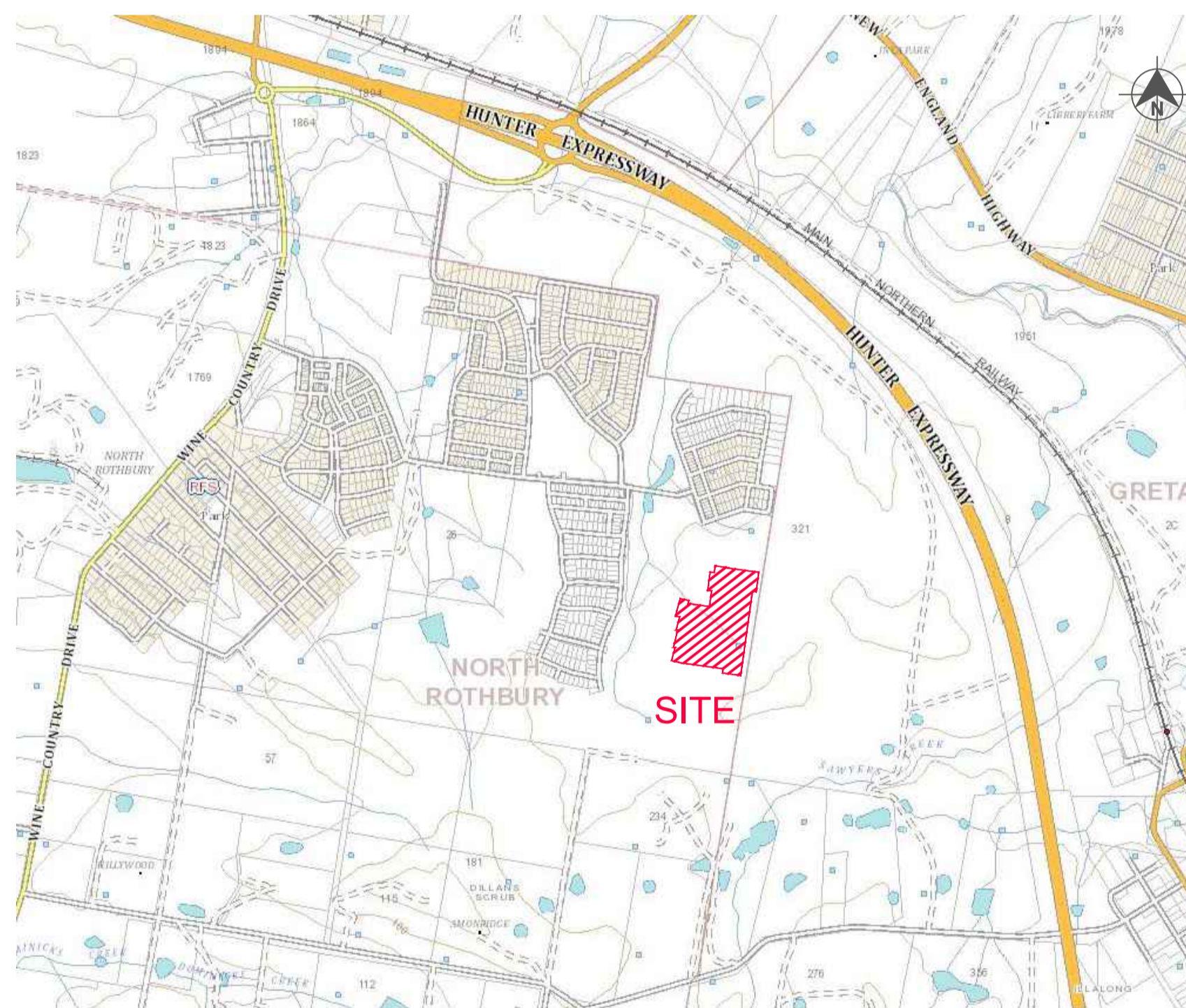




PROPOSED SUBDIVISION STAGE 31 HUNTLEE



LOCALITY SKETCH
NOT TO SCALE

DRAWING INDEX	
Sheet Title	Sheet Description
240037(31)-WAT-001	COVER SHEET, LOCALITY PLAN & DRAWING INDEX
240037(31)-WAT-002	GENERAL NOTES
240037(31)-WAT-003	OVERALL SITE PLAN
240037(31)-WAT-101	POTABLE WATER DETAIL PLAN - SHEET 1
240037(31)-WAT-102	POTABLE WATER DETAIL PLAN - SHEET 2
240037(31)-WAT-103	POTABLE WATER DETAIL PLAN - SHEET 3
240037(31)-WAT-104	POTABLE WATER DETAIL PLAN - SHEET 4
240037(31)-WAT-201	RECYCLED WATER DETAIL PLAN - SHEET 1
240037(31)-WAT-202	RECYCLED WATER DETAIL PLAN - SHEET 2
240037(31)-WAT-203	RECYCLED WATER DETAIL PLAN - SHEET 3
240037(31)-WAT-204	RECYCLED WATER DETAIL PLAN - SHEET 4
240037(31)-WAT-301	PRESSURE SEWER DETAIL PLAN - SHEET 1
240037(31)-WAT-302	PRESSURE SEWER DETAIL PLAN - SHEET 2
240037(31)-WAT-303	PRESSURE SEWER DETAIL PLAN - SHEET 3
240037(31)-WAT-304	PRESSURE SEWER DETAIL PLAN - SHEET 4
240037(31)-WAT-401	TYPICAL PIPEWORK TRENCHING DETAILS
240037(31)-WAT-402	TYPICAL SERVICE CONNECTION DETAILS
240037(31)-WAT-403	WASTE WATER COLLECTION TANK LEVEL DETAILS
240037(31)-WAT-404	THRUST BLOCK DETAILS

CONSTRUCTION ISSUE

REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY	SCALES	CLIENT		PROPERTY DESCRIPTION		PROJECT			
A	06.08.2021	PRELIMINARY ISSUE	G.S.	C.B.	G.S.	C.B.		<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 STAGE 31 HUNTLEE		POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION			
B	12.10.2021	FOR APPROVAL	G.S.	C.B.	G.S.	C.B.	PLAN TITLE								
0	20.12.2021	FOR CONSTRUCTION	G.S.	C.B.	G.S.	C.B.	COVER SHEET, LOCALITY PLAN & DRAWING INDEX								
1	03.06.2022	FOR CONSTRUCTION	G.S.	C.B.	G.S.	C.B.	SURVEYED Daly.Smith Pty Ltd					DATUM GDA94 MGA56 - A.H.D.		PROJECT No. 240037(31)	DISCIPLINE - WAT -

240037(31)-WAT-003

PRESSURE SEWER NOTES:

- 1. ALL WORKS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE DESIGN DRAWINGS, ALTOGETHER SUPPLEMENTARY MANUAL TO WSAA, PRESSURE SEWERAGE CODE OF AUSTRALIA - WSA 07-2007 VERSION 1.1 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 WSAA 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 WSAA 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.



CLEARANCES BETWEEN PIPELINES AND UNDERGROUND SERVICES

Table with columns: UTILITY (EXISTING OR PROPOSED SERVICE), MINIMUM HORIZONTAL CLEARANCE (mm) - NEW MAIN SIZE (≤ DN200, ≥ DN200), MINIMUM VERTICAL CLEARANCE (mm). Rows include Water Mains, Gas Mains, Telecommunication Conduits, Electricity Conduits, Stormwater Drains, Sewers, and Kerbs.

NOTES:

- 1. VERTICAL CLEARANCES APPLY WHERE PIPELINES CROSS OTHER UTILITY SERVICES, EXCEPT IN THE CASE OF WATER/SEWER MAINS WHEN A VERTICAL SEPARATION SHALL ALWAYS BE MAINTAINED, EVEN WHEN THE PRESSURE SEWER AND WATER MAIN ARE PARALLEL.
2. WATER MAINS INCLUDES MAINS SUPPLYING BOTH POTABLE AND RECYCLED WATER.
3. FOR AREAS WITH EXISTING WATER RETICULATION, CLEARANCES CAN BE FURTHER REDUCED TO 600mm WITH THE APPROVAL OF THE WATER AUTHORITY.

SHOULD THE RECOMMENDED CLEARANCES NOT BE ACHIEVED, NOTIFICATION SHALL BE CONVEYED TO THE ALTOGETHER REPRESENTATIVE IN WRITING.

100mm AT FULL SIZE

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

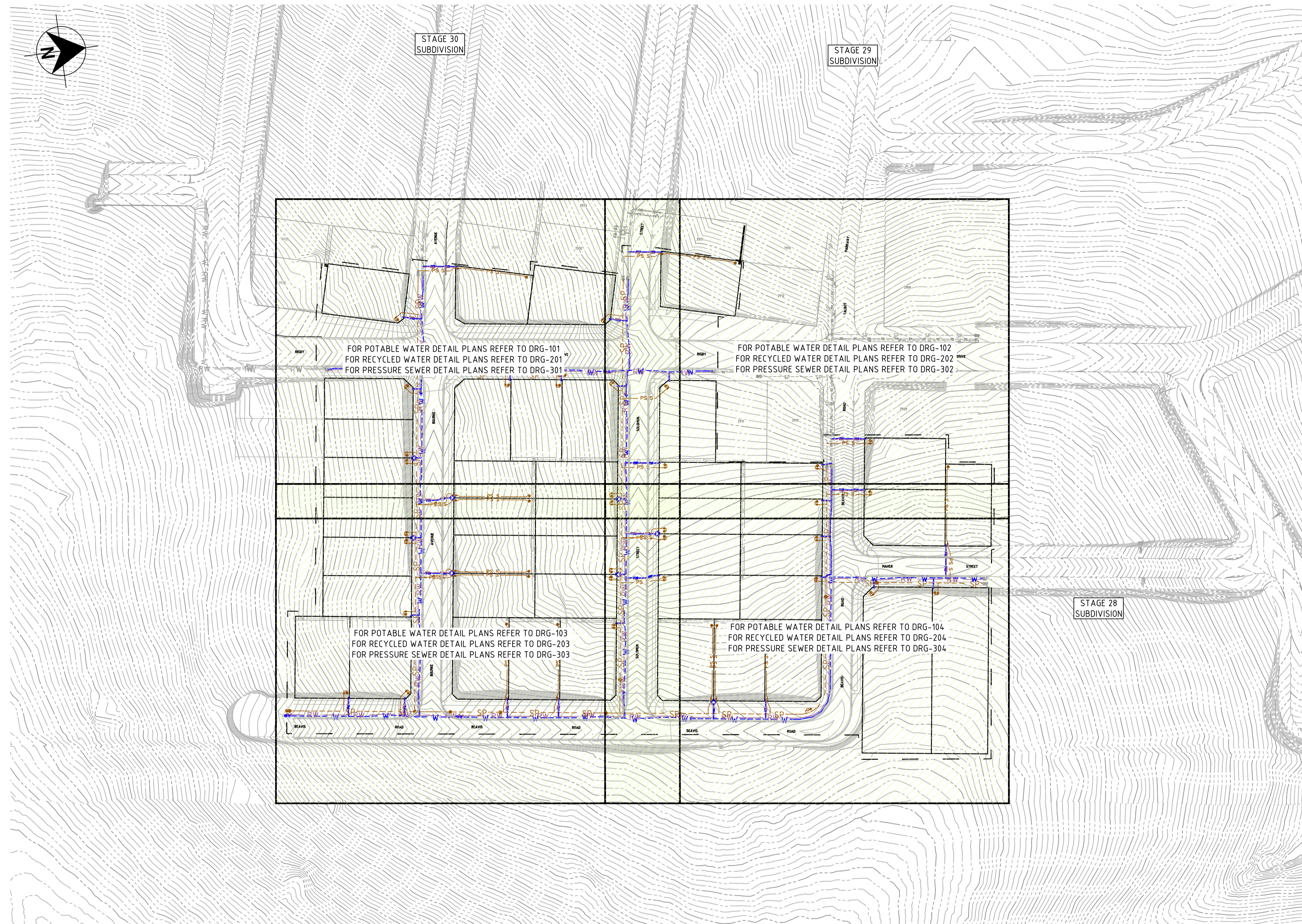
adw Johnson logo and contact information for Hunter Office, including address, phone, fax, email, and website.

altogether. logo

Table with columns: SURVEYED, DATUM. Values: Daly.Smith Pty Ltd, GDA94 MGA56 - A.H.D.

Table with columns: PROJECT, PLAN TITLE, PROJECT No., DISCIPLINE, NUMBER, REV. Values: POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION, GENERAL NOTES, 240037(31), - WAT -, 002, 1.

CONSTRUCTION ISSUE



PLAN
SCALE 1:1000

CONSTRUCTION ISSUE

REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY	SCALES
A	06.08.2021	PRELIMINARY ISSUE	G.S.	C.B.	G.S.	C.B.	<p>Bar Scale 1: 1000</p>
B	12.10.2021	FOR APPROVAL	G.S.	C.B.	G.S.	C.B.	
0	20.12.2021	FOR CONSTRUCTION	G.S.	C.B.	G.S.	C.B.	
1	03.06.2022	FOR CONSTRUCTION	G.S.	C.B.	G.S.	C.B.	

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

CLIENT

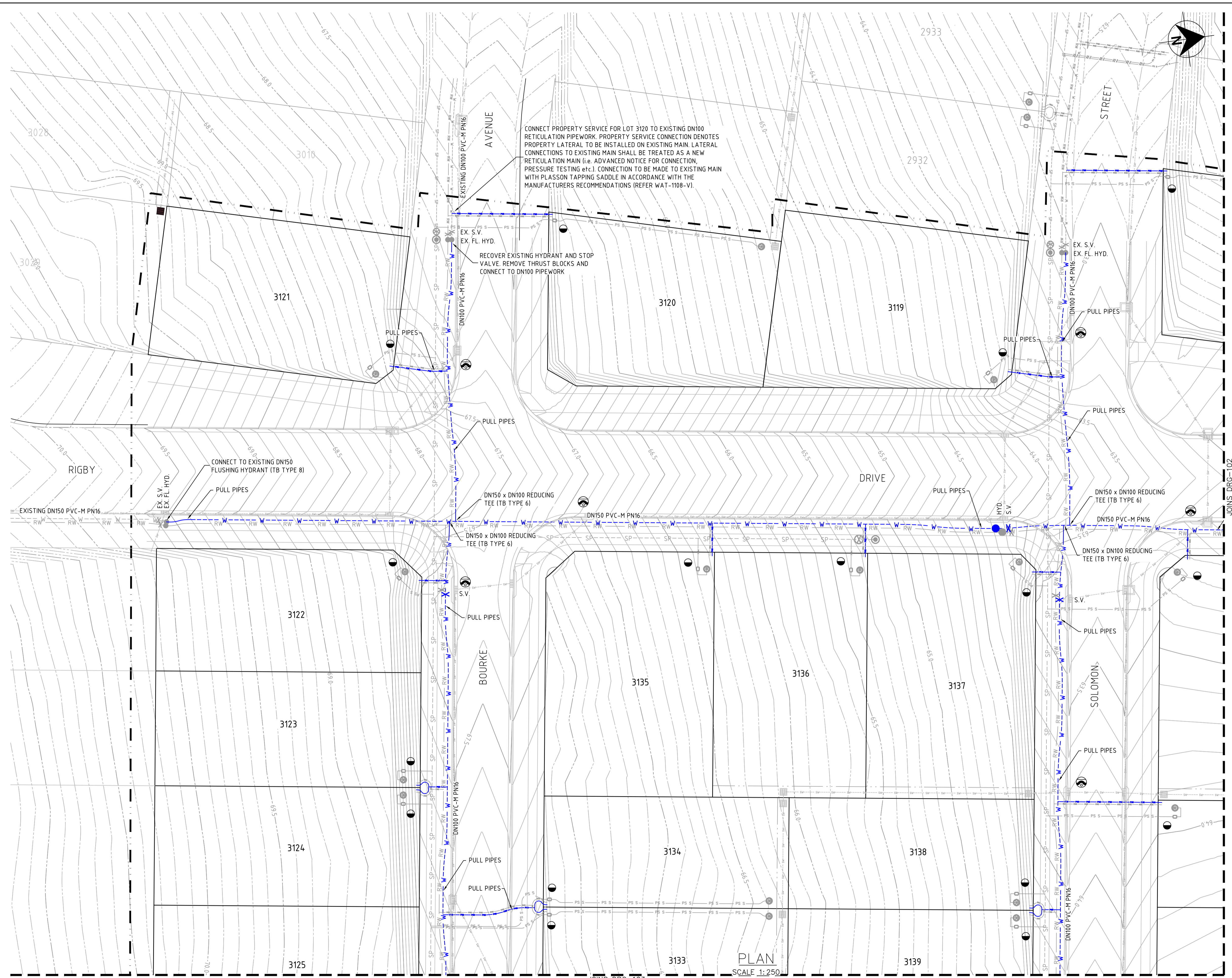
PROPERTY DESCRIPTION

PROPOSED SUBDIVISION
STAGE 31
HUNTLÉE

SURVEYED
Daly.Smith Pty Ltd

DATUM
GDA94 MGA56 - A.H.D.

