

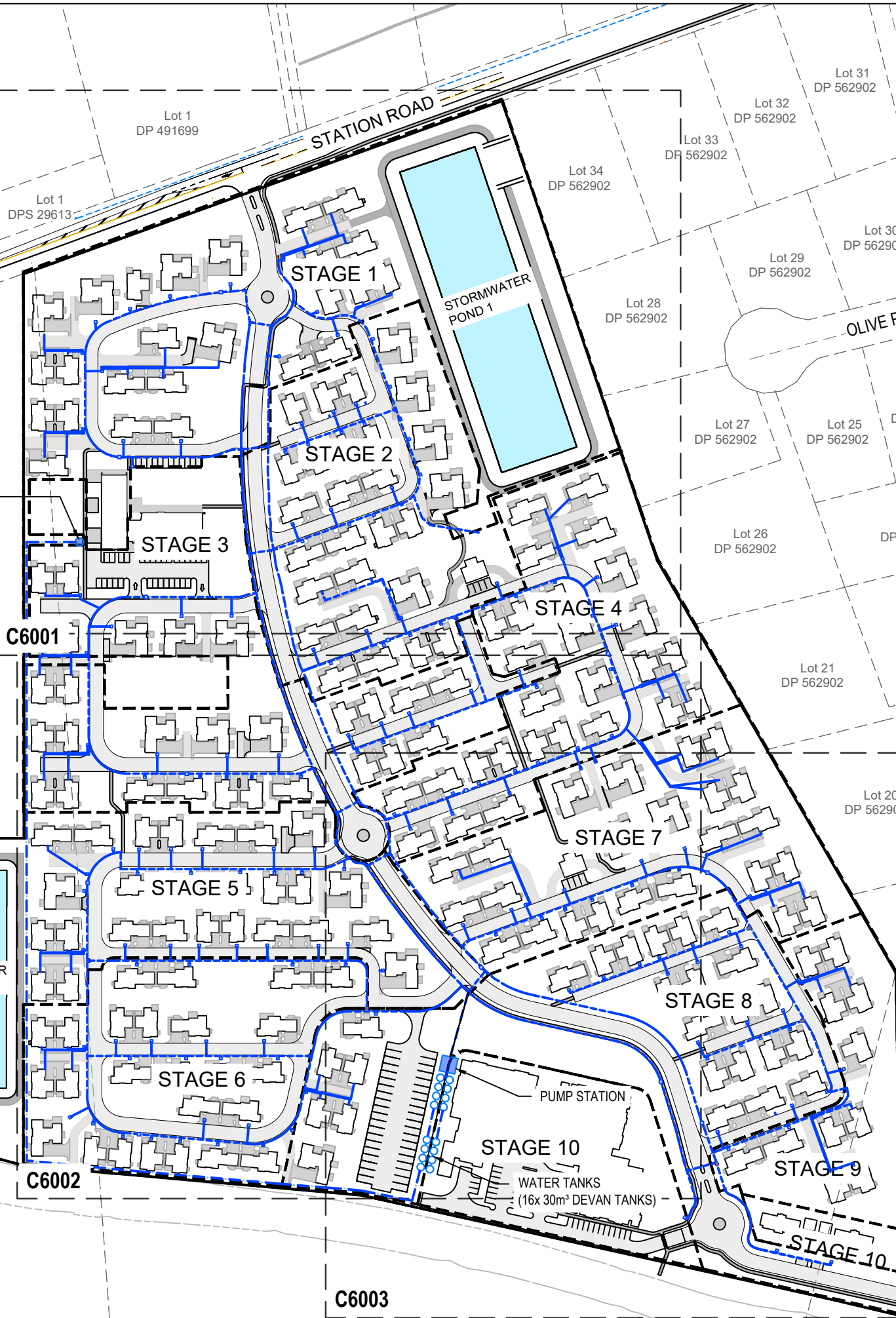
DATE: 6/2/25  
FILE PATH: F:\MAVEN MATAMATA\1. PROJECTS\J00606 UDL - HEMMINGS STATION RD\8. DRAWING\2. CAD\3. DESIGN\C6000 - WS.DWG



ORIGINAL SIZE: A3  
150mm  
100  
80  
60  
40  
20  
0

Part Lot 1  
DP 21055

BOREHOLE LOCATION



- Notes
1. All works to be in accordance with RITS standards.
  2. Co-ordinates in terms of Mount Eden 2000.
  3. Reduced Levels are in terms of NZVD 2016.
  4. It is the contractors responsibility to locate all services that may be affected by their operations.
  5. The contractor shall comply with all relevant OSH and Health & Safety requirements.
  6. The contractor shall obtain all necessary approval from utility operators before commencing work under or near their services.
  7. Minimum clearances & cover shall be in accordance with Local Council standards.
  8. Approved hardfill to be used in backfilling of all road crossings and vehicle crossings to Local Council standards.
  9. Watermains laid across roads shall be backfilled and compacted in 200mm layers above the embedment material.
  10. All uPVC pipe shall be PN12 minimum pressure rated with spigot and socket rubber ring joints.
  11. All PE pipe shall be PN12.5 minimum pressure rated and butt-welded. Weld beads shall be removed to provide a smooth bore.
  12. All non-metalic pipes are to have tracer wire fitted according to Local Council standards.

Legend

---	EX BDY
---	PROP BDY
---	STAGGING BDY
---	EX WATERMAIN
---	PROP WATERMAIN
---	EX/PROP HYDRANT
---	EX/PROP METER
---	EX SLUICE VALVE
---	EX PEAT VALVE
---	PROP SLUICE VALVE
---	PROP PEAT VALVE

B	FOR CONSENT	MS	04/25
A	FOR REVIEW	DP	01/25
Rev	Description	By	Date
		By	Date
Survey	MAVEN		10/2024
Design	DP		10/2024
Drawn	DP		10/2024
Checked	SB		10/2024



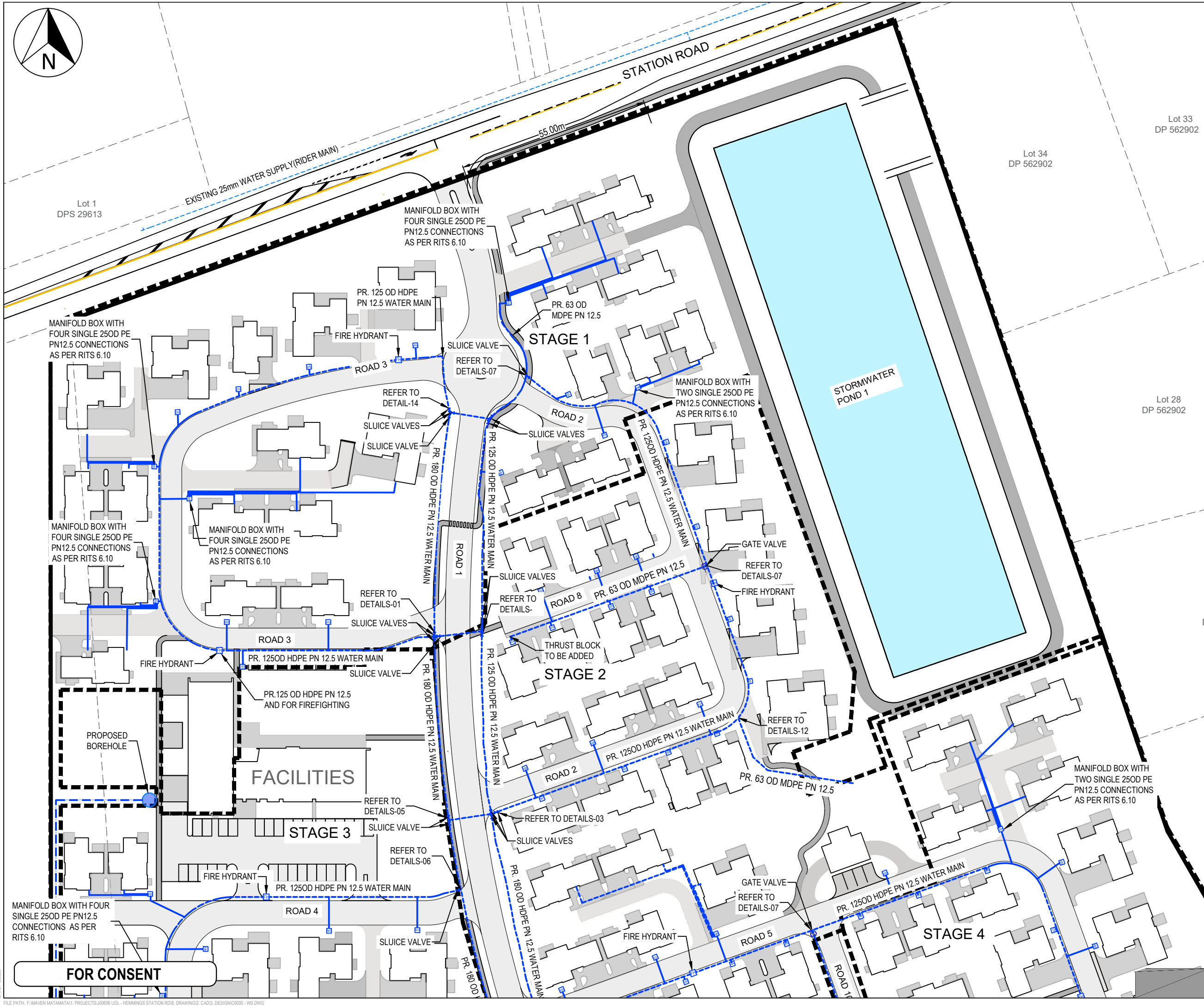
Project  
**ASHBOURNE  
RETIREMENT VILLAGE  
MATAMATA  
FOR  
UNITY DEVELOPMENT LTD**

