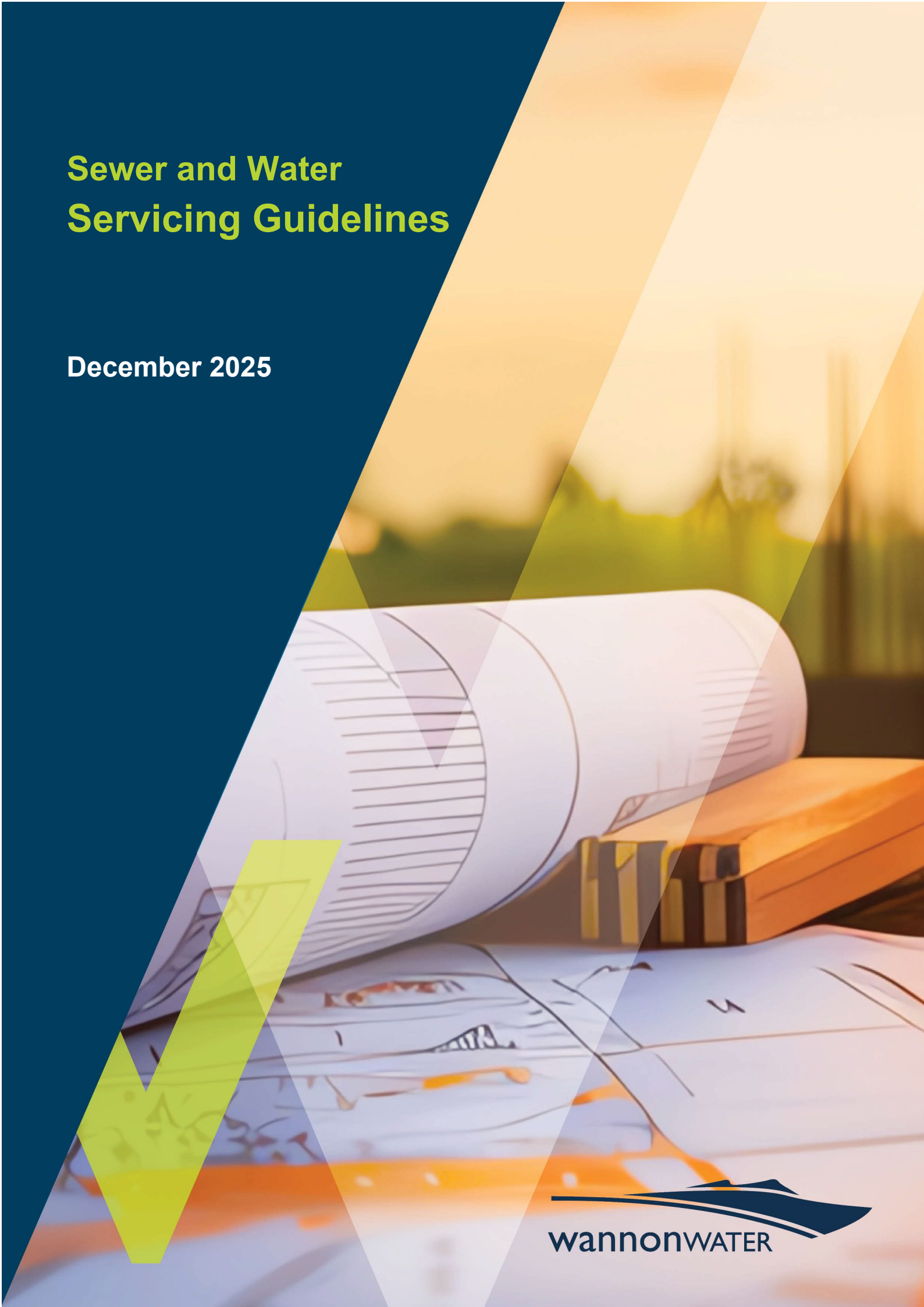
# Sewer and Water
# Servicing Guidelines

December 2025



wannonWATER

## Introduction

These guidelines outline our requirements for servicing land with both water and sewerage services.

The guidelines have been developed to provide information to developers, plumbers, designers, builders and property owners to help determine the sewer and water servicing requirements relating to all development, and to ensure consistency across all levels of development.

Where these guidelines are inappropriate for a development, we will determine the necessary requirements.

For further detailed information or to discuss a specific installation please contact our Development Services Team.

These connection guidelines are to be read in conjunction with our Land Development Manual.

# Contents

## Definitions and abbreviations

Wherever possible, the below definitions and abbreviations have been applied to be consistent with relevant legislation and other water corporations' standards and guidelines.

**Backflow** – a device installed by the landowner behind the meter that prevents water from returning to the potable water supply.

**Combined Sewer Drain** – a privately owned sewer drain servicing more than one dwelling.

**Easement** – an area of land, or part of a lot, reserved by law for a specific purpose such as the containment of sewerage/water assets.

**Emergency Relief Structures (ERS)** – only used in extreme events when the network is at capacity and to protect private and public infrastructure.

**Inspection Shaft (IS)** – in relation to a sanitary drain, means a shaft constructed in the line of the drain for the purpose of locating, inspecting and clearing the drain.
Source: Water (Estimation, Supply and Sewerage) Regulations 2014

**Inspection Opening (IO)** – in relation to sewerage works, means an access opening in a pipe or pipe fitting, installed to facilitate inspection testing or the clearing of obstructions, and fitted with a threaded cap or plug or access cover.
Source: Water (Estimation, Supply and Sewerage) Regulations 2014

**Maintenance Hole (MH)** – underground structure with a removable cover at ground level that allows for personnel and equipment access to the sewer main.

**MRWA** – Melbourne Retail Water Agency

**Owners' Corporation** – the entity that is created as part of a Plan of Subdivision in accordance with the *Owners Corporations Act 2006*. The Owners' Corporation is responsible for the maintenance and administration of any common property and/or common services. The Owners' Corporation is responsible for any private water or sewers within the Plan of Subdivision.

**Pressure Sewer System (PSS)** – a sewer system that conveys sewage under pressure by pumping units contained on a serviced property to a nominated discharge point or sewer main. Installed in areas where landscape does not slope in the direction required for sewage to flow naturally downhill.

**Property Connection (PC)** – a section of pipe owned and maintained by Wannon Water up to the inspection shaft which connects the customer's sanitary drain to the reticulated sewerage system (sewer main).

**Reserve** – land that is set aside for public use. Reserves include public open space, nature reserves, tree reserves, parks, public gardens, recreation reserves, sporting reserves, drainage reserves and sewerage reserves.

**Reticulated Water/Sewer Supply System** – a network of water/sewer mains/pump stations owned and operated by Wannon Water to provide for the community's water and sewerage needs.

**Sanitary Drain** – a line of pipes including all fittings, conveying or intended to convey sewage or trade waste from a building or structure on a serviced property to the sewer main.
Source: Water (Estimation, Supply and Sewerage) Regulations 2014

**Sewer Main** – the pipe to which all serviced properties are connected by a sanitary drain for the discharge of sewage and trade waste.
Source: Water (Estimation, Supply and Sewerage) Regulations 2014

**Shared Sanitary Drains** – privately owned and maintained sanitary drains servicing multiple properties that are separately titled and covered by an Owners' Corporation schedule and/or 12(2) easements connected to one legal point of discharge.

**Tapping** – the connection of the internal water service to our water main.

**Water Main** – a pipe to which serviced lots are connected, including the stop valve and any fittings located at a connection between a water main and a property service pipe.

**WSAA** – Water Services Association of Australia

## 1.0 Sewerage assets

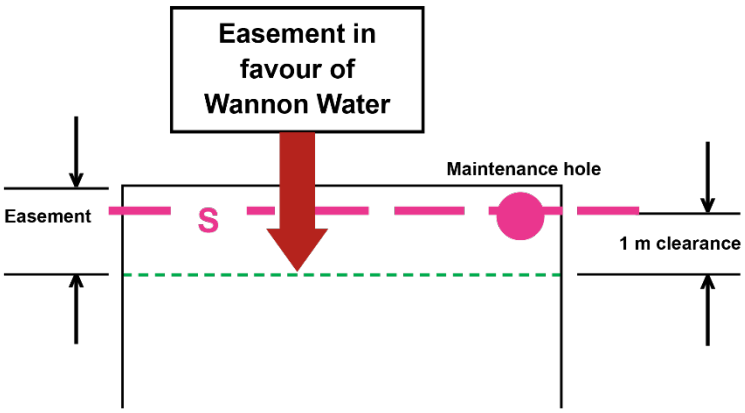
Sewer asset location must be in accordance with WSAA Code and Wannon Water supplementary specifications or manuals and are based on a single pipe in an easement.

Sewerage easements may only be shared with stormwater pipes with clearance as per the WSAA Code, and with roof water harvesting pipes in the Russells Creek catchment.

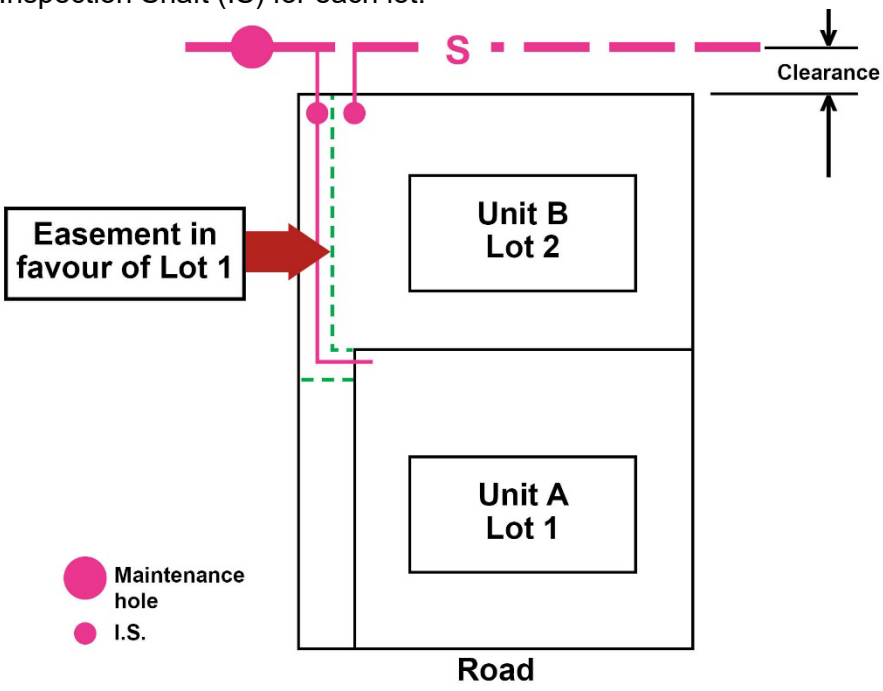
Where mains are deeper than three (3) metres, easements/reserves are required to be widened by approximately one (1) metre for every metre depth increase up to a maximum of 6 metres wide. Sewers deeper than 5 metres should generally be in a reserve.

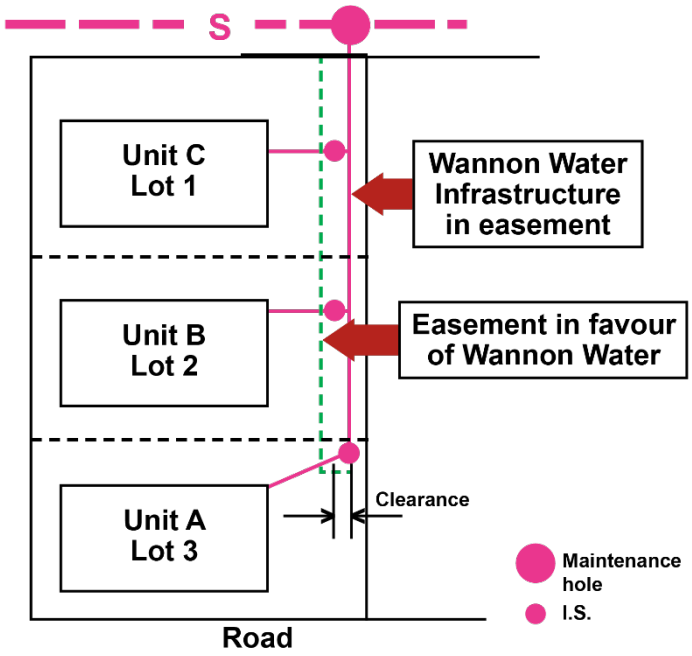
Refer to the examples on the following pages for sewer asset location guidance.

### 1.1 Sewer gravity mains – general

| Land use | Size | Preferred land tenure action |
|---|---|---|
| **Private property** | <=150mm and <=1.2m deep | Minimum 2m easement with sewer located centrally. Maintenance hole (MH) located within easement.<br>  |
| | >150 <=225 mm and >1.2m deep | Minimum 3m easement (min 1m clearance from outside of pipe to title boundary/min. 1m from pipe to easement boundary). Maintenance hole (MH) located within easement. |
| | >225mm | Relocate wherever possible outside of private property.<br><br>If not possible to locate outside of private property, a reserve is required. Minimum width 6m.<br><br>If located in an existing road reserve the reserve may need to be widened to accommodate the pipeline within the nature strip. |
| **Municipal reserve** (other than drainage reserve) | <=225mm | Minimum 2.5m easement (min 1m clearance from outside of pipe to title boundary/min. 1m from pipe to easement boundary).<br><br>Maintenance hole (MH) located within easement. |
| | >225mm | Minimum 6m easement (min 1m clearance from outside of pipe to title boundary/min. 1m from pipe to easement boundary).<br><br>Maintenance hole (MH) located within easement. |

## 1.2 Gravity mains - residential - 2-3 lot subdivision (no Owners' Corporation)

| Land use | Size | Preferred land tenure action |
|---|---|---|
| **Private property** (subdivision of multi-tenement) | Up to 150 mm (private PC drain) | Lots <= 500m$^2$<br><br>Private sewer easement to be in favour of Lot 1 (as per diagram). Clearance minimum 1m for sewers up to 150mm at normal depths.<br><br>Lots > 500m$^2$ a Wannon Water sewer is required.<br><br>Inspection Shaft (IS) for each lot.<br>  |
| | Up to 150 mm (Wannon Water main) | Sewer easement in favour of Wannon Water (min 1m clearance from outside of pipe to title boundary/min. 1m from pipe to easement boundary). Clearance minimum 1m for sewers up to 150mm diameter at normal depths (2.5metres).<br><br>Lot size variable. |




### 1.3 Sewer pump stations

| Land use | Size | Preferred land tenure action |
|---|---|---|
| **Private property** | All | Redesign: Not acceptable in private property under any circumstances. |
| | | Alternative: The necessary land, which must have road frontage, is to be set aside as a reserve and vested to Wannon Water. |
| **Municipal reserve** | All | Located within easement with carriageway rights. Size shall be determined on an individual basis. 24-hour access is required. |

### 1.4 Low pressure sewer systems

| Land use | Size | Preferred land tenure action |
|---|---|---|
| **Private property** | All | 3m wide easements are required for low pressure sewerage reticulation mains.<br><br>Private low pressure systems are not permitted in private property. |
| **Municipal reserve** (other than drainage reserve) | <=150 mm | Minimum 4m easement. Pipe located centrally within easement. |
| | >150mm | Minimum 6m easement. Pipe located centrally within easement. |

### 1.5 Authority sewer rising mains

| Land use | Size | Preferred land tenure action |
|---|---|---|
| **Private property** | All <=100 mm | To be designed to be located in road reserve or drainage reserve.<br><br>If not possible to locate outside of private property, a 4m wide easement is required. |
| | <=150mm | Redesign: not acceptable in private property..<br><br>4m reserve with the pipe centrally located. |
| | >150mm | 6m reserve with the pipe centrally located. |
| **Municipal reserve** (other than drainage reserve) | <=150 mm | Minimum 4m easement. Pipe located centrally within easement. |
| | >150 mm | Minimum 6m easement. Pipe located centrally within easement. |

### 1.6 Recycled water pipelines

| Land use | Size | Preferred land tenure action |
|---|---|---|
| **Private property** | All | Redesign: not acceptable in private property unless no other option is available.<br><br>If unavoidable refer to easements as per municipal reserve below. |
| **Municipal reserve** | <=150mm | Minimum 4m easement. Pipe located centrally within easement. |
| | >150mm | Minimum 6m easement. Pipe located centrally within easement. |

### 1.7 Emergency relief structures (ERS)

| Land use | Size | Preferred land tenure action |
|---|---|---|
| **Private property** | All | Redesign: not acceptable in private property.<br><br>If unavoidable refer to easements as per municipal reserve below. |
| **Municipal reserve** | All | Located within easement with carriageway rights. Size shall be such that a minimum of 2m clearance exists from edge of easement to outside of structure. Refer *WSAA Code – Wannon Water Supplementary Manuals*<br>24-hour access is required. |

### 1.8 Detention tanks

| Land use | Size | Preferred land tenure action |
|---|---|---|
| **Private property** | All | Redesign: not acceptable in private property under any circumstances. |
| **Municipal reserve** | All | Located within an easement, with carriageway rights. Size shall be determined on an individual basis, according to what is needed to operate the facility.<br><br>24-hour access is required. |

### 1.9 Chemical injection plants

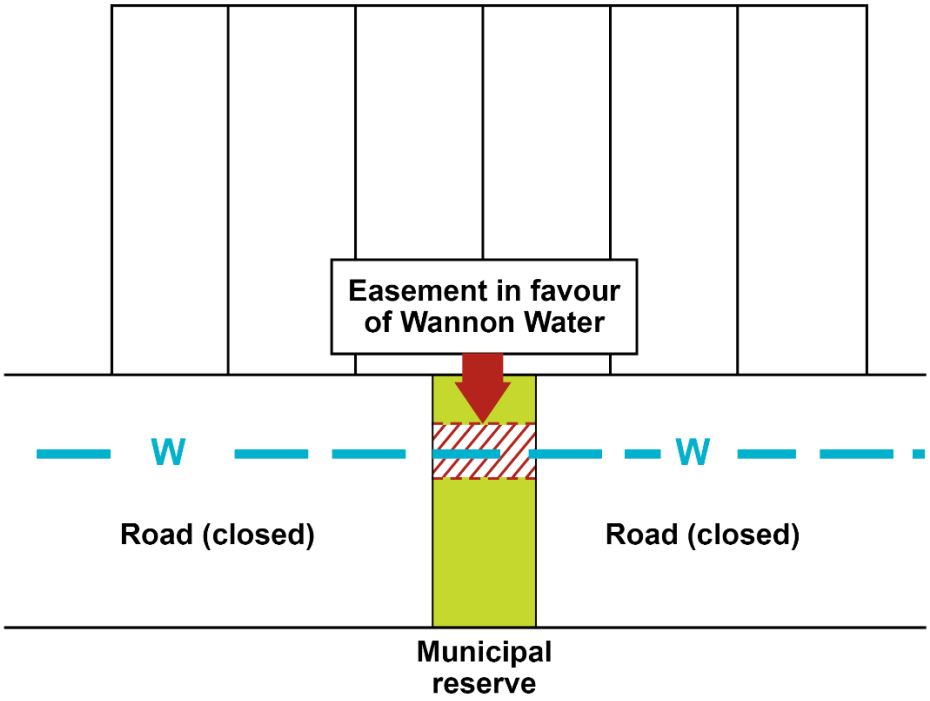
| Land use | Size | Preferred land tenure action |
|---|---|---|
| **Private property** | All | Redesign: not acceptable in private property under any circumstances. |
| **Municipal reserve** | All | Located within an easement with carriageway rights. Size shall be determined on an individual basis for what is needed to operate facility and comply with dangerous goods requirements.<br><br>24-hour access is required. |

## 2.0 Water supply assets

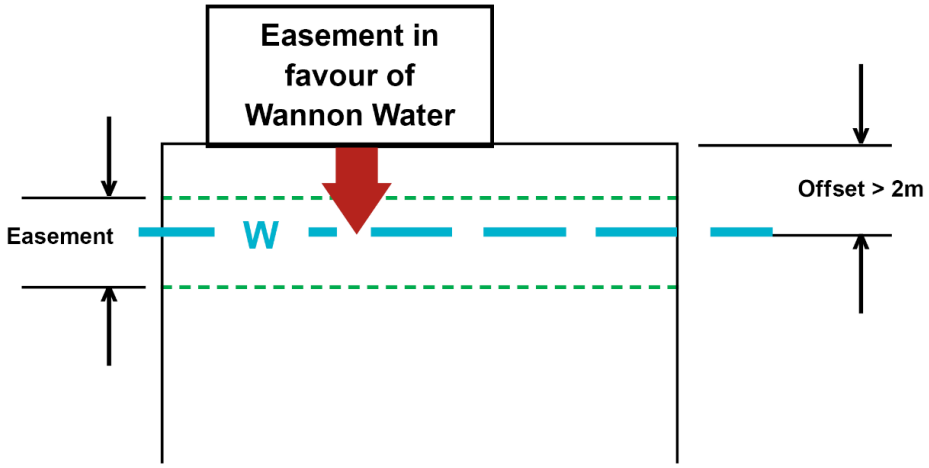
Water asset location must in accordance with WSAA Code and Wannon Water Supplementary Specification and are based on a single pipe in an easement.

*Refer to the examples on the following pages for guidance on water asset location.*

## 2.1 Water mains – general

| Land use | Size | Preferred land tenure action |
|---|---|---|
| **Private property** | All | Redesign preferred: not acceptable in most circumstances, unless required by Wannon Water. |
| | If proven necessary, in accordance with Wannon Water operational requirements: | |
| | <=100 mm | Minimum 6m easement. A 32mm link main may be required by Wannon Water to assist in retaining water quality and eliminate dead ends. A 2m wide water supply easement is also required. |
| | >100 mm | Not permitted - reserve required. |
| **Municipal reserve** (other than drainage reserve) | <=600 mm | Minimum 4m easement.<br>Also applies to road closure reserves as shown below.<br>  |
| | >600 mm | Easement size to be determined.<br>Also applies to road closure reserves as shown above. |
| **Owners' corporate common property** | <=100 mm | Minimum 4m easement in common land used for roadway. |
| | >100 mm | Not permitted – Reserve required. |

## 2.2 Water mains - LDR and rural zoning

| Land use | Size | Preferred land tenure action |
|---|---|---|
| **Private property** | All mains | Minimum 6m easement (placed centrally over water main). All fittings to be located within easement.<br>  |

## 2.3 Reservoirs, tanks and standpipes

Structure is to be located on land owned by Wannon Water or on land over which Wannon Water has management control, such as crown land.

## 2.4 Major valves or metering installations

Installation is to be located on land owned by Wannon Water, or on land over which Wannon Water has management control, such as crown land. Depending on the size of the installation, it may be installed in the road reserve if no alternative is available.