PROJECT	POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION		
PLAN TITLE	OVERALL SITE PLAN		
PROJECT No.	DISCIPLINE	NUMBER	REV.
240037(31)	- WAT -	003	1



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
PS S	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
S.V.	STOP VALVE
HYD.	HYDRANT
FL HYD.	FLUSHING HYDRANT
(Symbol)	PROPERTY SERVICE CONNECTION
(Symbol)	LAY WATER MAIN OVER STORMWATER PIPE (300mm MIN. VERTICAL CLEARANCE) - REFER TO WAT-1255-H
(Symbol)	PROPOSED EASEMENT
(Symbol)	SUBDIVISION STAGE BOUNDARY

- POTABLE WATER PROPERTY SERVICE CONNECTIONS**
 TOTAL 43 CONNECTIONS
- SINGLE SERVICES IN ACCORDANCE WITH WAT-1106-V
 - 18 x SHORT SIDE
 - 7 x LONG SIDE
 - SPLIT SERVICES IN ACCORDANCE WITH WAT-1107-V
 - 6 x SHORT SIDE
 - 3 x LONG SIDE

POTABLE WATER PIPE DATA		
PIPE SIZE (mm)	PIPE MATERIAL	TOTAL LENGTH (m)
DN150	PVC-M PN16	151
DN100	PVC-M PN16	712
DN20 (LATERAL)	PE100 PN16	284

- NOTES:**
- LOCALLY PULL PIPES TO AVOID ANY POTENTIAL CLASH WITH STORMWATER PIT.
 - FOR RECYCLED WATER PIPEWORK DETAIL PLANS REFER TO DRGS-201 TO 204.
 - FOR PRESSURE SEWER PIPEWORK DETAIL PLANS REFER TO DRGS-301 TO 304.
 - FOR TYPICAL SERVICE CONNECTION DETAILS REFER TO DRG-402.

CONSTRUCTION ISSUE

100mm AT FULL SIZE

REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY	SCALES
A	06.08.2021	PRELIMINARY ISSUE	G.S.	C.B.	G.S.	C.B.	SCALE: 1:250 (FULL)
B	12.10.2021	FOR APPROVAL	G.S.	C.B.	G.S.	C.B.	
0	20.12.2021	FOR CONSTRUCTION	G.S.	C.B.	G.S.	C.B.	
1	03.06.2022	FOR CONSTRUCTION	G.S.	C.B.	G.S.	C.B.	

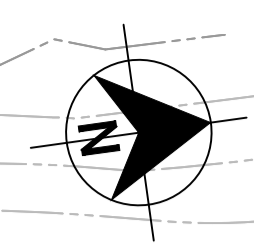
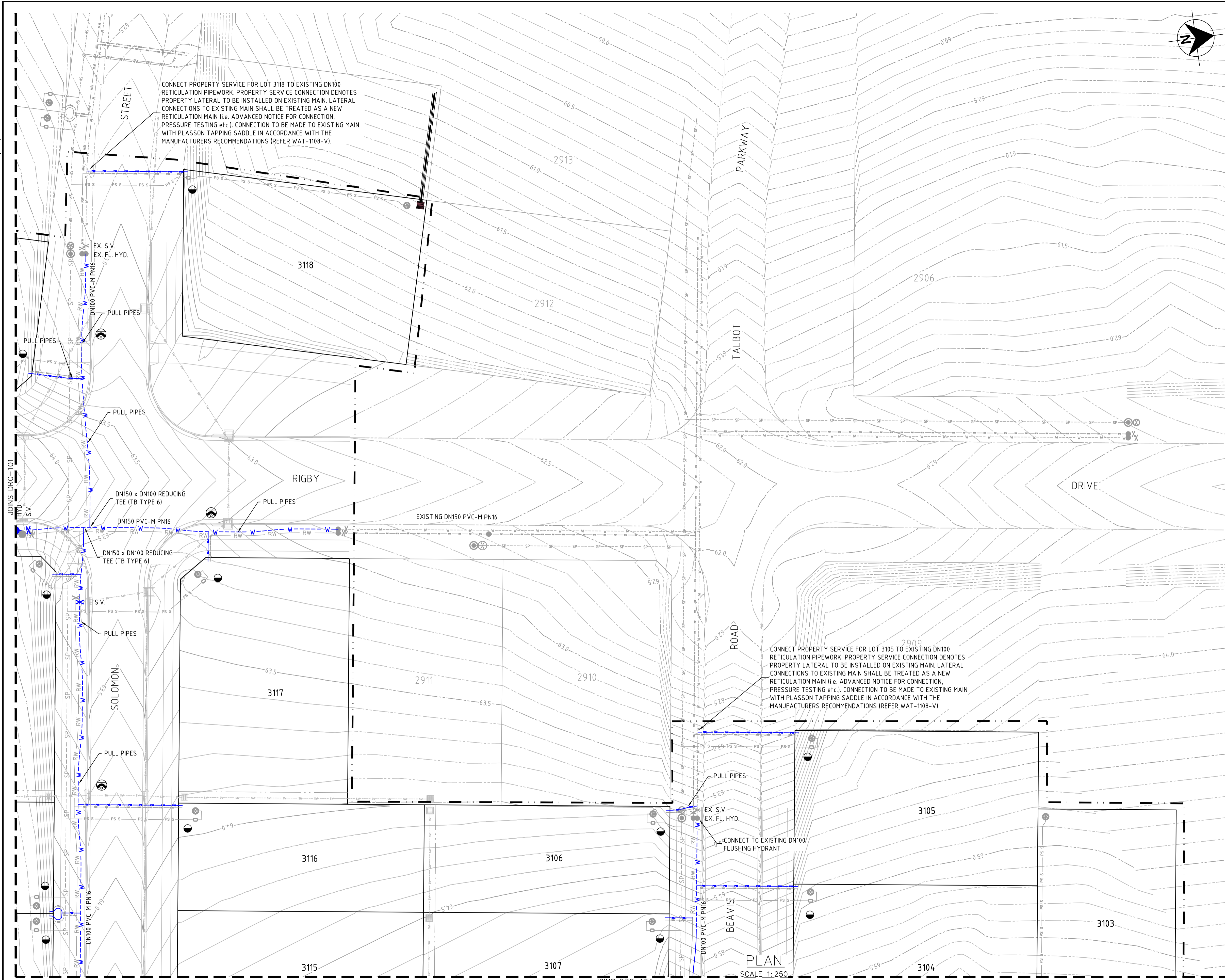
Hunter Office
 Unit 7/335 Hillsborough Rd
 Warners Bay N.S.W. 2282
 Phone: (02) 4978 5100
 Fax: (02) 4978 5199
 email: hunter@adwjohnson.com.au
 www.adwjohnson.com.au
 ABN 62 129 445 398

CLIENT PROPOSED SUBDIVISION STAGE 31 HUNTLEE	PROPERTY DESCRIPTION PROPOSED SUBDIVISION STAGE 31 HUNTLEE
SURVEYED Daly.Smith Pty Ltd	DATUM GDA94 MGA56 - A.H.D.

PROJECT POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION	PLAN TITLE POTABLE WATER DETAIL PLAN - SHEET 1		
PROJECT No. 240037(31)	DISCIPLINE - WAT -	NUMBER 101	REV. 1

240037(31)-WAT-104

100mm AT FULL SIZE



LEGEND

--- W --- W	PVC-M POTABLE WATER RETICULATION
--- PWS --- PWS	POTABLE WATER PROPERTY SERVICE
--- RW --- RW	PVC-M RECYCLED WATER RETICULATION
--- RWS --- RWS	RECYCLED WATER PROPERTY SERVICE
--- SP --- SP	PE PRESSURE SEWER RETICULATION
--- PS S --- PS S	PE PRESSURE SEWER PROPERTY SERVICE
--- EX PW --- EX PW	EXISTING POTABLE WATER RETICULATION
--- EX RW --- EX RW	EXISTING RECYCLED WATER RETICULATION
--- EX PS --- EX PS	EXISTING PRESSURE SEWER RETICULATION
--- SW --- 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

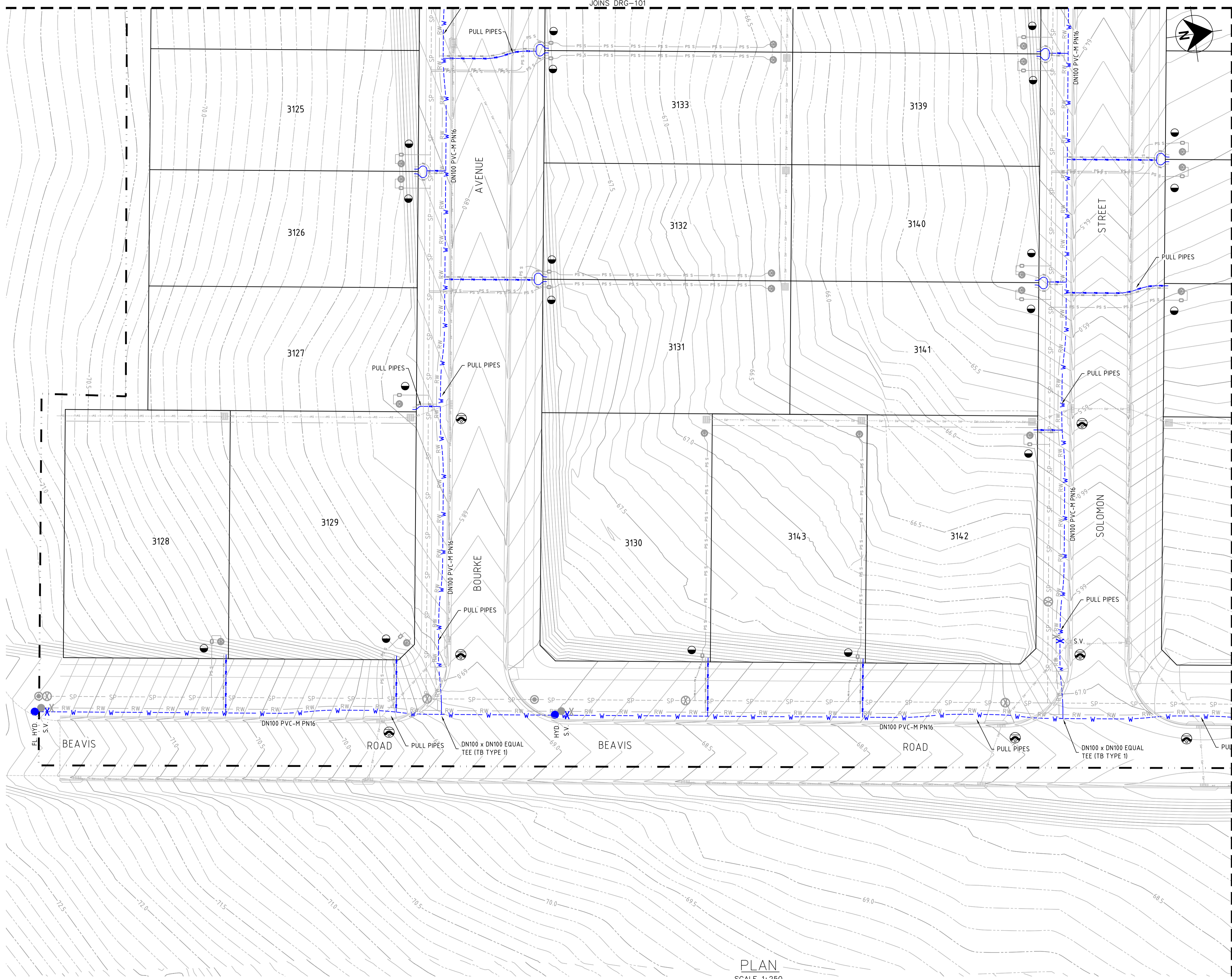
- POTABLE WATER PROPERTY SERVICE CONNECTIONS
 TOTAL 43 CONNECTIONS
- SINGLE SERVICES IN ACCORDANCE WITH WAT-1106-V
 - 18 x SHORT SIDE
 - 7 x LONG SIDE
 - SPLIT SERVICES IN ACCORDANCE WITH WAT-1107-V
 - 6 x SHORT SIDE
 - 3 x LONG SIDE

POTABLE WATER PIPE DATA		
PIPE SIZE (mm)	PIPE MATERIAL	TOTAL LENGTH (m)
DN150	PVC-M PN16	151
DN100	PVC-M PN16	712
DN20 (LATERAL)	PE100 PN16	284

- NOTES:**
1. LOCALLY PULL PIPES TO AVOID ANY POTENTIAL CLASH WITH STORMWATER PIT.
 2. FOR RECYCLED WATER PIPEWORK DETAIL PLANS REFER TO DRGS-201 TO 204.
 3. FOR PRESSURE SEWER PIPEWORK DETAIL PLANS REFER TO DRGS-301 TO 304.
 4. FOR TYPICAL SERVICE CONNECTION DETAILS REFER TO DRG-402.

CONSTRUCTION ISSUE

<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> <th>SCALES</th> </tr> </thead> <tbody> <tr> <td>A</td> <td>06.08.2021</td> <td>PRELIMINARY ISSUE FOR APPROVAL</td> <td>G.S.</td> <td>C.B.</td> <td>G.S.</td> <td>C.B.</td> <td></td> </tr> <tr> <td>B</td> <td>12.10.2021</td> <td>FOR APPROVAL</td> <td>G.S.</td> <td>C.B.</td> <td>G.S.</td> <td>C.B.</td> <td></td> </tr> <tr> <td>0</td> <td>20.12.2021</td> <td>FOR CONSTRUCTION</td> <td>G.S.</td> <td>C.B.</td> <td>G.S.</td> <td>C.B.</td> <td></td> </tr> <tr> <td>1</td> <td>03.06.2022</td> <td>FOR CONSTRUCTION</td> <td>G.S.</td> <td>C.B.</td> <td>G.S.</td> <td>C.B.</td> <td></td> </tr> </tbody> </table>	REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY	SCALES	A	06.08.2021	PRELIMINARY ISSUE FOR APPROVAL	G.S.	C.B.	G.S.	C.B.		B	12.10.2021	FOR APPROVAL	G.S.	C.B.	G.S.	C.B.		0	20.12.2021	FOR CONSTRUCTION	G.S.	C.B.	G.S.	C.B.		1	03.06.2022	FOR CONSTRUCTION	G.S.	C.B.	G.S.	C.B.				<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 31 HUNTLEE</p>	<p>PROJECT POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION</p>
	REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY	SCALES																																						
A	06.08.2021	PRELIMINARY ISSUE FOR APPROVAL	G.S.	C.B.	G.S.	C.B.																																								
B	12.10.2021	FOR APPROVAL	G.S.	C.B.	G.S.	C.B.																																								
0	20.12.2021	FOR CONSTRUCTION	G.S.	C.B.	G.S.	C.B.																																								
1	03.06.2022	FOR CONSTRUCTION	G.S.	C.B.	G.S.	C.B.																																								
<p>DESIGN FILE N:\</p>	<p>ALL DIMENSIONS ARE IN METRES. DO NOT SCALE</p>	<p>PLAN TITLE</p> <p>POTABLE WATER DETAIL PLAN - SHEET 2</p>																																												
<p>Plotted By: glenns Plot Date: 03/06/22 - 10:46 Cod File: N:\240037\DWG\Water & Sewer\Stage 31 Water and Sewer\240037(31)-WAT-104.dwg</p>		<p>PROJECT No. 240037(31) DISCIPLINE - WAT - NUMBER 102 REV. 1</p>																																												



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
PS S	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 43 CONNECTIONS
- SINGLE SERVICES IN ACCORDANCE WITH WAT-1106-V
 - 18 x SHORT SIDE
 - 7 x LONG SIDE
 - SPLIT SERVICES IN ACCORDANCE WITH WAT-1107-V
 - 6 x SHORT SIDE
 - 3 x LONG SIDE

POTABLE WATER PIPE DATA		
PIPE SIZE (mm)	PIPE MATERIAL	TOTAL LENGTH (m)
DN150	PVC-M PN16	151
DN100	PVC-M PN16	712
DN20 (LATERAL)	PE100 PN16	284

- NOTES:**
1. LOCALLY PULL PIPES TO AVOID ANY POTENTIAL CLASH WITH STORMWATER PIT.
 2. FOR RECYCLED WATER PIPEWORK DETAIL PLANS REFER TO DRGS-201 TO 204.
 3. FOR PRESSURE SEWER PIPEWORK DETAIL PLANS REFER TO DRGS-301 TO 304.
 4. FOR TYPICAL SERVICE CONNECTION DETAILS REFER TO DRG-402.

PLAN
SCALE 1:250

CONSTRUCTION ISSUE

REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY	SCALES
A	06.08.2021	PRELIMINARY ISSUE	G.S.	C.B.	G.S.	C.B.	
B	12.10.2021	FOR APPROVAL	G.S.	C.B.	G.S.	C.B.	
0	20.12.2021	FOR CONSTRUCTION	G.S.	C.B.	G.S.	C.B.	
1	03.06.2022	FOR CONSTRUCTION	G.S.	C.B.	G.S.	C.B.	

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

CLIENT

PROPERTY DESCRIPTION

PROPOSED SUBDIVISION
 STAGE 31
 HUNTLEE

SURVEYED
 Daly.Smith Pty Ltd

DATUM
 GDA94 MGA56 - A.H.D.