Title  
**PROPOSED WATER  
SUPPLY OVERVIEW  
PLAN**

Project no.	J00606		
Scale	1:2500@A3		
Cad file	C6000 - WS.DWG		
Drawing no.	C6000	Rev	<b>B</b>

**FOR CONSENT**

DATE: 6/2/2024  
FILE PATH: F:\MAVEN MATAMATA\1. PROJECTS\J00606 UDL - HEMMINGS STATION RD8. DRAWING\2. CAD\3. DESIGN\CR000 - WS.DWG



- Notes
1. All works to be in accordance with RITS standards.
  2. Co-ordinates in terms of Mount Eden 2000.
  3. Reduced Levels are in terms of NZVD 2016.
  4. It is the contractors responsibility to locate all services that may be affected by their operations.
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  12. All non-metallic pipes are to have tracer wire fitted according to Local Council standards.

Legend

---	EX BDY
---	PROP BDY
---	STAGING BDY
---	EX WATERMAIN
---	PROP WATERMAIN
---	OVERHEAD POWER
FH	EX/PROP HYDRANT
MM	EX/PROP METER
⊗	EX SLUICE VALVE
⊗	EX PEAT VALVE
⊗	PROP SLUICE VALVE
⊗	PROP PEAT VALVE

B	FOR CONSENT	MS	04/25
A	FOR REVIEW	DP	01/25
Rev	Description	By	Date
Survey	MAVEN		10/2024
Design	DP		10/2024
Drawn	DP		10/2024
Checked	SB		10/2024

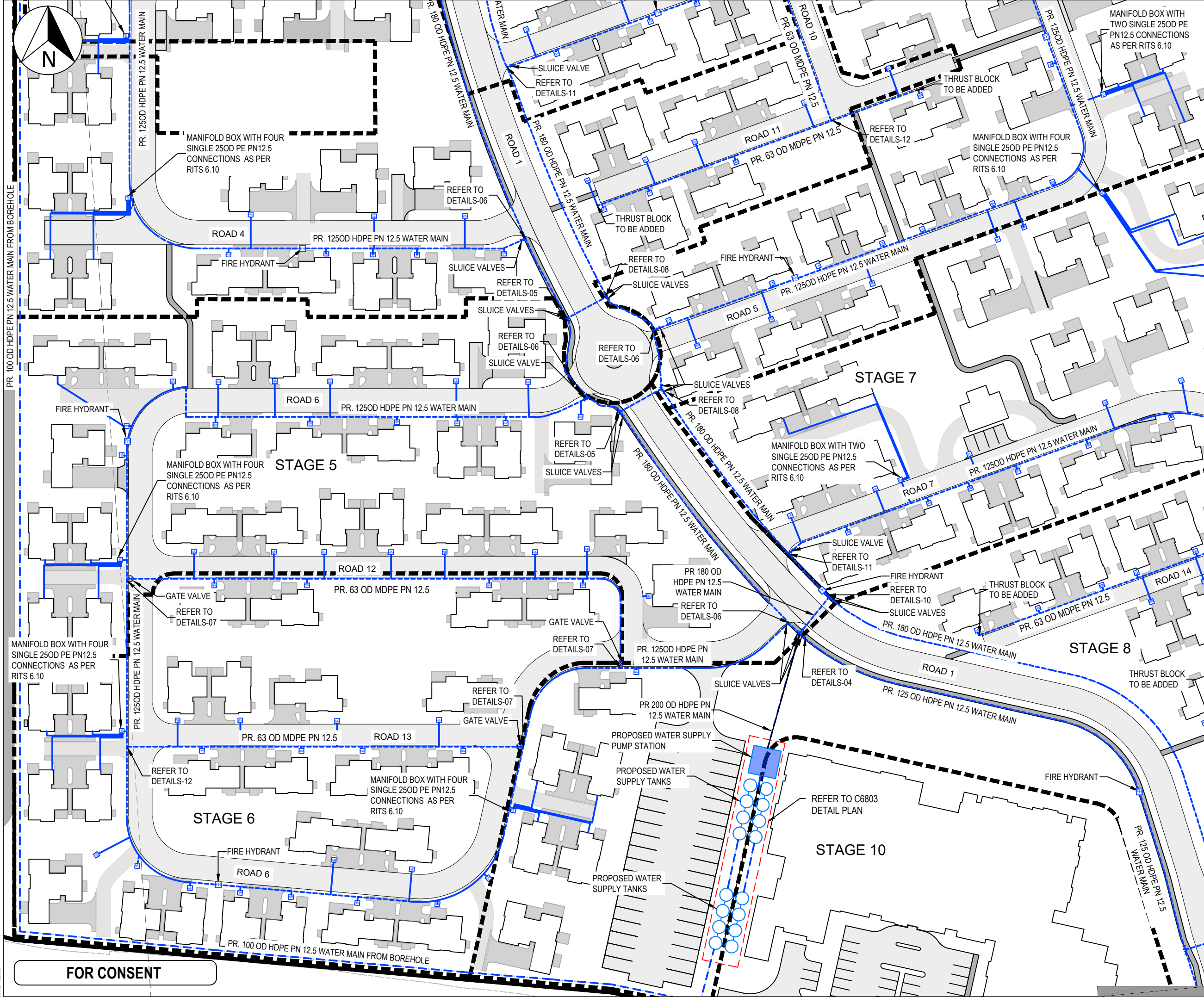


Project  
**ASHBOURNE  
RETIREMENT VILLAGE  
MATAMATA  
FOR  
UNITY DEVELOPMENT LTD**

Title  
**PROPOSED  
WATER SUPPLY PLAN  
SHEET 1 OF 4**

Project no.	J00606
Scale	1:1000@A3
Cad file	C6000 - WS.DWG
Drawing no.	C6001
Rev	B





- Notes
1. All works to be in accordance with RITS standards.
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  8. Approved hardfill to be used in backfilling of all road crossings and vehicle crossings to Local Council standards.
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  12. All non-metallic pipes are to have tracer wire fitted according to Local Council standards.

Legend

---	EX BDY
---	PROP BDY
---	STAGING BDY
---	EX WATERMAIN
---	PROP WATERMAIN
---	OVERHEAD POWER
FH	EX/PROP HYDRANT
MM	EX/PROP METER
X	EX SLUICE VALVE
⊗	EX PEAT VALVE
⊕	PROP SLUICE VALVE
⊕	PROP PEAT VALVE

B	FOR CONSENT	MS	04/25
A	FOR REVIEW	DP	01/25
Rev	Description	By	Date
Survey	MAVEN		10/2024
Design	MAVEN		10/2024
Drawn	DP		10/2024
Checked	SB		10/2024

