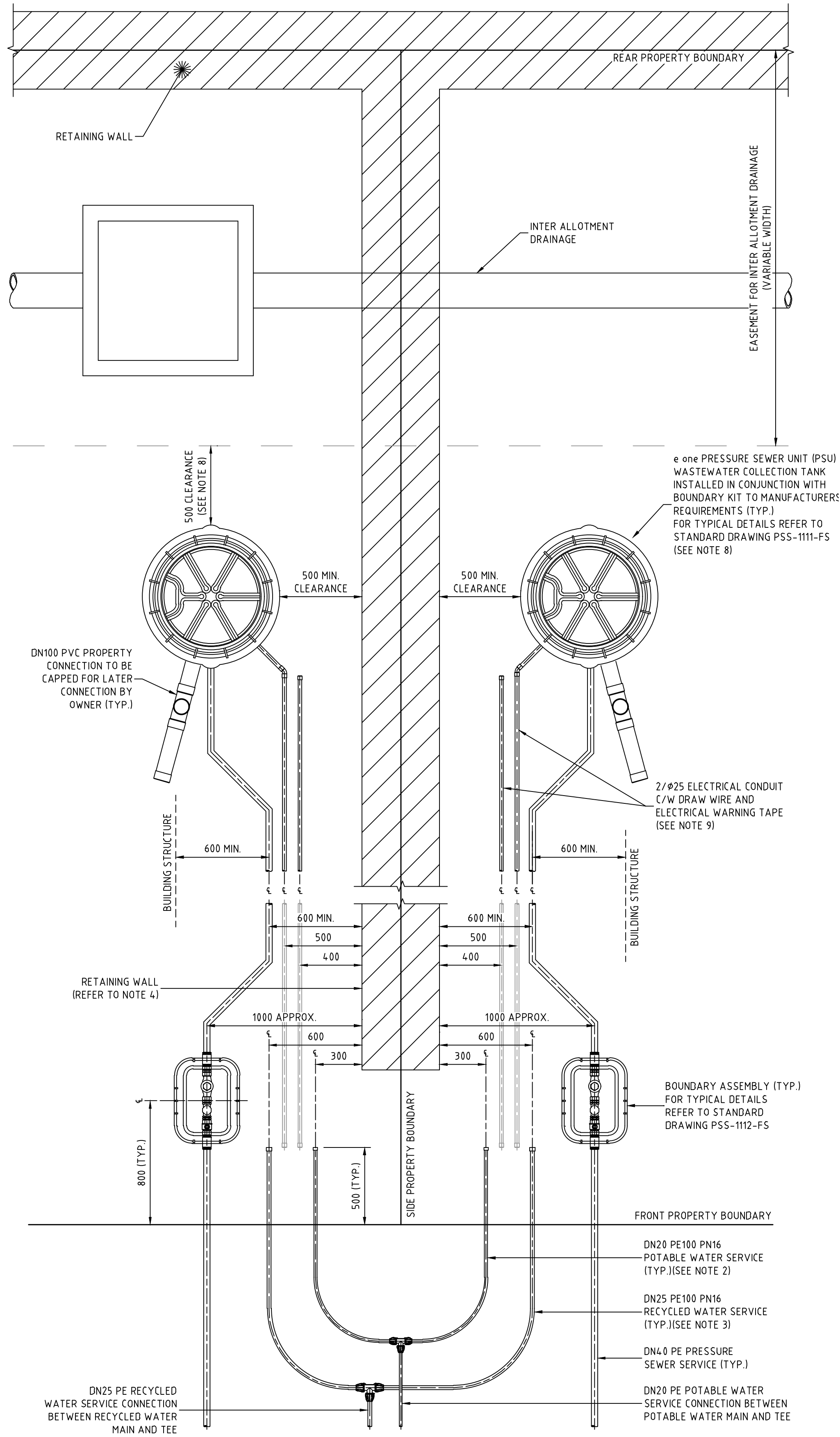


WORK-AS-EXECUTED
 I certify that with the exception of the changes marked in RED, the work has been constructed in accordance with this drawing.
 Signed: *M. Harvey* Date: 10/01/2022
 Name: Malcolm Harvey Position: Registered Surveyor