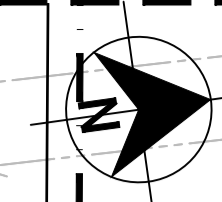
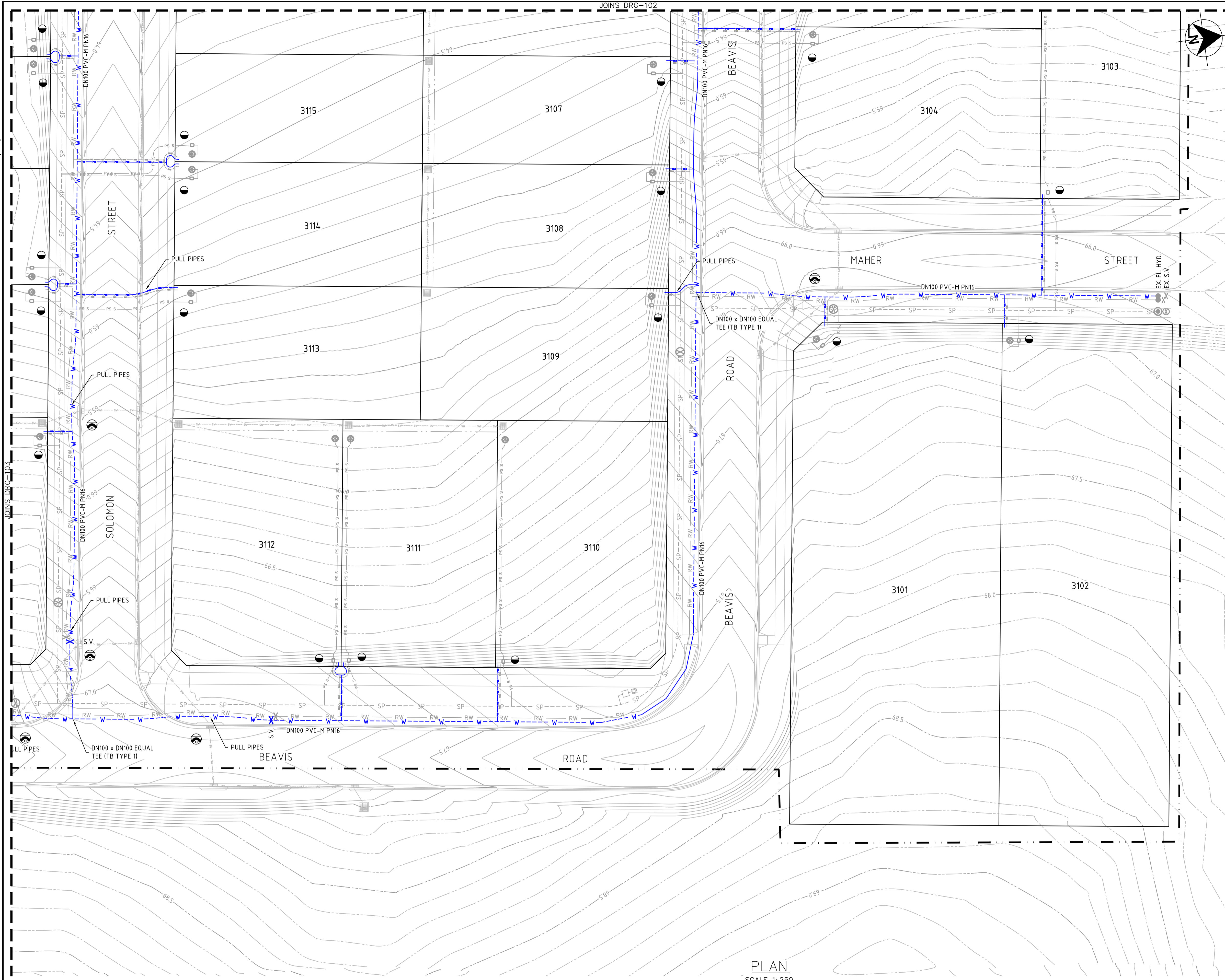
PROJECT	POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION		
PLAN TITLE	POTABLE WATER DETAIL PLAN - SHEET 3		
PROJECT No.	DISCIPLINE	NUMBER	REV.
240037(31)	- WAT -	103	1

240037(31)-WAT-104

JOINS DRG=103

100mm AT FULL SIZE

JOINS DRG=102



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
PS S	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 43 CONNECTIONS
- SINGLE SERVICES IN ACCORDANCE WITH WAT-1106-V
 - 18 x SHORT SIDE
 - 7 x LONG SIDE
 - SPLIT SERVICES IN ACCORDANCE WITH WAT-1107-V
 - 6 x SHORT SIDE
 - 3 x LONG SIDE

POTABLE WATER PIPE DATA

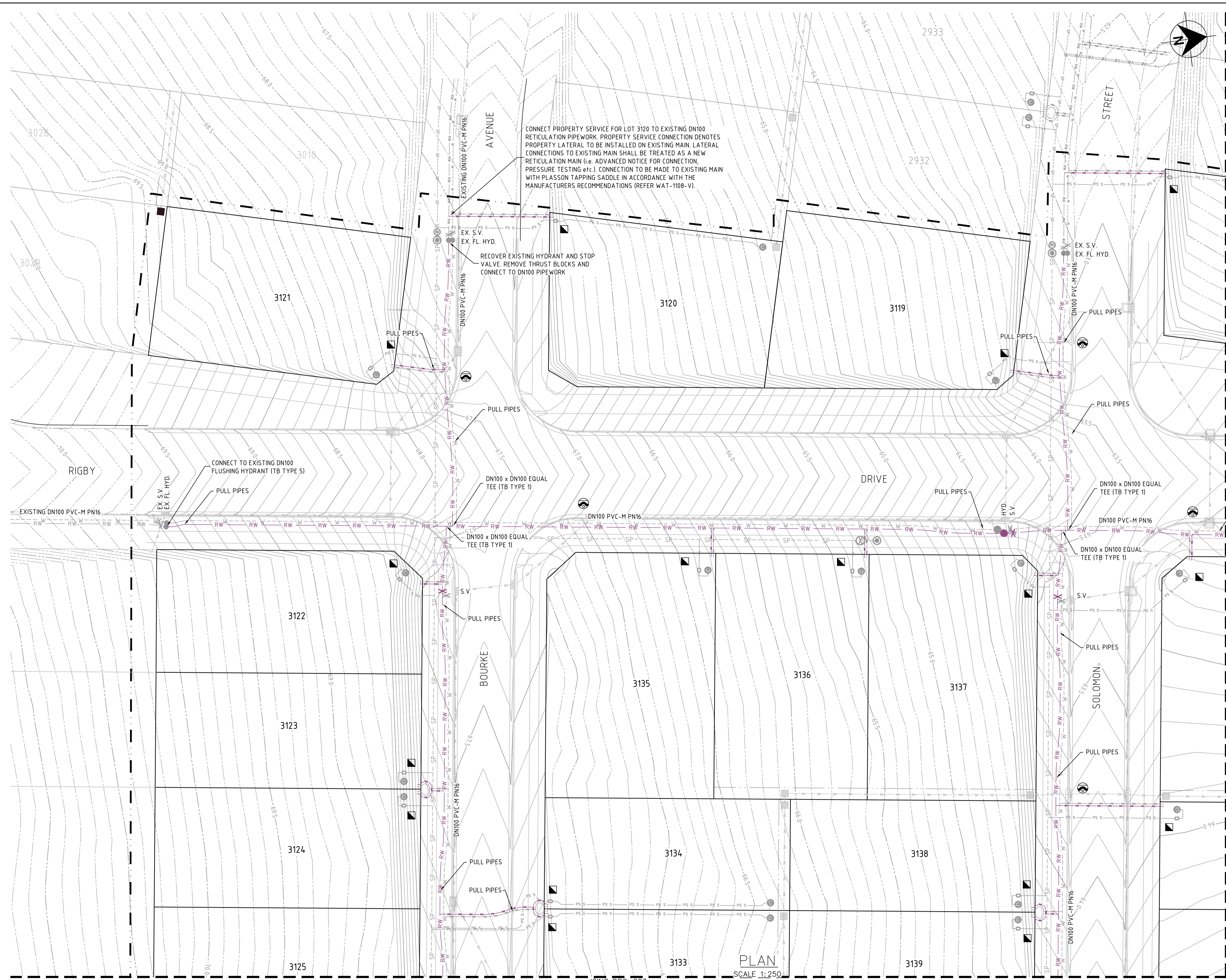
PIPE SIZE (mm)	PIPE MATERIAL	TOTAL LENGTH (m)
DN150	PVC-M PN16	151
DN100	PVC-M PN16	712
DN20 (LATERAL)	PE100 PN16	284

- NOTES:**
1. LOCALLY PULL PIPES TO AVOID ANY POTENTIAL CLASH WITH STORMWATER PIT.
 2. FOR RECYCLED WATER PIPEWORK DETAIL PLANS REFER TO DRGS-201 TO 204.
 3. FOR PRESSURE SEWER PIPEWORK DETAIL PLANS REFER TO DRGS-301 TO 304.
 4. FOR TYPICAL SERVICE CONNECTION DETAILS REFER TO DRG-402.

PLAN
SCALE 1:250

CONSTRUCTION ISSUE

<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> <th>SCALES</th> </tr> </thead> <tbody> <tr> <td>A</td> <td>06.08.2021</td> <td>PRELIMINARY ISSUE FOR APPROVAL</td> <td>G.S.</td> <td>C.B.</td> <td>G.S.</td> <td>C.B.</td> <td rowspan="4"> </td> </tr> <tr> <td>B</td> <td>12.10.2021</td> <td>FOR APPROVAL</td> <td>G.S.</td> <td>C.B.</td> <td>G.S.</td> <td>C.B.</td> </tr> <tr> <td>0</td> <td>20.12.2021</td> <td>FOR CONSTRUCTION</td> <td>G.S.</td> <td>C.B.</td> <td>G.S.</td> <td>C.B.</td> </tr> <tr> <td>1</td> <td>03.06.2022</td> <td>FOR CONSTRUCTION</td> <td>G.S.</td> <td>C.B.</td> <td>G.S.</td> <td>C.B.</td> </tr> </tbody> </table>	REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY	SCALES	A	06.08.2021	PRELIMINARY ISSUE FOR APPROVAL	G.S.	C.B.	G.S.	C.B.		B	12.10.2021	FOR APPROVAL	G.S.	C.B.	G.S.	C.B.	0	20.12.2021	FOR CONSTRUCTION	G.S.	C.B.	G.S.	C.B.	1	03.06.2022	FOR CONSTRUCTION	G.S.	C.B.	G.S.	C.B.	<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 PROPOSED SUBDIVISION STAGE 31 HUNTLEE</p>	<p>PROJECT POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION</p>
REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY	SCALES																																		
A	06.08.2021	PRELIMINARY ISSUE FOR APPROVAL	G.S.	C.B.	G.S.	C.B.																																			
B	12.10.2021	FOR APPROVAL	G.S.	C.B.	G.S.	C.B.																																			
0	20.12.2021	FOR CONSTRUCTION	G.S.	C.B.	G.S.	C.B.																																			
1	03.06.2022	FOR CONSTRUCTION	G.S.	C.B.	G.S.	C.B.																																			
<p>DESIGN FILE N:\</p>		<p>ALL DIMENSIONS ARE IN METRES. DO NOT SCALE</p>		<p></p>	<p>PLANNED Daly.Smith Pty Ltd</p>	<p>DATUM GDA94 MGA56 - A.H.D.</p>	<p>PROJECT No. 240037(31)</p>	<p>DISCIPLINE - WAT -</p>	<p>NUMBER 104</p>	<p>REV. 1</p>																															



LEGEND

EX PW	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
PS S	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
S.V.	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

- RECYCLED WATER PROPERTY SERVICE CONNECTIONS**
- TOTAL 43 CONNECTIONS
- SINGLE SERVICES IN ACCORDANCE WITH WAT-1106-V
 - 18 x SHORT SIDE
 - 7 x LONG SIDE
 - SPLIT SERVICES IN ACCORDANCE WITH WAT-1107-V
 - 6 x SHORT SIDE
 - 3 x LONG SIDE

RECYCLED WATER PIPE DATA

PIPE SIZE (mm)	PIPE MATERIAL	TOTAL LENGTH (m)
DN100	PVC-M PN16	859
DN25 (LATERAL)	PE100 PN16	268

- NOTES:**
1. LOCALLY PULL PIPES TO AVOID ANY POTENTIAL CLASH WITH STORMWATER PIT
 2. FOR POTABLE WATER PIPEWORK DETAIL PLANS REFER TO DRGS-101 TO 104.
 3. FOR PRESSURE SEWER PIPEWORK DETAIL PLANS REFER TO DRGS-301 TO 304.
 4. FOR TYPICAL SERVICE CONNECTION DETAILS REFER TO DRG-402.

CONSTRUCTION ISSUE

100mm AT FULL SIZE

REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY
A	06.08.2021	PRELIMINARY ISSUE	G.S.	C.B.	G.S.	C.B.
B	12.10.2021	FOR APPROVAL	G.S.	C.B.	G.S.	C.B.
0	20.12.2021	FOR CONSTRUCTION	G.S.	C.B.	G.S.	C.B.
1	03.06.2022	FOR CONSTRUCTION	G.S.	C.B.	G.S.	C.B.

SCALES
0 5.0 10.0 12.5m
SCALE: 1:250 (FULL)

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

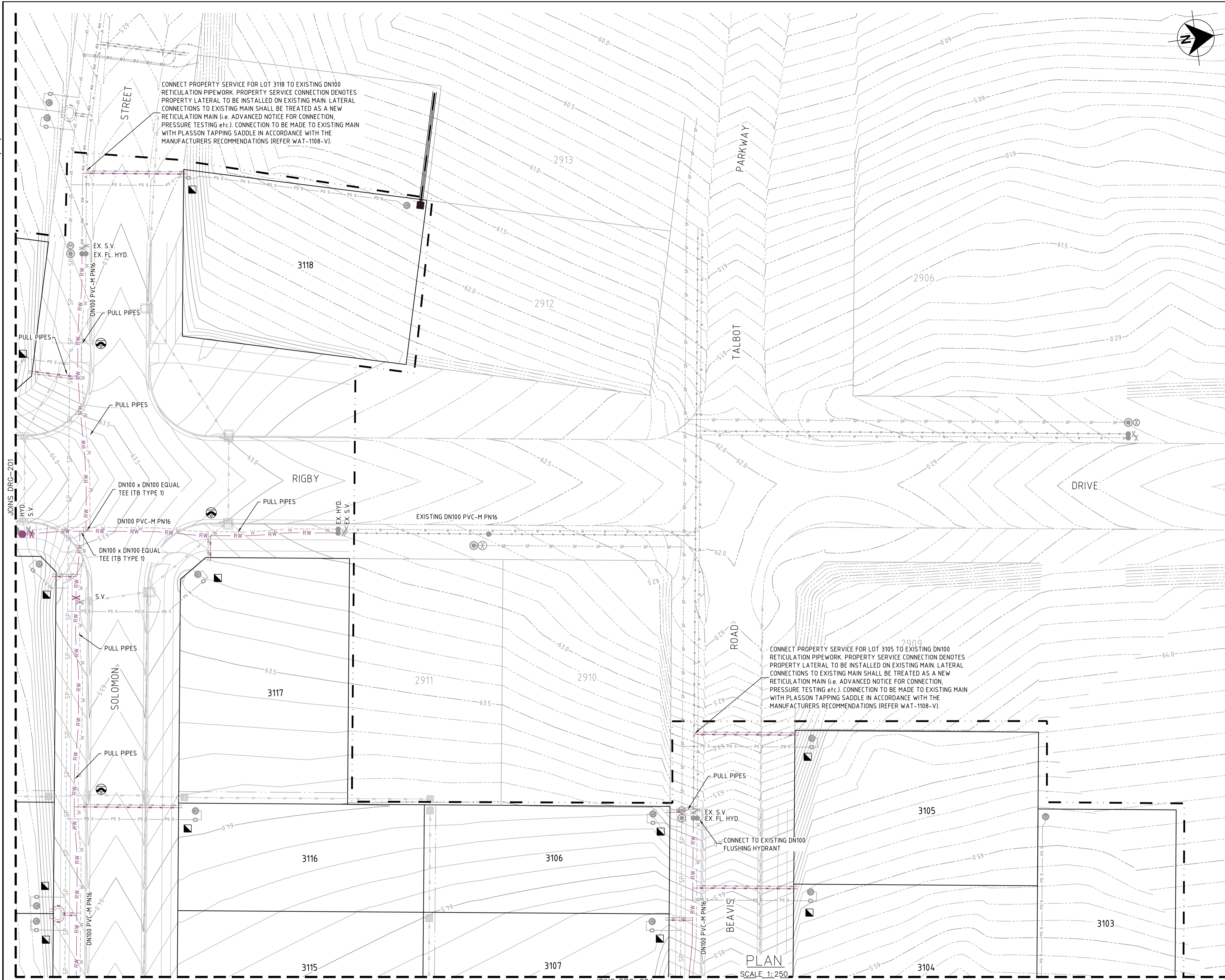
altogether.

PROPERTY DESCRIPTION	PROPOSED SUBDIVISION STAGE 31 HUNTLEE
SURVEYED	DATUM
Daly.Smith Pty Ltd	GDA94 MGA56 - A.H.D.

PROJECT	POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION		
PLAN TITLE	RECYCLED WATER DETAIL PLAN - SHEET 1		
PROJECT No.	DISCIPLINE	NUMBER	REV.
240037(31)	- WAT -	201	1

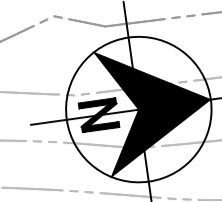
240037(31)-WAT-204

100mm AT FULL SIZE



CONNECT PROPERTY SERVICE FOR LOT 3118 TO EXISTING DN100 RETICULATION PIPEWORK. PROPERTY SERVICE CONNECTION DENOTES PROPERTY LATERAL TO BE INSTALLED ON EXISTING MAIN. LATERAL CONNECTIONS TO EXISTING MAIN SHALL BE TREATED AS A NEW RETICULATION MAIN (i.e. ADVANCED NOTICE FOR CONNECTION, PRESSURE TESTING etc.). CONNECTION TO BE MADE TO EXISTING MAIN WITH PLASSON TAPPING SADDLE IN ACCORDANCE WITH THE MANUFACTURERS RECOMMENDATIONS (REFER WAT-1108-V).