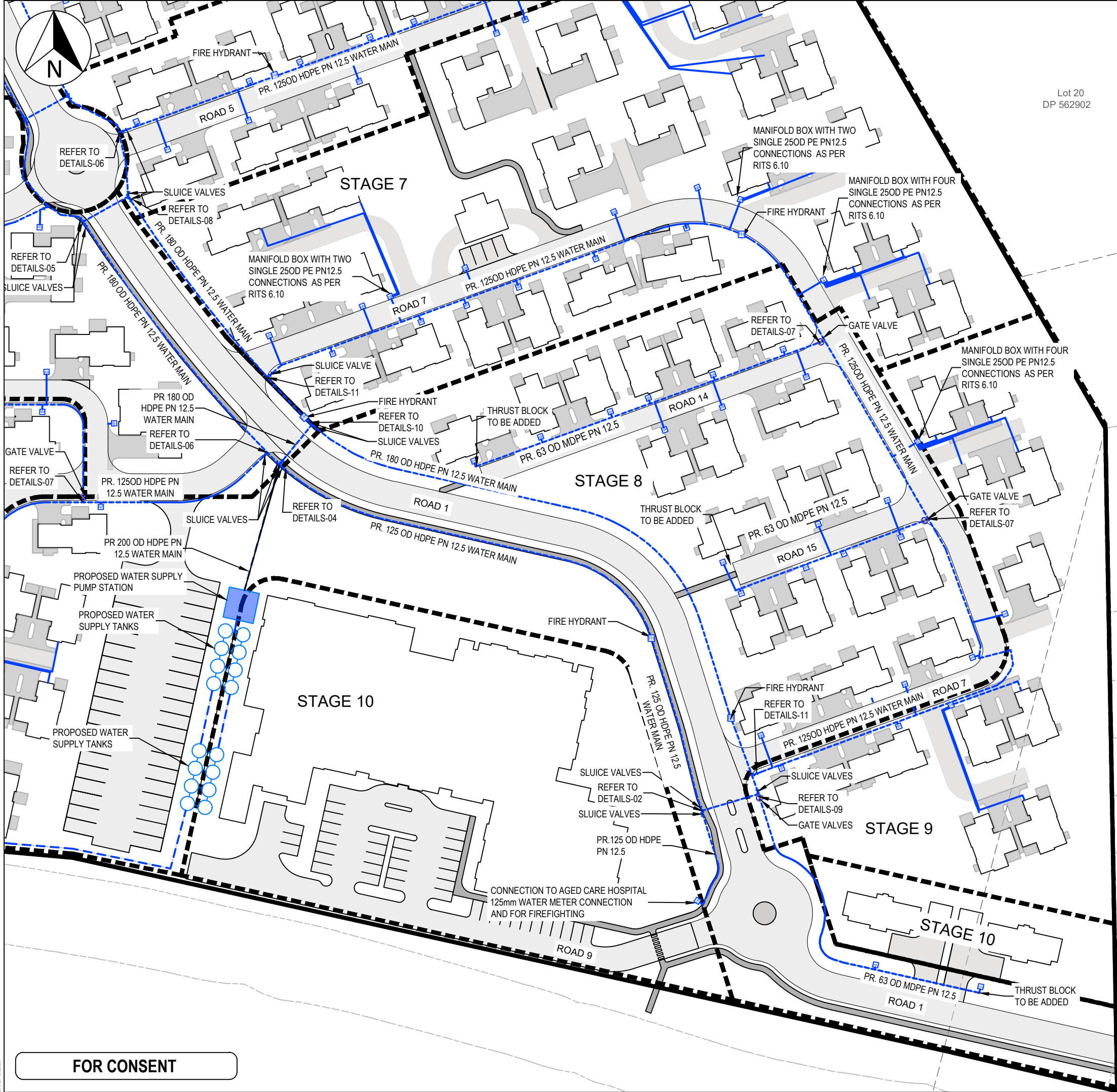


**ASHBOURNE  
RETIREMENT VILLAGE  
MATAMATA  
FOR  
UNITY DEVELOPMENT LTD**

Title	
<b>PROPOSED WATER SUPPLY PLAN SHEET 2 OF 4</b>	
Project no.	J00606
Scale	1:1000@A3
Cad file	C6000 - WS.DWG
Drawing no.	C6002
Rev	<b>B</b>



DATE: 6/2/25  
FILE PATH: F:\MAVEN MATAMATA\1. PROJECTS\J00606 UOL - HEMMINGS STATION RD\8. DRAWING\2. CAD\3. DESIGN\CR000 - WS.DWG



- Notes
1. All works to be in accordance with RITS standards.
  2. Co-ordinates in terms of Mount Eden 2000.
  3. Reduced Levels are in terms of NZVD 2016.
  4. It is the contractors responsibility to locate all services that may be affected by their operations.
  5. The contractor shall comply with all relevant OSH and Health & Safety requirements.
  6. The contractor shall obtain all necessary approval from utility operators before commencing work under or near their services.
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Legend

---	EX BDY
---	PROP BDY
---	STAGING BDY
---	EX WATERMAIN
---	PROP WATERMAIN
---	OVERHEAD POWER
FH	EX/PROP HYDRANT
WM	EX/PROP METER
SV	EX SLUICE VALVE
PE	EX PEAT VALVE
SV	PROP SLUICE VALVE
PE	PROP PEAT VALVE

B	FOR CONSENT	MS	04/25
A	FOR REVIEW	DP	01/25
Rev	Description	By	Date
Survey	MAVEN		10/2024
Design	DP		11/2024
Drawn	DP		11/2024
Checked	SB		11/2024



Project  
**ASHBOURNE  
RETIREMENT VILLAGE  
MATAMATA  
FOR  
UNITY DEVELOPMENT LTD**

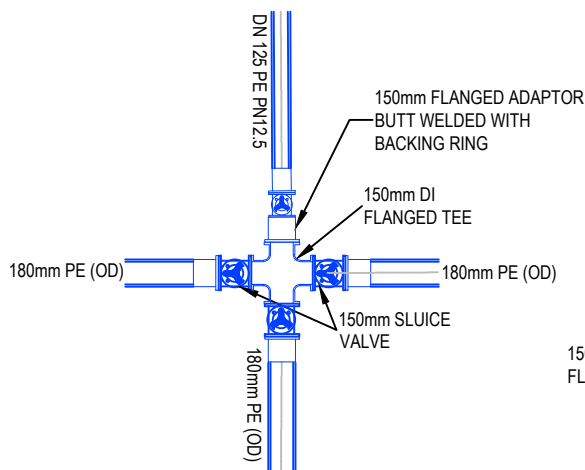
Title  
**PROPOSED  
WATER SUPPLY PLAN  
SHEET 3 OF 4**

Project no.	J00606
Scale	1:1000@A3
Cad file	C6000 - WS.DWG
Drawing no.	C6003
Rev	<b>B</b>

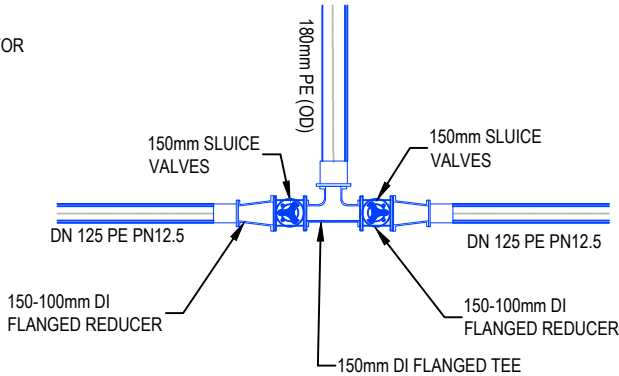
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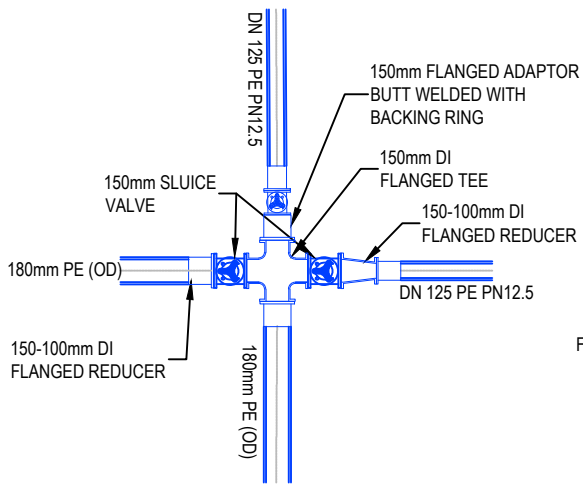
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DATE: 21/02/2025  
FILE: F:\MAVEN MATAMATA\1. Projects\J00606 UDL - Hermerings Station Rd\6. Drawing\2. CAD\3. Design\C6500 - WSSDDwg.dwg