AS CONSTRUCTED

100mm AT FULL SIZE

<table border="1"> <thead> <tr> <th>REV.</th> <th>DATE</th> <th>AMENDMENT</th> <th>DRAWN</th> <th>CHECK</th> <th>DESIGN</th> <th>VERIFY</th> </tr> </thead> <tbody> <tr> <td>A</td> <td>16.04.2021</td> <td>PRELIMINARY ISSUE</td> <td>T.S.</td> <td>J.N.</td> <td>T.S.</td> <td>R.J.</td> </tr> <tr> <td>B</td> <td>22.04.2021</td> <td>CLIENT COMMENTS</td> <td>T.S.</td> <td>R.J.</td> <td>T.S.</td> <td>R.J.</td> </tr> <tr> <td>C</td> <td>27.04.2021</td> <td>ELECTRICAL KIOSK LOCATION AMENDED</td> <td>T.S.</td> <td>R.J.</td> <td>T.S.</td> <td>R.J.</td> </tr> <tr> <td>D</td> <td>29.04.2021</td> <td>ALTOGETHER COMMENTS</td> <td>T.S.</td> <td>R.J.</td> <td>T.S.</td> <td>R.J.</td> </tr> <tr> <td>O</td> <td>20.05.2021</td> <td>CONSTRUCTION ISSUE</td> <td>T.S.</td> <td>R.J.</td> <td>T.S.</td> <td>R.J.</td> </tr> <tr> <td>1</td> <td>09.06.2021</td> <td>ELECTRICAL EASEMENT AMENDMENT</td> <td>T.S.</td> <td>R.J.</td> <td>T.S.</td> <td>R.J.</td> </tr> <tr> <td>2</td> <td>09.03.2022</td> <td>WORK AS CONSTRUCTED</td> <td>I.B.</td> <td>S.S.</td> <td>T.S.</td> <td>R.J.</td> </tr> </tbody> </table>	REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY	A	16.04.2021	PRELIMINARY ISSUE	T.S.	J.N.	T.S.	R.J.	B	22.04.2021	CLIENT COMMENTS	T.S.	R.J.	T.S.	R.J.	C	27.04.2021	ELECTRICAL KIOSK LOCATION AMENDED	T.S.	R.J.	T.S.	R.J.	D	29.04.2021	ALTOGETHER COMMENTS	T.S.	R.J.	T.S.	R.J.	O	20.05.2021	CONSTRUCTION ISSUE	T.S.	R.J.	T.S.	R.J.	1	09.06.2021	ELECTRICAL EASEMENT AMENDMENT	T.S.	R.J.	T.S.	R.J.	2	09.03.2022	WORK AS CONSTRUCTED	I.B.	S.S.	T.S.	R.J.	<p>0 0.4 0.8 A1 / A3 1:20 / 1:40</p>	<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>CLIENT</p>	<p>PROPERTY DESCRIPTION</p> <p>PROPOSED SUBDIVISION STAGE 3.2 WATAGAN PARK</p>	<p>PROJECT POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION</p> <p>PLAN TITLE</p> <p>TYPICAL PROPERTY CONNECTION - SHEET 1</p>	<table border="1"> <tr> <td>SURVEYED</td> <td>DATUM</td> <td>PROJECT No.</td> <td>DISCIPLINE</td> <td>NUMBER</td> <td>REV.</td> </tr> <tr> <td>ADW Johnson</td> <td>A.H.D.</td> <td>239078(3.2)</td> <td>- WAT -</td> <td>019</td> <td>2</td> </tr> </table>	SURVEYED	DATUM	PROJECT No.	DISCIPLINE	NUMBER	REV.	ADW Johnson	A.H.D.	239078(3.2)	- WAT -	019	2
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TYPICAL PROPERTY CONNECTION DETAIL
(PRESSURE SEWER UNIT AT REAR)
SCALE 1:20

WORK-AS-EXECUTED
I certify that with the exception of the changes marked in RED, the work has been constructed in accordance with this drawing.
Signed: *M. Harvey* Date: 10/01/2022
Name: Malcolm Harvey Position: Registered Surveyor

AS CONSTRUCTED

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SCALE
0 0.1 0.2 0.3 0.4 A1 / A3 1:10 / 1:20
0 0.4 0.8 A1 / A3 1:20 / 1:40