CONNECT PROPERTY SERVICE FOR LOT 3105 TO EXISTING DN100 RETICULATION PIPEWORK. PROPERTY SERVICE CONNECTION DENOTES PROPERTY LATERAL TO BE INSTALLED ON EXISTING MAIN. LATERAL CONNECTIONS TO EXISTING MAIN SHALL BE TREATED AS A NEW RETICULATION MAIN (i.e. ADVANCED NOTICE FOR CONNECTION, PRESSURE TESTING etc.). CONNECTION TO BE MADE TO EXISTING MAIN WITH PLASSON TAPPING SADDLE IN ACCORDANCE WITH THE MANUFACTURERS RECOMMENDATIONS (REFER WAT-1108-V).



LEGEND

EX PW	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
PS S	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

- RECYCLED WATER PROPERTY SERVICE CONNECTIONS**
- TOTAL 43 CONNECTIONS
- SINGLE SERVICES IN ACCORDANCE WITH WAT-1106-V
 - 18 x SHORT SIDE
 - 7 x LONG SIDE
 - SPLIT SERVICES IN ACCORDANCE WITH WAT-1107-V
 - 6 x SHORT SIDE
 - 3 x LONG SIDE

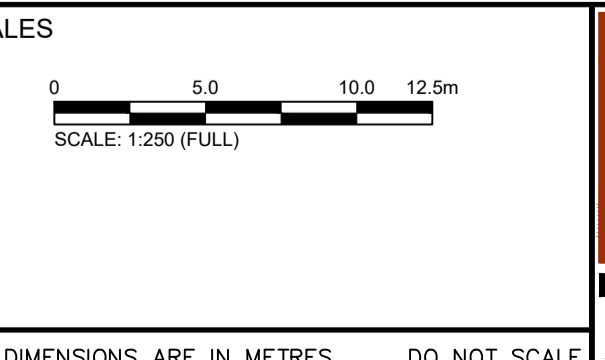
RECYCLED WATER PIPE DATA

PIPE SIZE (mm)	PIPE MATERIAL	TOTAL LENGTH (m)
DN100	PVC-M PN16	859
DN25 (LATERAL)	PE100 PN16	268

- NOTES:**
- LOCALLY PULL PIPES TO AVOID ANY POTENTIAL CLASH WITH STORMWATER PIT
 - FOR POTABLE WATER PIPEWORK DETAIL PLANS REFER TO DRGS-101 TO 104.
 - FOR PRESSURE SEWER PIPEWORK DETAIL PLANS REFER TO DRGS-301 TO 304.
 - FOR TYPICAL SERVICE CONNECTION DETAILS REFER TO DRG-402.

CONSTRUCTION ISSUE

REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY	SCALES
A	06.08.2021	PRELIMINARY ISSUE	G.S.	C.B.	G.S.	C.B.	
B	12.10.2021	FOR APPROVAL	G.S.	C.B.	G.S.	C.B.	
0	20.12.2021	FOR CONSTRUCTION	G.S.	C.B.	G.S.	C.B.	
1	03.06.2022	FOR CONSTRUCTION	G.S.	C.B.	G.S.	C.B.	



JOINS DRG-204

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 31
HUNTLEE

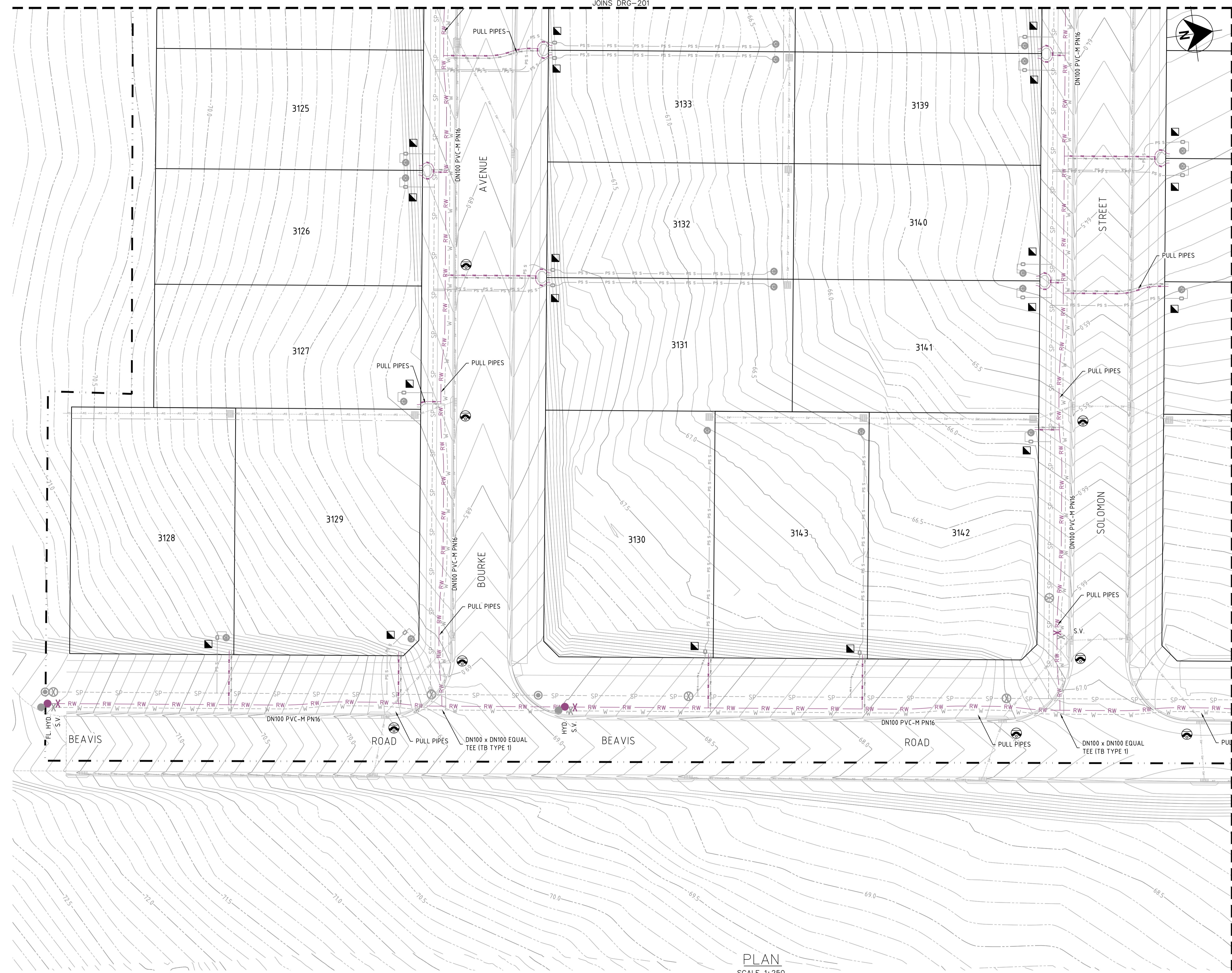
SURVEYED
Daly.Smith Pty Ltd

DATUM
GDA94 MGA56 - A.H.D.

PROJECT
POTABLE WATER, RECYCLED WATER AND
PRESSURE SEWER RETICULATION

PLAN TITLE
RECYCLED WATER DETAIL
PLAN - SHEET 2

PROJECT No.	DISCIPLINE	NUMBER	REV.
240037(31)	- WAT -	202	1



LEGEND

EX PW	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
PS S	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

- RECYCLED WATER PROPERTY SERVICE CONNECTIONS**
- TOTAL 43 CONNECTIONS
- SINGLE SERVICES IN ACCORDANCE WITH WAT-1106-V
 - 18 x SHORT SIDE
 - 7 x LONG SIDE
 - SPLIT SERVICES IN ACCORDANCE WITH WAT-1107-V
 - 6 x SHORT SIDE
 - 3 x LONG SIDE

RECYCLED WATER PIPE DATA

PIPE SIZE (mm)	PIPE MATERIAL	TOTAL LENGTH (m)
DN100	PVC-M PN16	859
DN25 (LATERAL)	PE100 PN16	268

- NOTES:**
- LOCALLY PULL PIPES TO AVOID ANY POTENTIAL CLASH WITH STORMWATER PIT
 - FOR POTABLE WATER PIPEWORK DETAIL PLANS REFER TO DRGS-101 TO 104.
 - FOR PRESSURE SEWER PIPEWORK DETAIL PLANS REFER TO DRGS-301 TO 304.
 - FOR TYPICAL SERVICE CONNECTION DETAILS REFER TO DRG-402.

CONSTRUCTION ISSUE

PLAN
SCALE 1:250

REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY	SCALES
A	06.08.2021	PRELIMINARY ISSUE FOR APPROVAL	G.S.	C.B.	G.S.	C.B.	
B	12.10.2021	FOR APPROVAL	G.S.	C.B.	G.S.	C.B.	
0	20.12.2021	FOR CONSTRUCTION	G.S.	C.B.	G.S.	C.B.	
1	03.06.2022	FOR CONSTRUCTION	G.S.	C.B.	G.S.	C.B.	

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

CLIENT

altogether.

PROPERTY DESCRIPTION

PROPOSED SUBDIVISION
STAGE 31
HUNTLEE

SURVEYED
Daly.Smith Pty Ltd

DATUM
GDA94 MGA56 - A.H.D.

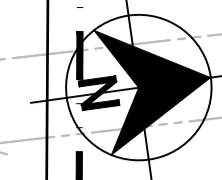
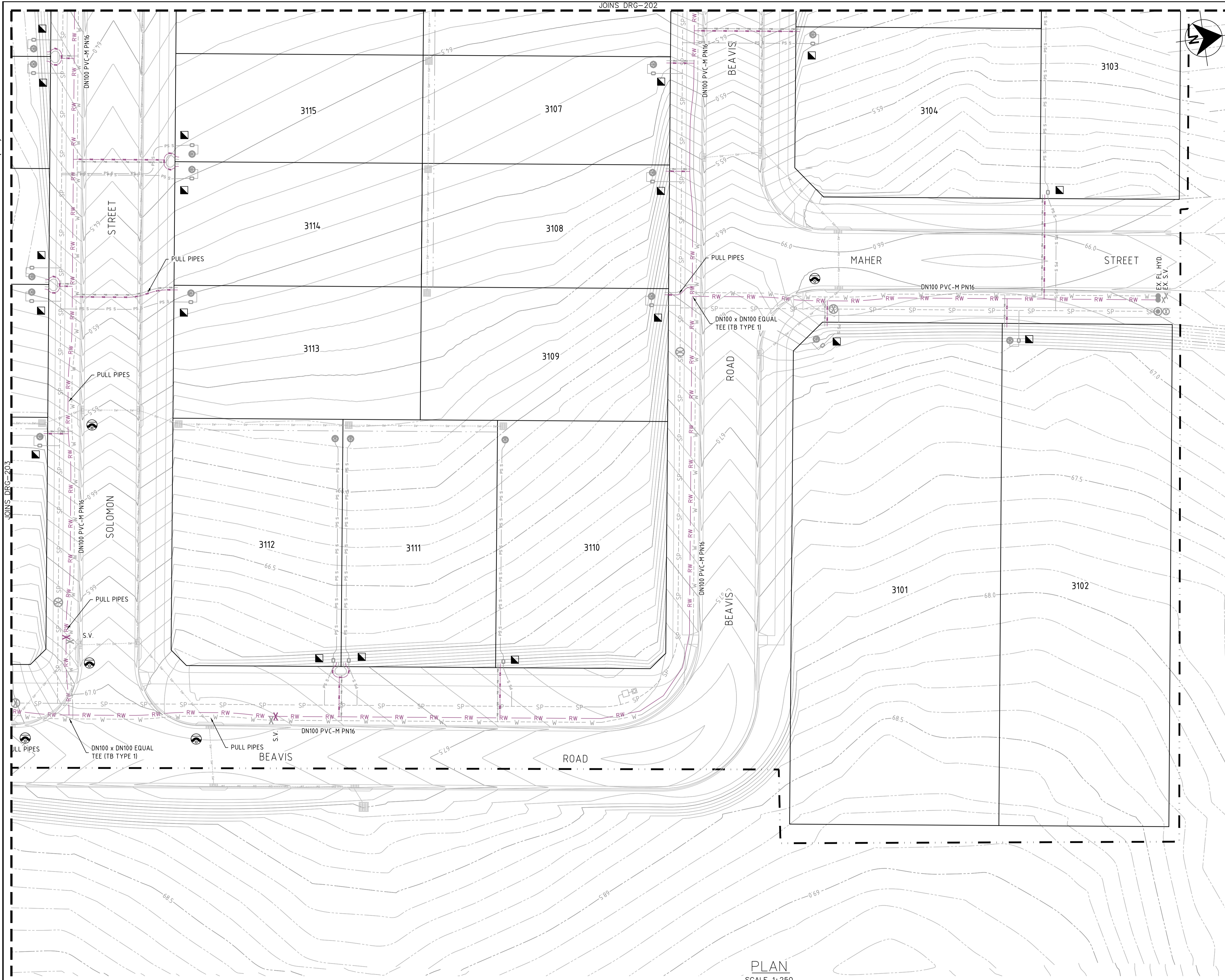
PROJECT	POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION		
PLAN TITLE	RECYCLED WATER DETAIL PLAN - SHEET 3		
PROJECT No.	240037(31)	DISCIPLINE	- WAT -
NUMBER	203	REV.	1

240037(31)-WAT-204

JOINS DRG-203

100mm AT FULL SIZE

JOINS DRG-202



LEGEND

EX PW	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
PS S	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

- RECYCLED WATER PROPERTY SERVICE CONNECTIONS**
- TOTAL 43 CONNECTIONS
- SINGLE SERVICES IN ACCORDANCE WITH WAT-1106-V
 - 18 x SHORT SIDE
 - 7 x LONG SIDE
 - SPLIT SERVICES IN ACCORDANCE WITH WAT-1107-V
 - 6 x SHORT SIDE
 - 3 x LONG SIDE

RECYCLED WATER PIPE DATA

PIPE SIZE (mm)	PIPE MATERIAL	TOTAL LENGTH (m)
DN100	PVC-M PN16	859
DN25 (LATERAL)	PE100 PN16	268

- NOTES:**
- LOCALLY PULL PIPES TO AVOID ANY POTENTIAL CLASH WITH STORMWATER PIT
 - FOR POTABLE WATER PIPEWORK DETAIL PLANS REFER TO DRGS-101 TO 104.
 - FOR PRESSURE SEWER PIPEWORK DETAIL PLANS REFER TO DRGS-301 TO 304.
 - FOR TYPICAL SERVICE CONNECTION DETAILS REFER TO DRG-402.

PLAN
SCALE 1:250

CONSTRUCTION ISSUE

REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY	SCALES
A	06.08.2021	PRELIMINARY ISSUE	G.S.	C.B.	G.S.	C.B.	
B	12.10.2021	FOR APPROVAL	G.S.	C.B.	G.S.	C.B.	
0	20.12.2021	FOR CONSTRUCTION	G.S.	C.B.	G.S.	C.B.	
1	03.06.2022	FOR CONSTRUCTION	G.S.	C.B.	G.S.	C.B.	

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

CLIENT

altogether.

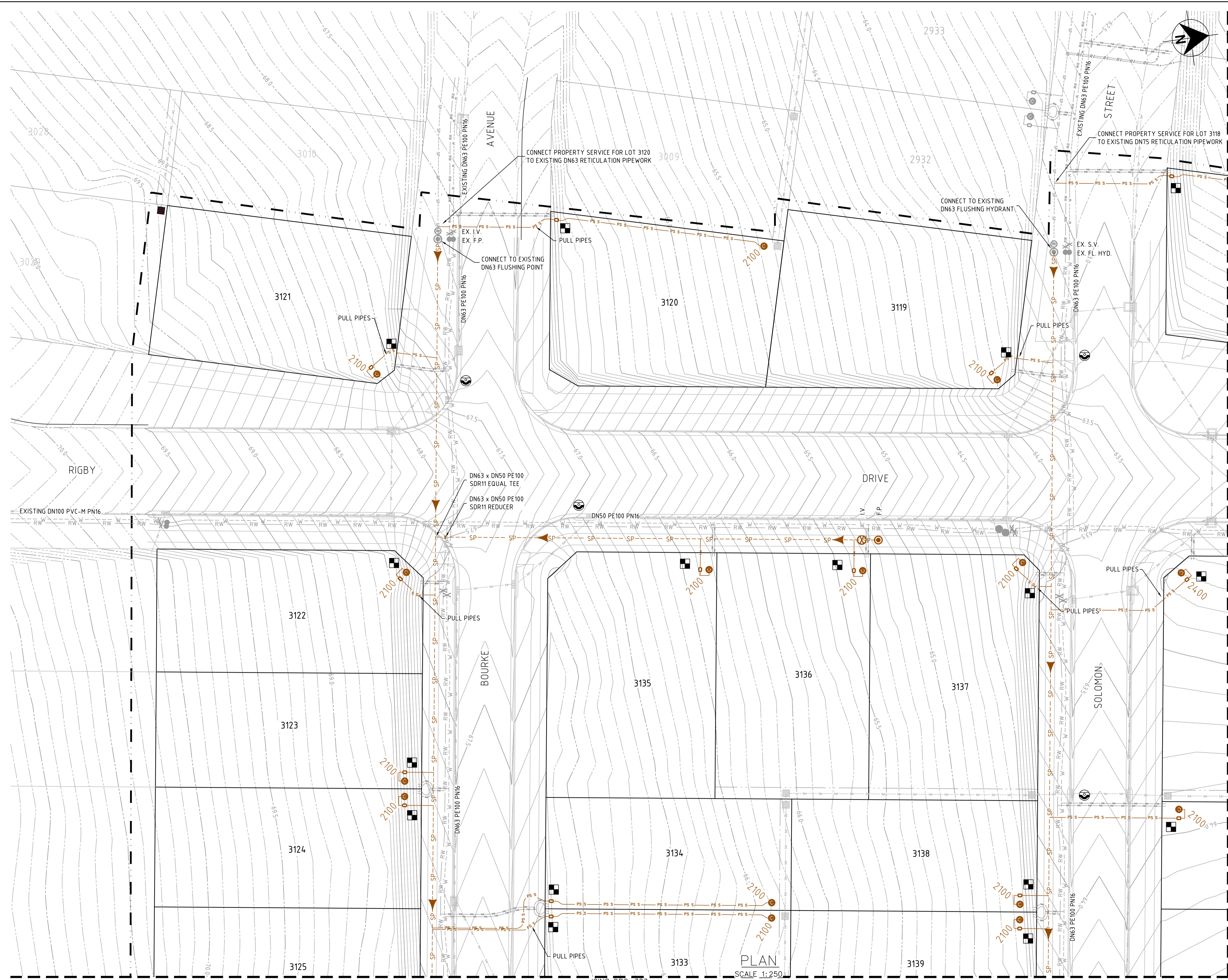
PROPERTY DESCRIPTION

PROPOSED SUBDIVISION
STAGE 31
HUNTLEE

SURVEYED
Daly.Smith Pty Ltd

DATUM
GDA94 MGA56 - A.H.D.