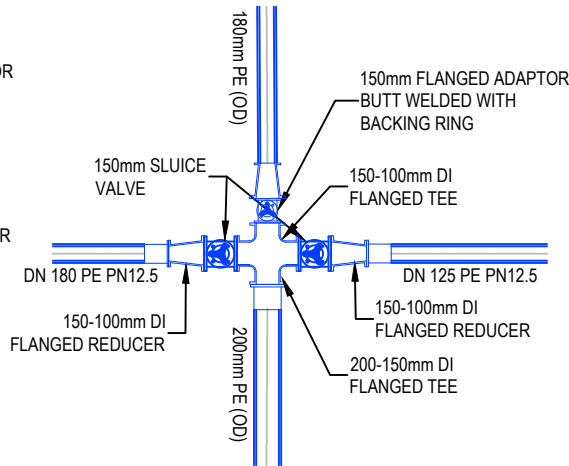
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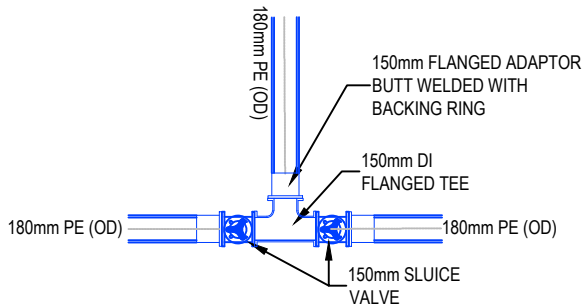
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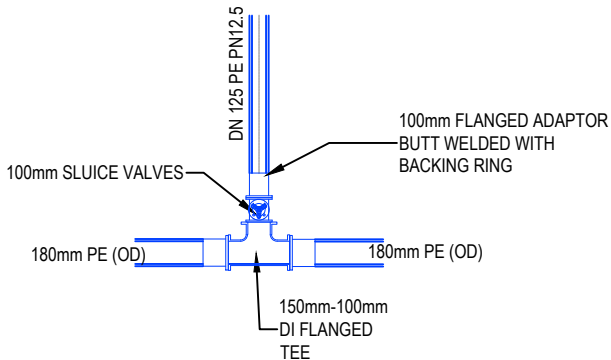
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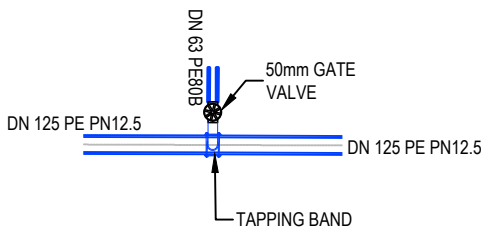
CONNECTION DETAILS - 04



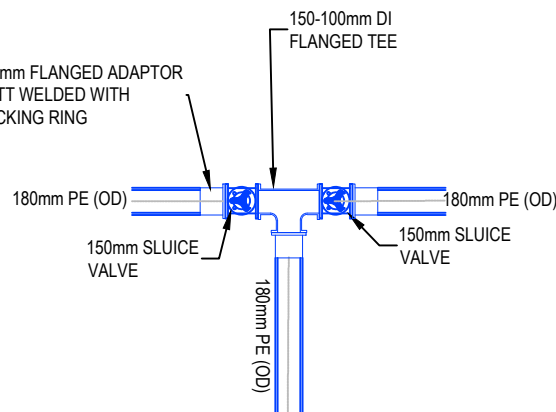
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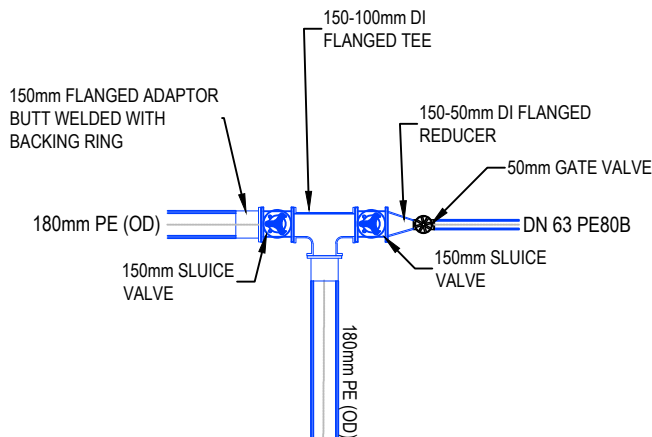
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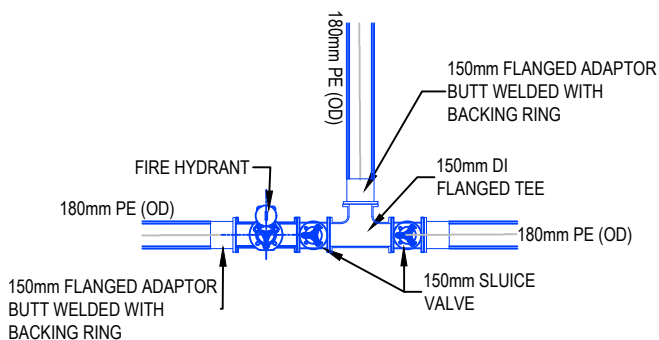
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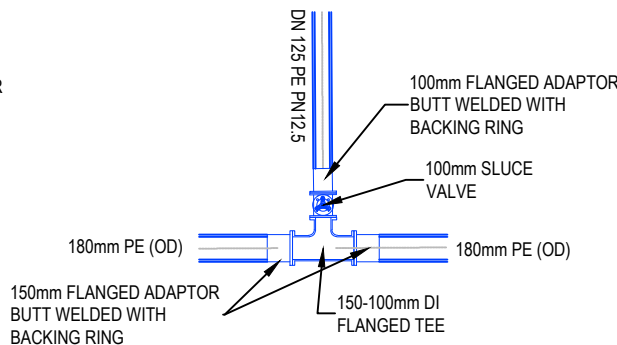
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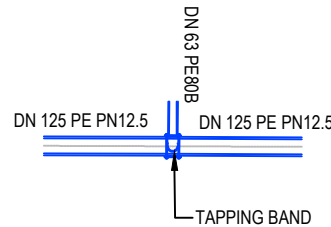
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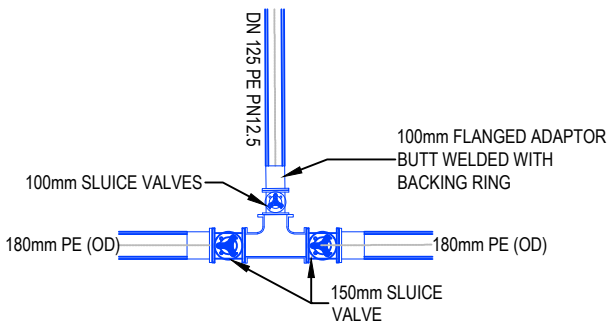
CONNECTION DETAILS - 10



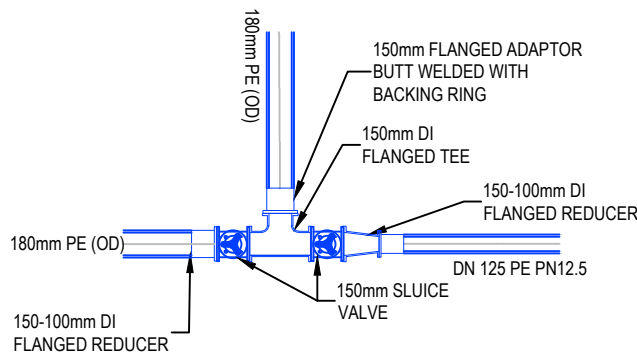
CONNECTION DETAILS - 11



CONNECTION DETAILS - 12



CONNECTION DETAILS - 13



CONNECTION DETAILS - 14

FOR CONSENT

- Notes
- All works to be in accordance with RITS council standards.
  - It is the contractors responsibility to locate any underground services prior to the commencement of works.
  - Minimum cover shall be:  
Roads, footpaths, crossings: 1000mm  
Berms 600mm  
Service connections: 550-650mm
  - Watermains laid across roads shall be backfilled with hardfill compacted in 200mm layers above the embedment material.
  - All uPVC pipe shall be PN12 minimum pressure rated with spigot and socket rubber ring joints.
  - All PE pipe shall be PN12.5 minimum pressure rated with butt-welded. Weld beads shall be removed to provide a smooth bore.
  - All non-metallic pipes are to have tracer wire fitted to council standards.
  - Pipes shall be bedded and surrounded to 150mm above the pipe soffit with sand or ap20.
  - Metal detector tape printed with 'water pipe below' shall be laid 150mm above all watermains.
  - A yellow isosceles triangle with cats eye pointing to FH shall be painted in the centre of all sealed roads.
  - All valves to be marked with sawcut kerb and blue paint.
  - All flange joints to be protected with denso tape or similar approved by the engineer.