adw Johnson

Hunter Office
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CLIENT

JOHNSON PROPERTY GROUP

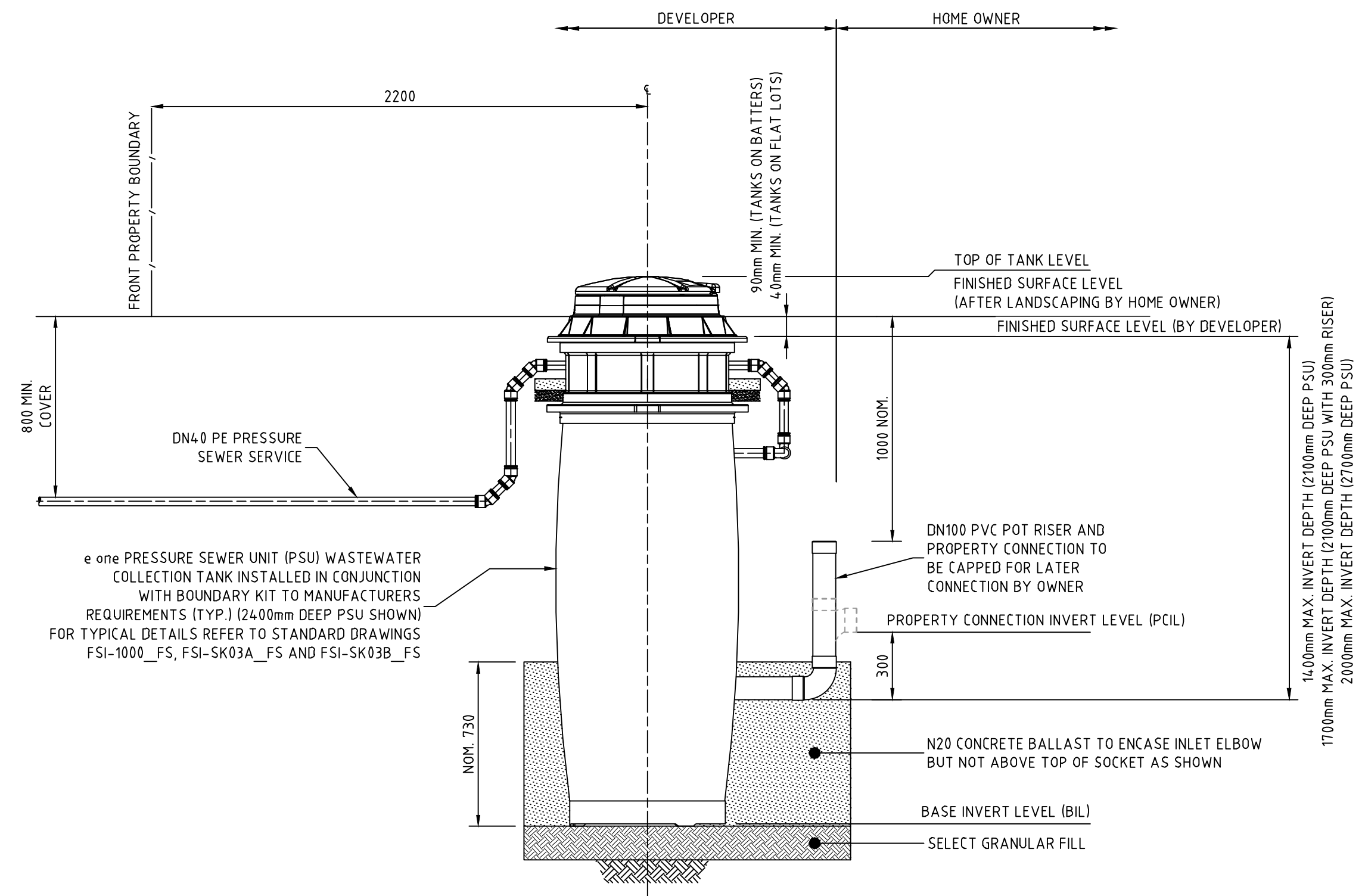
PROPERTY DESCRIPTION
PROPOSED SUBDIVISION STAGE 3.2 WATAGAN PARK

PROJECT	PLAN TITLE
POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION	TYPICAL PROPERTY CONNECTION - SHEET 2

PROJECT No.	DISCIPLINE	NUMBER	REV.
239078(3.2)	- WAT -	020	2



WASTEWATER COLLECTION TANK DETAILS								TOP OF COLLECTION TANK LID	CALCULATED WAC SANITARY DRAINAGE INVERT LEVEL	WAC V'S DESIGN INVERT LEVEL COMPARISON
LOT NUMBER	TOP OF TANK	BASE IL	CONNECTION IL	TANK HEIGHT	TANK LOCATION	EASTING	NORTHING			
LOT 201 SERVICED IN STAGE 31										
202	40.40	38.27	39.17	2100	REAR	355667.924	6341117.303	40.60	39.28	0.11
203	40.03	37.90	38.80	2100	REAR	355666.913	6341119.698	40.26	38.94	0.14
204	39.41	37.28	38.18	2100	REAR	355655.081	6341148.368	39.58	38.27	0.09
205	38.95	36.82	37.72	2100	REAR	355654.234	6341150.827	39.17	37.85	0.13
206	37.96	35.83	36.73	2100	REAR	355644.957	6341180.111	38.21	36.89	0.16
207	37.08	34.95	35.85	2100	REAR	355644.243	6341182.611	37.31	35.99	0.14
208	36.27	34.14	35.04	2100	FRONT	355640.791	6341224.740	36.55	35.23	0.19
209 EAST	35.81	33.68	34.58	2100	FRONT	355717.220	6341115.509	35.96	34.64	0.06
209 WEST	34.86	32.73	33.63	2100	FRONT	355521.840	6341213.002	35.07	33.76	0.13
210	34.37	32.24	33.14	2100	FRONT	355638.291	6341224.026	34.54	33.23	0.09
211	31.52	29.39	30.29	2100	FRONT	355621.561	6341219.244	31.75	30.44	0.15
212	30.63	28.50	29.40	2100	FRONT	355619.061	6341218.530	30.77	29.45	0.05
213	30.21	28.08	28.98	2100	FRONT	355568.192	6341203.992	30.47	29.15	0.17
214	27.58	25.45	26.35	2100	FRONT	355550.405	6341198.909	27.78	26.47	0.12
215	34.83	32.70	33.60	2100	FRONT	355547.905	6341198.195	35.00	33.68	0.08