PROJECT	POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION		
PLAN TITLE	RECYCLED WATER DETAIL PLAN - SHEET 4		
PROJECT No.	240037(31)	DISCIPLINE	- WAT - 204
NUMBER		NUMBER	1
REV.		REV.	1



LEGEND

- EX PW — 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
- PS S — 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
- I.V. — ISOLATION VALVE
- I.V. (NC) — ISOLATION VALVE - NORMALLY CLOSED
- F.P. — FLUSHING POINT
- WWT — WASTEWATER COLLECTION TANK AND BOUNDARY KIT
- ▲ — PRESSURE SEWER FLOW DIRECTION (SEE NOTE 7)
- — PROPERTY SERVICE CONNECTION
- — LAY PRESSURE SEWER 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
- - - - - PROPOSED EASEMENT
- - - - - SUBDIVISION STAGE BOUNDARY

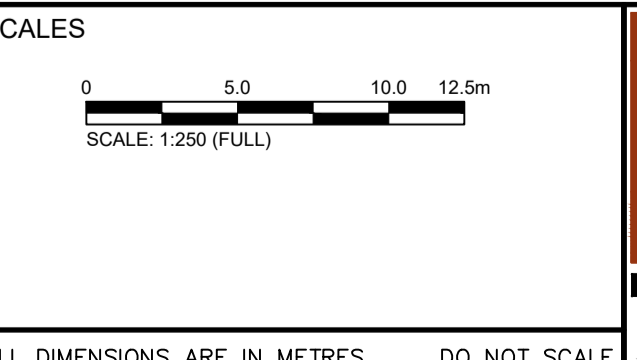
■ PRESSURE SEWER PROPERTY SERVICE CONNECTIONS
 TOTAL 43 CONNECTIONS
 • SINGLE SERVICES
 -30x SHORT SIDE
 -13 x LONG SIDE

PRESSURE SEWER PIPE DATA		
PIPE SIZE (mm)	PIPE MATERIAL	TOTAL LENGTH (m)
DN75	PE100 SDR11	45
DN63	PE100 SDR11	519
DN50	PE100 SDR11	220
DN40 (LATERAL)	PE100 SDR11	743

- NOTES:**
- FOR POTABLE WATER PIPEWORK DETAIL PLANS REFER TO DRGS-101 TO 104.
 - FOR RECYCLED WATER PIPEWORK DETAIL PLANS REFER TO DRGS-201 AND 204.
 - FOR TYPICAL SERVICE CONNECTION DETAILS REFER TO DRG-402.
 - 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).
 - ISOLATION VALVE IN NORTHERN END OF STAGE 27 BETWEEN HOGAN LOOP AND RIGBY DRIVE, TO BE CLOSED ON COMMISSIONING OF STAGE 29 SEWER.

CONSTRUCTION ISSUE

REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY	SCALES
A	06.08.2021	PRELIMINARY ISSUE	G.S.	C.B.	G.S.	C.B.	
B	12.10.2021	FOR APPROVAL	G.S.	C.B.	G.S.	C.B.	
0	20.12.2021	FOR CONSTRUCTION	G.S.	C.B.	G.S.	C.B.	
1	03.06.2022	FOR CONSTRUCTION	G.S.	C.B.	G.S.	C.B.	



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

altogether.

CLIENT

PROPERTY DESCRIPTION

PROPOSED SUBDIVISION
 STAGE 31
 HUNTLEE

SURVEYED
 Daly.Smith Pty Ltd

DATUM
 GDA94 MGA56 - A.H.D.

PROJECT
 POTABLE WATER, RECYCLED WATER AND
 PRESSURE SEWER RETICULATION

PLAN TITLE
 PRESSURE SEWER DETAIL
 PLAN - SHEET 1

PROJECT No.
 240037(31)

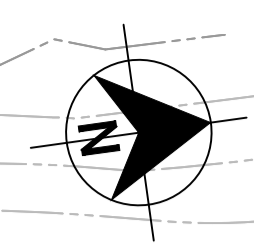
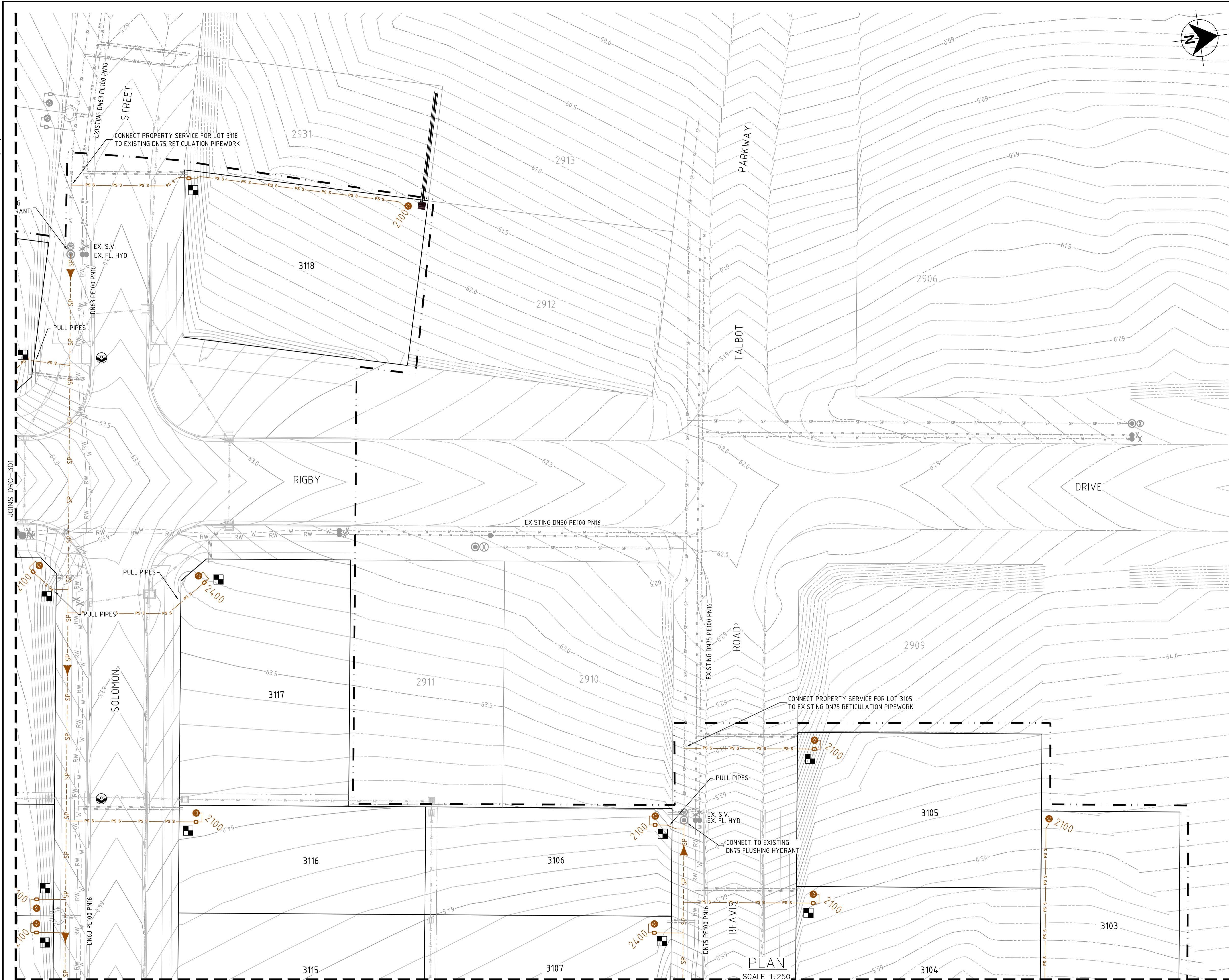
DISCIPLINE
 - WAT -

NUMBER
 301

REV.
 1

240037(31)-WAT-304

100mm AT FULL SIZE



- LEGEND**
- EX PW POTABLE WATER RETICULATION
 - PWS POTABLE WATER PROPERTY SERVICE
 - RW PVC-M RECYCLED WATER RETICULATION
 - RWS RECYCLED WATER PROPERTY SERVICE
 - SP PE PRESSURE SEWER RETICULATION
 - PS S PE PRESSURE SEWER PROPERTY SERVICE
 - EX PW EX PW EXISTING POTABLE WATER RETICULATION
 - EX RW EX RW EXISTING RECYCLED WATER RETICULATION
 - EX PS EX PS EXISTING PRESSURE SEWER RETICULATION
 - SW STORMWATER PIPEWORK
 - I.V. ISOLATION VALVE
 - I.V. (NC) ISOLATION VALVE - NORMALLY CLOSED
 - F.P. FLUSHING POINT
 - WASTEWATER COLLECTION TANK AND BOUNDARY KIT
 - PRESSURE SEWER FLOW DIRECTION (SEE NOTE 7)
 - PROPERTY SERVICE CONNECTION
 - LAY PRESSURE SEWER 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
 - PROPOSED EASEMENT
 - SUBDIVISION STAGE BOUNDARY

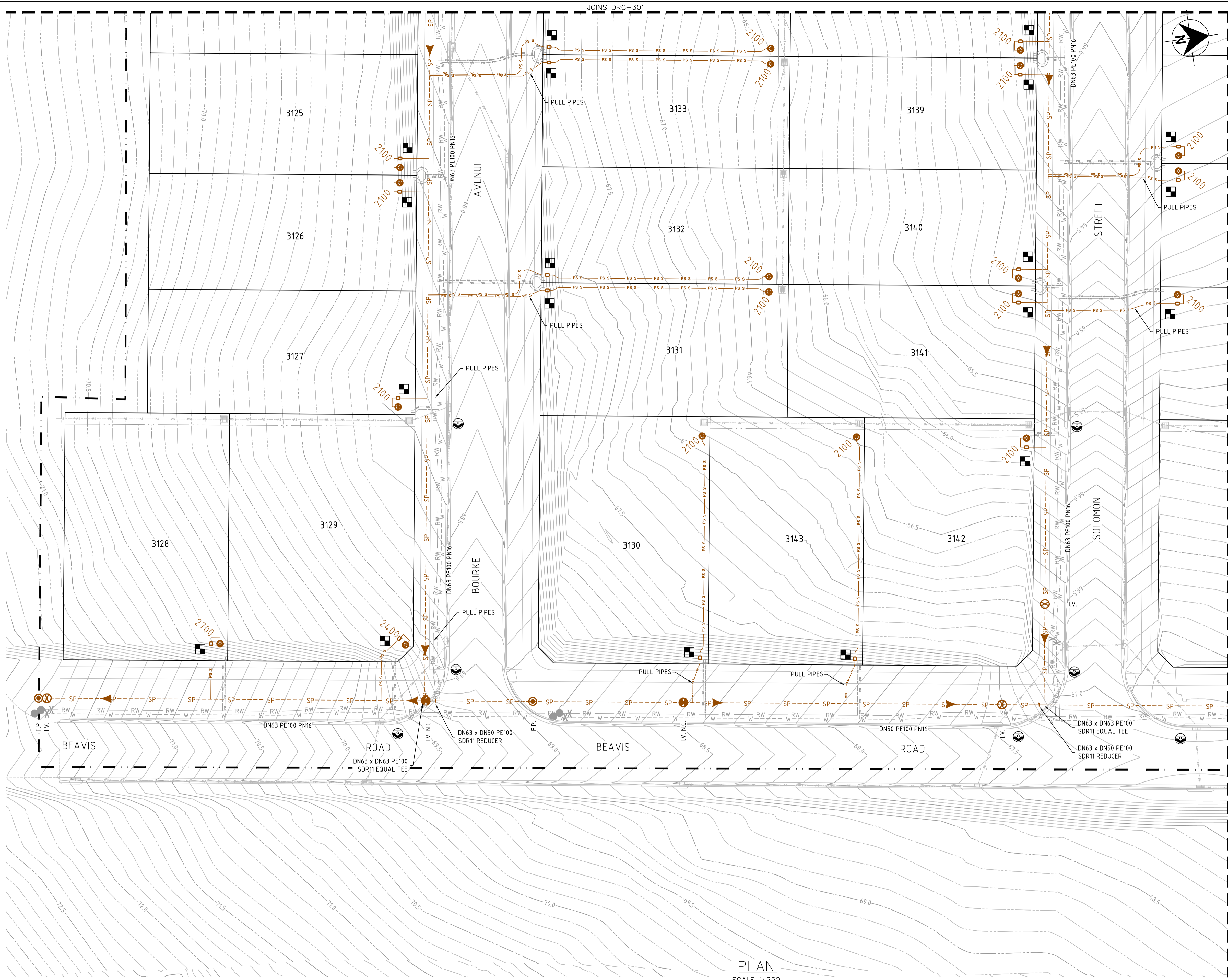
- PRESSURE SEWER PROPERTY SERVICE CONNECTIONS**
 TOTAL 43 CONNECTIONS
 • SINGLE SERVICES
 -30x SHORT SIDE
 -13 x LONG SIDE

PRESSURE SEWER PIPE DATA		
PIPE SIZE (mm)	PIPE MATERIAL	TOTAL LENGTH (m)
DN75	PE100 SDR11	45
DN63	PE100 SDR11	519
DN50	PE100 SDR11	220
DN40 (LATERAL)	PE100 SDR11	743

- NOTES:**
- FOR POTABLE WATER PIPEWORK DETAIL PLANS REFER TO DRGS-101 TO 104.
 - FOR RECYCLED WATER PIPEWORK DETAIL PLANS REFER TO DRGS-201 AND 204.
 - FOR TYPICAL SERVICE CONNECTION DETAILS REFER TO DRG-402.
 - 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).

CONSTRUCTION ISSUE

<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> <th>SCALES</th> </tr> </thead> <tbody> <tr> <td>A</td> <td>06.08.2021</td> <td>PRELIMINARY ISSUE</td> <td>G.S.</td> <td>C.B.</td> <td>G.S.</td> <td>C.B.</td> <td></td> </tr> <tr> <td>B</td> <td>12.10.2021</td> <td>FOR APPROVAL</td> <td>G.S.</td> <td>C.B.</td> <td>G.S.</td> <td>C.B.</td> <td></td> </tr> <tr> <td>0</td> <td>20.12.2021</td> <td>FOR CONSTRUCTION</td> <td>G.S.</td> <td>C.B.</td> <td>G.S.</td> <td>C.B.</td> <td></td> </tr> <tr> <td>1</td> <td>03.06.2022</td> <td>FOR CONSTRUCTION</td> <td>G.S.</td> <td>C.B.</td> <td>G.S.</td> <td>C.B.</td> <td></td> </tr> </tbody> </table>	REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY	SCALES	A	06.08.2021	PRELIMINARY ISSUE	G.S.	C.B.	G.S.	C.B.		B	12.10.2021	FOR APPROVAL	G.S.	C.B.	G.S.	C.B.		0	20.12.2021	FOR CONSTRUCTION	G.S.	C.B.	G.S.	C.B.		1	03.06.2022	FOR CONSTRUCTION	G.S.	C.B.	G.S.	C.B.			<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>	<p>CLIENT</p>	<p>PROPERTY DESCRIPTION</p> <p>PROPOSED SUBDIVISION STAGE 31 HUNTLEE</p>	<p>PROJECT</p> <p>POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION</p>
REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY	SCALES																																						
A	06.08.2021	PRELIMINARY ISSUE	G.S.	C.B.	G.S.	C.B.																																							
B	12.10.2021	FOR APPROVAL	G.S.	C.B.	G.S.	C.B.																																							
0	20.12.2021	FOR CONSTRUCTION	G.S.	C.B.	G.S.	C.B.																																							
1	03.06.2022	FOR CONSTRUCTION	G.S.	C.B.	G.S.	C.B.																																							
<p>DESIGN FILE N:\</p>		<p>ALL DIMENSIONS ARE IN METRES. DO NOT SCALE</p>		<p>PROJECT No. 240037(31)</p>		<p>DISCIPLINE - WAT -</p>		<p>NUMBER 302</p>		<p>REV. 1</p>																																			



LEGEND

- EX PW — 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
- PS S — 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
- I.V. — ISOLATION VALVE
- I.V. (NC) — ISOLATION VALVE - NORMALLY CLOSED
- F.P. — FLUSHING POINT
- WASTEWATER COLLECTION TANK AND BOUNDARY KIT
- PRESSURE SEWER FLOW DIRECTION (SEE NOTE 7)
- PROPERTY SERVICE CONNECTION
- LAY PRESSURE SEWER 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
- PROPOSED EASEMENT
- SUBDIVISION STAGE BOUNDARY

■ PRESSURE SEWER PROPERTY SERVICE CONNECTIONS
 TOTAL 43 CONNECTIONS
 • SINGLE SERVICES
 -30x SHORT SIDE
 -13x LONG SIDE

PRESSURE SEWER PIPE DATA		
PIPE SIZE (mm)	PIPE MATERIAL	TOTAL LENGTH (m)
DN75	PE100 SDR11	45
DN63	PE100 SDR11	519
DN50	PE100 SDR11	220
DN40 (LATERAL)	PE100 SDR11	743

- NOTES:**
- FOR POTABLE WATER PIPEWORK DETAIL PLANS REFER TO DRGS-101 TO 104.
 - FOR RECYCLED WATER PIPEWORK DETAIL PLANS REFER TO DRGS-201 AND 204.
 - FOR TYPICAL SERVICE CONNECTION DETAILS REFER TO DRG-402.
 - 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).