B	FOR CONSENT	MS	04/25
A	FOR REVIEW	DP	01/25
Rev	Description	By	Date
	By	Date	
Survey	MAVEN	10/2024	
Design	DP	11/2024	
Drawn	DP	11/2024	
Checked	SB	11/2024	



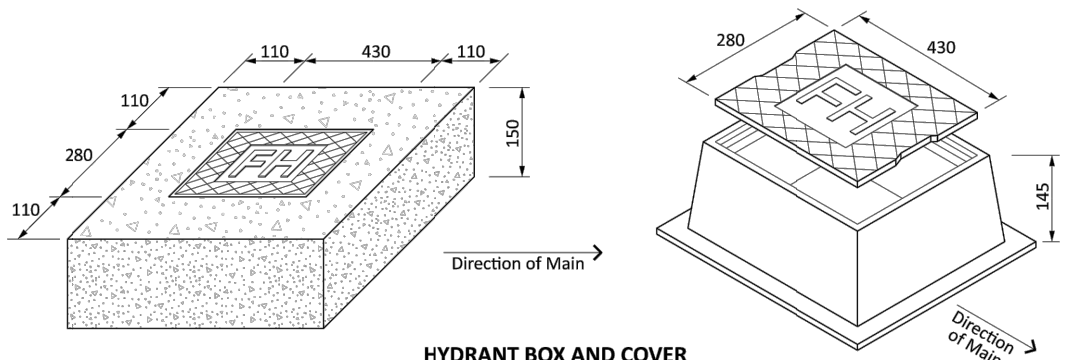
Project  
**ASHBOURNE  
RETIREMENT VILLAGE  
MATAMATA  
FOR  
UNITY DEVELOPMENT LTD**

Title  
**WATER SUPPLY  
CONNECTION  
DETAILS**

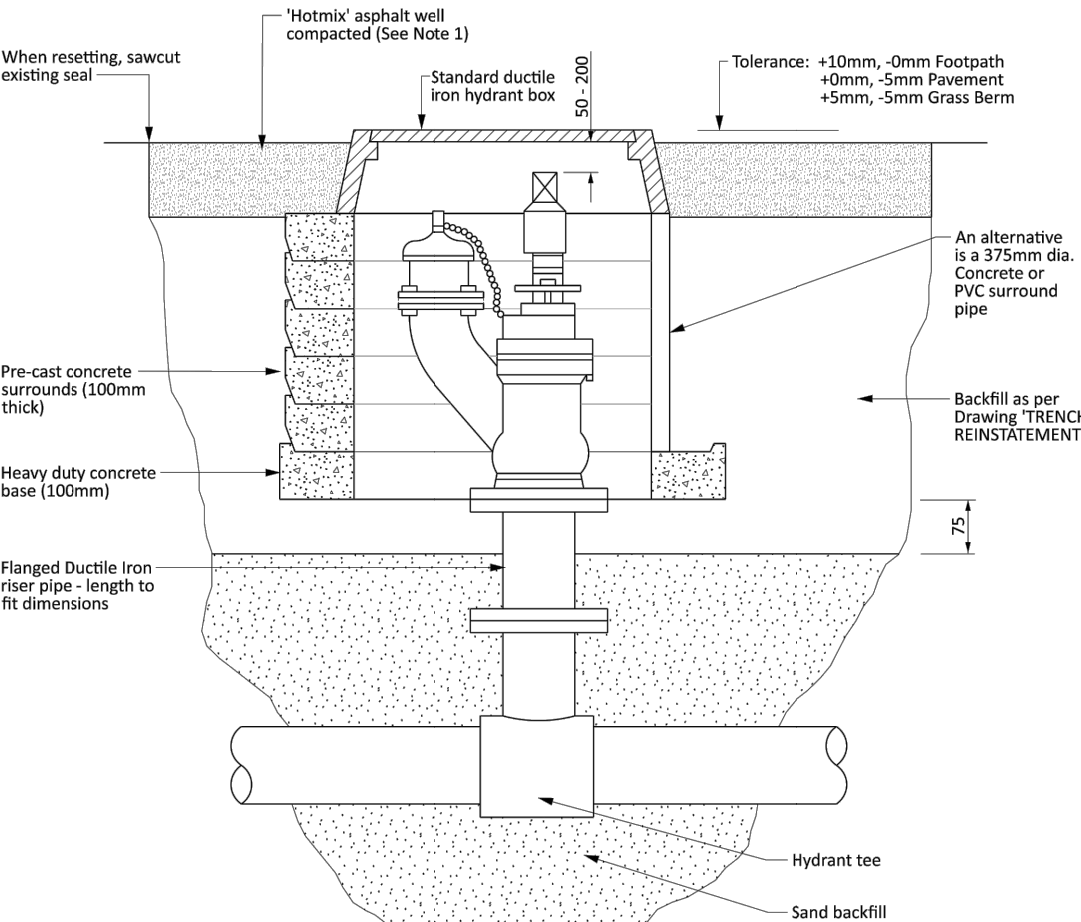
Project no.	J00606		
Scale	1:50 @A3		
Cad file	C6500 - WSSDDWG.DWG		
Drawing no.	C6500	Rev	<b>B</b>



ORIGINAL SIZE: A3  
150mm  
100  
80  
60  
40  
30  
20  
10  
0  
DATE: 05.06.2025  
FILE: F:\MAVEN MATAMATA\1. Projects\J00606 UDL - Hemmings Station Rd\6. Drawing\2. CAD\3. Design\C6800 - WSSD.dwg



**HYDRANT BOX AND COVER**  
(with concrete surroundings for grass berms)



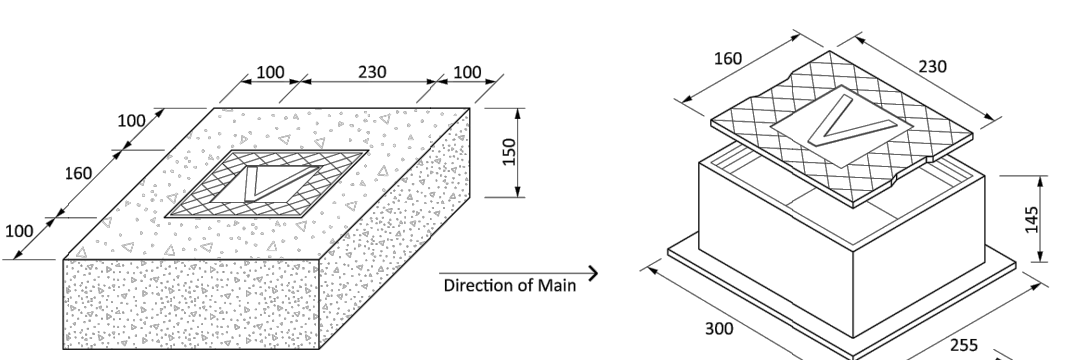
- NOTES:**
- In Berm Areas
  - a) the TNZ backfill can be replaced with pitsand
  - b) the finished surface shall match the surrounding



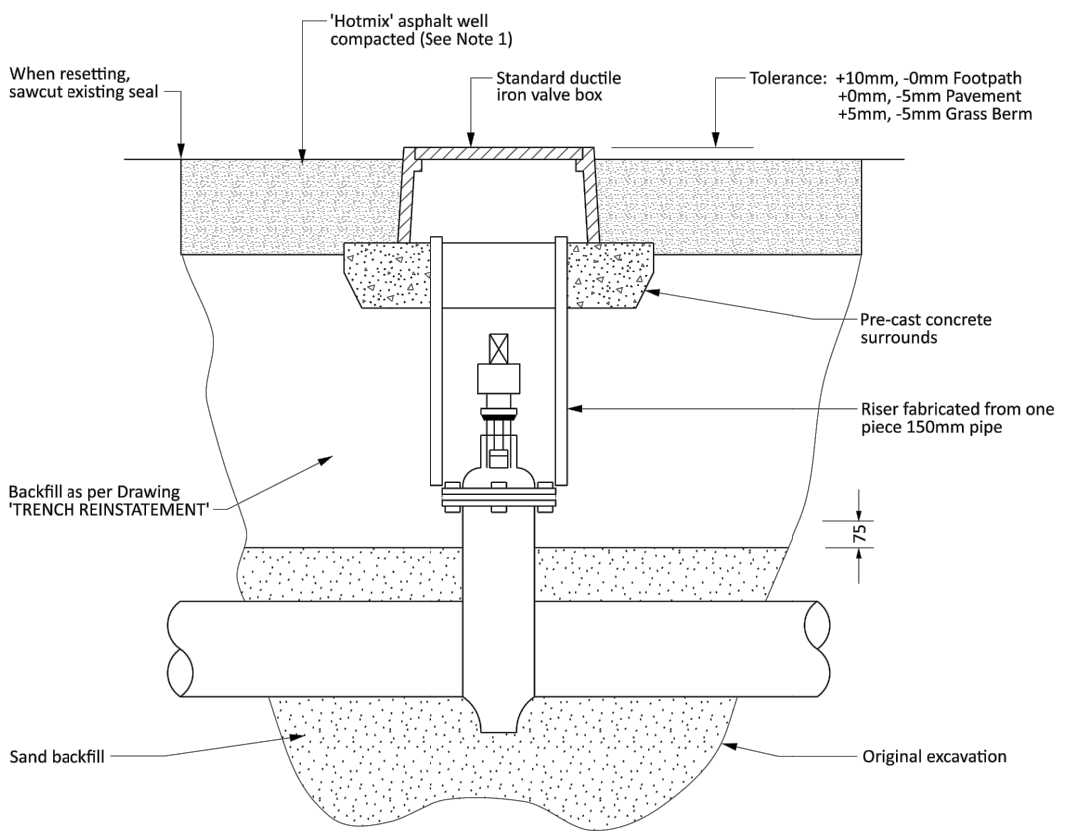
**FIRE HYDRANT DETAILS**

REGIONAL INFRASTRUCTURE TECHNICAL SPECIFICATION

Version: April 2021



**RECTANGULAR VALVE BOX AND COVER**  
(with concrete surroundings for grass berms)



- NOTES:**
- In Berm Areas
  - a) the TNZ backfill can be replaced with pitsand
  - b) the finished surface shall match the surrounding