## 2.5 Water pump stations

| Land use | Size | Preferred land tenure action |
|---|---|---|
| **Private property** | All | Redesign: not acceptable under any circumstances. |
| **Municipal reserve** | All | Located within an easement with carriageway rights. Size shall be determined on a case-by-case basis according to what is required to operate the facility. Site to be fenced.<br><br>Depending on the size of the installation, it may be installed in the road reserve if no alternative is available. |

## 2.6 Pressure reducing stations

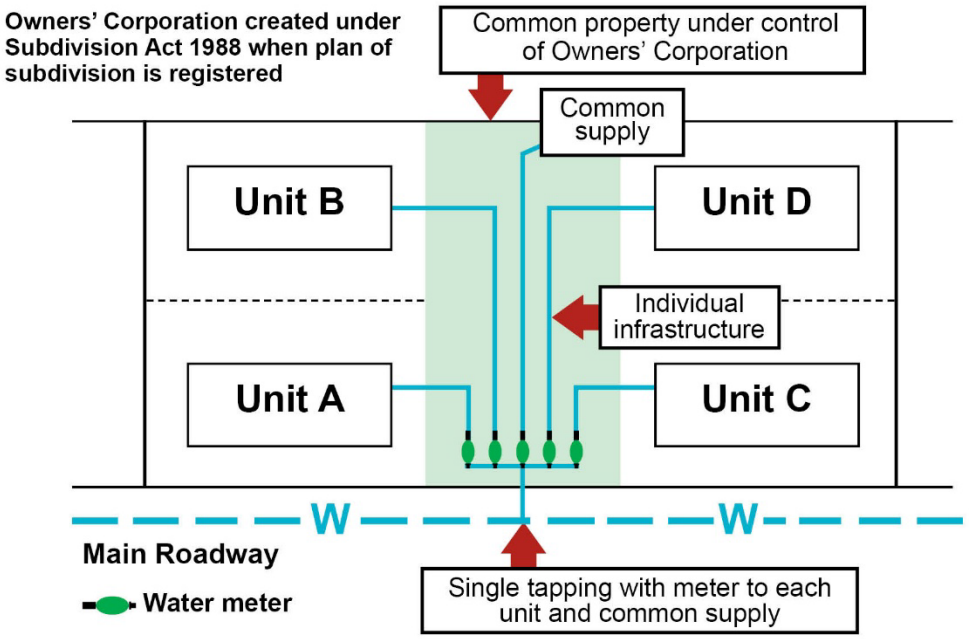
| Land use | Size | Preferred land tenure action |
|---|---|---|
| **Private property** | All | Redesign: not acceptable under any circumstances |
| **Municipal reserve** | All | Located within an easement with carriageway rights. Size shall be determined on a case-by-case basis according to what is required to operate the facility. Site to be fenced.<br><br>Depending on the size of the installation, it may be installed in the road reserve if no alternative is available. |

## 3.0 Servicing arrangement examples

The following examples will not illustrate how all possible proposed development or subdivision proposals are to be serviced, but will help determine the majority of servicing arrangements

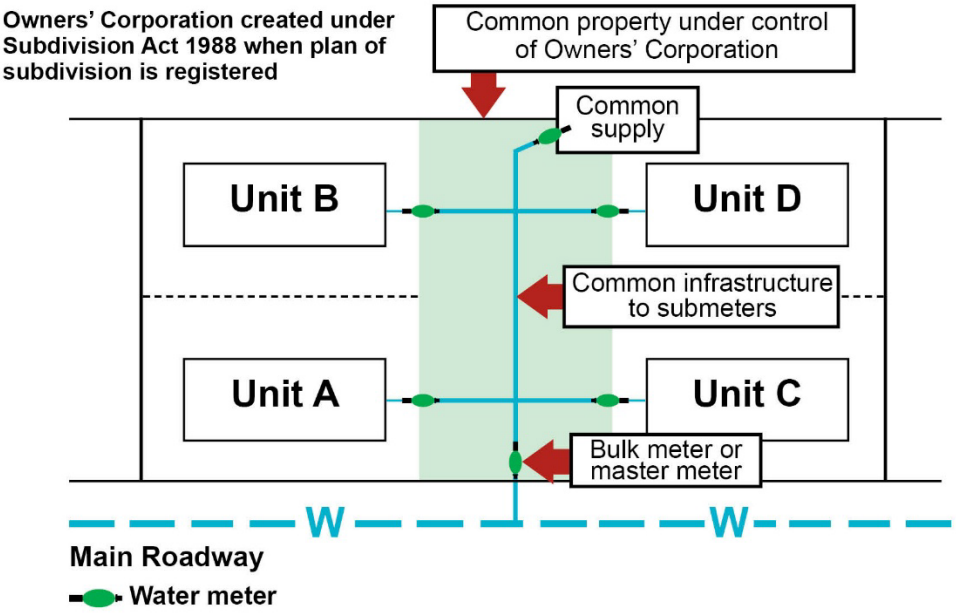
### *Example 1: Water servicing - Unit development with proposed owners' corporation* subdivision

- Preferred arrangement for unit/owners' corporation with a recommended maximum manifold of 8 metres and no fire service.
- Common infrastructure installed in accordance with current plumbing regulations.
- Infrastructure owned, operated and maintained by owners' corporation.
- Property has full frontage to water main.
- Separate meter provides for supply to common facilities such as swimming pool, shared garden, etc.
- Pressure and flow only guaranteed at the first meter in accordance with our Customer Charter.
- Multi-storey buildings may require break tank and pressure pump.
- Booster pumps are not allowed directly off the water



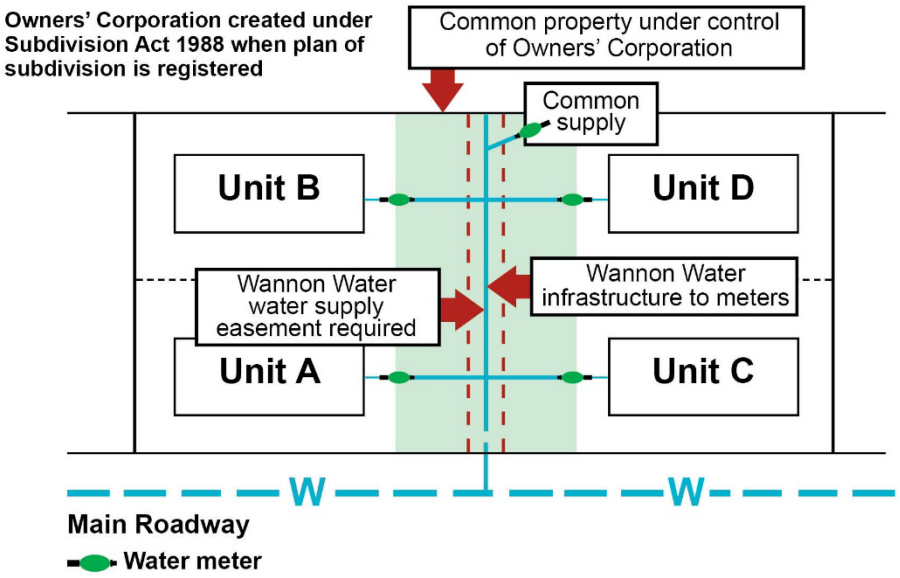
***Example 2: Water servicing - Unit or multi-storey development with proposed owners' corporation infrastructure***

- Preferred arrangement for multi-storey or unit development with numerous units (>8), or property has narrow frontage to water main, or requires a fire service.
- Bulk/master meter required.
- Common infrastructure installed in accordance with current plumbing regulations.
- Infrastructure owned, operated and maintained by owners' corporation.
- Pressure and flow only guaranteed at master meter in accordance with Customer Charter.
- Separate meter provides for supply to common facilities such as swimming pool, shared garden etc.
- Configuration required for multi-storey buildings and may require break tank and pressure pump. Backflow device requirements to be determined by Wannon Water.



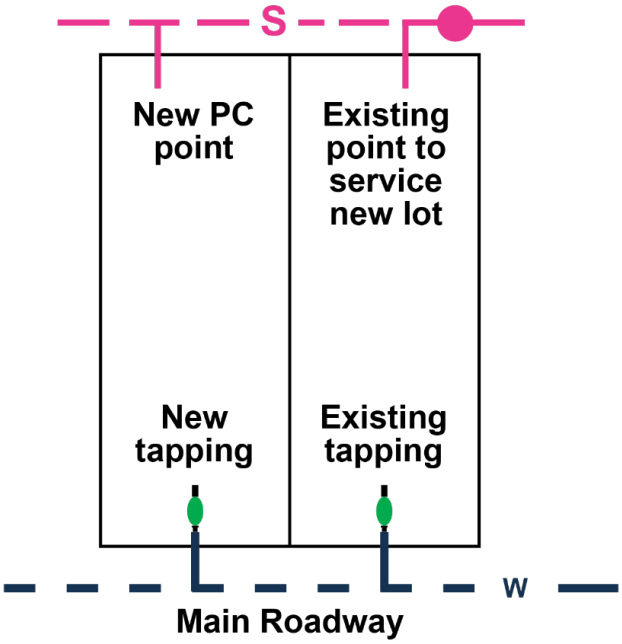
### *Example 3: Water servicing - Unit development with Wannon Water infrastructure*

- Only required where water reticulation extension is required by Wannon Water to service other land parcels.
- Reticulation infrastructure installed in accordance with WSAA standards.
- Reticulation infrastructure owned, operated and maintained by Wannon Water.
- Individual customers receive same service according to our Customer Charter.
- Separate meter provides for supply to common facilities such as swimming pool, shared garden, etc.
- Wannon Water water supply easement required, refer to easement table 11.



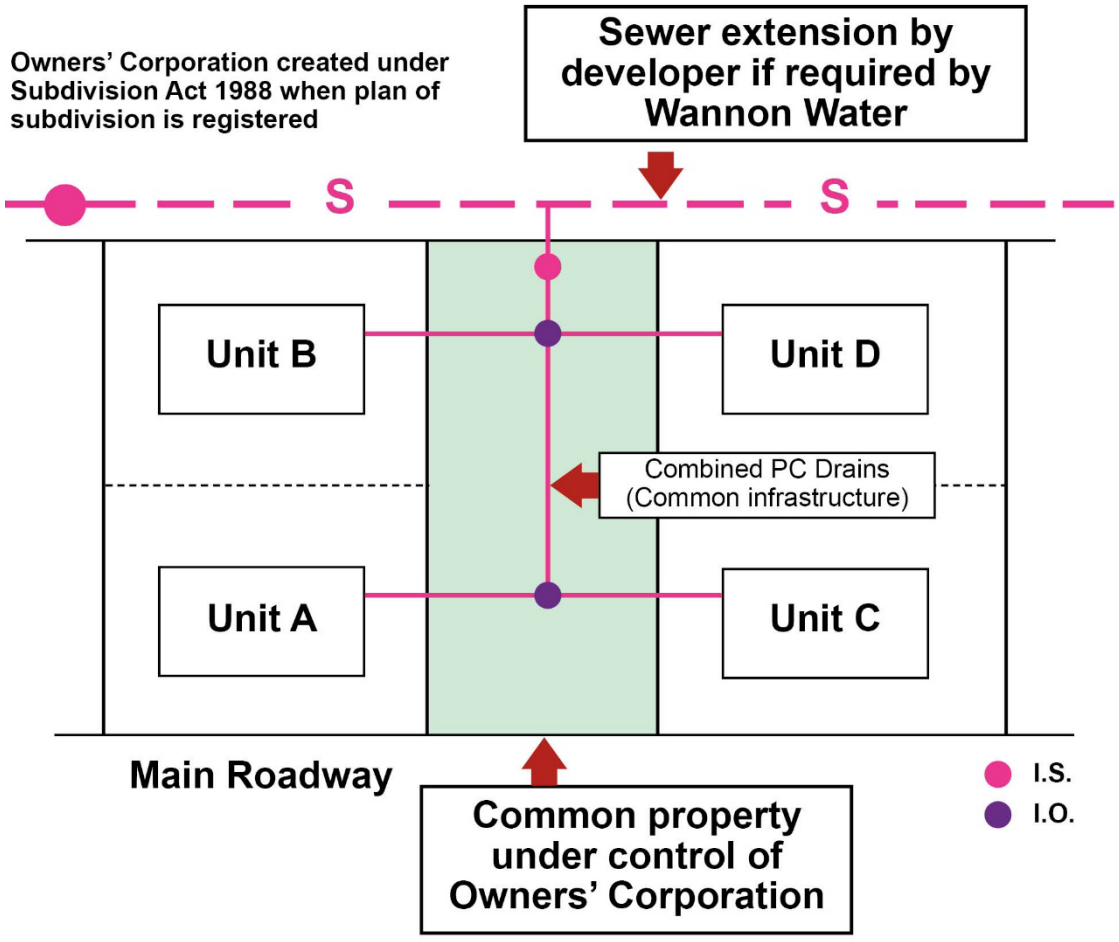
***Example 4: Water and sewerage servicing – Unit development (with proposed subdivision with individual titles)***

- Single lot to be subdivided.
- Individual services to proposed properties.
- Existing 20mm tapping can only be used if tapped post 1990.
- Galvanised water services are to be renewed.
- Existing sewer branch to be renewed as per current plumbing regulations.
- If existing sewer branch can be re-used as per current plumbing regulations, an inspection shaft must be installed if not provided.



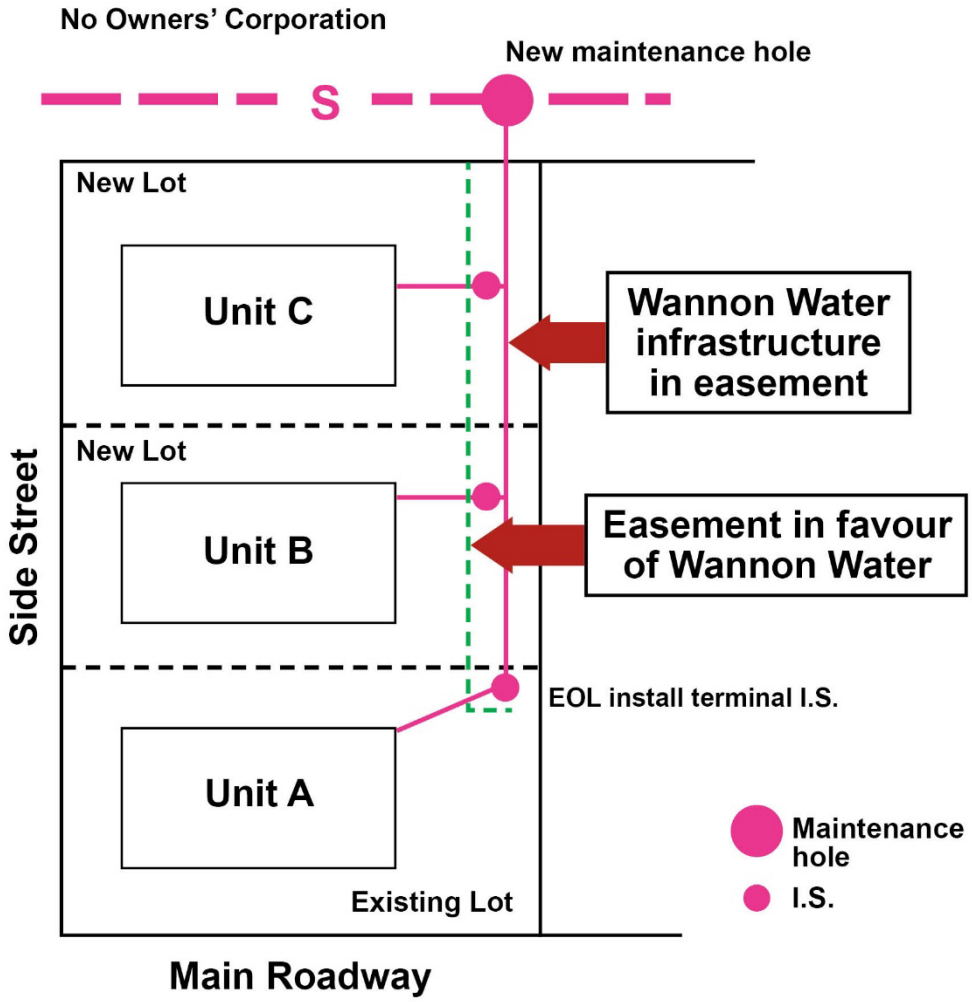
### *Example 5: Sewerage servicing – Multi-unit development with proposed Owners' Corporation subdivision*

- Common infrastructure installed in accordance with current plumbing regulations.
- Sewer drainage Infrastructure owned, operated and maintained by Owners' Corporation except for Wannon Water maintenance obligations.
- Sewer reticulation extension to service the development provided by developer if required via agreement with Wannon Water (offer of conditions).
- Connection type (junction or maintenance hole) to be determined with the number of properties connected.



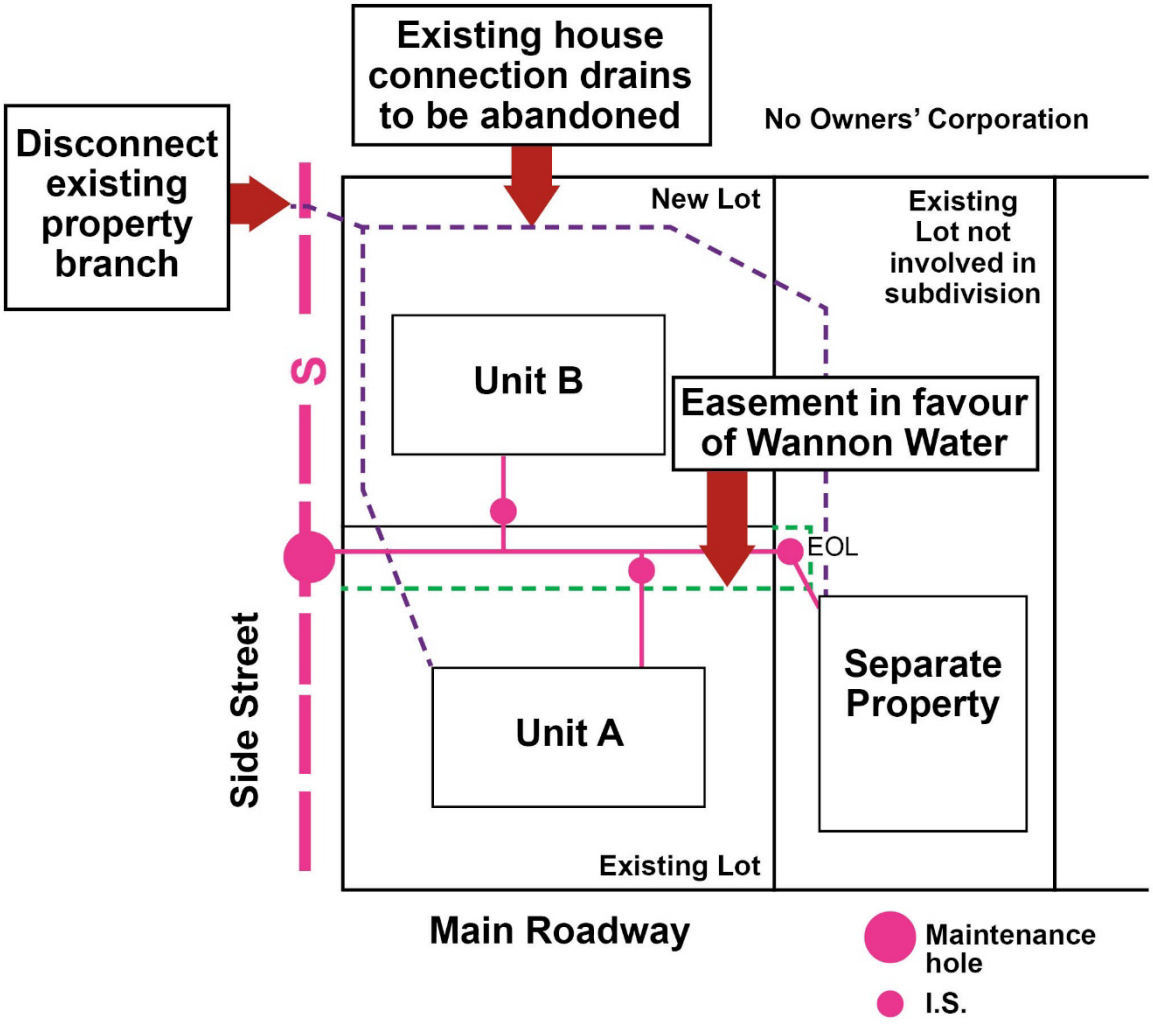
### *Example 6: Sewerage servicing – Multi-lot subdivision with individual title*

- For properties greater than 500 square metres.
- No owners' corporation required.
- All properties have direct road reserve access.
- Reticulation extension infrastructure in easement installed to WSAA standards via agreement with Wannon Water (offer of conditions).
- Infrastructure, maintenance hole to terminal Inspection Shaft owned, operated and maintained by Wannon Water.



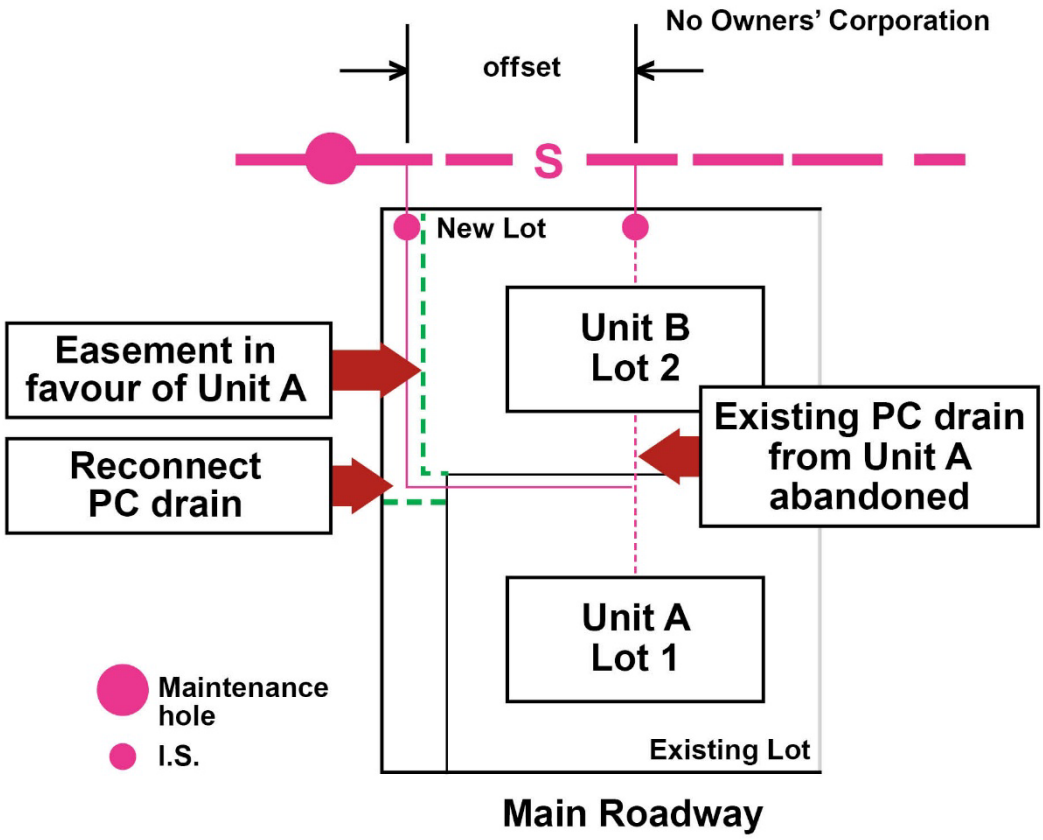
***Example 7: Sewerage servicing – Subdivision of property that shares a sewer drain with neighboring property (common drain)***

- Sewer reticulation extension required to reconnect neighbouring property to sewerage system.
- Existing house connection drains to be abandoned and any unused branch disconnected.
- No combined sewer drains - properties to be individually serviced.