CONSTRUCTION ISSUE

PLAN
SCALE 1:250

REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY	SCALES
A	06.08.2021	PRELIMINARY ISSUE	G.S.	C.B.	G.S.	C.B.	
B	12.10.2021	FOR APPROVAL	G.S.	C.B.	G.S.	C.B.	
0	20.12.2021	FOR CONSTRUCTION	G.S.	C.B.	G.S.	C.B.	
1	03.06.2022	FOR CONSTRUCTION	G.S.	C.B.	G.S.	C.B.	

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

CLIENT

altogether.

PROPERTY DESCRIPTION

PROPOSED SUBDIVISION
 STAGE 31
 HUNTLEE

SURVEYED
 Daly.Smith Pty Ltd

DATUM
 GDA94 MGA56 - A.H.D.

PROJECT
 POTABLE WATER, RECYCLED WATER AND
 PRESSURE SEWER RETICULATION

PLAN TITLE
 PRESSURE SEWER DETAIL
 PLAN - SHEET 3

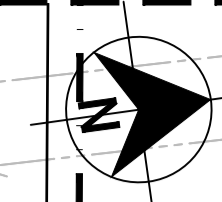
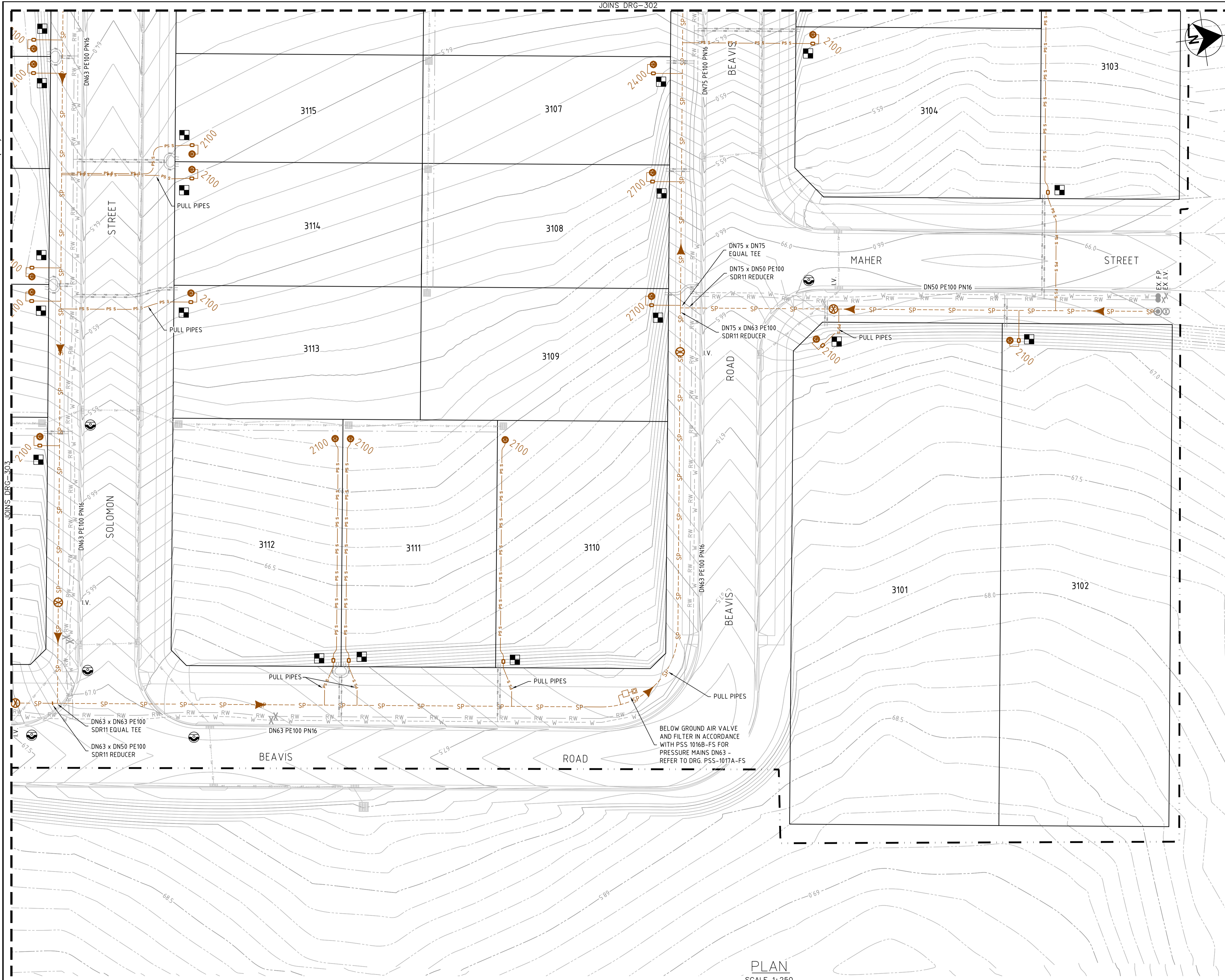
PROJECT No.	DISCIPLINE	NUMBER	REV.
240037(31)	- WAT -	303	1

240037(31)-WAT-304

JOINS DRG-303

100mm AT FULL SIZE

JOINS DRG-302



- LEGEND**
- EX PW — 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
 - PS S — 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
 - I.V. — ISOLATION VALVE
 - I.V. (NC) — ISOLATION VALVE - NORMALLY CLOSED
 - F.P. — FLUSHING POINT
 - WWT — WASTEWATER COLLECTION TANK AND BOUNDARY KIT
 - ▲ — PRESSURE SEWER FLOW DIRECTION (SEE NOTE 7)
 - — PROPERTY SERVICE CONNECTION
 - ⊙ — LAY PRESSURE SEWER 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
 - - - - - PROPOSED EASEMENT
 - - - - - SUBDIVISION STAGE BOUNDARY

■ PRESSURE SEWER PROPERTY SERVICE CONNECTIONS
 TOTAL 43 CONNECTIONS
 • SINGLE SERVICES
 -30x SHORT SIDE
 -13 x LONG SIDE

PRESSURE SEWER PIPE DATA		
PIPE SIZE (mm)	PIPE MATERIAL	TOTAL LENGTH (m)
DN75	PE100 SDR11	45
DN63	PE100 SDR11	519
DN50	PE100 SDR11	220
DN40 (LATERAL)	PE100 SDR11	743

- NOTES:**
- FOR POTABLE WATER PIPEWORK DETAIL PLANS REFER TO DRGS-101 TO 104.
 - FOR RECYCLED WATER PIPEWORK DETAIL PLANS REFER TO DRGS-201 AND 204.
 - FOR TYPICAL SERVICE CONNECTION DETAILS REFER TO DRG-402.
 - 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).

PLAN
 SCALE 1:250

CONSTRUCTION ISSUE

REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY	SCALES
A	06.08.2021	PRELIMINARY ISSUE	G.S.	C.B.	G.S.	C.B.	
B	12.10.2021	FOR APPROVAL	G.S.	C.B.	G.S.	C.B.	
0	20.12.2021	FOR CONSTRUCTION	G.S.	C.B.	G.S.	C.B.	
1	03.06.2022	FOR CONSTRUCTION	G.S.	C.B.	G.S.	C.B.	

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

CLIENT

altogether.

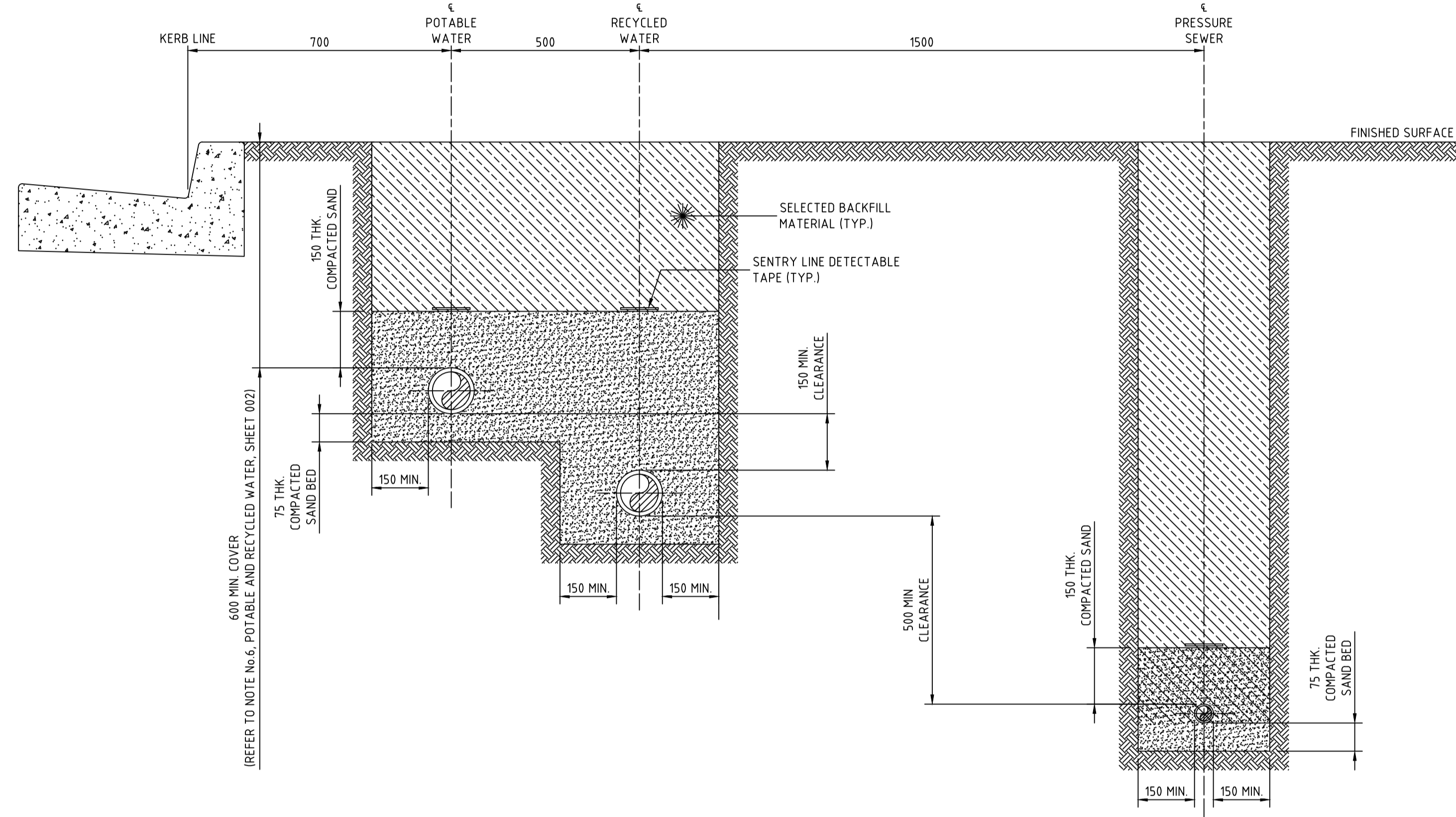
PROPERTY DESCRIPTION

PROPOSED SUBDIVISION
 STAGE 31
 HUNTLEE

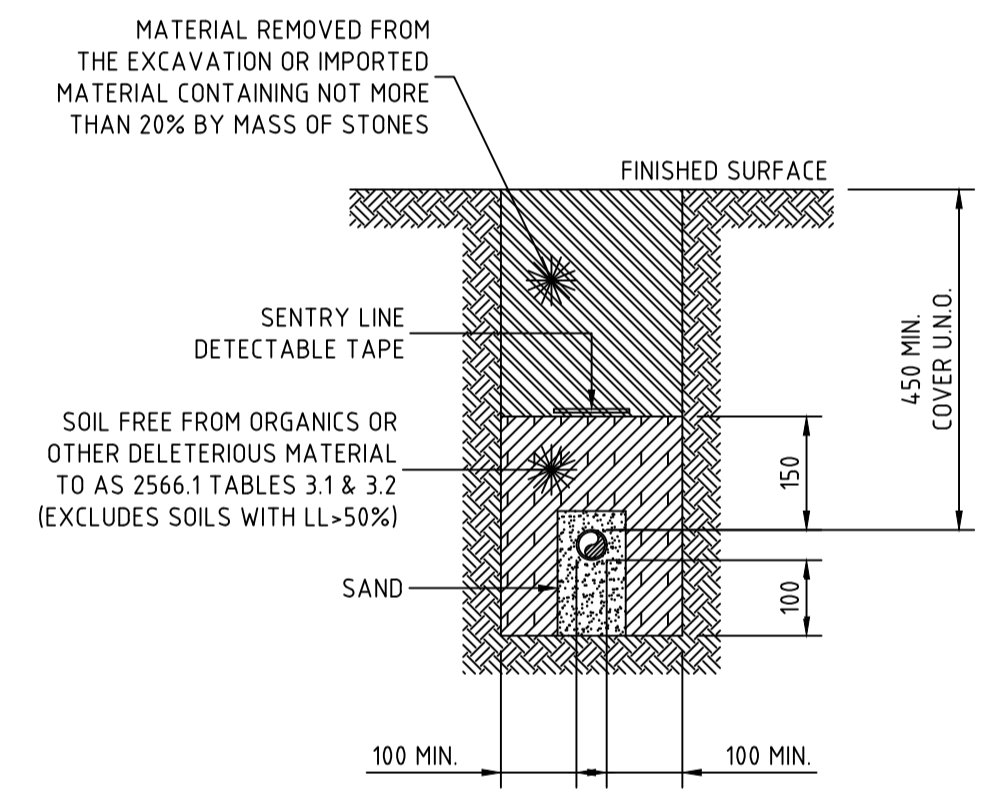
SURVEYED
 Daly.Smith Pty Ltd

DATUM
 GDA94 MGA56 - A.H.D.

PROJECT	POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION		
PLAN TITLE	PRESSURE SEWER DETAIL PLAN - SHEET 4		
PROJECT No.	DISCIPLINE	NUMBER	REV.
240037(31)	- WAT -	304	1



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.

CONSTRUCTION ISSUE

REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY	SCALES
A	06.08.2021	PRELIMINARY ISSUE	G.S.	C.B.	G.S.	C.B.	 A1 / A3 1:10 / 1:20
B	12.10.2021	FOR APPROVAL	G.S.	C.B.	G.S.	C.B.	
0	20.12.2021	FOR CONSTRUCTION	G.S.	C.B.	G.S.	C.B.	
1	03.06.2022	FOR CONSTRUCTION	G.S.	C.B.	G.S.	C.B.	