**SLUICE VALVE DETAILS**

REGIONAL INFRASTRUCTURE TECHNICAL SPECIFICATION

Version: April 2021

- Notes**
- 1. All works to be in accordance with RITS standards.
  - 2. It is the contractors responsibility to locate any underground services prior to the commencement of works.
  - 3. Minimum cover shall be:
    - Roads, footpaths, crossings: 1000mm
    - Berms: 600mm
    - Service connections: 550-650mm
  - 4. Watermains laid across roads shall be backfilled with hardfill compacted in 200mm layers above the embedment material.
  - 5. All uPVC pipe shall be PN12 minimum pressure rated with spigot and socket rubber ring joints.
  - 6. All PE pipe shall be PN12.5 minimum pressure rated with butt-welded. Weld beads shall be removed to provide a smooth bore.
  - 7. All non-metallic pipes are to have tracer wire fitted to council standards.
  - 8. Pipes shall be bedded and surrounded to 150mm above the pipe soffit with sand or ap20.
  - 9. Metal detector tape printed with 'water pipe below' shall be laid 150mm above all watermains.
  - 10. A yellow isosceles triangle with cats eye pointing to FH shall be painted in the centre of all sealed roads.
  - 11. All valves to be marked with sawcut kerb and blue paint.
  - 12. All flange joints to be protected with denso tape or similar approved by the engineer.

B	FOR CONSENT	MS	04/25
A	FOR REVIEW	DP	01/25
Rev	Description	By	Date
		By	Date
Survey	MAVEN		10/2024
Design	DP		11/2024
Drawn	DP		11/2024
Checked	SB		11/2024

**Maven Matamata**  
matamatainfo@maven.co.nz  
www.maven.co.nz  
8 Tainui Street, Matamata  
New Zealand

Project  
**ASHBOURNE  
RETIREMENT VILLAGE  
MATAMATA  
FOR  
UNITY DEVELOPMENT LTD**

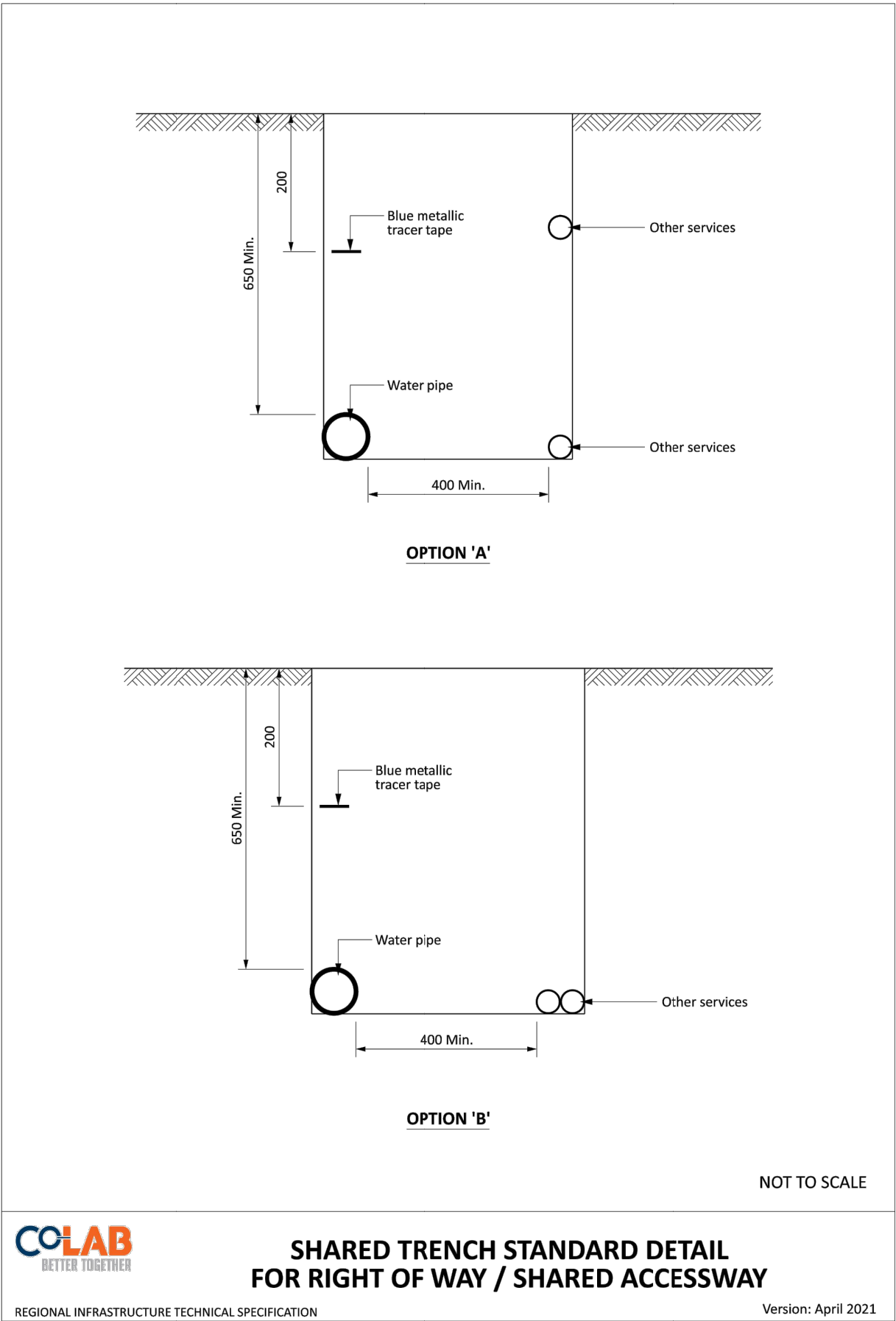
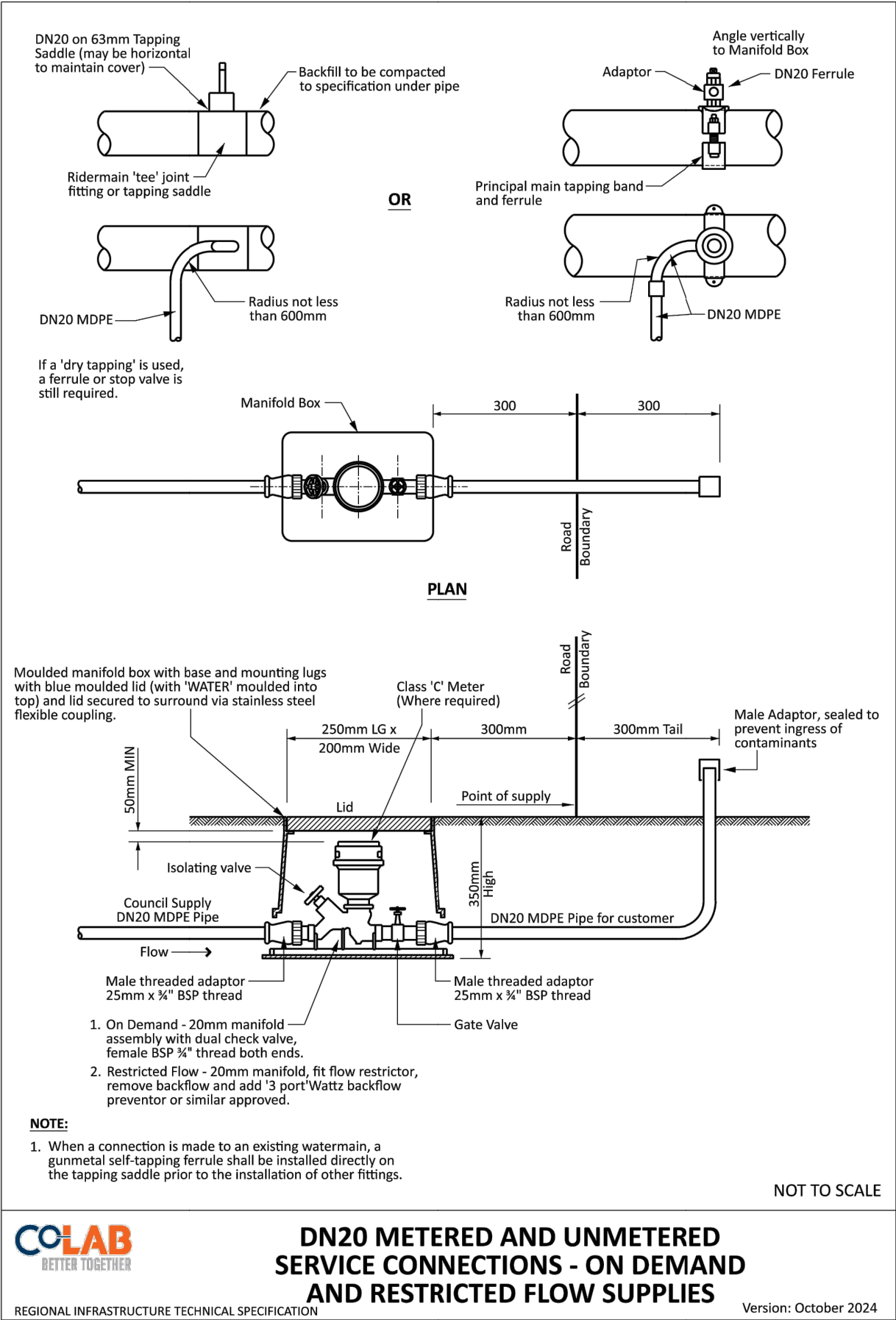
Title  
**WATER SUPPLY  
STANDARD DETAILS  
1 OF 2**