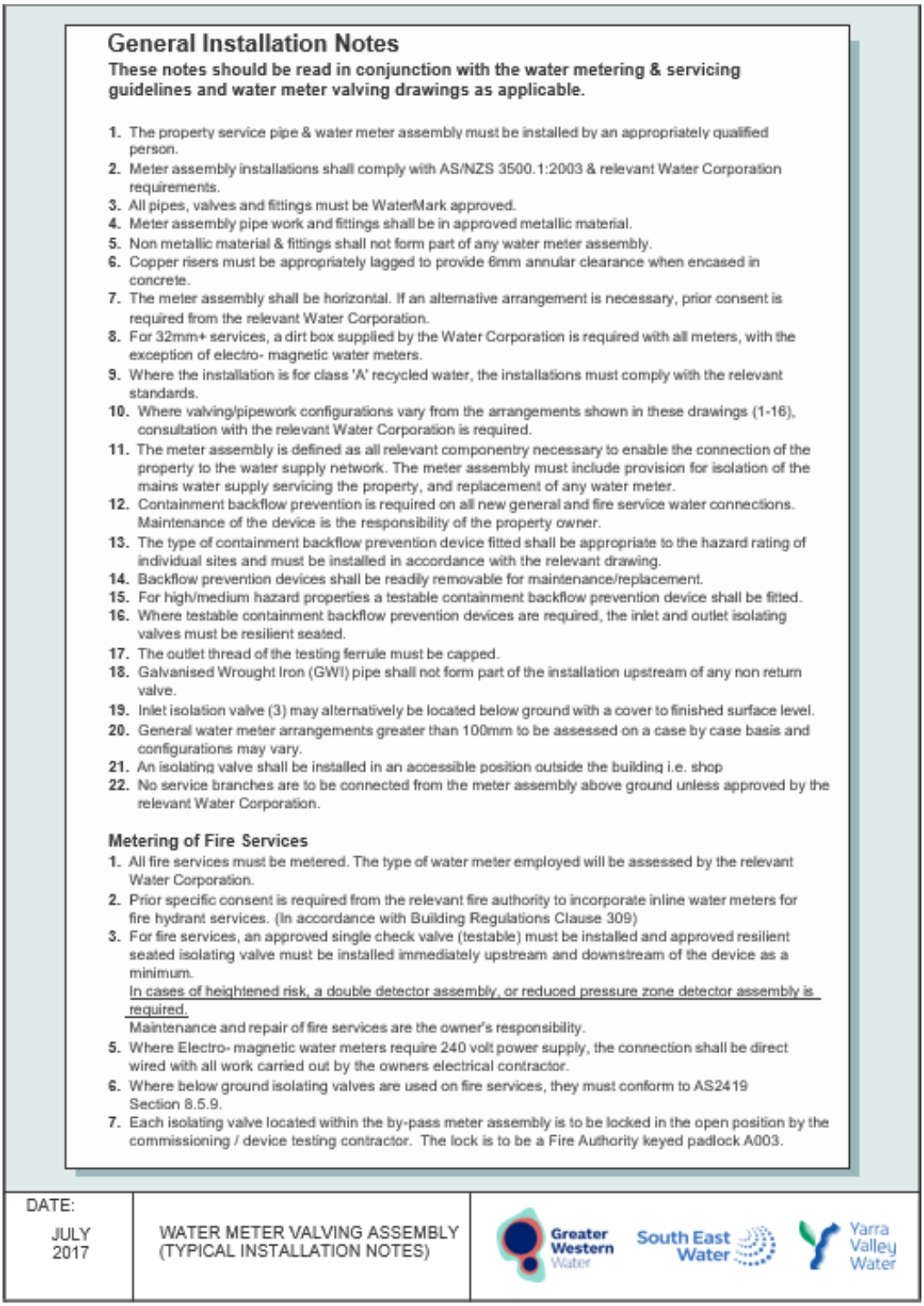
### *Example 8: Sewerage servicing – Dual lot individual title subdivision (Lots <= 500 m$^2$)*

- No common property.
- Subdivision of existing serviced lot or subdivision of existing units (as shown).
- Section 12 (1) private easement in favour of Unit A (Lot 1).
- No owners' corporation required.
- No common infrastructure.
- Infrastructure upstream of sewer branch (house connection drains) owned, operated and maintained by individual properties.
- Existing IS to be renewed as per current plumbing regulations.
- Reconnection of units as per current plumbing regulations.
- Refer to the customer charter for owner's responsibility.



## 4.0 Connection assembly diagrams

We use the MRWA typical meter installs for high, medium and low-risk meter installations for fire service and/or general water supply connections.



### General Installation Notes

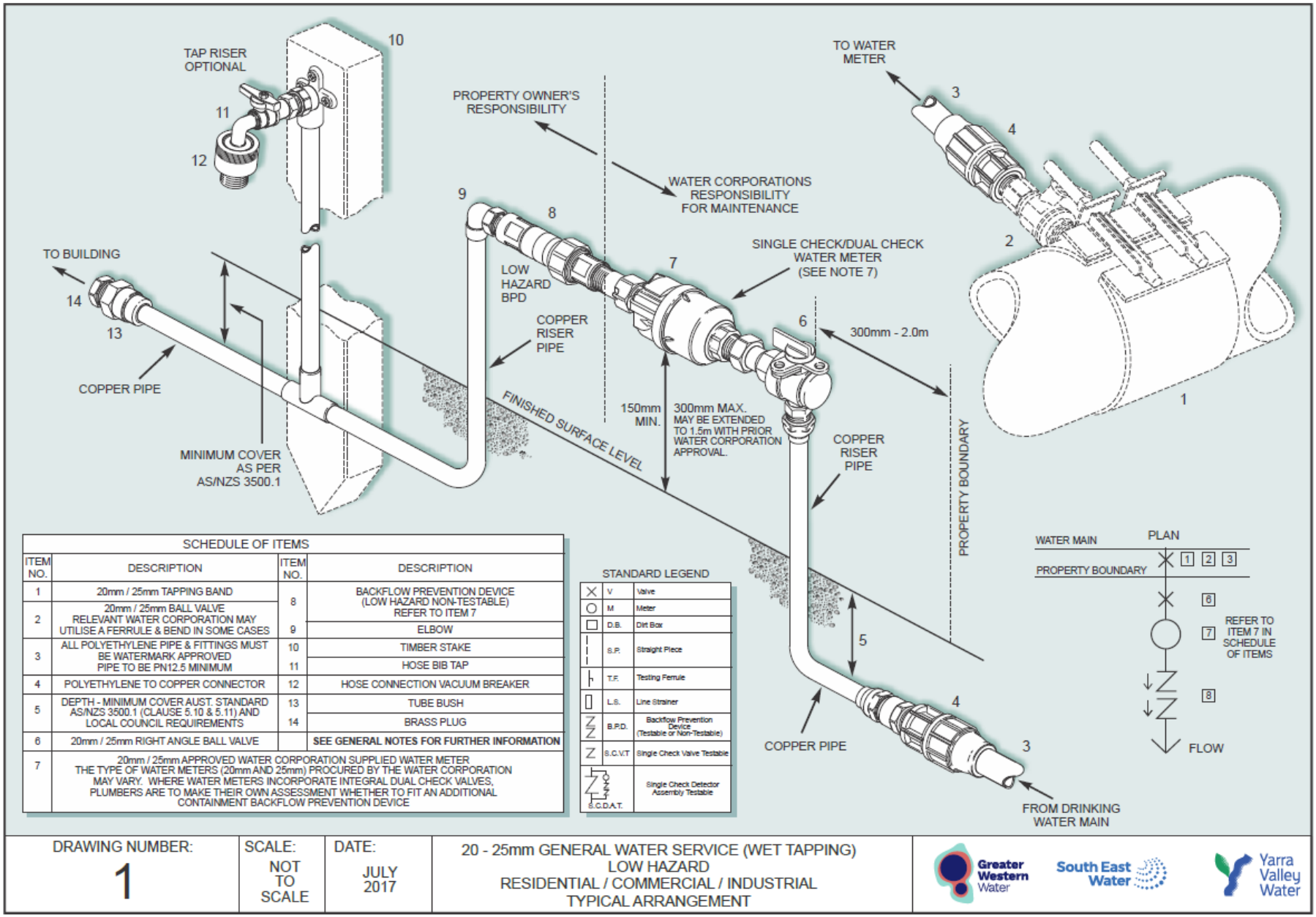
**These notes should be read in conjunction with the water metering & servicing guidelines and water meter valving drawings as applicable.**

1. The property service pipe & water meter assembly must be installed by an appropriately qualified person.
2. Meter assembly installations shall comply with AS/NZS 3500.1:2003 & relevant Water Corporation requirements.
3. All pipes, valves and fittings must be WaterMark approved.
4. Meter assembly pipe work and fittings shall be in approved metallic material.
5. Non metallic material & fittings shall not form part of any water meter assembly.
6. Copper risers must be appropriately lagged to provide 6mm annular clearance when encased in concrete.
7. The meter assembly shall be horizontal. If an alternative arrangement is necessary, prior consent is required from the relevant Water Corporation.
8. For 32mm+ services, a dirt box supplied by the Water Corporation is required with all meters, with the exception of electro- magnetic water meters.
9. Where the installation is for class 'A' recycled water, the installations must comply with the relevant standards.
10. Where valving/pipework configurations vary from the arrangements shown in these drawings (1-16), consultation with the relevant Water Corporation is required.
11. The meter assembly is defined as all relevant componentry necessary to enable the connection of the property to the water supply network. The meter assembly must include provision for isolation of the mains water supply servicing the property, and replacement of any water meter.
12. Containment backflow prevention is required on all new general and fire service water connections. Maintenance of the device is the responsibility of the property owner.
13. The type of containment backflow prevention device fitted shall be appropriate to the hazard rating of individual sites and must be installed in accordance with the relevant drawing.
14. Backflow prevention devices shall be readily removable for maintenance/replacement.
15. For high/medium hazard properties a testable containment backflow prevention device shall be fitted.
16. Where testable containment backflow prevention devices are required, the inlet and outlet isolating valves must be resilient seated.
17. The outlet thread of the testing ferrule must be capped.
18. Galvanised Wrought Iron (GWI) pipe shall not form part of the installation upstream of any non return valve.
19. Inlet isolation valve (3) may alternatively be located below ground with a cover to finished surface level.
20. General water meter arrangements greater than 100mm to be assessed on a case by case basis and configurations may vary.
21. An isolating valve shall be installed in an accessible position outside the building i.e. shop
22. No service branches are to be connected from the meter assembly above ground unless approved by the relevant Water Corporation.

### Metering of Fire Services

1. All fire services must be metered. The type of water meter employed will be assessed by the relevant Water Corporation.
2. Prior specific consent is required from the relevant fire authority to incorporate inline water meters for fire hydrant services. (In accordance with Building Regulations Clause 309)
3. For fire services, an approved single check valve (testable) must be installed and approved resilient seated isolating valve must be installed immediately upstream and downstream of the device as a minimum.
   In cases of heightened risk, a double detector assembly, or reduced pressure zone detector assembly is required.
   Maintenance and repair of fire services are the owner's responsibility.
5. Where Electro- magnetic water meters require 240 volt power supply, the connection shall be direct wired with all work carried out by the owners electrical contractor.
6. Where below ground isolating valves are used on fire services, they must conform to AS2419 Section 8.5.9.
7. Each isolating valve located within the by-pass meter assembly is to be locked in the open position by the commissioning / device testing contractor. The lock is to be a Fire Authority keyed padlock A003.

| DATE: | | |
|---|---|---|
| JULY 2017 | WATER METER VALVING ASSEMBLY (TYPICAL INSTALLATION NOTES) | Greater Western Water · South East Water · Yarra Valley Water |

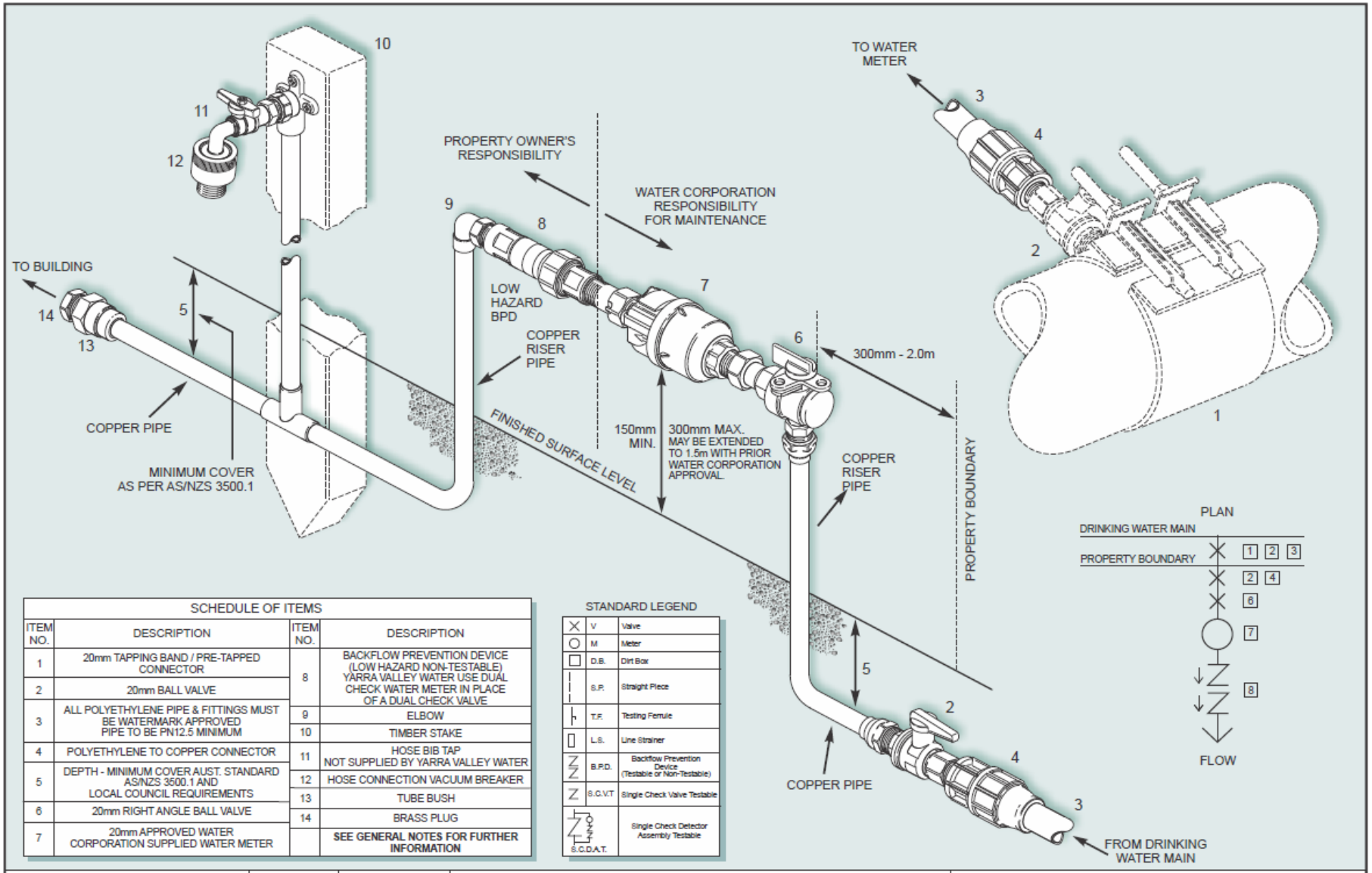



| SCHEDULE OF ITEMS | | | |
|---|---|---|---|
| ITEM NO. | DESCRIPTION | ITEM NO. | DESCRIPTION |
| 1 | 20mm / 25mm TAPPING BAND | 8 | BACKFLOW PREVENTION DEVICE (LOW HAZARD NON-TESTABLE) REFER TO ITEM 7 |
| 2 | 20mm / 25mm BALL VALVE RELEVANT WATER CORPORATION MAY UTILISE A FERRULE & BEND IN SOME CASES | 9 | ELBOW |
| 3 | ALL POLYETHYLENE PIPE & FITTINGS MUST BE WATERMARK APPROVED PIPE TO BE PN12.5 MINIMUM | 10 | TIMBER STAKE |
| | | 11 | HOSE BIB TAP |
| 4 | POLYETHYLENE TO COPPER CONNECTOR | 12 | HOSE CONNECTION VACUUM BREAKER |
| 5 | DEPTH - MINIMUM COVER AUST. STANDARD AS/NZS 3500.1 (CLAUSE 5.10 & 5.11) AND LOCAL COUNCIL REQUIREMENTS | 13 | TUBE BUSH |
| | | 14 | BRASS PLUG |
| 6 | 20mm / 25mm RIGHT ANGLE BALL VALVE | | SEE GENERAL NOTES FOR FURTHER INFORMATION |
| 7 | 20mm / 25mm APPROVED WATER CORPORATION SUPPLIED WATER METER THE TYPE OF WATER METERS (20mm AND 25mm) PROCURED BY THE WATER CORPORATION MAY VARY. WHERE WATER METERS INCORPORATE INTEGRAL DUAL CHECK VALVES, PLUMBERS ARE TO MAKE THEIR OWN ASSESSMENT WHETHER TO FIT AN ADDITIONAL CONTAINMENT BACKFLOW PREVENTION DEVICE | | |

| STANDARD LEGEND | | |
|---|---|---|
| | V | Valve |
| | M | Meter |
| | D.B. | Dirt Box |
| | S.P. | Straight Piece |
| | T.F. | Testing Ferrule |
| | L.S. | Line Strainer |
| | B.P.D. | Backflow Prevention Device (Testable or Non-Testable) |
| | S.C.V.T. | Single Check Valve Testable |
| | S.C.D.A.T. | Single Check Detector Assembly Testable |

| DRAWING NUMBER: | SCALE: | DATE: | |
|---|---|---|---|
| 1 | NOT TO SCALE | JULY 2017 | 20 - 25mm GENERAL WATER SERVICE (WET TAPPING) LOW HAZARD RESIDENTIAL / COMMERCIAL / INDUSTRIAL TYPICAL ARRANGEMENT |

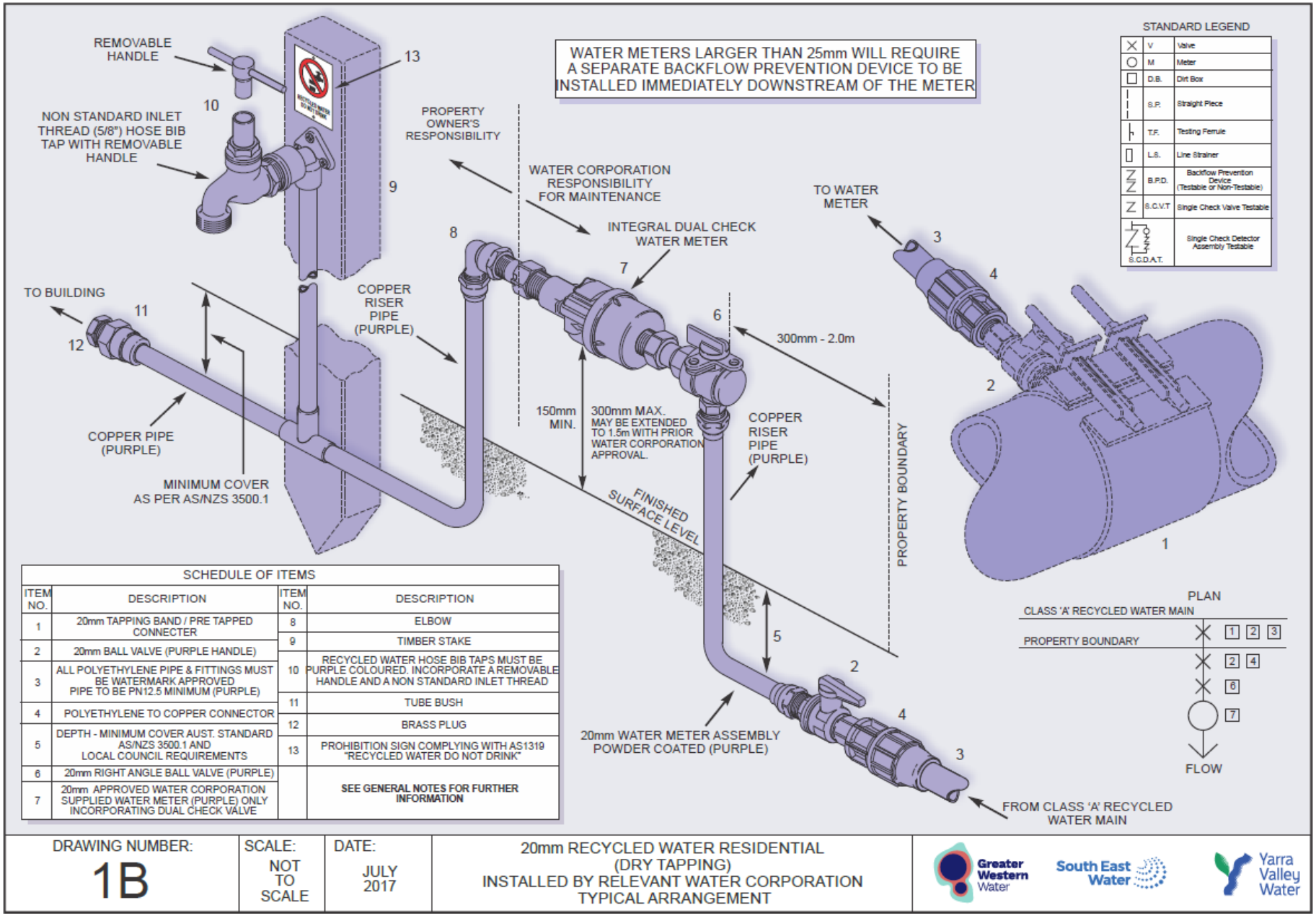
Greater Western Water | South East Water | Yarra Valley Water




| SCHEDULE OF ITEMS | | | |
|---|---|---|---|
| ITEM NO. | DESCRIPTION | ITEM NO. | DESCRIPTION |
| 1 | 20mm TAPPING BAND / PRE-TAPPED CONNECTOR | 8 | BACKFLOW PREVENTION DEVICE (LOW HAZARD NON-TESTABLE) YARRA VALLEY WATER USE DUAL CHECK WATER METER IN PLACE OF A DUAL CHECK VALVE |
| 2 | 20mm BALL VALVE | 9 | ELBOW |
| 3 | ALL POLYETHYLENE PIPE & FITTINGS MUST BE WATERMARK APPROVED PIPE TO BE PN12.5 MINIMUM | 10 | TIMBER STAKE |
| 4 | POLYETHYLENE TO COPPER CONNECTOR | 11 | HOSE BIB TAP NOT SUPPLIED BY YARRA VALLEY WATER |
| 5 | DEPTH - MINIMUM COVER AUST. STANDARD AS/NZS 3500.1 AND LOCAL COUNCIL REQUIREMENTS | 12 | HOSE CONNECTION VACUUM BREAKER |
| 6 | 20mm RIGHT ANGLE BALL VALVE | 13 | TUBE BUSH |
| 7 | 20mm APPROVED WATER CORPORATION SUPPLIED WATER METER | 14 | BRASS PLUG |
| | | | SEE GENERAL NOTES FOR FURTHER INFORMATION |

| STANDARD LEGEND | | |
|---|---|---|
| | V | Valve |
| | M | Meter |
| | D.B. | Dirt Box |
| | S.P. | Straight Piece |
| | T.F. | Testing Ferrule |
| | L.S. | Line Strainer |
| | B.P.D. | Backflow Prevention Device (Testable or Non-Testable) |
| | S.C.V.T | Single Check Valve Testable |
| | S.C.D.A.T. | Single Check Detector Assembly Testable |

| DRAWING NUMBER: | SCALE: | DATE: | |
|---|---|---|---|
| 1A | NOT TO SCALE | JULY 2017 | 20mm DRINKING WATER (DRY TAPPING) LOW HAZARD RESIDENTIAL INSTALLED BY RELEVANT WATER CORPORATION TYPICAL ARRANGEMENT |