216	35.33	33.20	34.10	2100	FRONT	355495.124	6341180.839	35.53	34.21	0.11
217	36.94	34.51	35.41	2400	FRONT	355509.917	6341209.595	37.09	35.18	-0.23
218	37.46	35.33	36.23	2100	FRONT	355524.340	6341213.717	37.67	36.35	-0.12
219	38.91	36.48	37.38	2400	FRONT	355647.797	6341248.999	39.00	37.08	-0.30
220	39.35	37.22	38.12	2100	FRONT	355553.185	6341221.960	39.49	38.17	0.05
221	38.13	36.00	36.90	2100	FRONT	355680.488	6341258.341	38.23	36.92	0.02
222	38.81	36.68	37.58	2100	FRONT	355584.915	6341231.028	38.92	37.60	0.02
223	39.28	37.15	38.05	2100	FRONT	355615.106	6341239.656	39.45	38.14	0.09
224	40.64	38.51	39.41	2100	FRONT	355617.606	6341240.371	40.79	39.47	0.06
225	40.90	38.77	39.67	2100	FRONT	355635.874	6341245.591	41.04	39.72	0.05
226	41.66	39.53	40.43	2100	FRONT	355650.297	6341249.713	41.86	40.55	0.12
227	41.84	39.71	40.61	2100	FRONT	355664.720	6341253.835	41.98	40.67	0.06
228	42.15	40.02	40.92	2100	FRONT	355682.988	6341259.056	42.30	40.99	0.07
229	42.35	40.22	41.12	2100	FRONT	355678.996	6341218.237	42.43	41.12	0.00
230	29.01	26.58	27.48	2400	FRONT	355683.115	6341203.814	29.28	27.37	-0.11
231	29.52	27.39	28.29	2100	FRONT	355683.829	6341201.314	29.86	28.54	0.25
232	30.76	28.63	29.53	2100	FRONT	355691.460	6341174.611	30.85	29.53	0.00
233	31.24	29.11	30.01	2100	FRONT	355692.216	6341172.123	31.43	30.11	0.10
234	32.68	30.55	31.45	2100	FRONT	355702.112	6341165.205	32.89	31.57	0.12
235	33.16	31.03	31.93	2100	FRONT	355703.134	6341162.813	33.40	32.08	0.15



PRESSURE SEWER SERVICE CONNECTION
TYPICAL SECTIONAL ELEVATION
SCALE 1:20

WORK-AS-EXECUTED
I certify that with the exception of the changes marked in RED, the work has been constructed in accordance with this drawing.
Signed: *M. Harvey* Date: 10/01/2022
Name: Malcolm Harvey Position: Registered Surveyor