Project no.	J00606
Scale	1:1000@A3
Cad file	C6800 - WSSDDWG.DWG
Drawing no.	C6800
Rev	<b>B</b>

**FOR CONSENT**



ORIGINAL SIZE: A3  
150mm  
100  
80  
60  
40  
20  
0  
DATE: 05.10.2025  
FILE: F:\MAVEN MATAMATA\1. Projects\J00606 UDL - Hemmings Station Rd\6. Drawing\2. CAD\3. Design\C6800 - WSSDDwg.dwg



- Notes
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Berms 600mm  
Service connections: 550-650mm
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  6. All PE pipe shall be PN12.5 minimum pressure rated with butt-welded. Weld beads shall be removed to provide a smooth bore.
  7. All non-metallic pipes are to have tracer wire fitted to council standards.
  8. Pipes shall be bedded and surrounded to 150mm above the pipe soffit with sand or ap20.
  9. Metal detector tape printed with 'water pipe below' shall be laid 150mm above all watermains.
  10. A yellow isosceles triangle with cats eye pointing to FH shall be painted in the centre of all sealed roads.
  11. All valves to be marked with sawcut kerb and blue paint.
  12. All flange joints to be protected with denso tape or similar approved by the engineer.

B	FOR CONSENT	MS	04/25
A	FOR REVIEW	DP	01/25
Rev	Description	By	Date
		By	Date
Survey	MAVEN		10/2024
Design	DP		11/2024
Drawn	DP		11/2024
Checked	SB		11/2024



Project  
**ASHBOURNE RETIREMENT VILLAGE MATAMATA FOR UNITY DEVELOPMENT LTD**

Title  
**WATER SUPPLY STANDARD DETAILS 2 OF 2**

Project no.	J00606
Scale	1:1000@A3
Cad file	C6800 - WSSDDWG.DWG
Drawing no.	C6801
Rev	B



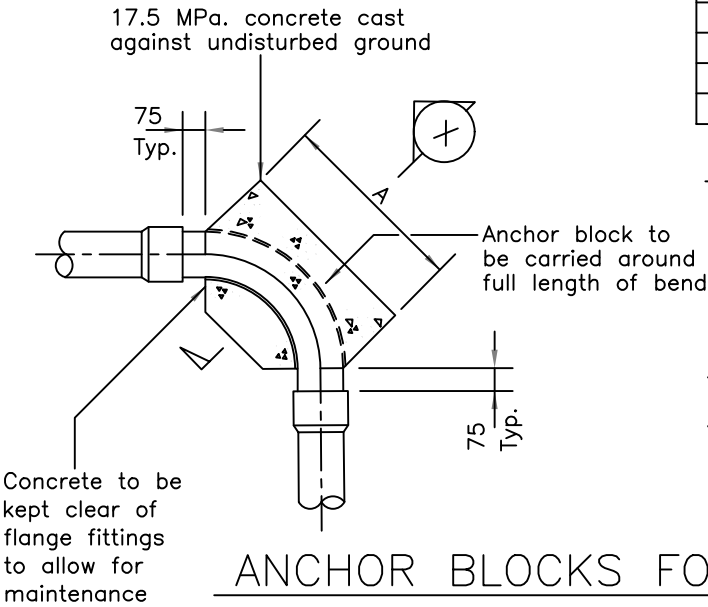
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100  
80  
60  
40  
20  
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DATE: 05.10.2025  
FILE: F:\MAVEN MATAMATA\1. Projects\J00606 UDL - Hemmings Station Rd\6. Drawing\2. CAD\3. Design\C6800 - WSSDDwg.dwg

ANCHOR BLOCK STANDARD DETAILS DELIVERED FROM  
WATERCARE LIMITED-STANDARD DRAWING INDEX-  
REFERENCING NO WS15 & WS16

Notes :

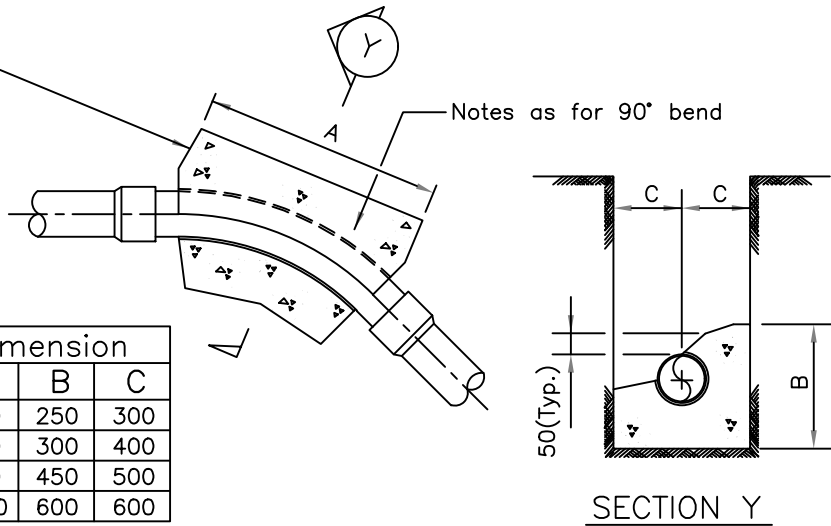
1. Thrust block dimensions for firm soil conditions.
2. The dimensions to be increased or decreased for variation in soil conditions.
3. Allowable bearing stress used - 100KPa.
4. Internal pipe test pressure up to 1400KPa.
5. As built locations to be obtained prior to backfill.
6. Protective membrane ( Polythene ) between concrete & pipe.
7. 75mm clearance between fittings/flanges and concrete casting.
8. All fittings to be Denso wrapped to the product specification.  
( Butyl system for Plastic pipes )

Dia. mm	Dimension		
	A	B	C
100	670	250	450
150	1250	300	450
200	1500	450	550
250	1750	600	600



ANCHOR BLOCKS FOR 90° BENDS

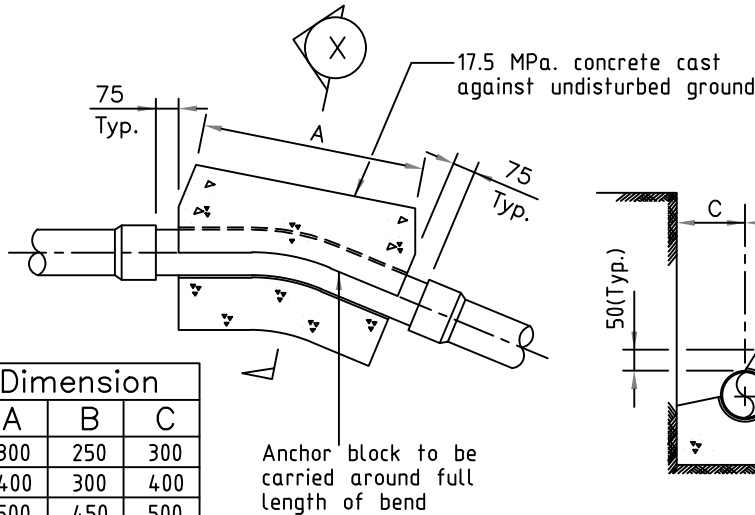
Dia. mm	Dimension		
	A	B	C
100	360	250	300
150	680	300	400
200	800	450	500
250	1000	600	600