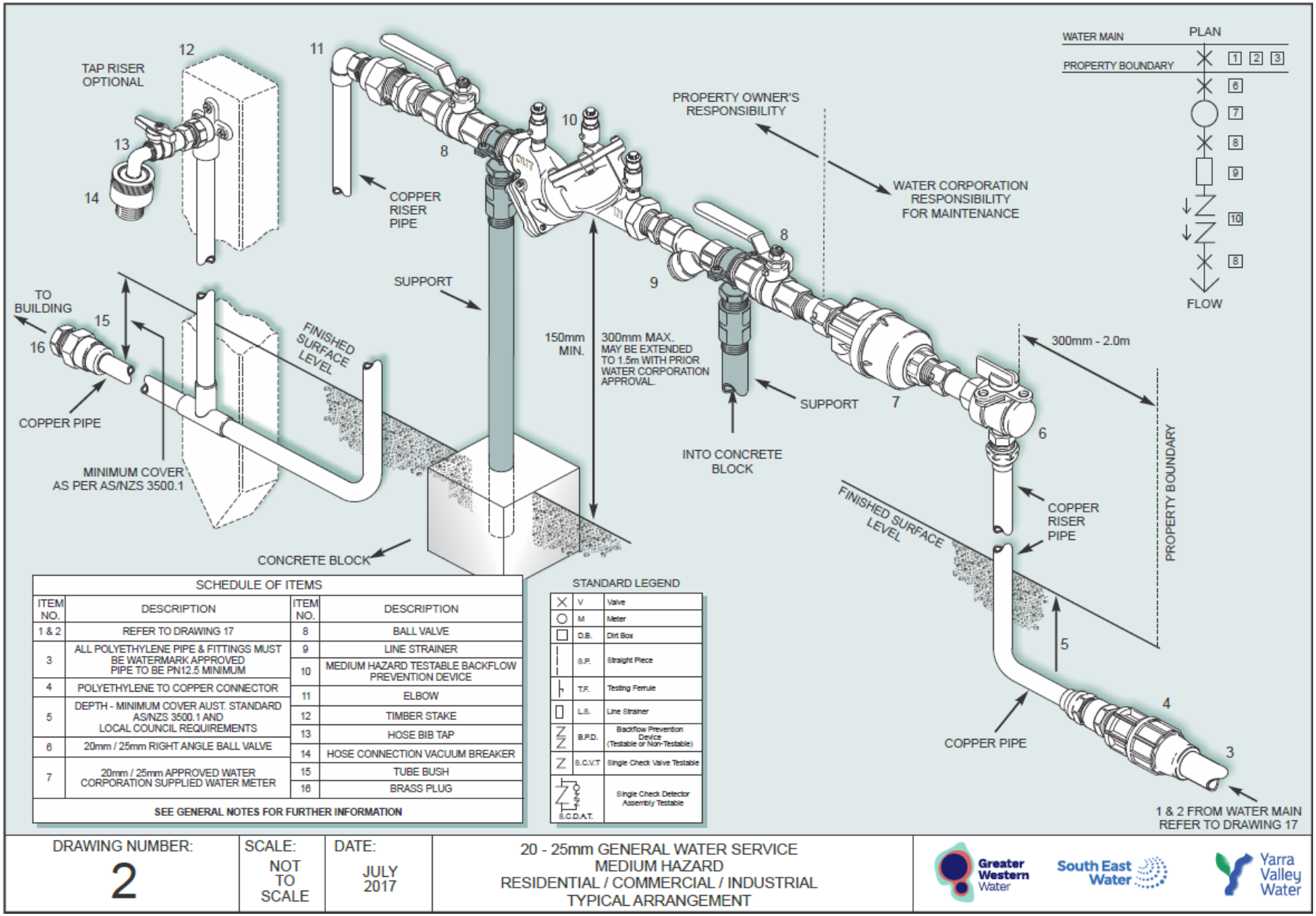



SCHEDULE OF ITEMS

| ITEM NO. | DESCRIPTION | ITEM NO. | DESCRIPTION |
|---|---|---|---|
| 1 | 20mm TAPPING BAND / PRE TAPPED CONNECTER | 8 | ELBOW |
| 2 | 20mm BALL VALVE (PURPLE HANDLE) | 9 | TIMBER STAKE |
| 3 | ALL POLYETHYLENE PIPE & FITTINGS MUST BE WATERMARK APPROVED PIPE TO BE PN12.5 MINIMUM (PURPLE) | 10 | RECYCLED WATER HOSE BIB TAPS MUST BE PURPLE COLOURED. INCORPORATE A REMOVABLE HANDLE AND A NON STANDARD INLET THREAD |
| 4 | POLYETHYLENE TO COPPER CONNECTOR | 11 | TUBE BUSH |
| 5 | DEPTH - MINIMUM COVER AUST. STANDARD AS/NZS 3500.1 AND LOCAL COUNCIL REQUIREMENTS | 12 | BRASS PLUG |
| 6 | 20mm RIGHT ANGLE BALL VALVE (PURPLE) | 13 | PROHIBITION SIGN COMPLYING WITH AS1319 "RECYCLED WATER DO NOT DRINK" |
| 7 | 20mm APPROVED WATER CORPORATION SUPPLIED WATER METER (PURPLE) ONLY INCORPORATING DUAL CHECK VALVE | | **SEE GENERAL NOTES FOR FURTHER INFORMATION** |

| DRAWING NUMBER: | SCALE: | DATE: | |
|---|---|---|---|
| 1B | NOT TO SCALE | JULY 2017 | 20mm RECYCLED WATER RESIDENTIAL (DRY TAPPING) INSTALLED BY RELEVANT WATER CORPORATION TYPICAL ARRANGEMENT |

Greater Western Water | South East Water | Yarra Valley Water

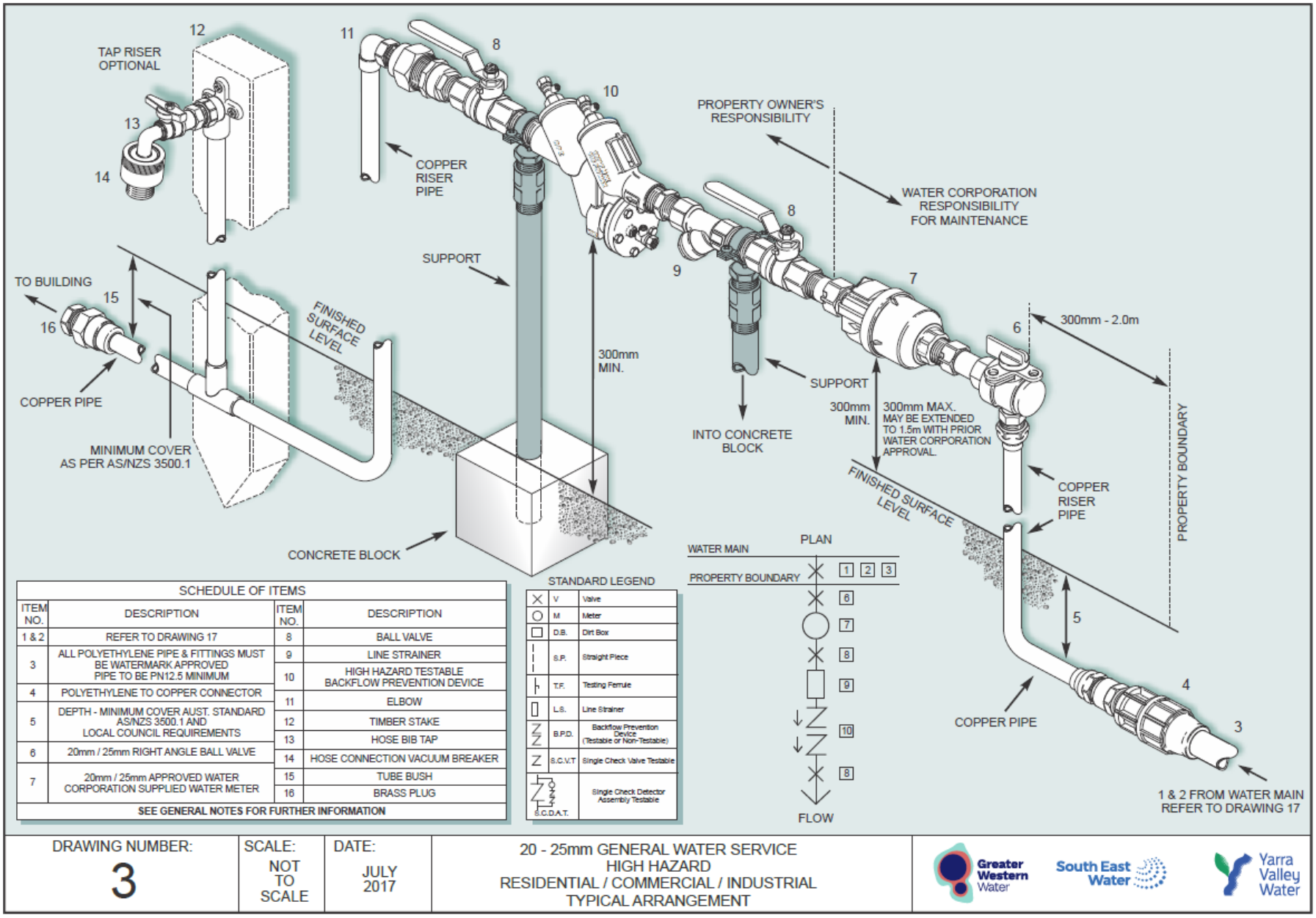



| SCHEDULE OF ITEMS | | | |
|---|---|---|---|
| ITEM NO. | DESCRIPTION | ITEM NO. | DESCRIPTION |
| 1 & 2 | REFER TO DRAWING 17 | 8 | BALL VALVE |
| 3 | ALL POLYETHYLENE PIPE & FITTINGS MUST BE WATERMARK APPROVED PIPE TO BE PN12.5 MINIMUM | 9 | LINE STRAINER |
| | | 10 | MEDIUM HAZARD TESTABLE BACKFLOW PREVENTION DEVICE |
| 4 | POLYETHYLENE TO COPPER CONNECTOR | 11 | ELBOW |
| 5 | DEPTH - MINIMUM COVER AUST. STANDARD AS/NZS 3500.1 AND LOCAL COUNCIL REQUIREMENTS | 12 | TIMBER STAKE |
| | | 13 | HOSE BIB TAP |
| 6 | 20mm / 25mm RIGHT ANGLE BALL VALVE | 14 | HOSE CONNECTION VACUUM BREAKER |
| 7 | 20mm / 25mm APPROVED WATER CORPORATION SUPPLIED WATER METER | 15 | TUBE BUSH |
| | | 16 | BRASS PLUG |
| SEE GENERAL NOTES FOR FURTHER INFORMATION | | | |

| STANDARD LEGEND | | |
|---|---|---|
| | V. | Valve |
| | M. | Meter |
| | D.B. | Dirt Box |
| | S.P. | Straight Piece |
| | T.F. | Testing Ferrule |
| | L.S. | Line Strainer |
| | B.P.D. | Backflow Prevention Device (Testable or Non-Testable) |
| | S.C.V.T | Single Check Valve Testable |
| S.C.D.A.T. | | Single Check Detector Assembly Testable |

| DRAWING NUMBER: | SCALE: | DATE: | |
|---|---|---|---|
| 2 | NOT TO SCALE | JULY 2017 | 20 - 25mm GENERAL WATER SERVICE MEDIUM HAZARD RESIDENTIAL / COMMERCIAL / INDUSTRIAL TYPICAL ARRANGEMENT |

Greater Western Water | South East Water | Yarra Valley Water

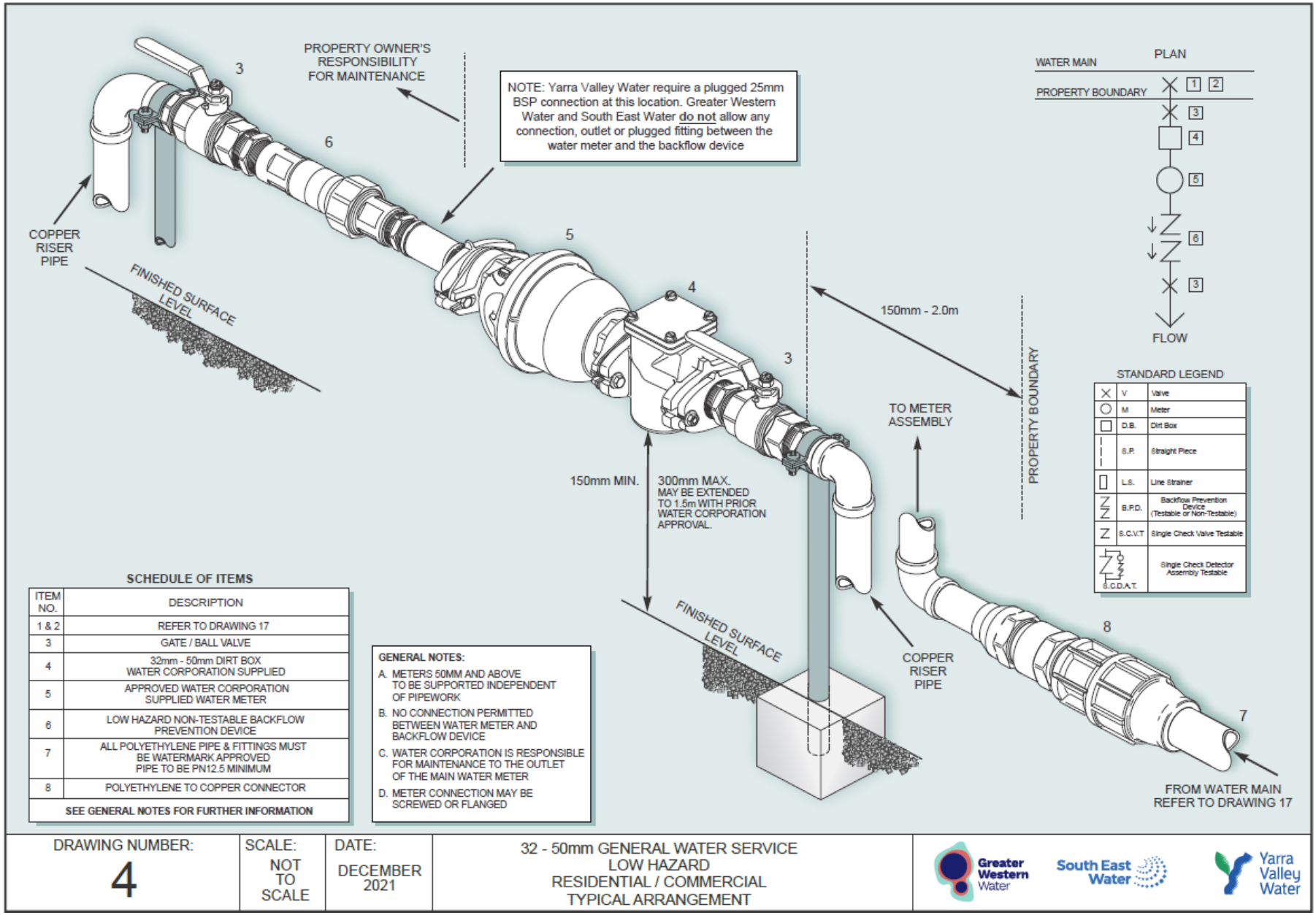



| SCHEDULE OF ITEMS | | | |
|---|---|---|---|
| ITEM NO. | DESCRIPTION | ITEM NO. | DESCRIPTION |
| 1 & 2 | REFER TO DRAWING 17 | 8 | BALL VALVE |
| 3 | ALL POLYETHYLENE PIPE & FITTINGS MUST BE WATERMARK APPROVED PIPE TO BE PN12.5 MINIMUM | 9 | LINE STRAINER |
| | | 10 | HIGH HAZARD TESTABLE BACKFLOW PREVENTION DEVICE |
| 4 | POLYETHYLENE TO COPPER CONNECTOR | 11 | ELBOW |
| 5 | DEPTH - MINIMUM COVER AUST. STANDARD AS/NZS 3500.1 AND LOCAL COUNCIL REQUIREMENTS | 12 | TIMBER STAKE |
| | | 13 | HOSE BIB TAP |
| 6 | 20mm / 25mm RIGHT ANGLE BALL VALVE | 14 | HOSE CONNECTION VACUUM BREAKER |
| 7 | 20mm / 25mm APPROVED WATER CORPORATION SUPPLIED WATER METER | 15 | TUBE BUSH |
| | | 16 | BRASS PLUG |
| SEE GENERAL NOTES FOR FURTHER INFORMATION | | | |

| STANDARD LEGEND | | |
|---|---|---|
| V | Valve | |
| M | Meter | |
| D.B. | Dirt Box | |
| S.P. | Straight Piece | |
| T.F. | Testing Ferrule | |
| L.S. | Line Strainer | |
| B.P.D. | Backflow Prevention Device (Testable or Non-Testable) | |
| S.C.V.T | Single Check Valve Testable | |
| S.C.D.A.T. | Single Check Detector Assembly Testable | |

| DRAWING NUMBER: | SCALE: | DATE: | |
|---|---|---|---|
| 3 | NOT TO SCALE | JULY 2017 | 20 - 25mm GENERAL WATER SERVICE HIGH HAZARD RESIDENTIAL / COMMERCIAL / INDUSTRIAL TYPICAL ARRANGEMENT |

Greater Western Water | South East Water | Yarra Valley Water




**SCHEDULE OF ITEMS**

| ITEM NO. | DESCRIPTION |
|---|---|
| 1 & 2 | REFER TO DRAWING 17 |
| 3 | GATE / BALL VALVE |
| 4 | 32mm - 50mm DIRT BOX WATER CORPORATION SUPPLIED |
| 5 | APPROVED WATER CORPORATION SUPPLIED WATER METER |
| 6 | LOW HAZARD NON-TESTABLE BACKFLOW PREVENTION DEVICE |
| 7 | ALL POLYETHYLENE PIPE & FITTINGS MUST BE WATERMARK APPROVED PIPE TO BE PN12.5 MINIMUM |
| 8 | POLYETHYLENE TO COPPER CONNECTOR |
| SEE GENERAL NOTES FOR FURTHER INFORMATION | |

**GENERAL NOTES:**

A. METERS 50MM AND ABOVE TO BE SUPPORTED INDEPENDENT OF PIPEWORK

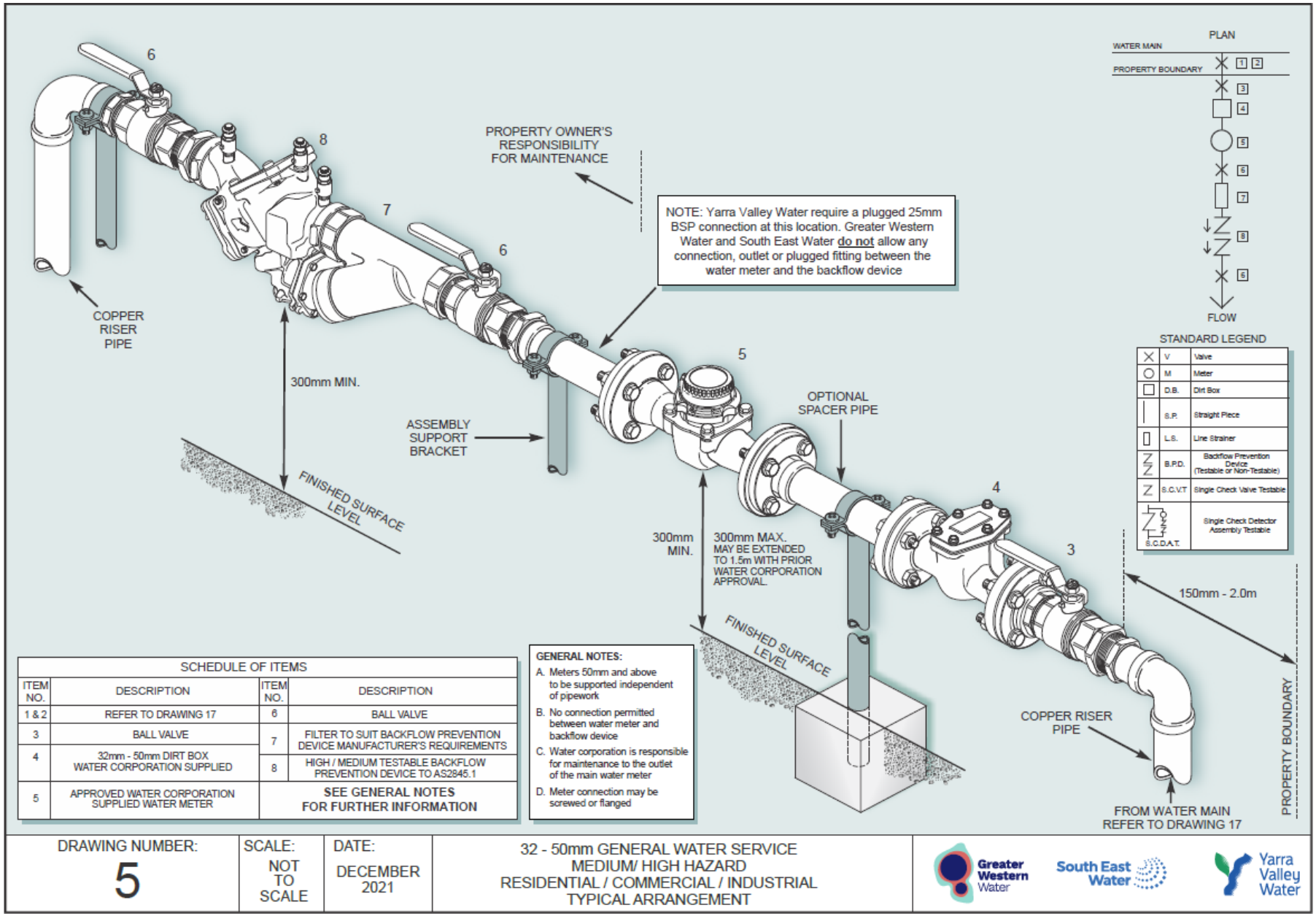
B. NO CONNECTION PERMITTED BETWEEN WATER METER AND BACKFLOW DEVICE

C. WATER CORPORATION IS RESPONSIBLE FOR MAINTENANCE TO THE OUTLET OF THE MAIN WATER METER

D. METER CONNECTION MAY BE SCREWED OR FLANGED

| DRAWING NUMBER: | SCALE: | DATE: | |
|---|---|---|---|
| 4 | NOT TO SCALE | DECEMBER 2021 | 32 - 50mm GENERAL WATER SERVICE LOW HAZARD RESIDENTIAL / COMMERCIAL TYPICAL ARRANGEMENT |