AS CONSTRUCTED

100mm AT FULL SIZE

<table border="1"> <thead> <tr> <th>REV.</th> <th>DATE</th> <th>AMENDMENT</th> <th>DRAWN</th> <th>CHECK</th> <th>DESIGN</th> <th>VERIFY</th> </tr> </thead> <tbody> <tr><td>A</td><td>16.04.2021</td><td>PRELIMINARY ISSUE</td><td>T.S.</td><td>J.N.</td><td>T.S.</td><td>R.J.</td></tr> <tr><td>B</td><td>22.04.2021</td><td>CLIENT COMMENTS</td><td>T.S.</td><td>R.J.</td><td>T.S.</td><td>R.J.</td></tr> <tr><td>C</td><td>27.04.2021</td><td>ELECTRICAL KIOSK LOCATION AMENDED</td><td>T.S.</td><td>R.J.</td><td>T.S.</td><td>R.J.</td></tr> <tr><td>D</td><td>29.04.2021</td><td>ALTOGETHER COMMENTS</td><td>T.S.</td><td>R.J.</td><td>T.S.</td><td>R.J.</td></tr> <tr><td>O</td><td>20.05.2021</td><td>CONSTRUCTION ISSUE</td><td>T.S.</td><td>R.J.</td><td>T.S.</td><td>R.J.