ANCHOR BLOCKS FOR 45° BENDS

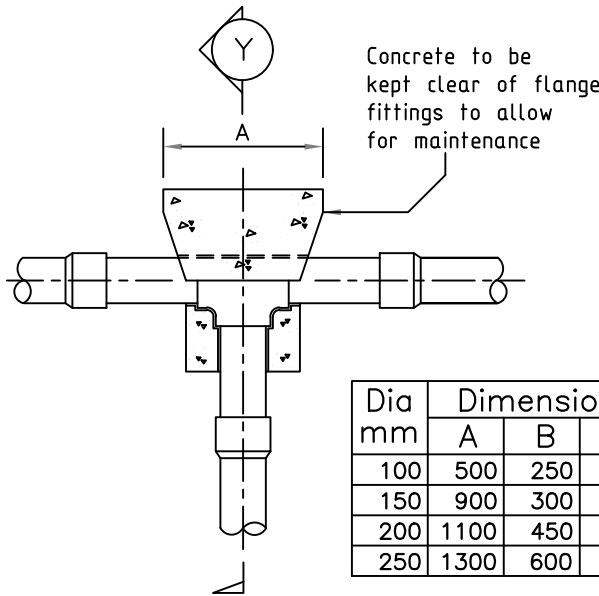
Notes :

1. Thrust block dimensions for firm soil conditions.
2. The dimensions to be increased or decreased for variation in soil conditions.
3. Allowable bearing stress used - 100KPa.
4. Internal pipe test pressure up to 1400KPa.
5. As built locations to be obtained prior to backfill.
6. Protective membrane ( Polythene ) between concrete & pipe.
7. 75mm clearance between fittings/flanges and concrete casting.
8. All fittings to be Denso wrapped to the product specification.  
( Butyl system for Plastic pipes )



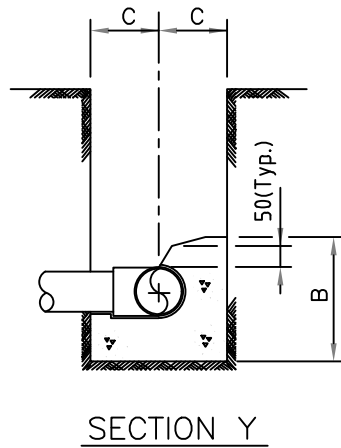
Dia mm	Dimension		
	A	B	C
100	300	250	300
150	400	300	400
200	500	450	500
250	600	600	600

ANCHOR BLOCKS FOR 22½° & 11¼° BENDS



Dia mm	Dimension		
	A	B	C
100	500	250	450
150	900	300	450
200	1100	450	550
250	1300	600	600

ANCHOR BLOCKS TEE JUNCTION & END CAPS



- Notes
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  3. Minimum cover shall be:  
Roads, footpaths, crossings: 1000mm  
Berms 600mm  
Service connections: 550-650mm
  4. Watermains laid across roads shall be backfilled with hardfill compacted in 200mm layers above the embedment material.
  5. All uPVC pipe shall be PN12 minimum pressure rated with spigot and socket rubber ring joints.
  6. All PE pipe shall be PN12.5 minimum pressure rated with butt-welded. Weld beads shall be removed to provide a smooth bore.
  7. All non-metallic pipes are to have tracer wire fitted to council standards.
  8. Pipes shall be bedded and surrounded to 150mm above the pipe soffit with sand or ap20.
  9. Metal detector tape printed with 'water pipe below' shall be laid 150mm above all watermains.
  10. A yellow isosceles triangle with cats eye pointing to FH shall be painted in the centre of all sealed roads.
  11. All valves to be marked with sawcut kerb and blue paint.
  12. All flange joints to be protected with denso tape or similar approved by the engineer.

B	FOR CONSENT	MS	04/25
A	FOR REVIEW	DP	01/25
Rev	Description	By	Date
		By	Date
Survey	MAVEN		10/2024
Design	DP		11/2024
Drawn	DP		11/2024
Checked	SB		11/2024



Project  
**ASHBOURNE  
RETIREMENT VILLAGE  
MATAMATA  
FOR  
UNITY DEVELOPMENT LTD**

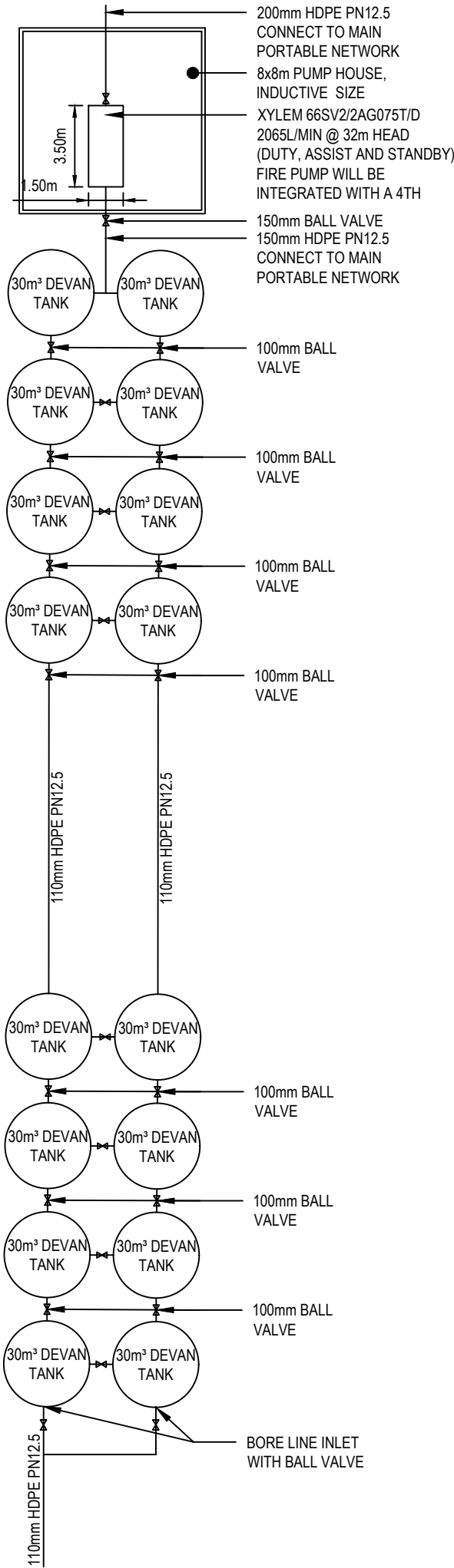
Title  
**WATER SUPPLY  
ANCHOR BLOCK  
DETAILS**

Project no.	J00606
Scale	AS SHOWN @A3
Cad file	C6800 - WSSDDWG.DWG
Drawing no.	C6802
Rev	B

FOR CONSENT



FOR CONSENT



- Notes
- All works to be in accordance with RITS council standards.
  - It is the contractors responsibility to locate any underground services prior to the commencement of works.
  - Minimum cover shall be:  
Roads, footpaths, crossings: 1000mm  
Berms 600mm  
Service connections: 550-650mm
  - Watermains laid across roads shall be backfilled with hardfill compacted in 200mm layers above the embedment material.
  - All uPVC pipe shall be PN12 minimum pressure rated with spigot and socket rubber ring joints.
  - All PE pipe shall be PN12.5 minimum pressure rated with butt-welded. Weld beads shall be removed to provide a smooth bore.
  - All non-metalic pipes are to have tracer wire fitted to council standards.
  - Pipes shall be bedded and surrounded to 150mm above the pipe soffit with sand or ap20.
  - Metal detector tape printed with 'water pipe below' shall be laid 150mm above all watermains.
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B	FOR CONSENT	MS	04/25
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Project  
**ASHBOURNE  
RETIREMENT VILLAGE  
MATAMATA  
FOR  
UNITY DEVELOPMENT LTD**

Title  
**WATER SUPPLY  
PUMP HOUSE  
DETAILS**

Project no.	J00606		
Scale	AS SHOWN @A3		
Cad file	C6800 - WSSD.DWG		
Drawing no.	C6803	Rev	<b>B</b>