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

CLIENT

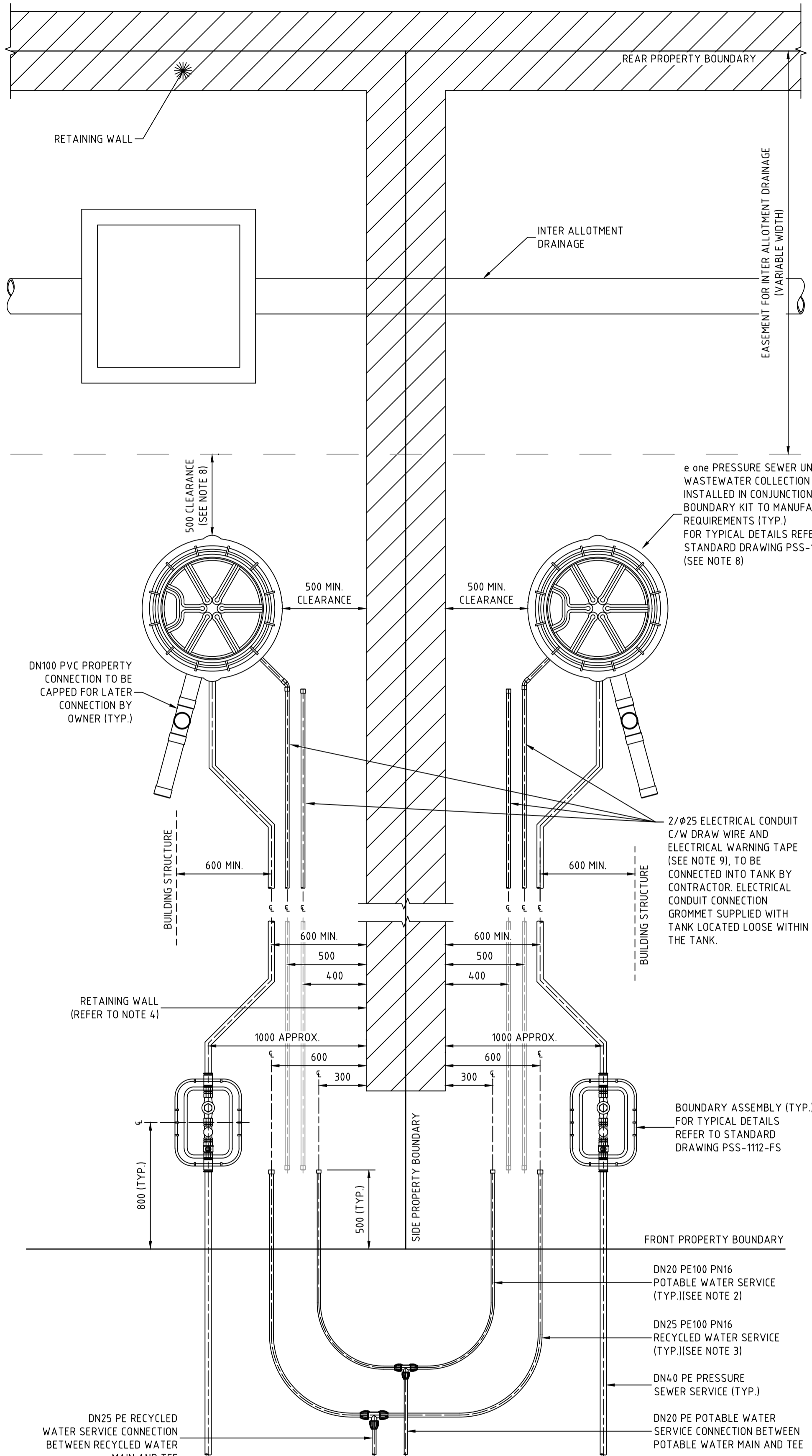
PROPERTY DESCRIPTION

PROPOSED SUBDIVISION
STAGE 31
HUNTLEE

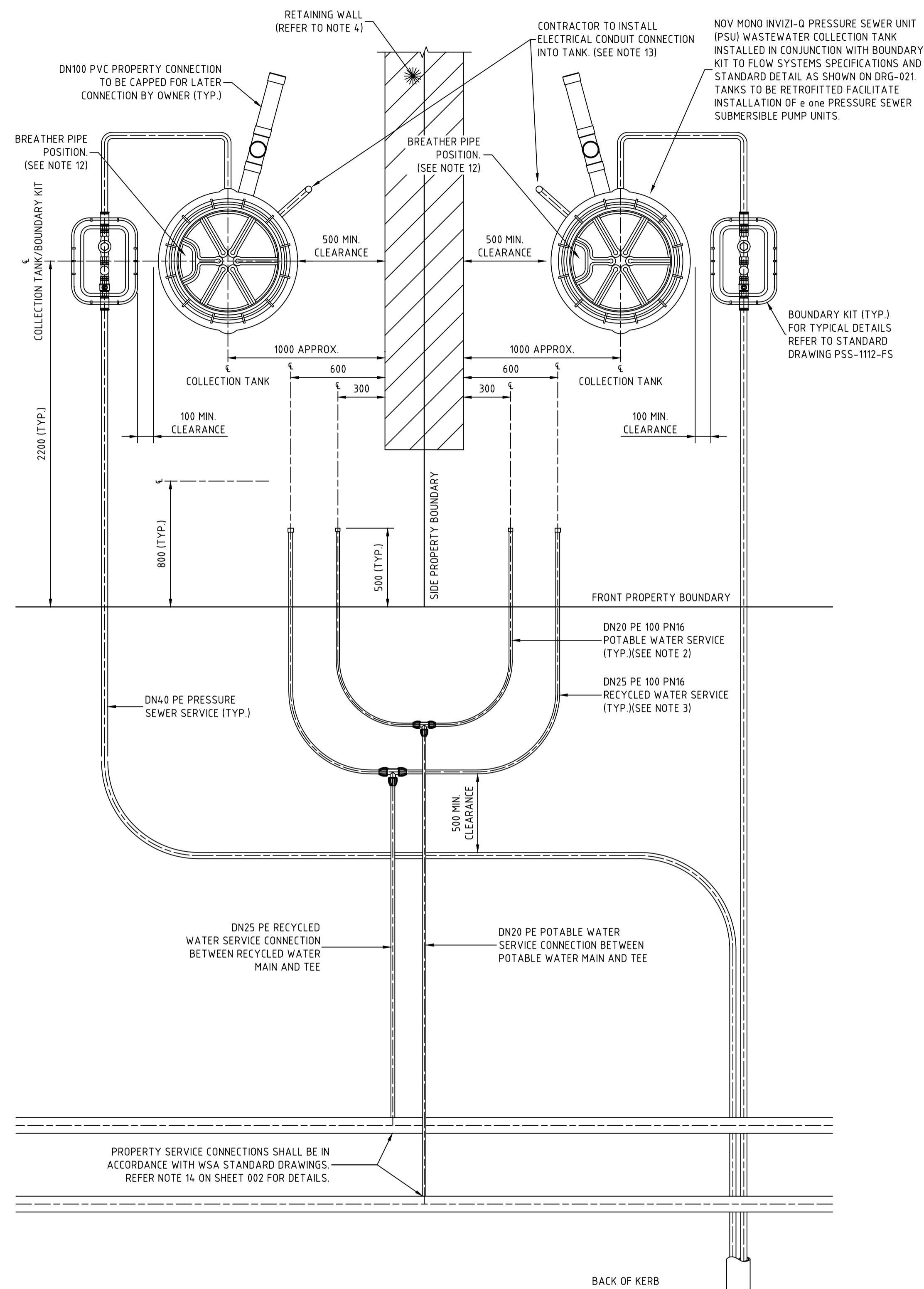
SURVEYED
Daly.Smith Pty Ltd

DATUM
GDA94 MGA56 - A.H.D.

PROJECT	POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION		
PLAN TITLE	TYPICAL PIPEWORK TRENCHING DETAILS		
PROJECT No.	DISCIPLINE	NUMBER	REV.
240037(31)	- WAT -	401	1

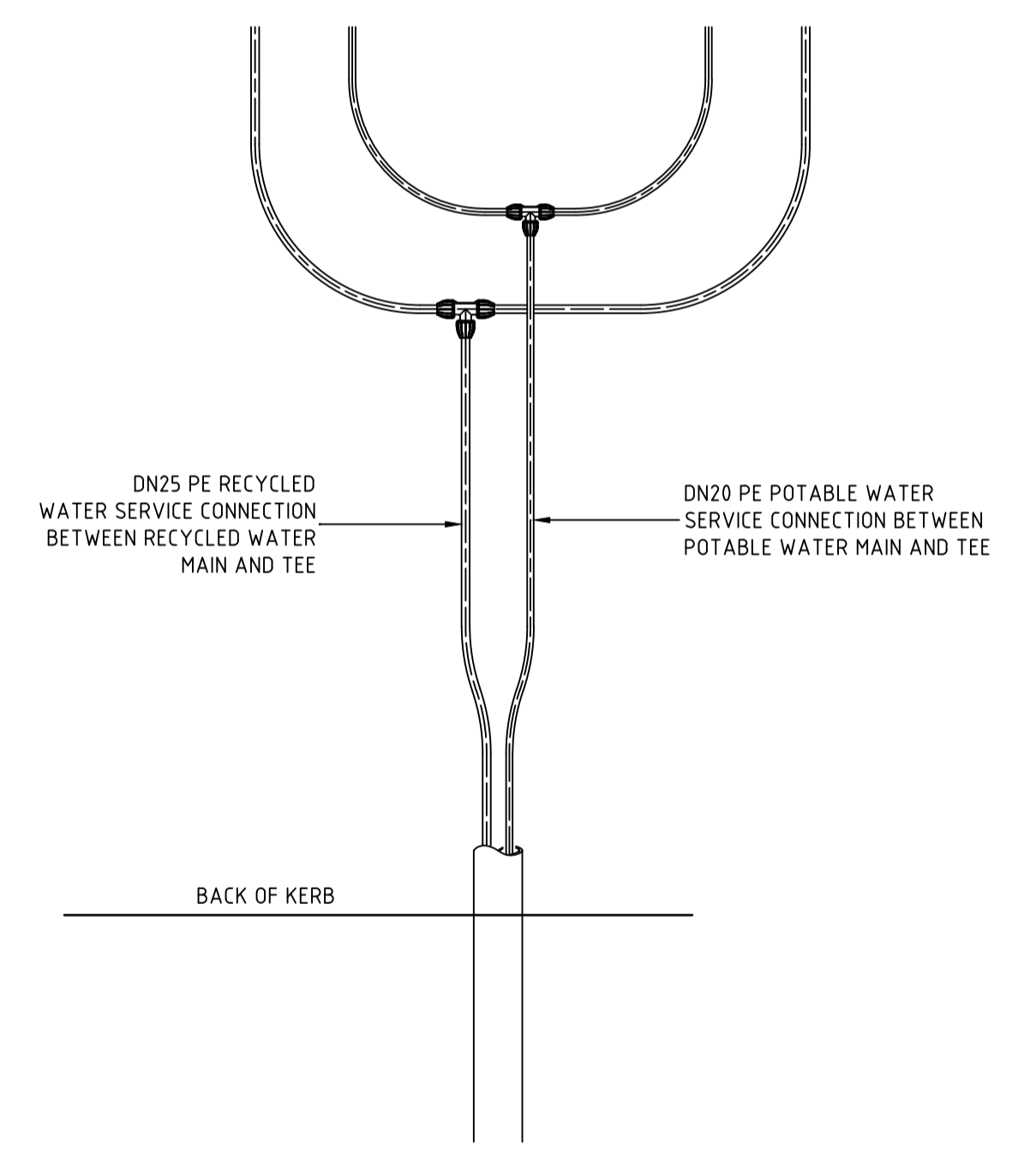


TYPICAL PROPERTY CONNECTION DETAIL
(PRESSURE SEWER UNIT AT REAR)
SCALE 1:20



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 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 INSTALLED IN ACCORDANCE WITH AS3000 AT MIN 500mm COVER. 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.
 - POSITION TANK LID SUCH THAT BREATHER PIPE LOCATION IS ON THE DOWNSLOPE SIDE OF THE BLOCK WHERE POSSIBLE.
 - CONTRACTOR TO INSTALL ELECTRICAL CONDUIT CONNECTION IN ACCORDANCE WITH AS3000 AT MIN 500mm COVER. ELECTRICAL GROMMET SUPPLIED WITH TANK AND LOCATED LOOSE WITHIN TANK. Ø25 CONDUIT TO BE PROVIDED WITH LONG RADIUS SWEEP BEND INTO THE VERTICAL POSITION AND LEFT CAPPED ABOVE GROUND LEVEL FOR FUTURE ELECTRICAL CONNECTION BY ELECTRICIAN ONCE DWELLING IS CONSTRUCTED.



TYPICAL POTABLE WATER AND RECYCLED WATER CONDUIT DETAIL
(LONG SIDE)
SCALE 1:20

CONSTRUCTION ISSUE

REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY	SCALES
A	06.08.2021	PRELIMINARY ISSUE	G.S.	C.B.	G.S.	C.B.	0 0.1 0.2 0.3 0.4 A1 / A3 1:10 / 1:20
B	12.10.2021	FOR APPROVAL	G.S.	C.B.	G.S.	C.B.	
0	20.12.2021	FOR CONSTRUCTION	G.S.	C.B.	G.S.	C.B.	
1	03.06.2022	FOR CONSTRUCTION	G.S.	C.B.	G.S.	C.B.	0 0.4 0.8 A1 / A3 1:20 / 1:40

DESIGN FILE N:\
Plotted By: glenns Plot Date: 03/06/22 - 10:54 Cad File: N:\240037\DWG\Water & Sewer\Stage 31 Water and Sewer\240037(31)-WAT-403.dwg

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

CLIENT

altogether.

PROPERTY DESCRIPTION

PROPOSED SUBDIVISION
STAGE 31
HUNTLEE

SURVEYED
Daly.Smith Pty Ltd

DATUM
GDA94 MGA56 - A.H.D.

PROJECT
POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION

PLAN TITLE
TYPICAL SERVICE CONNECTION DETAILS

PROJECT No.
240037(31)

DISCIPLINE
- WAT -

NUMBER
402

REV.
1

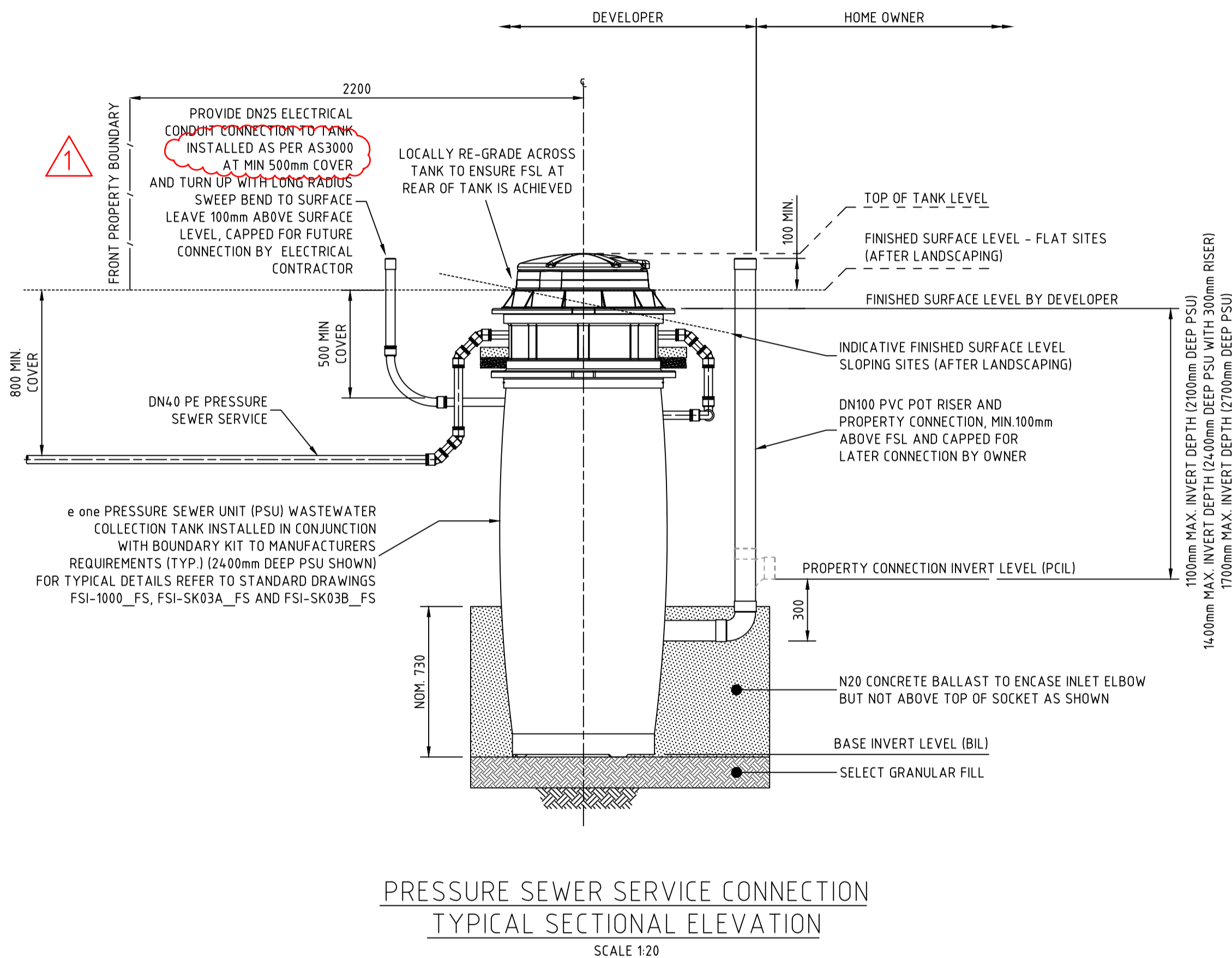


WASTEWATER COLLECTION TANK DETAILS

LOT NUMBER	TOP OF TANK	TANK FSL	BASE IL	CONNECTION IL	TANK HEIGHT	TANK LOCATION	EASTING	NORTHING
3101	66.64	66.51	64.51	65.41	2100	FRONT BATTER	347033.54	6382731.87
3102	66.94	66.81	64.81	65.71	2100	FRONT BATTER	347037.18	6382756.65
3103	64.98	64.85	62.85	63.75	2100	REAR	346988.99	6382768.56
3104	65.08	64.95	62.95	63.85	2100	FRONT	347012.29	6382734.24
3105	63.72	63.59	61.59	62.49	2100	FRONT	346974.67	6382739.80
3106	64.50	64.37	62.37	63.27	2100	FRONT	346981.57	6382717.96
3107	64.92	64.79	62.49	63.39	2400	FRONT	346995.42	6382715.91
3108	65.36	65.23	62.63	63.53	2700	FRONT BATTER	347009.27	6382713.86
3109	66.16	66.03	63.43	64.33	2700	FRONT BATTER	347025.09	6382711.52
3110	66.17	66.04	64.04	64.94	2100	REAR	347040.87	6382690.19
3111	65.89	65.76	63.76	64.66	2100	REAR	347037.97	6382670.40
3112	65.89	65.76	63.76	64.66	2100	REAR	347037.67	6382668.42
3113	65.12	64.99	62.99	63.89	2100	FRONT	347016.45	6382652.56
3114	64.61	64.48	62.48	63.38	2100	FRONT	347000.62	6382654.89
3115	64.57	64.44	62.44	63.34	2100	FRONT	346998.64	6382655.19
3116	64.07	63.94	61.94	62.84	2100	FRONT	346972.92	6382658.99
3117	63.34	63.21	61.21	62.11	2100	FRONT	346942.47	6382663.55
3118	61.55	61.42	59.42	60.32	2100	REAR	346898.67	6382697.16
3119	64.16	64.03	62.03	62.93	2100	FRONT BATTER	346914.25	6382643.31
3120	65.50	65.37	63.37	64.27	2100	REAR	346892.83	6382615.65
3121	68.22	68.09	66.09	66.99	2100	FRONT	346902.35	6382563.44
3122	68.23	68.10	66.10	67.00	2100	FRONT BATTER	346928.45	6382563.67
3123	68.45	68.32	66.32	67.22	2100	FRONT BATTER	346955.34	6382559.69
3124	68.47	68.34	66.34	67.24	2100	FRONT BATTER	346957.32	6382559.40
3125	68.82	68.69	66.69	67.59	2100	FRONT BATTER	346986.20	6382555.13
3126	68.85	68.72	66.72	67.62	2100	FRONT BATTER	346988.18	6382554.84
3127	68.61	68.48	66.48	67.38	2100	FRONT	347016.87	6382550.60
3128	70.51	70.38	67.78	68.68	2700	FRONT BATTER	347017.02	6382527.53
3129	69.35	69.22	66.92	67.82	2400	FRONT	347047.51	6382547.28
3130	66.53	66.40	64.40	65.30	2100	REAR	347026.04	6382589.07
3131	66.50	66.37	64.37	65.27	2100	REAR	347008.78	6382600.21
3132	66.49	66.36	64.36	65.26	2100	REAR	347006.80	6382600.50
3133	66.53	66.40	64.40	65.30	2100	REAR	346979.59	6382604.53
3134	66.53	66.40	64.40	65.30	2100	REAR	346977.62	6382604.82
3135	66.45	66.32	64.32	65.22	2100	FRONT	346933.55	6382602.74
3136	65.46	65.33	63.33	64.23	2100	FRONT	346936.45	6382622.53
3137	64.30	64.17	62.17	63.07	2100	FRONT BATTER	346938.28	6382643.29
3138	64.81	64.68	62.68	63.58	2100	FRONT BATTER	346982.30	6382636.78
3139	64.83	64.70	62.70	63.60	2100	FRONT BATTER	346984.28	6382636.49
3140	65.05	64.92	62.92	63.82	2100	FRONT	347011.48	6382632.47
3141	65.13	65.00	63.00	63.90	2100	FRONT	347013.46	6382632.17
3142	66.04	65.91	63.91	64.81	2100	REAR	347032.14	6382630.63
3143	66.61	66.48	64.48	65.38	2100	REAR	347028.94	6382608.86