Greater Western Water | South East Water | Yarra Valley Water




| SCHEDULE OF ITEMS | | | |
|---|---|---|---|
| ITEM NO. | DESCRIPTION | ITEM NO. | DESCRIPTION |
| 1 & 2 | REFER TO DRAWING 17 | 6 | BALL VALVE |
| 3 | BALL VALVE | 7 | FILTER TO SUIT BACKFLOW PREVENTION DEVICE MANUFACTURER'S REQUIREMENTS |
| 4 | 32mm - 50mm DIRT BOX WATER CORPORATION SUPPLIED | 8 | HIGH / MEDIUM TESTABLE BACKFLOW PREVENTION DEVICE TO AS2845.1 |
| 5 | APPROVED WATER CORPORATION SUPPLIED WATER METER | SEE GENERAL NOTES FOR FURTHER INFORMATION | |

**GENERAL NOTES:**

A. Meters 50mm and above to be supported independent of pipework

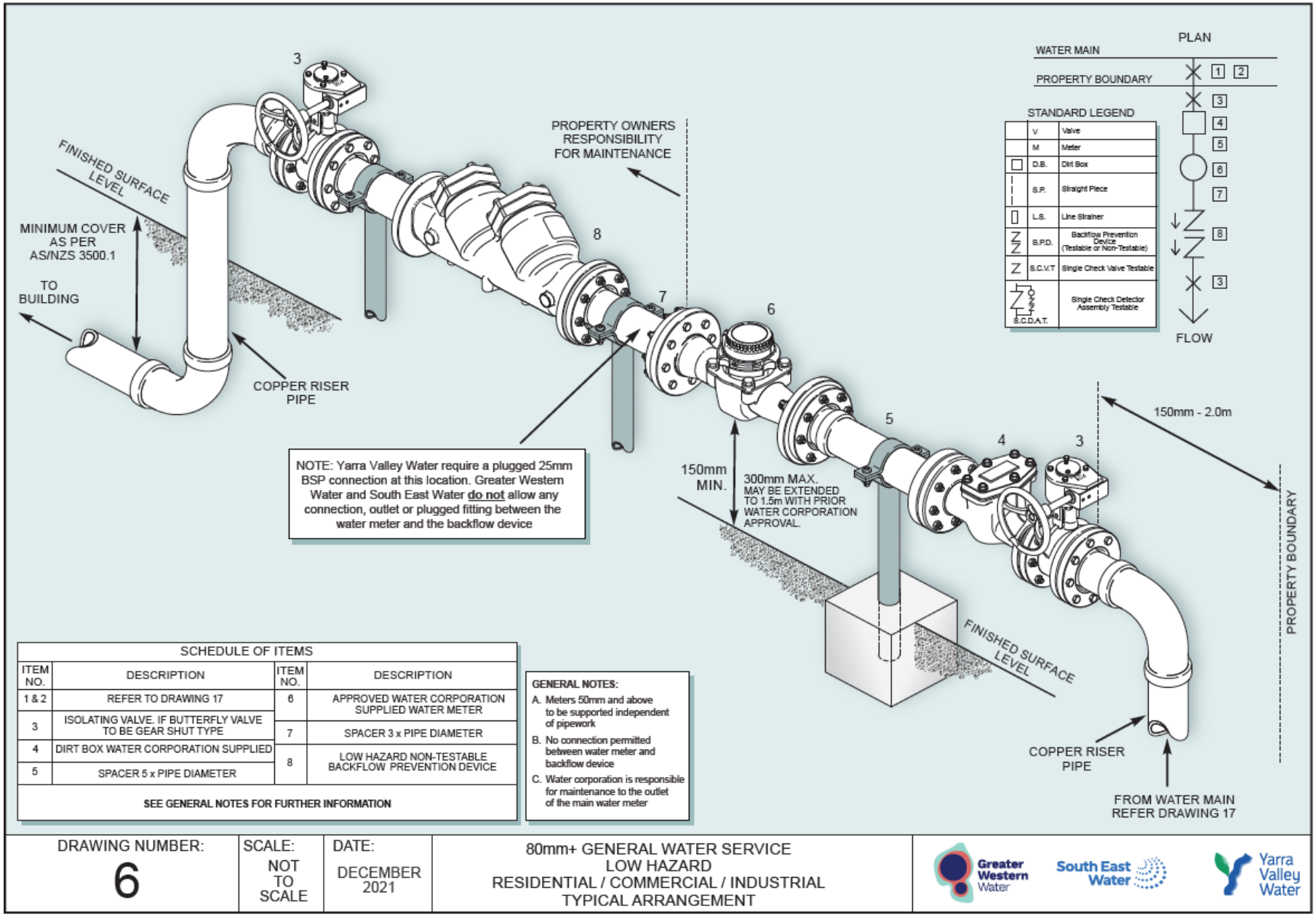
B. No connection permitted between water meter and backflow device

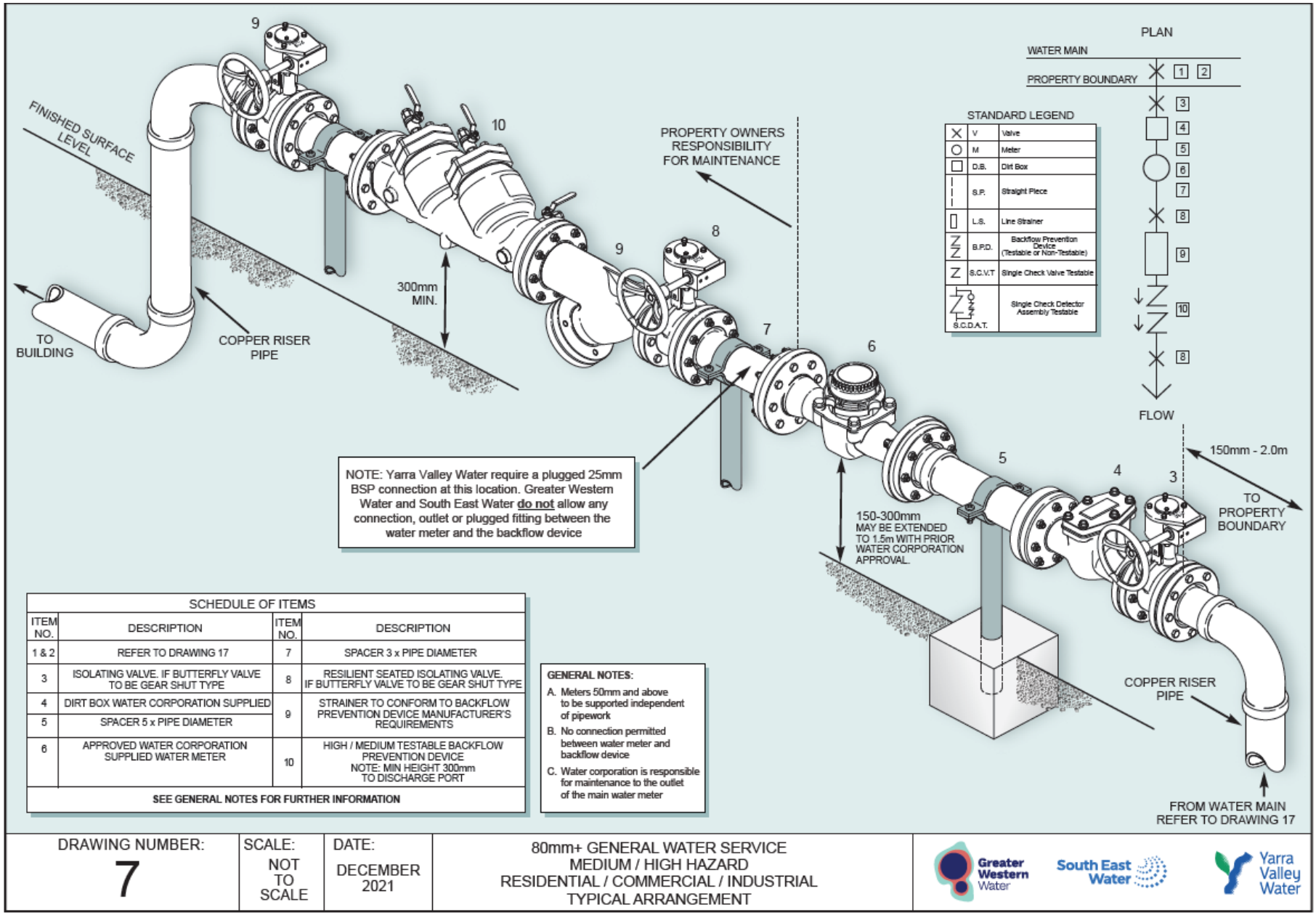
C. Water corporation is responsible for maintenance to the outlet of the main water meter

D. Meter connection may be screwed or flanged

| DRAWING NUMBER: | SCALE: | DATE: | |
|---|---|---|---|
| 5 | NOT TO SCALE | DECEMBER 2021 | 32 - 50mm GENERAL WATER SERVICE MEDIUM/ HIGH HAZARD RESIDENTIAL / COMMERCIAL / INDUSTRIAL TYPICAL ARRANGEMENT |

Greater Western Water | South East Water | Yarra Valley Water


PLAN
WATER MAIN
PROPERTY BOUNDARY
STANDARD LEGEND
V Valve
M Meter
D.B. Dirt Box
S.P. Straight Piece
L.S. Line Strainer
B.P.D. Backflow Prevention Device (Testable or Non-Testable)
S.C.V.T Single Check Valve Testable
S.C.D.A.T. Single Check Detector Assembly Testable
FLOW
FINISHED SURFACE LEVEL
MINIMUM COVER AS PER AS/NZS 3500.1
TO BUILDING
COPPER RISER PIPE
PROPERTY OWNERS RESPONSIBILITY FOR MAINTENANCE
NOTE: Yarra Valley Water require a plugged 25mm BSP connection at this location. Greater Western Water and South East Water do not allow any connection, outlet or plugged fitting between the water meter and the backflow device
150mm MIN.
300mm MAX. MAY BE EXTENDED TO 1.5m WITH PRIOR WATER CORPORATION APPROVAL.
150mm - 2.0m
PROPERTY BOUNDARY
FINISHED SURFACE LEVEL
COPPER RISER PIPE
FROM WATER MAIN REFER DRAWING 17
SCHEDULE OF ITEMS
ITEM NO. | DESCRIPTION | ITEM NO. | DESCRIPTION
1 & 2 | REFER TO DRAWING 17 | 6 | APPROVED WATER CORPORATION SUPPLIED WATER METER
3 | ISOLATING VALVE. IF BUTTERFLY VALVE TO BE GEAR SHUT TYPE | 7 | SPACER 3 x PIPE DIAMETER
4 | DIRT BOX WATER CORPORATION SUPPLIED | 8 | LOW HAZARD NON-TESTABLE BACKFLOW PREVENTION DEVICE
5 | SPACER 5 x PIPE DIAMETER
SEE GENERAL NOTES FOR FURTHER INFORMATION
GENERAL NOTES:
A. Meters 50mm and above to be supported independent of pipework
B. No connection permitted between water meter and backflow device
C. Water corporation is responsible for maintenance to the outlet of the main water meter
DRAWING NUMBER: 6
SCALE: NOT TO SCALE
DATE: DECEMBER 2021
80mm+ GENERAL WATER SERVICE
LOW HAZARD
RESIDENTIAL / COMMERCIAL / INDUSTRIAL
TYPICAL ARRANGEMENT
Greater Western Water
South East Water
Yarra Valley Water




| SCHEDULE OF ITEMS | | | |
|---|---|---|---|
| ITEM NO. | DESCRIPTION | ITEM NO. | DESCRIPTION |
| 1 & 2 | REFER TO DRAWING 17 | 7 | SPACER 3 x PIPE DIAMETER |
| 3 | ISOLATING VALVE. IF BUTTERFLY VALVE TO BE GEAR SHUT TYPE | 8 | RESILIENT SEATED ISOLATING VALVE. IF BUTTERFLY VALVE TO BE GEAR SHUT TYPE |
| 4 | DIRT BOX WATER CORPORATION SUPPLIED | 9 | STRAINER TO CONFORM TO BACKFLOW PREVENTION DEVICE MANUFACTURER'S REQUIREMENTS |
| 5 | SPACER 5 x PIPE DIAMETER | | |
| 6 | APPROVED WATER CORPORATION SUPPLIED WATER METER | 10 | HIGH / MEDIUM TESTABLE BACKFLOW PREVENTION DEVICE NOTE: MIN HEIGHT 300mm TO DISCHARGE PORT |
| SEE GENERAL NOTES FOR FURTHER INFORMATION | | | |

**GENERAL NOTES:**

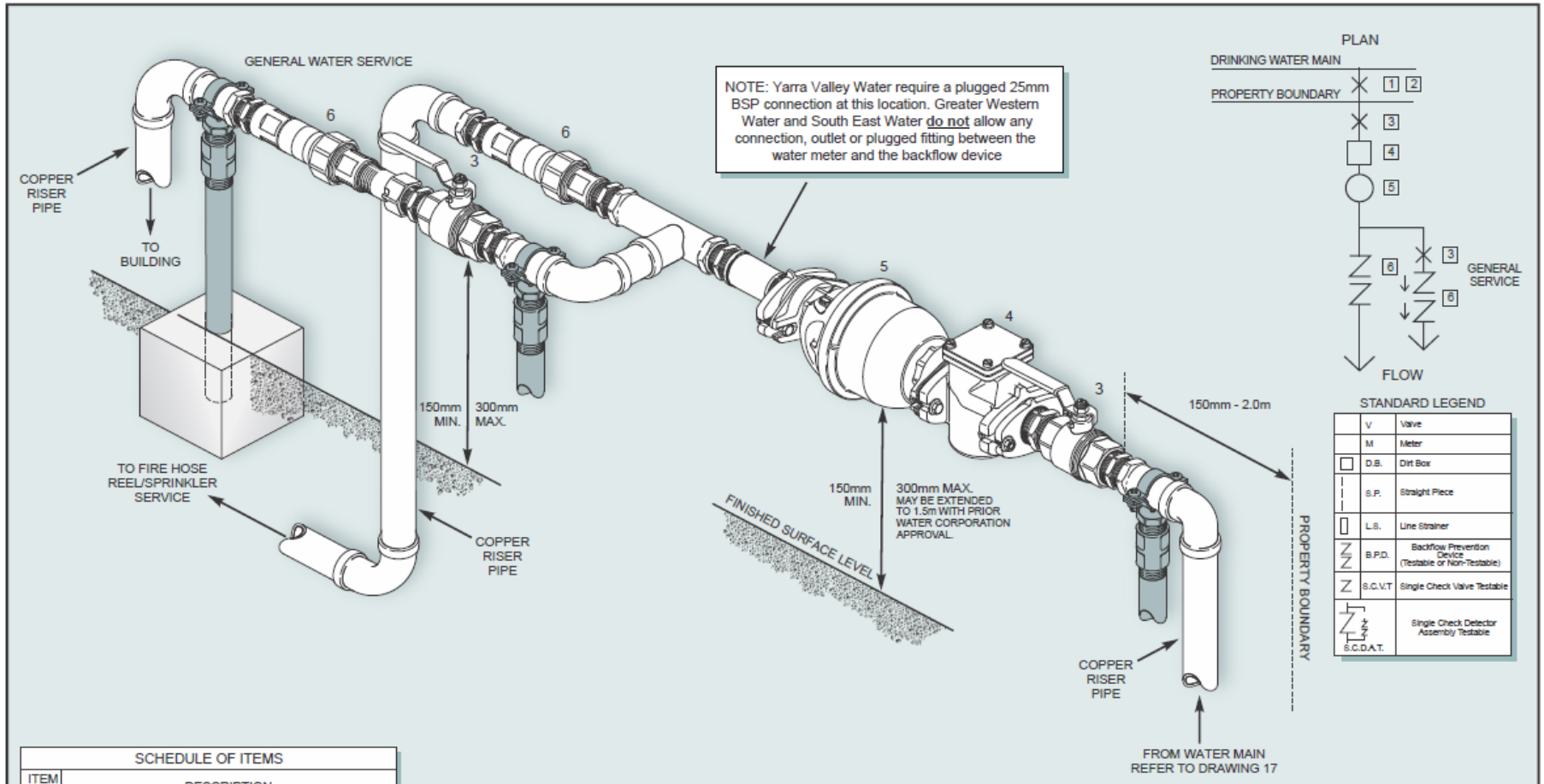
A. Meters 50mm and above to be supported independent of pipework

B. No connection permitted between water meter and backflow device

C. Water corporation is responsible for maintenance to the outlet of the main water meter

| DRAWING NUMBER: | SCALE: | DATE: | |
|---|---|---|---|
| 7 | NOT TO SCALE | DECEMBER 2021 | 80mm+ GENERAL WATER SERVICE<br>MEDIUM / HIGH HAZARD<br>RESIDENTIAL / COMMERCIAL / INDUSTRIAL<br>TYPICAL ARRANGEMENT |

Greater Western Water | South East Water | Yarra Valley Water




| SCHEDULE OF ITEMS | |
|---|---|
| ITEM NO. | DESCRIPTION |
| 1 & 2 | REFER TO DRAWING 17 |
| 3 | GATE / BALL VALVE |
| 4 | DIRT BOX FOR 32mm + WATER CORPORATION SUPPLIED |
| 5 | APPROVED WATER CORPORATION SUPPLIED WATER METER |
| 6 | APPROPRIATE APPROVED BACKFLOW PREVENTION DEVICE |
| SEE GENERAL NOTES FOR FURTHER INFORMATION | |

**GENERAL NOTES:**

A. METERS 50MM AND ABOVE TO BE SUPPORTED INDEPENDENT OF PIPEWORK

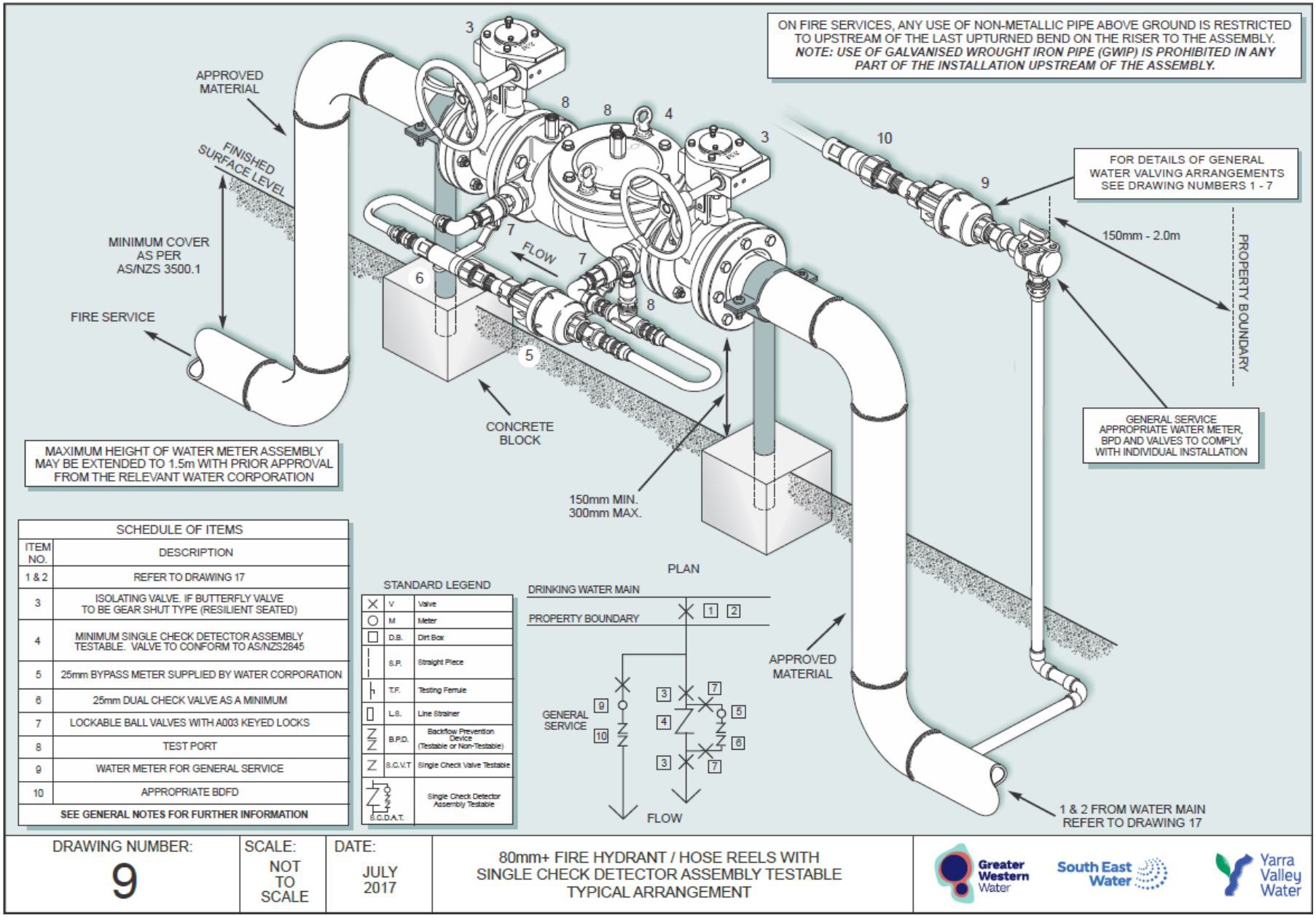
B. NO CONNECTION PERMITTED BETWEEN WATER METER AND BACKFLOW DEVICE

C. METER CONNECTION MAY BE SCREWED OR FLANGED

D. WHERE FIRE SERVICES HAVE HOSE REELS IN AREAS SUBJECT TO POTENTIAL INTERCONNECTION WITH CONTAMINANTS, THE TYPE OF BACKFLOW PREVENTION DEVICES INSTALLED AT THE WATER METER MUST BE RELEVANT TO THE HAZARD RATING OF THE PROPERTY.

| DRAWING NUMBER: | SCALE: | DATE: | |
|---|---|---|---|
| 8 | NOT TO SCALE | DECEMBER 2021 | 25 - 50mm FIRE HOSE REEL/SPRINKLER AND GENERAL SERVICE TYPICAL ARRANGEMENT |