</td></tr> <tr><td>1</td><td>09.06.2021</td><td>ELECTRICAL EASEMENT AMENDMENT</td><td>T.S.</td><td>R.J.</td><td>T.S.</td><td>R.J.</td></tr> <tr><td>2</td><td>09.03.2022</td><td>WORK AS CONSTRUCTED</td><td>I.B.</td><td>S.S.</td><td>T.S.</td><td>R.J.</td></tr> </tbody> </table>	REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY	A	16.04.2021	PRELIMINARY ISSUE	T.S.	J.N.	T.S.	R.J.	B	22.04.2021	CLIENT COMMENTS	T.S.	R.J.	T.S.	R.J.	C	27.04.2021	ELECTRICAL KIOSK LOCATION AMENDED	T.S.	R.J.	T.S.	R.J.	D	29.04.2021	ALTOGETHER COMMENTS	T.S.	R.J.	T.S.	R.J.	O	20.05.2021	CONSTRUCTION ISSUE	T.S.	R.J.	T.S.	R.J.	1	09.06.2021	ELECTRICAL EASEMENT AMENDMENT	T.S.	R.J.	T.S.	R.J.	2	09.03.2022	WORK AS CONSTRUCTED	I.B.	S.S.	T.S.	R.J.	<p>0 0.4 0.8 A1 / A3 1:20 / 1:40</p>	<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>CLIENT</p>	<p>PROPERTY DESCRIPTION</p> <p>PROPOSED SUBDIVISION STAGE 3.2 WATAGAN PARK</p>	<p>PROJECT POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION</p> <p>PLAN TITLE SEWER SERVICE CONNECTION DETAILS</p>	<table border="1"> <tr> <th>SURVEYED</th> <th>DATUM</th> <th>PROJECT No.</th> <th>DISCIPLINE</th> <th>NUMBER</th> <th>REV.</th> </tr> <tr> <td>ADW Johnson</td> <td>A.H.D.</td> <td>239078(3.2)</td> <td>- WAT -</td> <td>021</td> <td>2</td> </tr> </table>	SURVEYED	DATUM	PROJECT No.	DISCIPLINE	NUMBER	REV.	ADW Johnson	A.H.D.	239078(3.2)	- WAT -	021	2
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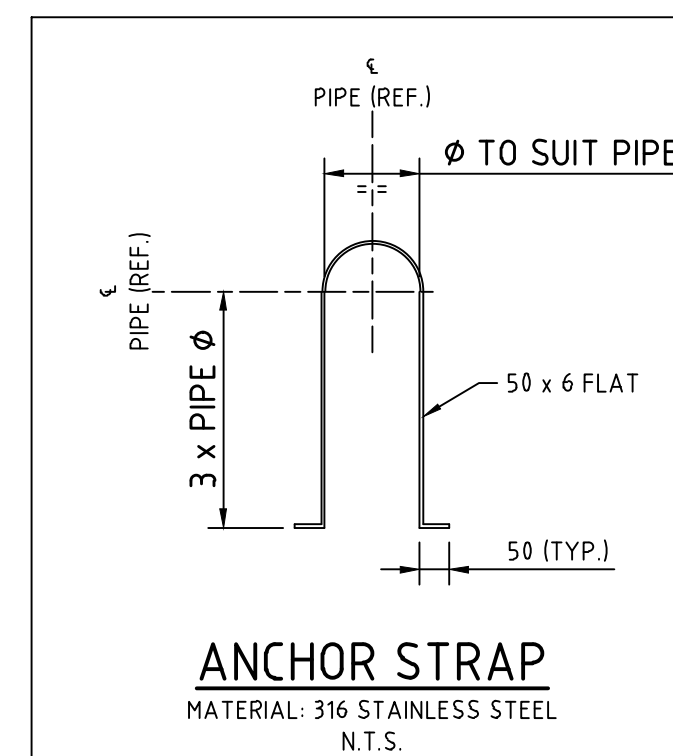
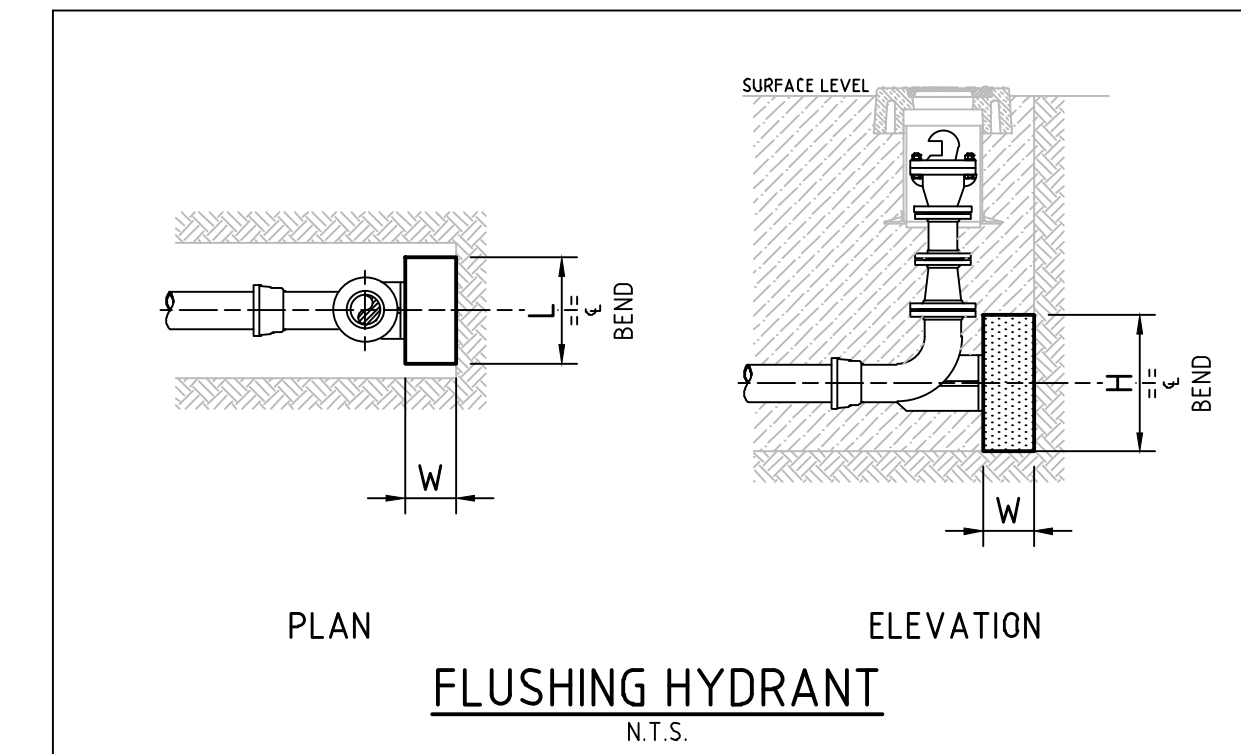
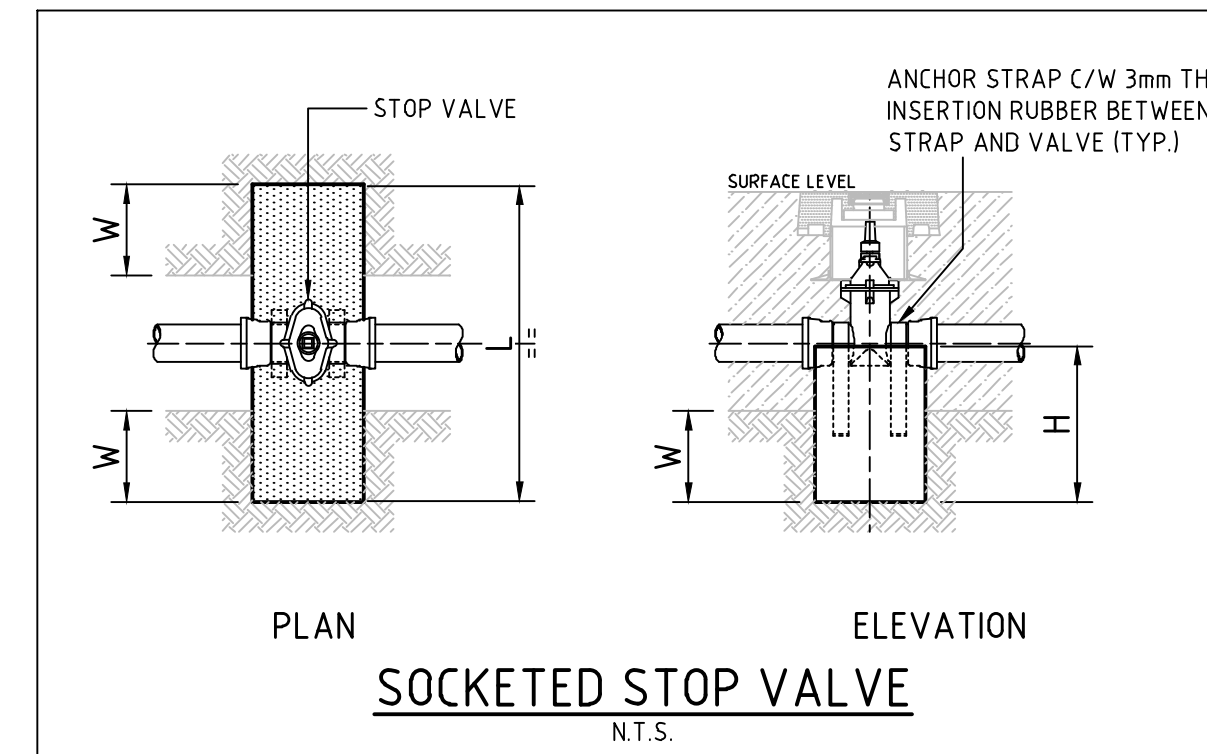
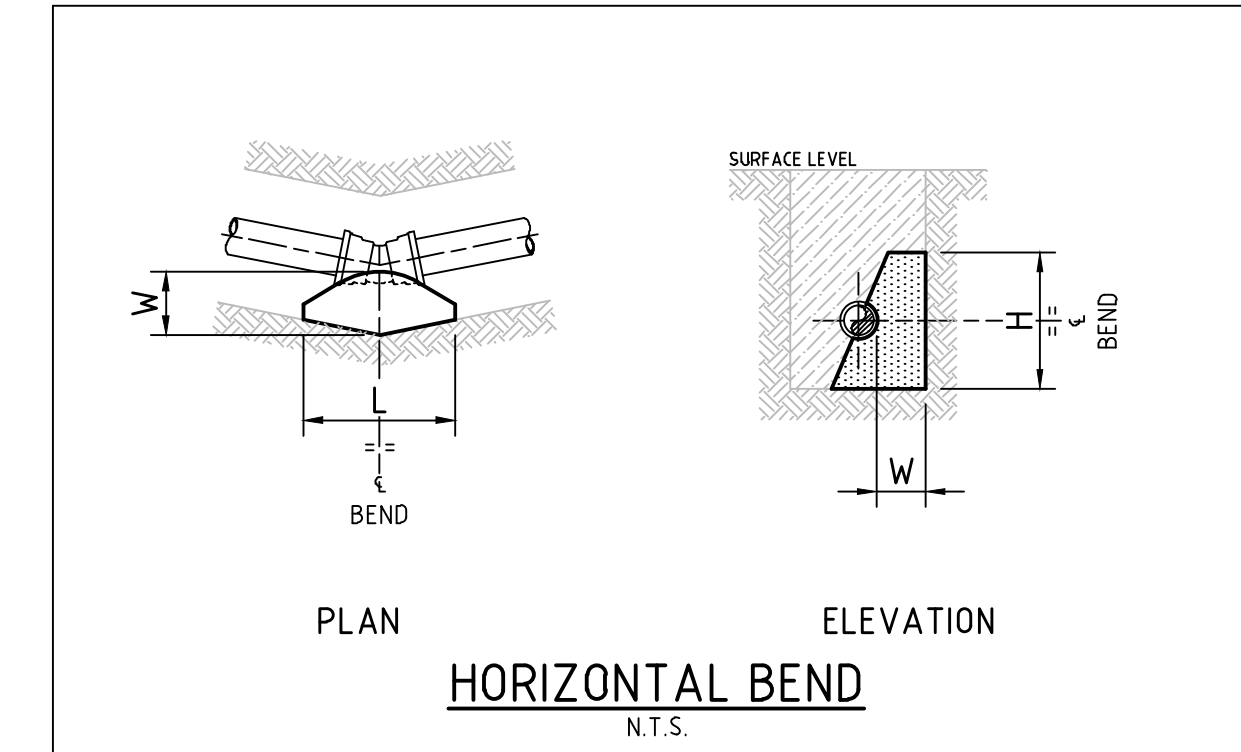
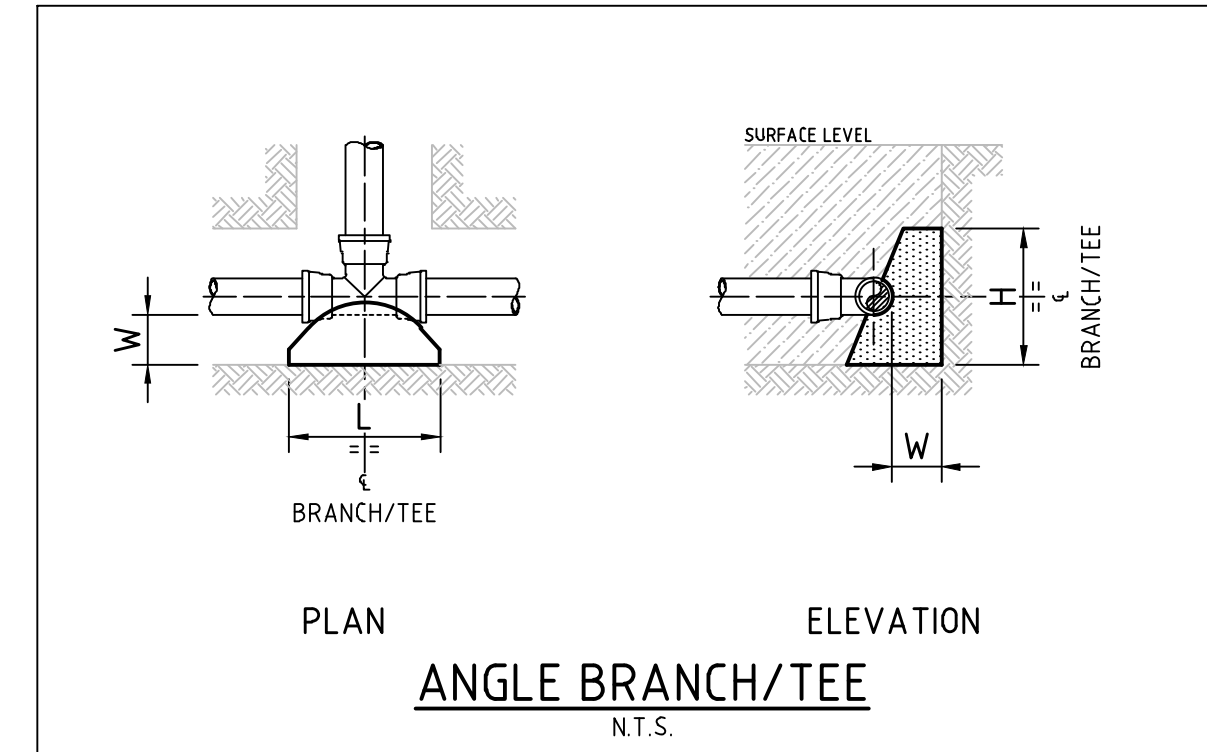