WASTEWATER COLLECTION TANK COUNT

TANK SIZE	NUMBER OF
2100	38
2400	2
2700	3



PRESSURE SEWER SERVICE CONNECTION
TYPICAL SECTIONAL ELEVATION
SCALE 1:20

CONSTRUCTION ISSUE

<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>06.08.2021</td> <td>PRELIMINARY ISSUE</td> <td>G.S.</td> <td>C.B.</td> <td>G.S.</td> <td>C.B.</td> </tr> <tr> <td>B</td> <td>12.10.2021</td> <td>FOR APPROVAL</td> <td>G.S.</td> <td>C.B.</td> <td>G.S.</td> <td>C.B.</td> </tr> <tr> <td>0</td> <td>20.12.2021</td> <td>FOR CONSTRUCTION</td> <td>G.S.</td> <td>C.B.</td> <td>G.S.</td> <td>C.B.</td> </tr> <tr> <td>1</td> <td>03.06.2022</td> <td>FOR CONSTRUCTION</td> <td>G.S.</td> <td>C.B.</td> <td>G.S.</td> <td>C.B.</td> </tr> </tbody> </table>	REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY	A	06.08.2021	PRELIMINARY ISSUE	G.S.	C.B.	G.S.	C.B.	B	12.10.2021	FOR APPROVAL	G.S.	C.B.	G.S.	C.B.	0	20.12.2021	FOR CONSTRUCTION	G.S.	C.B.	G.S.	C.B.	1	03.06.2022	FOR CONSTRUCTION	G.S.	C.B.	G.S.	C.B.	<p>SCALES</p> <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 31 HUNTLEE</p>	<p>PROJECT</p> <p>POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION</p>	<p>PLAN TITLE</p> <p>WASTE WATER COLLECTION TANK LEVEL DETAILS</p>	<p>PROJECT No.</p> <p>240037(31)</p>	<p>DISCIPLINE</p> <p>- WAT -</p>	<p>NUMBER</p> <p>403</p>	<p>REV.</p> <p>1</p>
REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY																																							
A	06.08.2021	PRELIMINARY ISSUE	G.S.	C.B.	G.S.	C.B.																																							
B	12.10.2021	FOR APPROVAL	G.S.	C.B.	G.S.	C.B.																																							
0	20.12.2021	FOR CONSTRUCTION	G.S.	C.B.	G.S.	C.B.																																							
1	03.06.2022	FOR CONSTRUCTION	G.S.	C.B.	G.S.	C.B.																																							

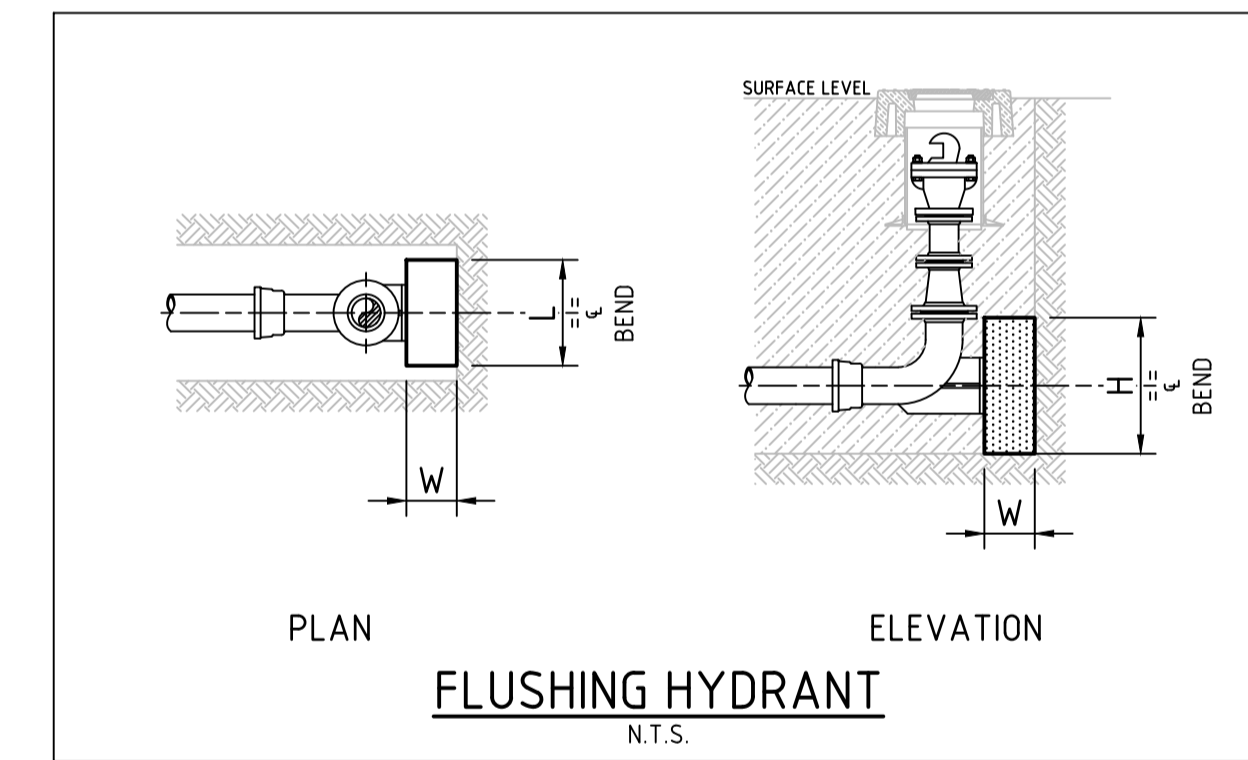
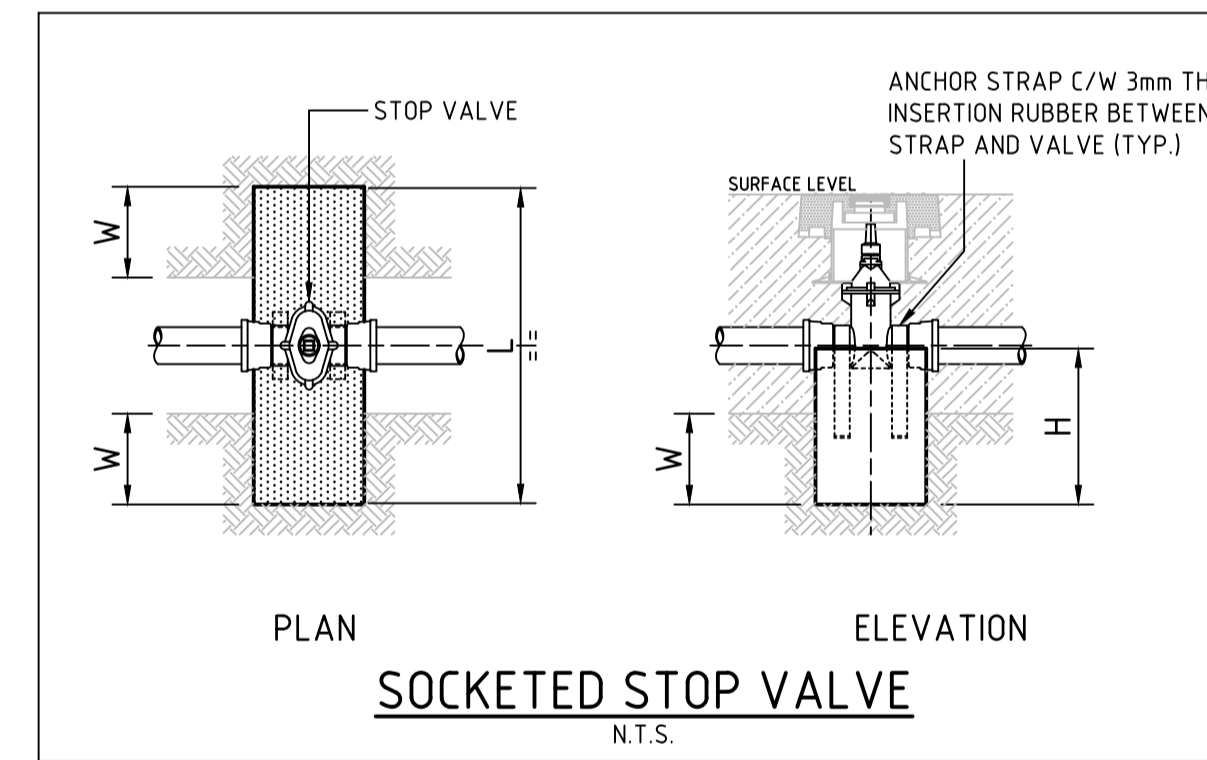
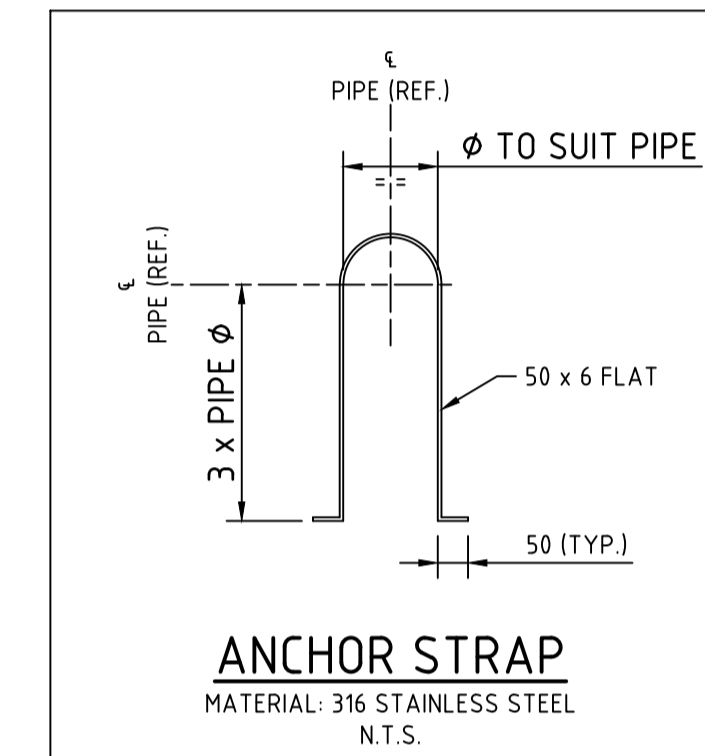
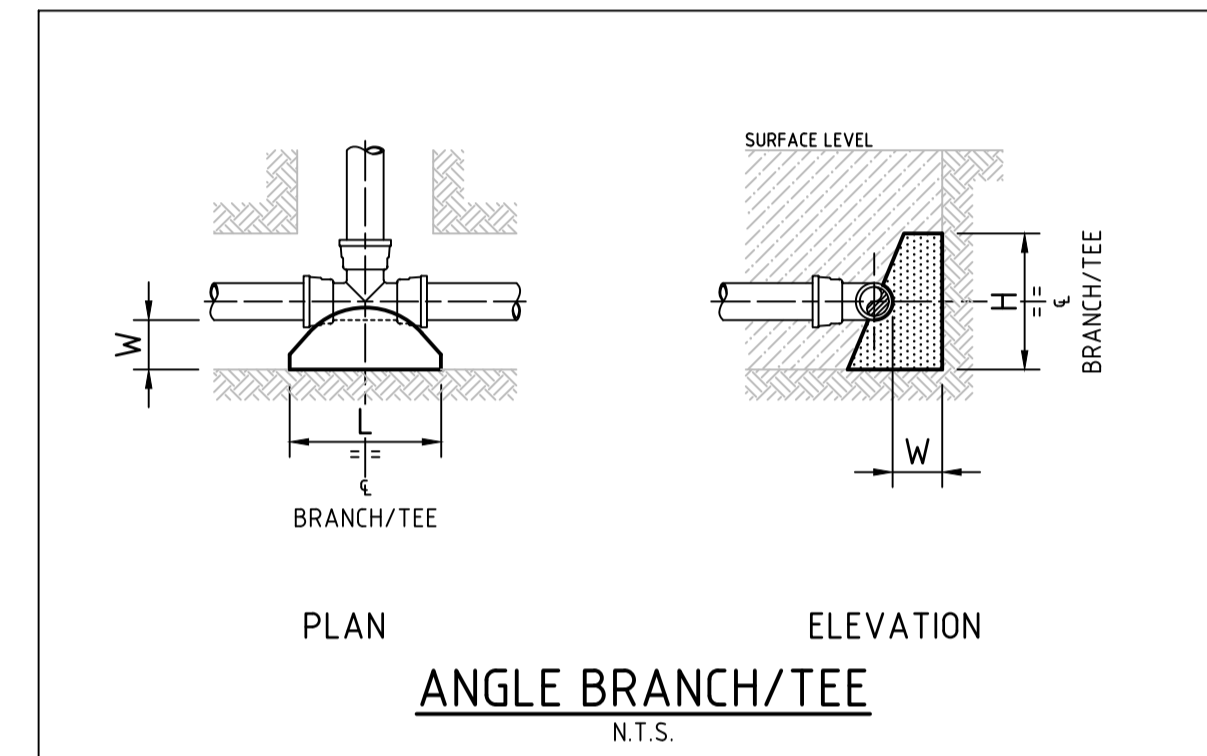


DIAL 1100
BEFORE YOU DIG

THRUST BLOCK NOTES:

- "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.
- 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. 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.
- THRUST BLOCK TO EXTEND 300mm MINIMUM INTO BASE AND SIDE WALLS OF TRENCH.
- PROVIDE 3mm THK. INSERTION RUBBER BETWEEN ANCHOR STRAP AND PIPE BARREL.

TYPE	FITTING	SOIL AHBP (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	0.40	0.30
2	DN100 x 90° HORIZONTAL BEND	100	1500	25.50	0.26	0.55	0.47	0.30
3	DN150 x 90° HORIZONTAL BEND	100	1500	52.5	0.53	0.6	0.88	0.30
4	DN100 SOCKETED STOP VALVE	100	1500	18.00	0.18	1.05	0.44	0.30
5	DN100 FLUSHING HYDRANT	100	1500	18.00	0.18	0.45	0.40	0.30
6	DN150 x DN100 REDUCING TEE	100	1500	18.00	0.18	0.40	0.45	0.30
7	DN150 SOCKETED STOP VALVE	100	1500	37.50	0.38	1.05	0.46	0.30
8	DN150 FLUSHING HYDRANT	100	1500	37.50	0.38	0.50	0.76	0.30



CONSTRUCTION ISSUE

REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY	SCALES
A	06.08.2021	PRELIMINARY ISSUE	G.S.	C.B.	G.S.	C.B.	
B	12.10.2021	FOR APPROVAL	G.S.	C.B.	G.S.	C.B.	
0	20.12.2021	FOR CONSTRUCTION	G.S.	C.B.	G.S.	C.B.	
1	03.06.2022	FOR CONSTRUCTION	G.S.	C.B.	G.S.	C.B.	

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

CLIENT

PROPERTY DESCRIPTION
 PROPOSED SUBDIVISION
 STAGE 31
 HUNTLEE
 SURVEYED
 Daly.Smith Pty Ltd
 DATUM
 GDA94 MGA56 - A.H.D.

PROJECT
 POTABLE WATER, RECYCLED WATER AND
 PRESSURE SEWER RETICULATION
 PLAN TITLE
 THRUST BLOCK DETAILS
 PROJECT No.
 240037(31)
 DISCIPLINE
 - WAT -
 NUMBER
 404
 REV.
 1

100mm AT FULL SIZE