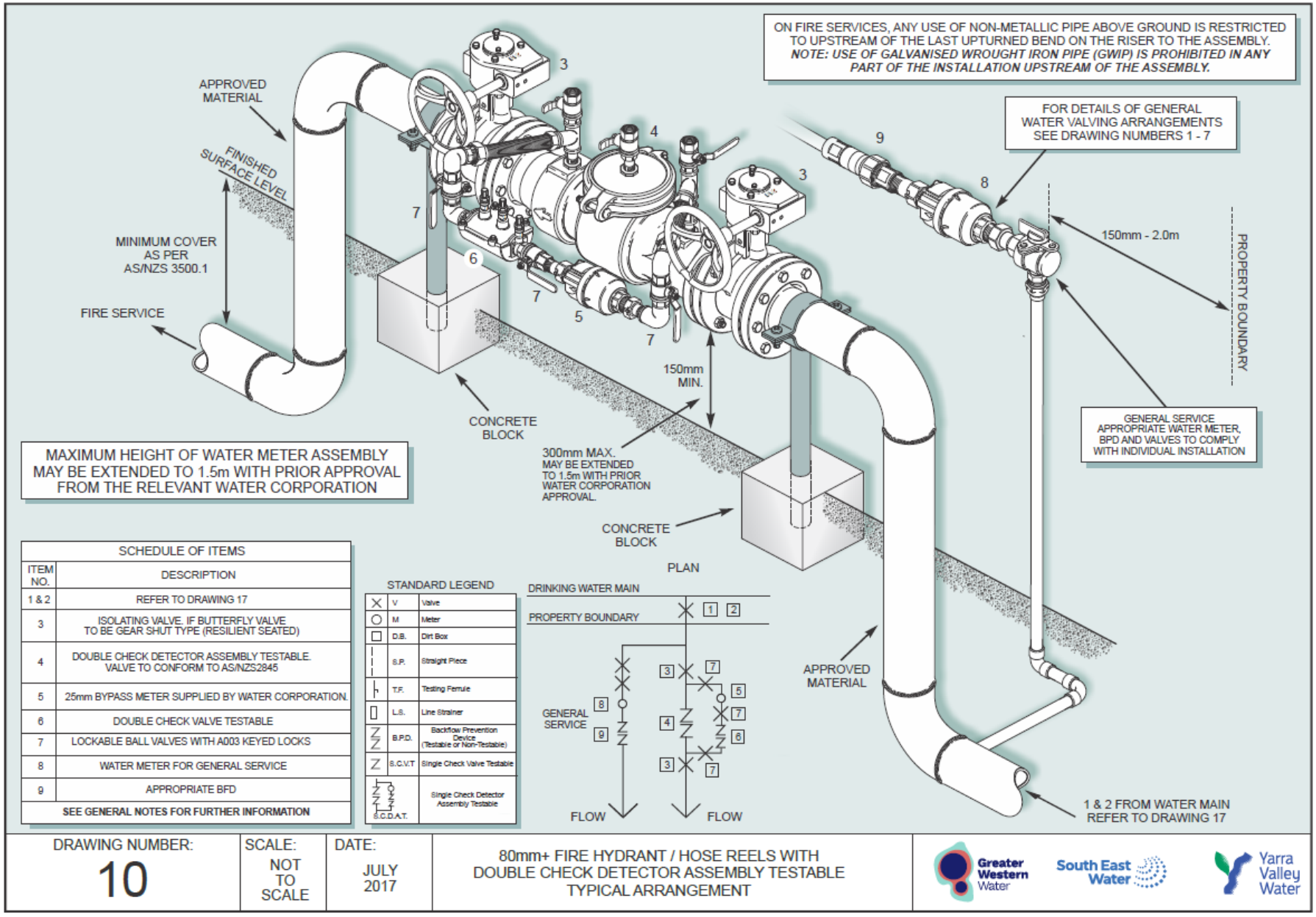
Greater Western Water | South East Water | Yarra Valley Water

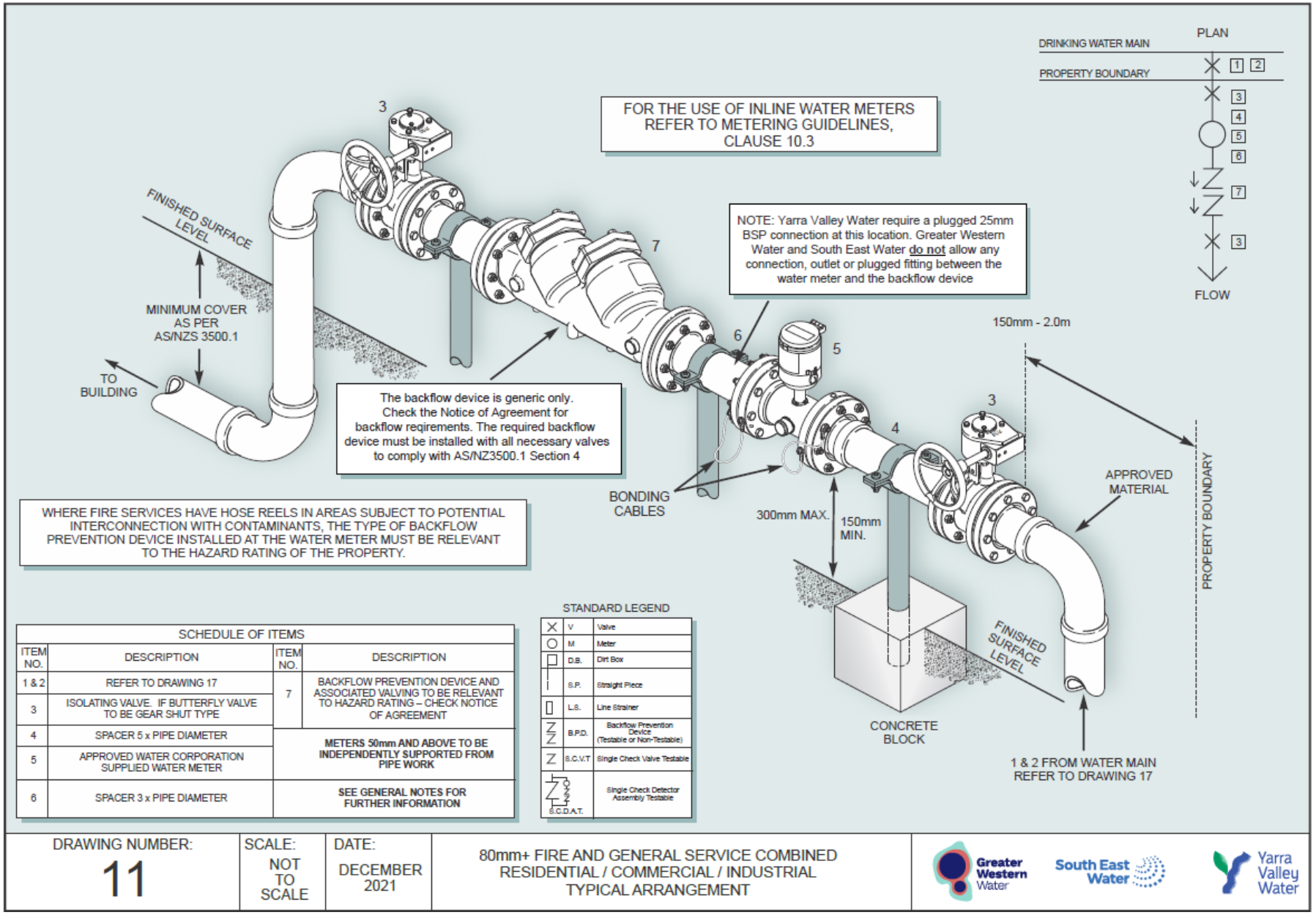



| SCHEDULE OF ITEMS | |
|---|---|
| ITEM NO. | DESCRIPTION |
| 1 & 2 | REFER TO DRAWING 17 |
| 3 | ISOLATING VALVE. IF BUTTERFLY VALVE TO BE GEAR SHUT TYPE (RESILIENT SEATED) |
| 4 | MINIMUM SINGLE CHECK DETECTOR ASSEMBLY TESTABLE. VALVE TO CONFORM TO AS/NZS2845 |
| 5 | 25mm BYPASS METER SUPPLIED BY WATER CORPORATION |
| 6 | 25mm DUAL CHECK VALVE AS A MINIMUM |
| 7 | LOCKABLE BALL VALVES WITH A003 KEYED LOCKS |
| 8 | TEST PORT |
| 9 | WATER METER FOR GENERAL SERVICE |
| 10 | APPROPRIATE BDFD |
| SEE GENERAL NOTES FOR FURTHER INFORMATION | |

| STANDARD LEGEND | | |
|---|---|---|
| V | Valve | |
| M | Meter | |
| D.B. | Dirt Box | |
| S.P. | Straight Piece | |
| T.F. | Testing Ferrule | |
| L.S. | Line Strainer | |
| B.P.D. | Backflow Prevention Device (Testable or Non-Testable) | |
| S.C.V.T | Single Check Valve Testable | |
| S.C.D.A.T. | Single Check Detector Assembly Testable | |

| DRAWING NUMBER: | SCALE: | DATE: | |
|---|---|---|---|
| 9 | NOT TO SCALE | JULY 2017 | 80mm+ FIRE HYDRANT / HOSE REELS WITH SINGLE CHECK DETECTOR ASSEMBLY TESTABLE TYPICAL ARRANGEMENT |

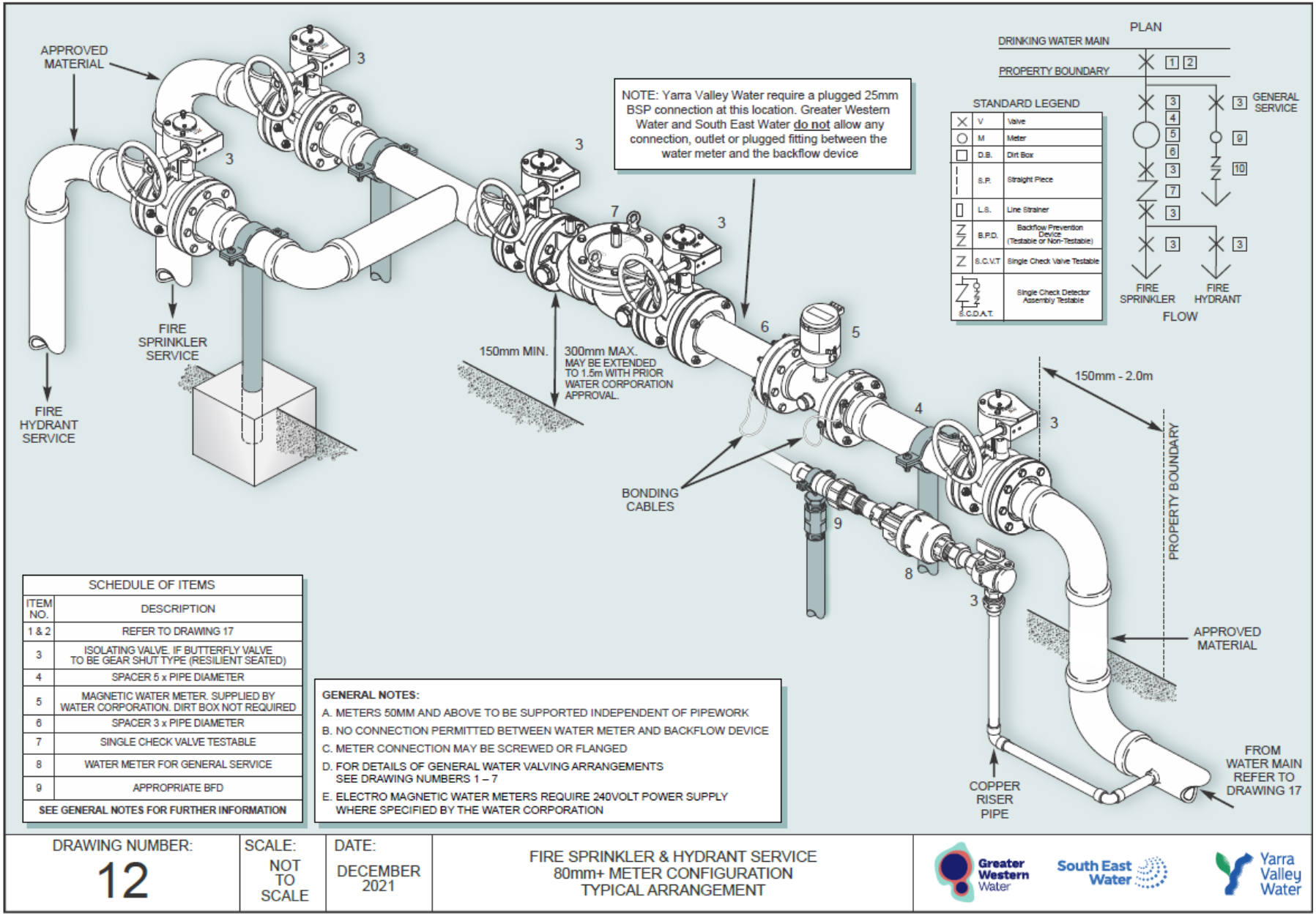

ON FIRE SERVICES, ANY USE OF NON-METALLIC PIPE ABOVE GROUND IS RESTRICTED TO UPSTREAM OF THE LAST UPTURNED BEND ON THE RISER TO THE ASSEMBLY.
NOTE: USE OF GALVANISED WROUGHT IRON PIPE (GWIP) IS PROHIBITED IN ANY PART OF THE INSTALLATION UPSTREAM OF THE ASSEMBLY.
FOR DETAILS OF GENERAL WATER VALVING ARRANGEMENTS SEE DRAWING NUMBERS 1 - 7
APPROVED MATERIAL
FINISHED SURFACE LEVEL
MINIMUM COVER AS PER AS/NZS 3500.1
FIRE SERVICE
CONCRETE BLOCK
150mm MIN.
300mm MAX. MAY BE EXTENDED TO 1.5m WITH PRIOR WATER CORPORATION APPROVAL.
150mm - 2.0m
PROPERTY BOUNDARY
GENERAL SERVICE APPROPRIATE WATER METER, BPD AND VALVES TO COMPLY WITH INDIVIDUAL INSTALLATION
MAXIMUM HEIGHT OF WATER METER ASSEMBLY MAY BE EXTENDED TO 1.5m WITH PRIOR APPROVAL FROM THE RELEVANT WATER CORPORATION
CONCRETE BLOCK
PLAN
DRINKING WATER MAIN
PROPERTY BOUNDARY
GENERAL SERVICE
APPROVED MATERIAL
FLOW
FLOW
1 & 2 FROM WATER MAIN REFER TO DRAWING 17
SCHEDULE OF ITEMS
ITEM NO. | DESCRIPTION
1 & 2 | REFER TO DRAWING 17
3 | ISOLATING VALVE. IF BUTTERFLY VALVE TO BE GEAR SHUT TYPE (RESILIENT SEATED)
4 | DOUBLE CHECK DETECTOR ASSEMBLY TESTABLE. VALVE TO CONFORM TO AS/NZS2845
5 | 25mm BYPASS METER SUPPLIED BY WATER CORPORATION.
6 | DOUBLE CHECK VALVE TESTABLE
7 | LOCKABLE BALL VALVES WITH A003 KEYED LOCKS
8 | WATER METER FOR GENERAL SERVICE
9 | APPROPRIATE BFD
SEE GENERAL NOTES FOR FURTHER INFORMATION
STANDARD LEGEND
V Valve
M Meter
D.B. Dirt Box
S.P. Straight Piece
T.F. Testing Ferrule
L.S. Line Strainer
B.P.D. Backflow Prevention Device (Testable or Non-Testable)
S.C.V.T Single Check Valve Testable
S.C.D.A.T. Single Check Detector Assembly Testable
DRAWING NUMBER: 10
SCALE: NOT TO SCALE
DATE: JULY 2017
80mm+ FIRE HYDRANT / HOSE REELS WITH DOUBLE CHECK DETECTOR ASSEMBLY TESTABLE TYPICAL ARRANGEMENT
Greater Western Water
South East Water
Yarra Valley Water




| SCHEDULE OF ITEMS | | | |
|---|---|---|---|
| ITEM NO. | DESCRIPTION | ITEM NO. | DESCRIPTION |
| 1 & 2 | REFER TO DRAWING 17 | 7 | BACKFLOW PREVENTION DEVICE AND ASSOCIATED VALVING TO BE RELEVANT TO HAZARD RATING – CHECK NOTICE OF AGREEMENT |
| 3 | ISOLATING VALVE. IF BUTTERFLY VALVE TO BE GEAR SHUT TYPE | | |
| 4 | SPACER 5 x PIPE DIAMETER | | METERS 50mm AND ABOVE TO BE INDEPENDENTLY SUPPORTED FROM PIPE WORK |
| 5 | APPROVED WATER CORPORATION SUPPLIED WATER METER | | |
| 6 | SPACER 3 x PIPE DIAMETER | | SEE GENERAL NOTES FOR FURTHER INFORMATION |

| DRAWING NUMBER: | SCALE: | DATE: | |
|---|---|---|---|
| 11 | NOT TO SCALE | DECEMBER 2021 | 80mm+ FIRE AND GENERAL SERVICE COMBINED RESIDENTIAL / COMMERCIAL / INDUSTRIAL TYPICAL ARRANGEMENT |

Greater Western Water | South East Water | Yarra Valley Water




| SCHEDULE OF ITEMS | |
|---|---|
| ITEM NO. | DESCRIPTION |
| 1 & 2 | REFER TO DRAWING 17 |
| 3 | ISOLATING VALVE. IF BUTTERFLY VALVE TO BE GEAR SHUT TYPE (RESILIENT SEATED) |
| 4 | SPACER 5 x PIPE DIAMETER |
| 5 | MAGNETIC WATER METER. SUPPLIED BY WATER CORPORATION. DIRT BOX NOT REQUIRED |
| 6 | SPACER 3 x PIPE DIAMETER |
| 7 | SINGLE CHECK VALVE TESTABLE |
| 8 | WATER METER FOR GENERAL SERVICE |
| 9 | APPROPRIATE BFD |
| SEE GENERAL NOTES FOR FURTHER INFORMATION | |

**GENERAL NOTES:**

A. METERS 50MM AND ABOVE TO BE SUPPORTED INDEPENDENT OF PIPEWORK

B. NO CONNECTION PERMITTED BETWEEN WATER METER AND BACKFLOW DEVICE

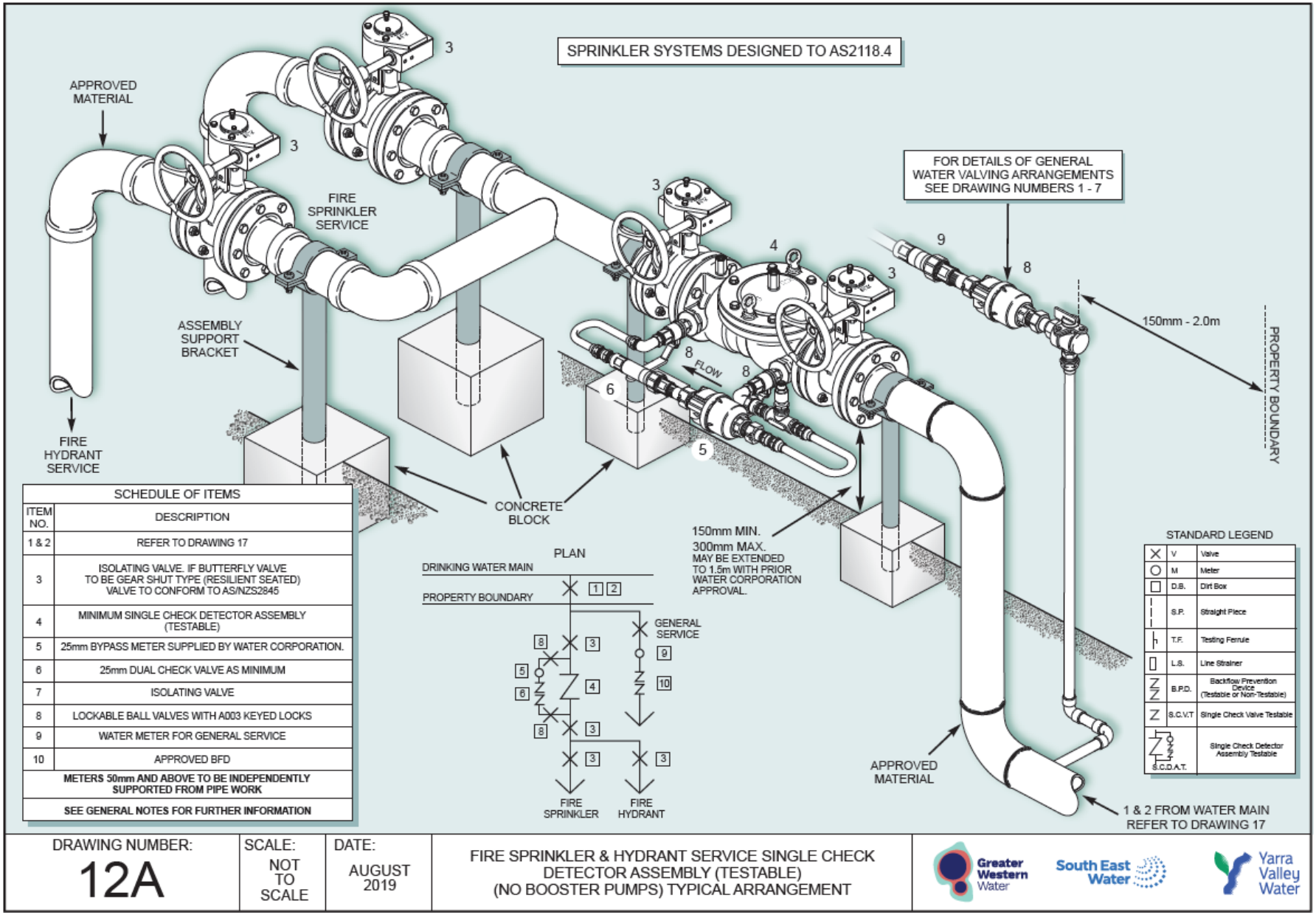
C. METER CONNECTION MAY BE SCREWED OR FLANGED

D. FOR DETAILS OF GENERAL WATER VALVING ARRANGEMENTS SEE DRAWING NUMBERS 1 – 7

E. ELECTRO MAGNETIC WATER METERS REQUIRE 240VOLT POWER SUPPLY WHERE SPECIFIED BY THE WATER CORPORATION

| DRAWING NUMBER: | SCALE: | DATE: | |
|---|---|---|---|
| 12 | NOT TO SCALE | DECEMBER 2021 | FIRE SPRINKLER & HYDRANT SERVICE 80mm+ METER CONFIGURATION TYPICAL ARRANGEMENT |