DIAL 1100
BEFORE YOU DIG

THRUST BLOCK NOTES:

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

TYPE	FITTING	SOIL AHP (kPa)	DESIGN STP (kPa)	THRUST	TA (m ²)	LENGTH (L)	HEIGHT (H)	WIDTH (W)
1	DN100 x DN100 EQUAL TEE	100	1500	18.00	0.18	0.45	0.4	0.30
2	DN100 x 90° HORIZONTAL BEND	100	1500	25.50	0.26	0.55	0.47	0.30
3	DN100 SOCKETED STOP VALVE	100	1500	18.00	0.18	1.05	0.44	0.30
4	DN100 FLUSHING HYDRANT	100	1500	18.00	0.18	0.45	0.4	0.30



WORK-AS-EXECUTED
I certify that with the exception of the changes marked in RED, the work has been constructed in accordance with this drawing.
Signed: *M. Harvey* Date: 10/01/2022
Name: Malcolm Harvey Position: Registered Surveyor

AS CONSTRUCTED

100mm AT FULL SIZE

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DESIGN FILE N:\	ALL DIMENSIONS ARE IN METRES. DO NOT SCALE		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 STAGE 3.2 WATAGAN PARK	PROJECT POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION PLAN TITLE THRUST BLOCK DETAILS
SURVEYED ADW Johnson	DATUM A.H.D.	PROJECT No. 239078(3.2)	DISCIPLINE - WAT -	NUMBER 022	REV. 2	