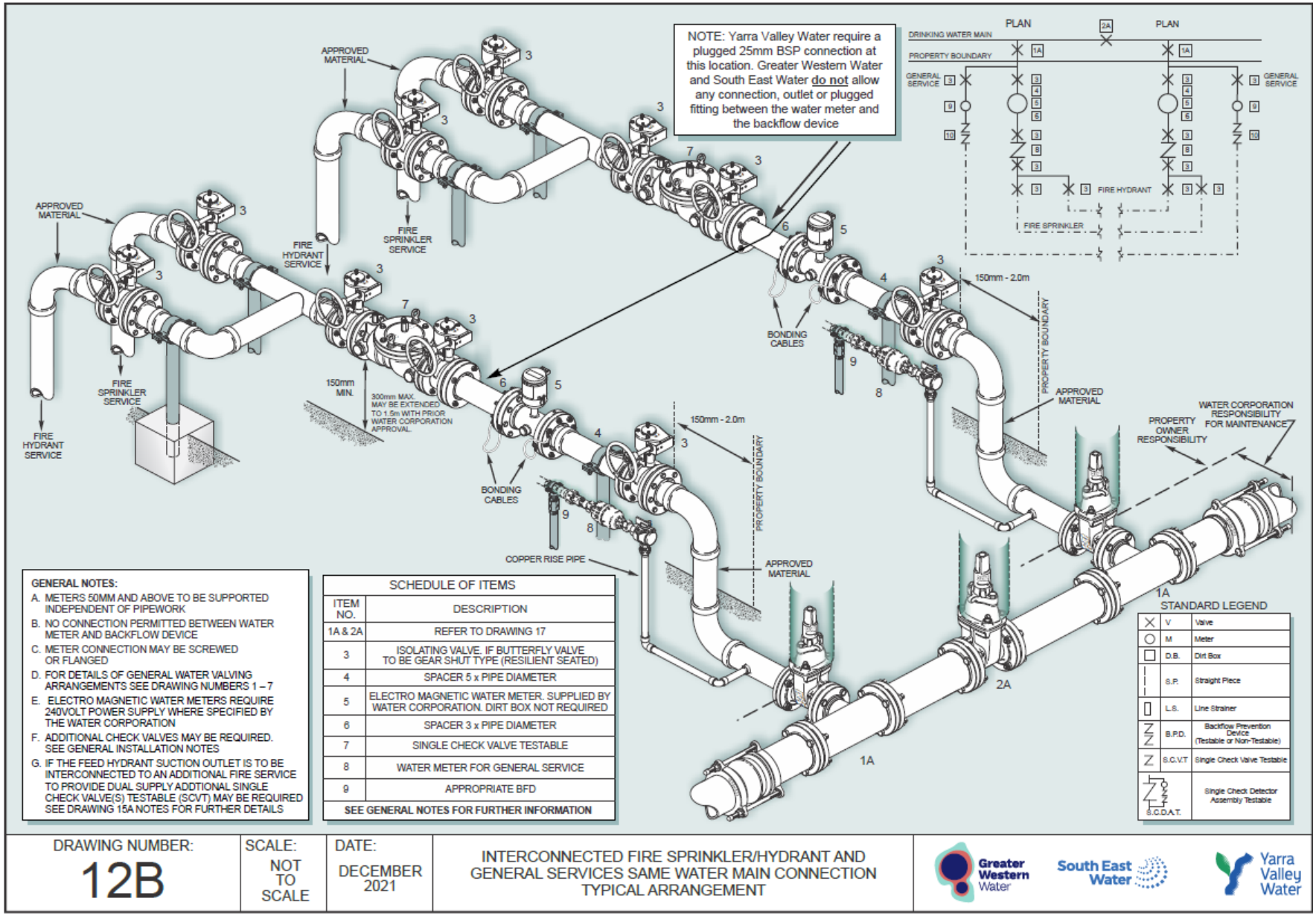
Greater Western Water | South East Water | Yarra Valley Water




| SCHEDULE OF ITEMS | |
|---|---|
| ITEM NO. | DESCRIPTION |
| 1 & 2 | REFER TO DRAWING 17 |
| 3 | ISOLATING VALVE. IF BUTTERFLY VALVE TO BE GEAR SHUT TYPE (RESILIENT SEATED) VALVE TO CONFORM TO AS/NZS2845 |
| 4 | MINIMUM SINGLE CHECK DETECTOR ASSEMBLY (TESTABLE) |
| 5 | 25mm BYPASS METER SUPPLIED BY WATER CORPORATION. |
| 6 | 25mm DUAL CHECK VALVE AS MINIMUM |
| 7 | ISOLATING VALVE |
| 8 | LOCKABLE BALL VALVES WITH A003 KEYED LOCKS |
| 9 | WATER METER FOR GENERAL SERVICE |
| 10 | APPROVED BFD |
| METERS 50mm AND ABOVE TO BE INDEPENDENTLY SUPPORTED FROM PIPE WORK | |
| SEE GENERAL NOTES FOR FURTHER INFORMATION | |

| DRAWING NUMBER: | SCALE: | DATE: | |
|---|---|---|---|
| 12A | NOT TO SCALE | AUGUST 2019 | FIRE SPRINKLER & HYDRANT SERVICE SINGLE CHECK DETECTOR ASSEMBLY (TESTABLE) (NO BOOSTER PUMPS) TYPICAL ARRANGEMENT |

Greater Western Water | South East Water | Yarra Valley Water




**GENERAL NOTES:**

A. METERS 50MM AND ABOVE TO BE SUPPORTED INDEPENDENT OF PIPEWORK
B. NO CONNECTION PERMITTED BETWEEN WATER METER AND BACKFLOW DEVICE
C. METER CONNECTION MAY BE SCREWED OR FLANGED
D. FOR DETAILS OF GENERAL WATER VALVING ARRANGEMENTS SEE DRAWING NUMBERS 1 – 7
E. ELECTRO MAGNETIC WATER METERS REQUIRE 240VOLT POWER SUPPLY WHERE SPECIFIED BY THE WATER CORPORATION
F. ADDITIONAL CHECK VALVES MAY BE REQUIRED. SEE GENERAL INSTALLATION NOTES
G. IF THE FEED HYDRANT SUCTION OUTLET IS TO BE INTERCONNECTED TO AN ADDITIONAL FIRE SERVICE TO PROVIDE DUAL SUPPLY ADDTIONAL SINGLE CHECK VALVE(S) TESTABLE (SCVT) MAY BE REQUIRED SEE DRAWING 15A NOTES FOR FURTHER DETAILS

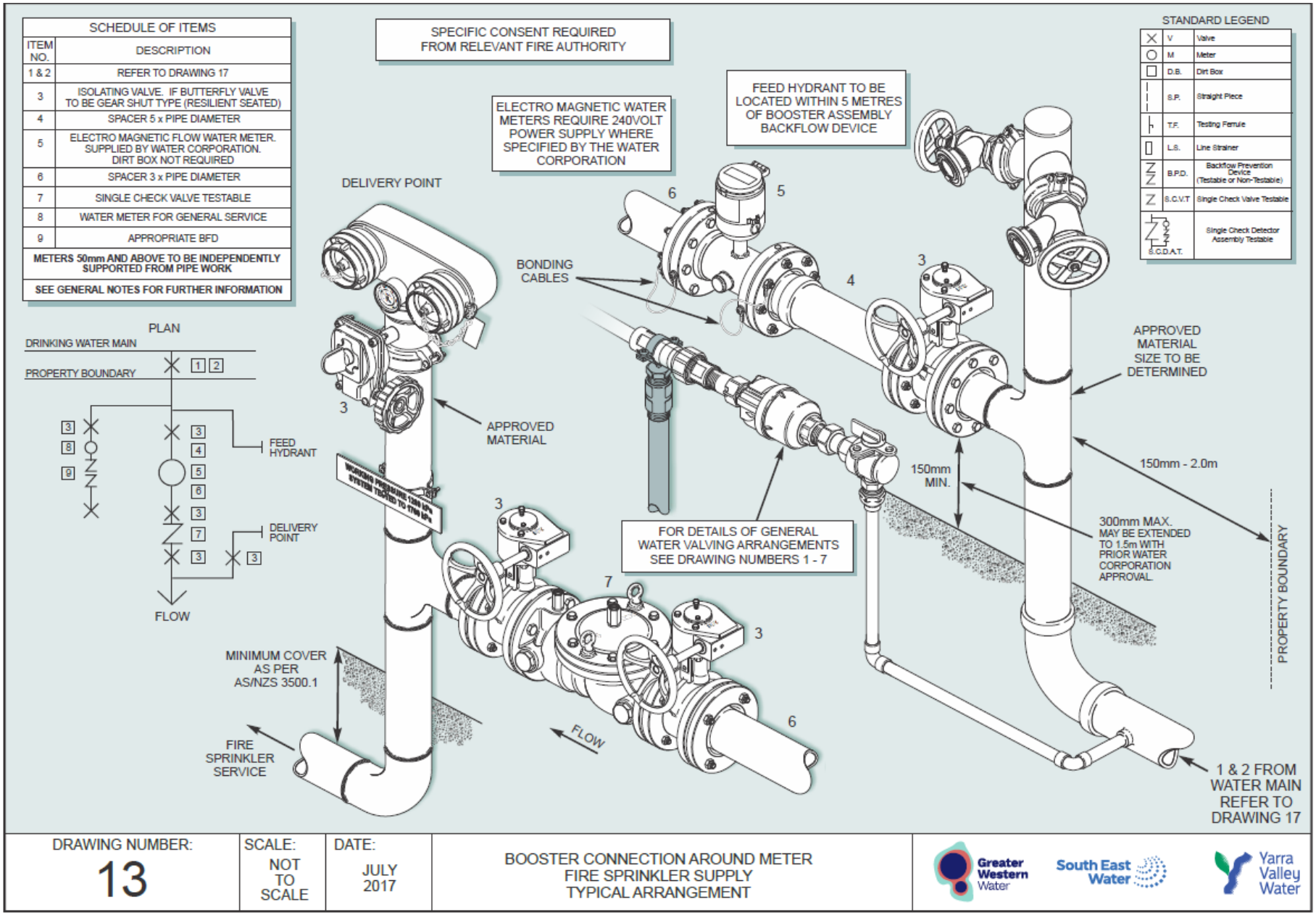
**SCHEDULE OF ITEMS**

| ITEM NO. | DESCRIPTION |
|---|---|
| 1A & 2A | REFER TO DRAWING 17 |
| 3 | ISOLATING VALVE. IF BUTTERFLY VALVE TO BE GEAR SHUT TYPE (RESILIENT SEATED) |
| 4 | SPACER 5 x PIPE DIAMETER |
| 5 | ELECTRO MAGNETIC WATER METER. SUPPLIED BY WATER CORPORATION. DIRT BOX NOT REQUIRED |
| 6 | SPACER 3 x PIPE DIAMETER |
| 7 | SINGLE CHECK VALVE TESTABLE |
| 8 | WATER METER FOR GENERAL SERVICE |
| 9 | APPROPRIATE BFD |

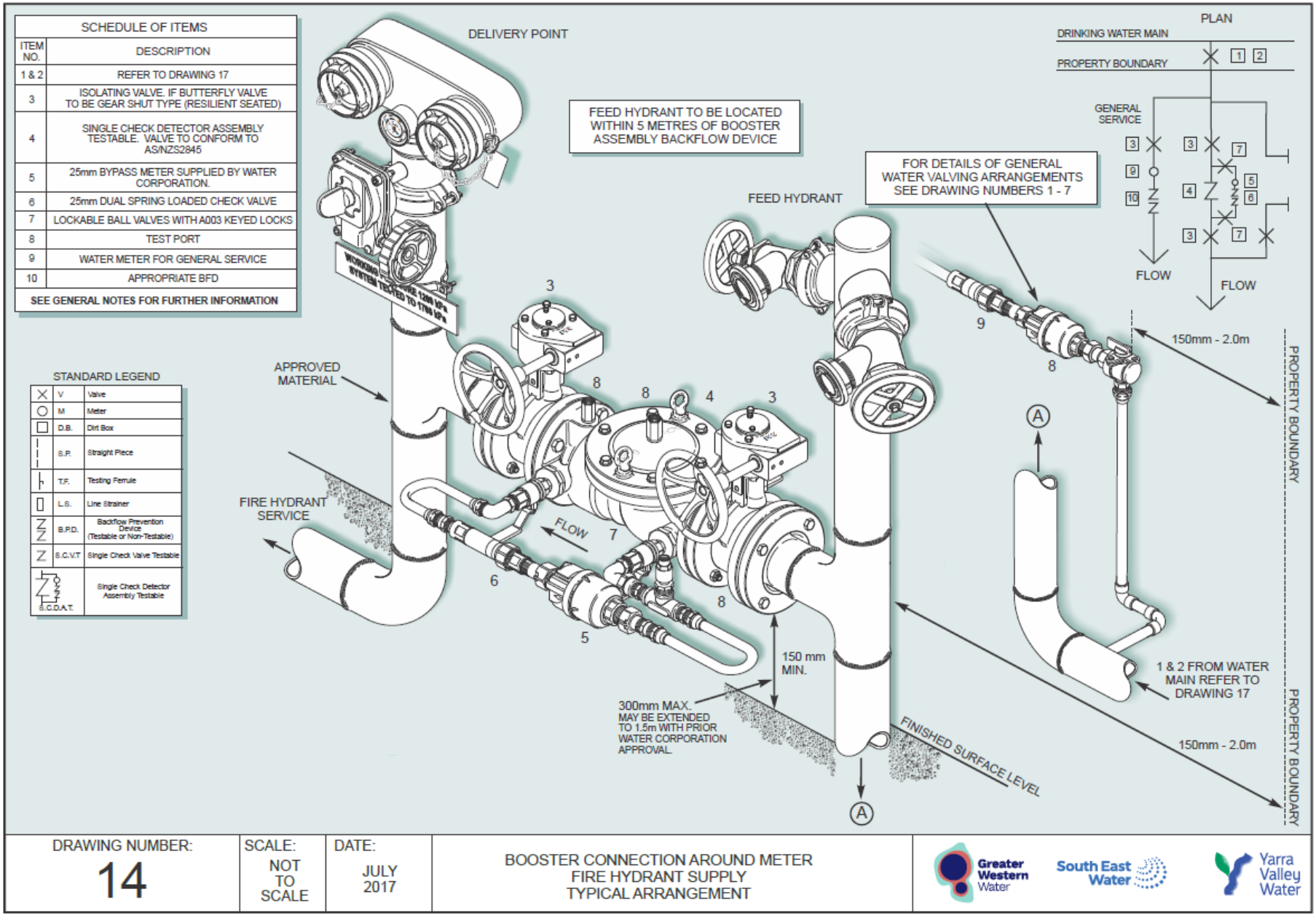
**SEE GENERAL NOTES FOR FURTHER INFORMATION**

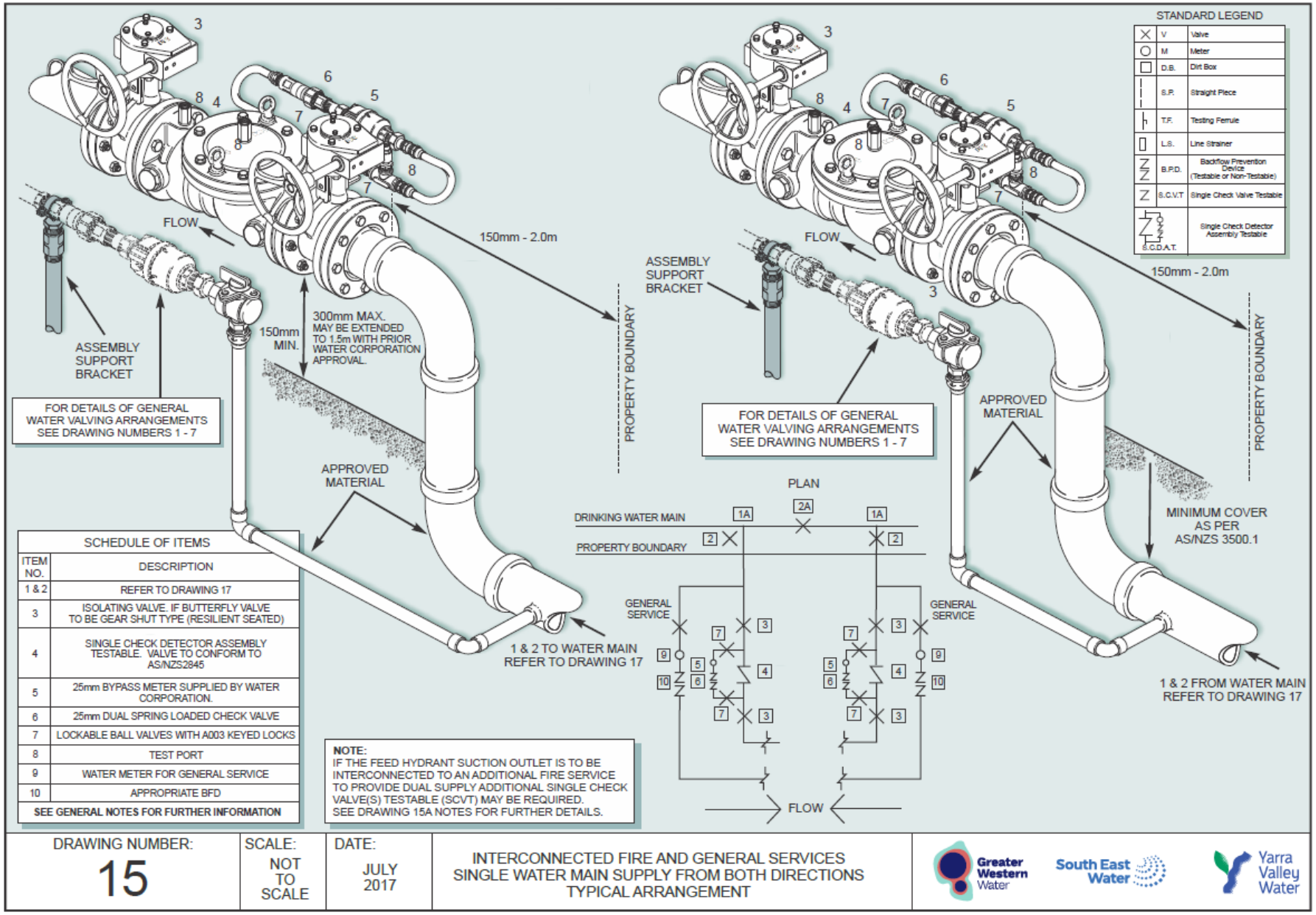
| DRAWING NUMBER: | SCALE: | DATE: | |
|---|---|---|---|
| 12B | NOT TO SCALE | DECEMBER 2021 | INTERCONNECTED FIRE SPRINKLER/HYDRANT AND GENERAL SERVICES SAME WATER MAIN CONNECTION TYPICAL ARRANGEMENT |

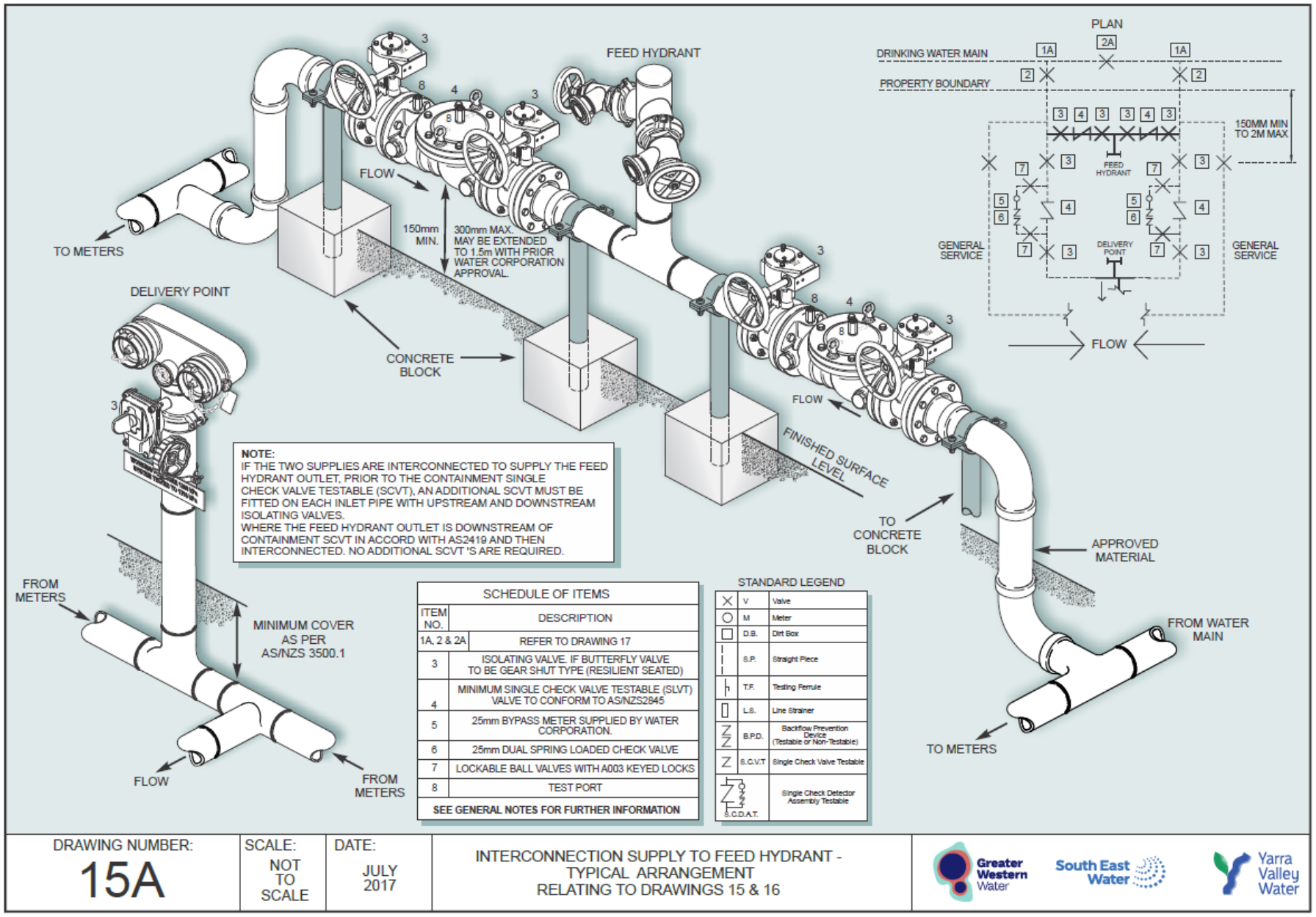
Greater Western Water | South East Water | Yarra Valley Water

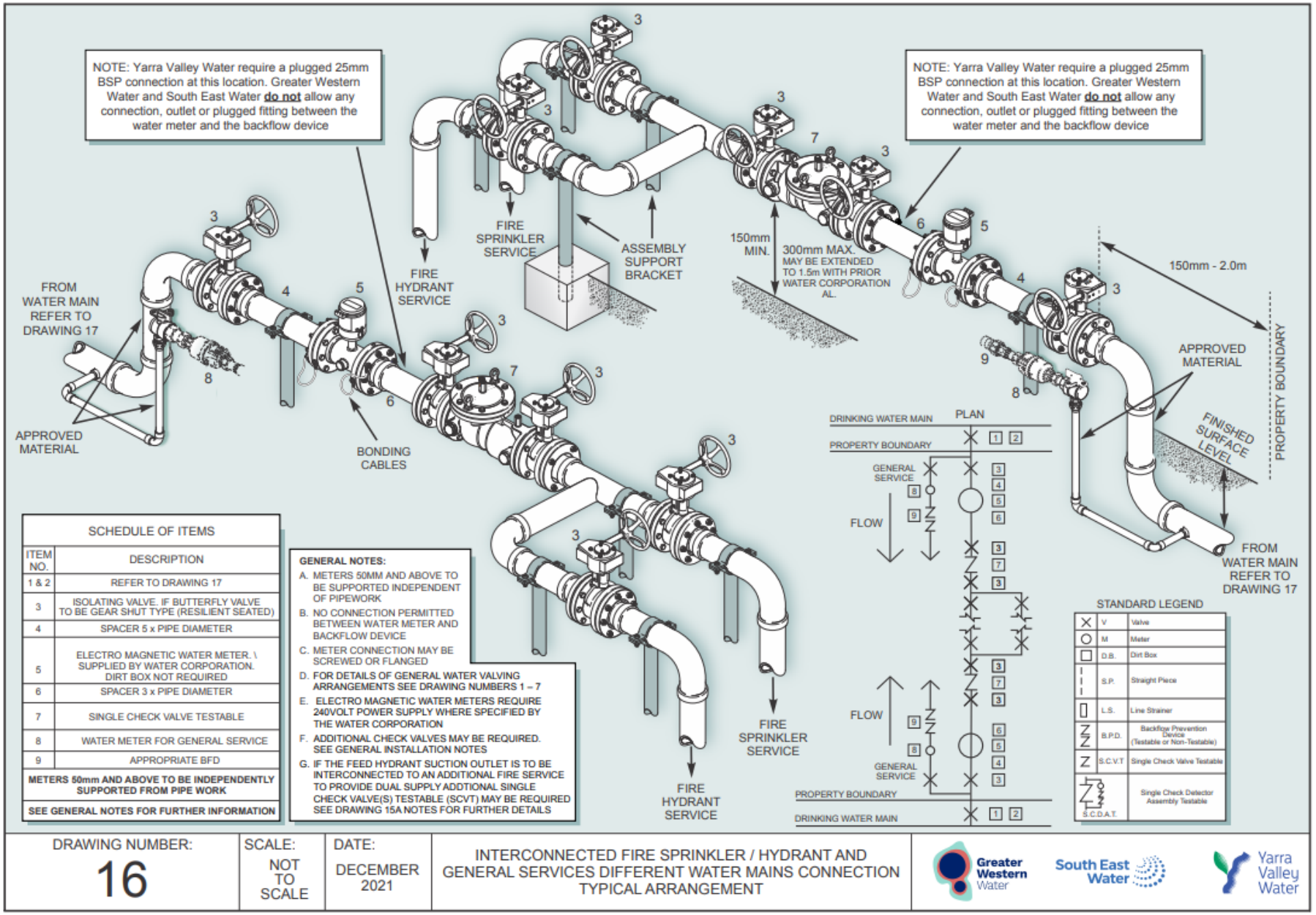



| DRAWING NUMBER: | SCALE: | DATE: | |
|---|---|---|---|
| 13 | NOT TO SCALE | JULY 2017 | BOOSTER CONNECTION AROUND METER FIRE SPRINKLER SUPPLY TYPICAL ARRANGEMENT |


SCHEDULE OF ITEMS
ITEM NO. | DESCRIPTION
1 & 2 | REFER TO DRAWING 17
3 | ISOLATING VALVE. IF BUTTERFLY VALVE TO BE GEAR SHUT TYPE (RESILIENT SEATED)
4 | SINGLE CHECK DETECTOR ASSEMBLY TESTABLE. VALVE TO CONFORM TO AS/NZS2845
5 | 25mm BYPASS METER SUPPLIED BY WATER CORPORATION.
6 | 25mm DUAL SPRING LOADED CHECK VALVE
7 | LOCKABLE BALL VALVES WITH A003 KEYED LOCKS
8 | TEST PORT
9 | WATER METER FOR GENERAL SERVICE
10 | APPROPRIATE BFD
SEE GENERAL NOTES FOR FURTHER INFORMATION
STANDARD LEGEND
V Valve
M Meter
D.B. Dirt Box
S.P. Straight Piece
T.F. Testing Ferrule
L.S. Line Strainer
B.P.D. Backflow Prevention Device (Testable or Non-Testable)
S.C.V.T Single Check Valve Testable
S.C.D.A.T. Single Check Detector Assembly Testable
DELIVERY POINT
FEED HYDRANT TO BE LOCATED WITHIN 5 METRES OF BOOSTER ASSEMBLY BACKFLOW DEVICE
FOR DETAILS OF GENERAL WATER VALVING ARRANGEMENTS SEE DRAWING NUMBERS 1 - 7
FEED HYDRANT
APPROVED MATERIAL
FIRE HYDRANT SERVICE
FLOW
150 mm MIN.
300mm MAX. MAY BE EXTENDED TO 1.5m WITH PRIOR WATER CORPORATION APPROVAL.
FINISHED SURFACE LEVEL
1 & 2 FROM WATER MAIN REFER TO DRAWING 17
150mm - 2.0m
PROPERTY BOUNDARY
PLAN
DRINKING WATER MAIN
PROPERTY BOUNDARY
GENERAL SERVICE
FLOW
FLOW
DRAWING NUMBER: 14
SCALE: NOT TO SCALE
DATE: JULY 2017
BOOSTER CONNECTION AROUND METER
FIRE HYDRANT SUPPLY
TYPICAL ARRANGEMENT
Greater Western Water
South East Water
Yarra Valley Water


STANDARD LEGEND
V Valve
M Meter
D.B. Dirt Box
S.P. Straight Piece
T.F. Testing Ferrule
L.S. Line Strainer
B.P.D. Backflow Prevention Device (Testable or Non-Testable)
S.C.V.T Single Check Valve Testable
S.C.D.A.T. Single Check Detector Assembly Testable
FLOW
150mm - 2.0m
ASSEMBLY SUPPORT BRACKET
150mm MIN.
300mm MAX. MAY BE EXTENDED TO 1.5m WITH PRIOR WATER CORPORATION APPROVAL.
PROPERTY BOUNDARY
FOR DETAILS OF GENERAL WATER VALVING ARRANGEMENTS SEE DRAWING NUMBERS 1 - 7
APPROVED MATERIAL
1 & 2 TO WATER MAIN REFER TO DRAWING 17
MINIMUM COVER AS PER AS/NZS 3500.1
1 & 2 FROM WATER MAIN REFER TO DRAWING 17
PLAN
DRINKING WATER MAIN
PROPERTY BOUNDARY
GENERAL SERVICE
SCHEDULE OF ITEMS
ITEM NO. DESCRIPTION
1 & 2 REFER TO DRAWING 17
3 ISOLATING VALVE. IF BUTTERFLY VALVE TO BE GEAR SHUT TYPE (RESILIENT SEATED)
4 SINGLE CHECK DETECTOR ASSEMBLY TESTABLE. VALVE TO CONFORM TO AS/NZS2845
5 25mm BYPASS METER SUPPLIED BY WATER CORPORATION.
6 25mm DUAL SPRING LOADED CHECK VALVE
7 LOCKABLE BALL VALVES WITH A003 KEYED LOCKS
8 TEST PORT
9 WATER METER FOR GENERAL SERVICE
10 APPROPRIATE BFD
SEE GENERAL NOTES FOR FURTHER INFORMATION
NOTE:
IF THE FEED HYDRANT SUCTION OUTLET IS TO BE INTERCONNECTED TO AN ADDITIONAL FIRE SERVICE TO PROVIDE DUAL SUPPLY ADDITIONAL SINGLE CHECK VALVE(S) TESTABLE (SCVT) MAY BE REQUIRED.
SEE DRAWING 15A NOTES FOR FURTHER DETAILS.
DRAWING NUMBER: 15
SCALE: NOT TO SCALE
DATE: JULY 2017
INTERCONNECTED FIRE AND GENERAL SERVICES
SINGLE WATER MAIN SUPPLY FROM BOTH DIRECTIONS
TYPICAL ARRANGEMENT
Greater Western Water
South East Water
Yarra Valley Water


PLAN
DRINKING WATER MAIN
PROPERTY BOUNDARY
150MM MIN TO 2M MAX
FEED HYDRANT
GENERAL SERVICE
DELIVERY POINT
GENERAL SERVICE
FLOW
FEED HYDRANT
TO METERS
FLOW
150mm MIN.
300mm MAX. MAY BE EXTENDED TO 1.5m WITH PRIOR WATER CORPORATION APPROVAL.
DELIVERY POINT
CONCRETE BLOCK
FLOW
FINISHED SURFACE LEVEL
TO CONCRETE BLOCK
APPROVED MATERIAL
FROM METERS
MINIMUM COVER AS PER AS/NZS 3500.1
FROM WATER MAIN
TO METERS
FLOW
FROM METERS
NOTE:
IF THE TWO SUPPLIES ARE INTERCONNECTED TO SUPPLY THE FEED HYDRANT OUTLET, PRIOR TO THE CONTAINMENT SINGLE CHECK VALVE TESTABLE (SCVT), AN ADDITIONAL SCVT MUST BE FITTED ON EACH INLET PIPE WITH UPSTREAM AND DOWNSTREAM ISOLATING VALVES.
WHERE THE FEED HYDRANT OUTLET IS DOWNSTREAM OF CONTAINMENT SCVT IN ACCORD WITH AS2419 AND THEN INTERCONNECTED. NO ADDITIONAL SCVT 'S ARE REQUIRED.
SCHEDULE OF ITEMS
ITEM NO. | DESCRIPTION
1A, 2 & 2A | REFER TO DRAWING 17
3 | ISOLATING VALVE. IF BUTTERFLY VALVE TO BE GEAR SHUT TYPE (RESILIENT SEATED)
4 | MINIMUM SINGLE CHECK VALVE TESTABLE (SLVT) VALVE TO CONFORM TO AS/NZS2845
5 | 25mm BYPASS METER SUPPLIED BY WATER CORPORATION.
6 | 25mm DUAL SPRING LOADED CHECK VALVE
7 | LOCKABLE BALL VALVES WITH A003 KEYED LOCKS
8 | TEST PORT
SEE GENERAL NOTES FOR FURTHER INFORMATION
STANDARD LEGEND
V Valve
M Meter
D.B. Dirt Box
S.P. Straight Piece
T.F. Testing Ferrule
L.S. Line Strainer
B.P.D. Backflow Prevention Device (Testable or Non-Testable)
S.C.V.T Single Check Valve Testable
S.C.D.A.T. Single Check Detector Assembly Testable
DRAWING NUMBER: 15A
SCALE: NOT TO SCALE
DATE: JULY 2017
INTERCONNECTION SUPPLY TO FEED HYDRANT - TYPICAL ARRANGEMENT RELATING TO DRAWINGS 15 & 16
Greater Western Water
South East Water
Yarra Valley Water



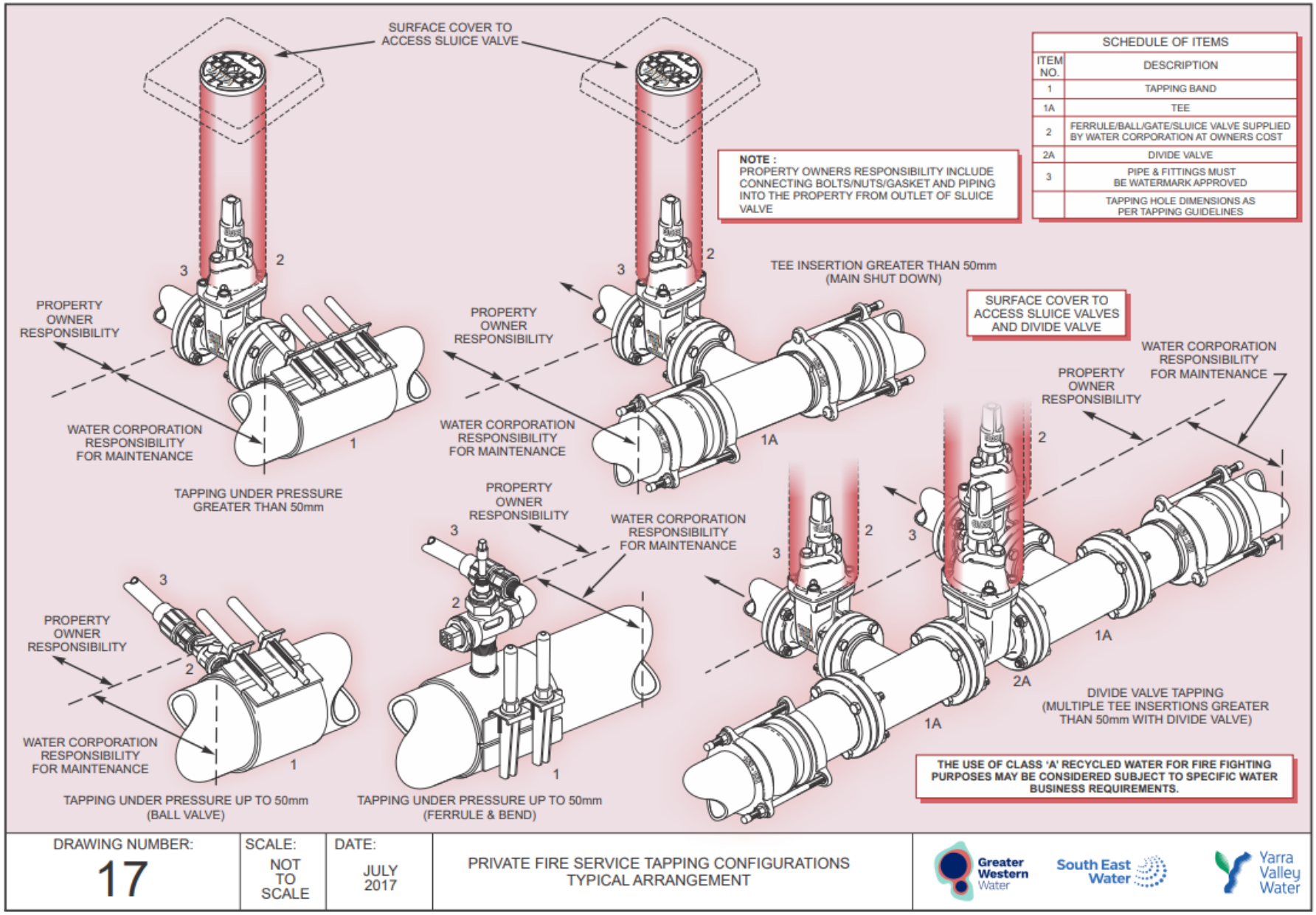

| SCHEDULE OF ITEMS | |
|---|---|
| ITEM NO. | DESCRIPTION |
| 1 & 2 | REFER TO DRAWING 17 |
| 3 | ISOLATING VALVE. IF BUTTERFLY VALVE TO BE GEAR SHUT TYPE (RESILIENT SEATED) |
| 4 | SPACER 5 x PIPE DIAMETER |
| 5 | ELECTRO MAGNETIC WATER METER. \ SUPPLIED BY WATER CORPORATION. DIRT BOX NOT REQUIRED |
| 6 | SPACER 3 x PIPE DIAMETER |
| 7 | SINGLE CHECK VALVE TESTABLE |
| 8 | WATER METER FOR GENERAL SERVICE |
| 9 | APPROPRIATE BFD |
| METERS 50mm AND ABOVE TO BE INDEPENDENTLY SUPPORTED FROM PIPE WORK | |
| SEE GENERAL NOTES FOR FURTHER INFORMATION | |

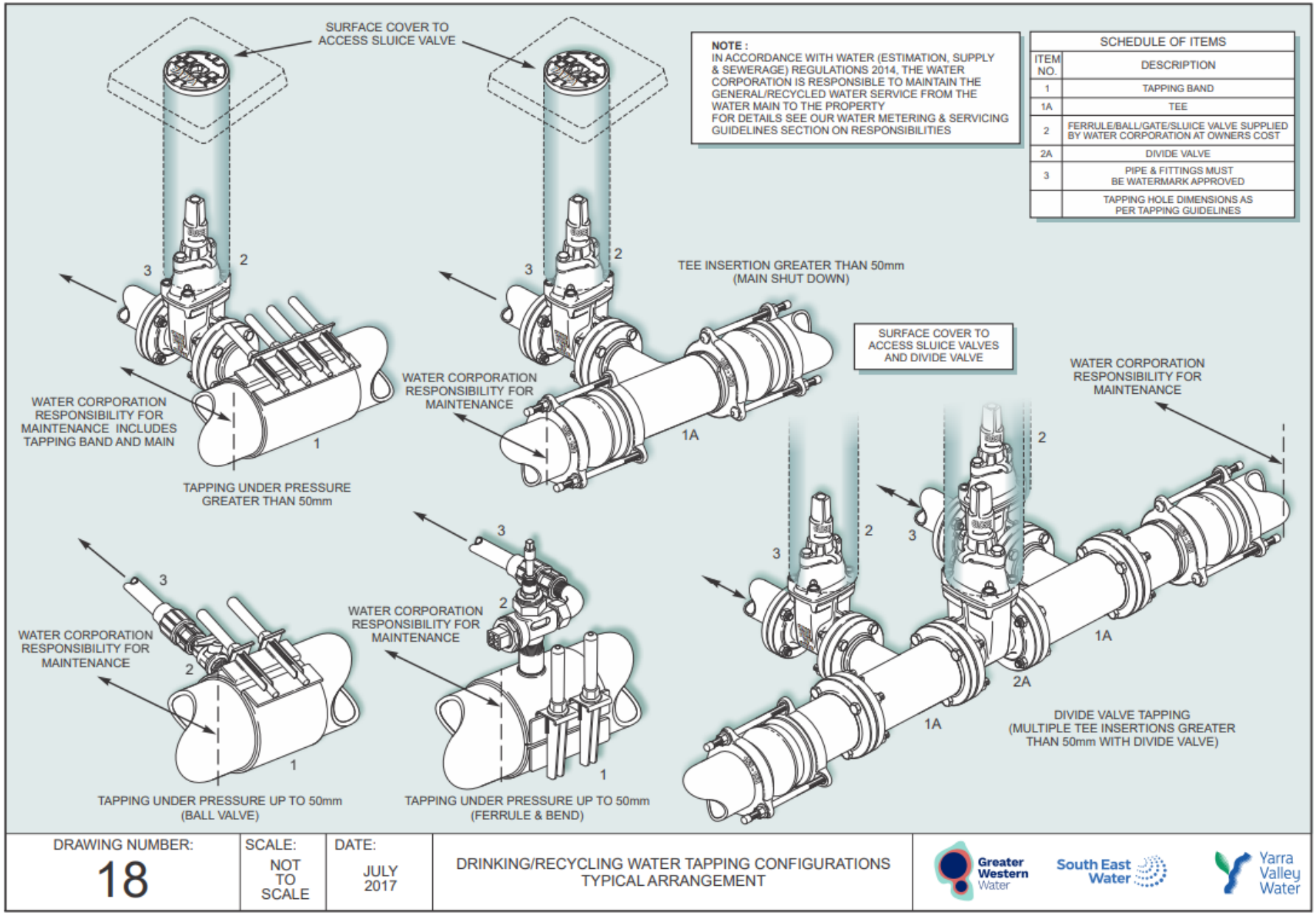
**GENERAL NOTES:**

A. METERS 50MM AND ABOVE TO BE SUPPORTED INDEPENDENT OF PIPEWORK
B. NO CONNECTION PERMITTED BETWEEN WATER METER AND BACKFLOW DEVICE
C. METER CONNECTION MAY BE SCREWED OR FLANGED
D. FOR DETAILS OF GENERAL WATER VALVING ARRANGEMENTS SEE DRAWING NUMBERS 1 – 7
E. ELECTRO MAGNETIC WATER METERS REQUIRE 240VOLT POWER SUPPLY WHERE SPECIFIED BY THE WATER CORPORATION
F. ADDITIONAL CHECK VALVES MAY BE REQUIRED. SEE GENERAL INSTALLATION NOTES
G. IF THE FEED HYDRANT SUCTION OUTLET IS TO BE INTERCONNECTED TO AN ADDITIONAL FIRE SERVICE TO PROVIDE DUAL SUPPLY ADDTIONAL SINGLE CHECK VALVE(S) TESTABLE (SCVT) MAY BE REQUIRED SEE DRAWING 15A NOTES FOR FURTHER DETAILS

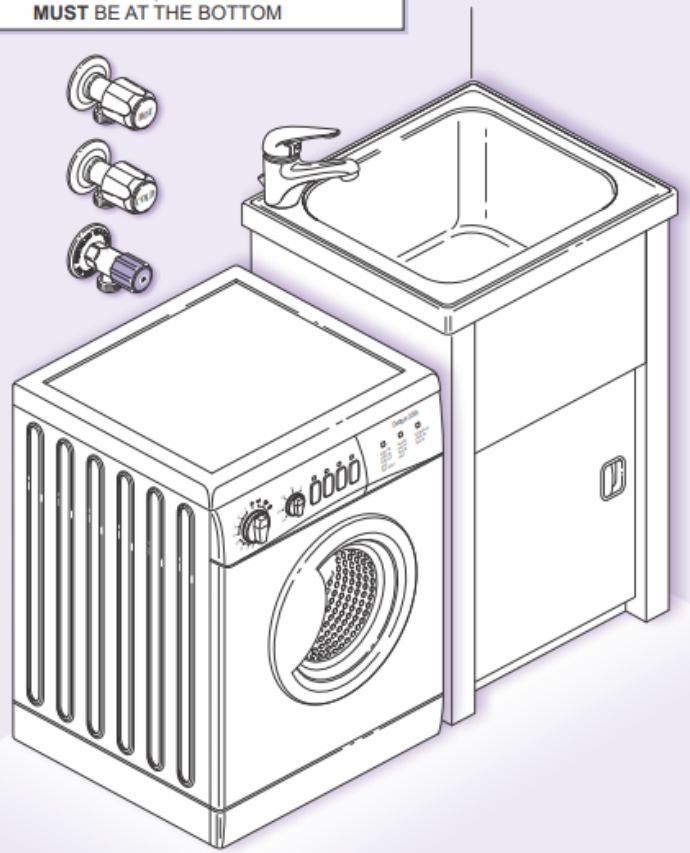
| DRAWING NUMBER: | SCALE: | DATE: | |
|---|---|---|---|
| 16 | NOT TO SCALE | DECEMBER 2021 | INTERCONNECTED FIRE SPRINKLER / HYDRANT AND GENERAL SERVICES DIFFERENT WATER MAINS CONNECTION TYPICAL ARRANGEMENT |

Greater Western Water | South East Water | Yarra Valley Water

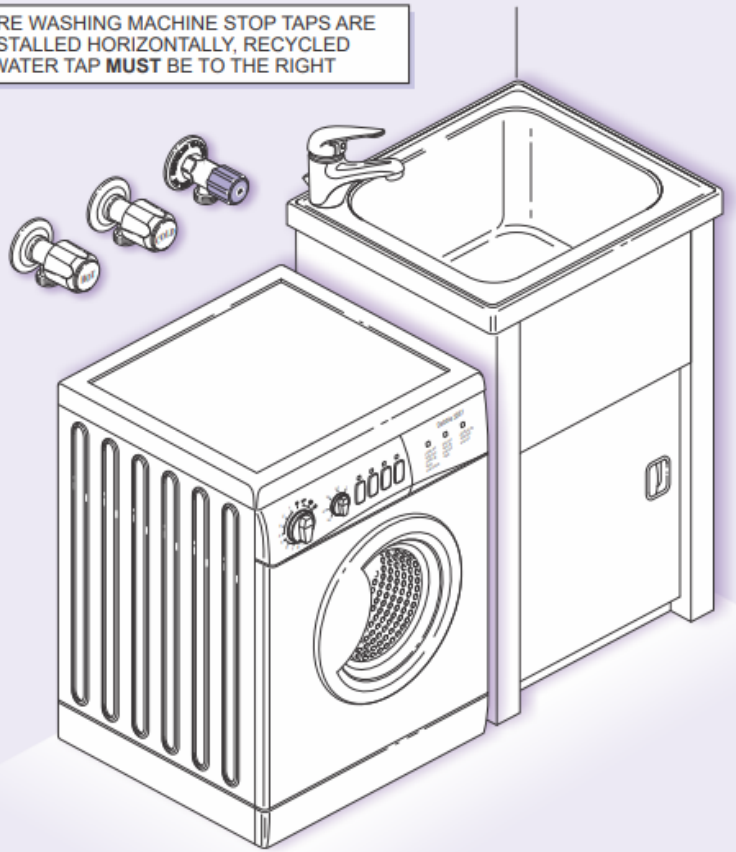

SURFACE COVER TO ACCESS SLUICE VALVE
SCHEDULE OF ITEMS
ITEM NO. | DESCRIPTION
1 | TAPPING BAND
1A | TEE
2 | FERRULE/BALL/GATE/SLUICE VALVE SUPPLIED BY WATER CORPORATION AT OWNERS COST
2A | DIVIDE VALVE
3 | PIPE & FITTINGS MUST BE WATERMARK APPROVED
TAPPING HOLE DIMENSIONS AS PER TAPPING GUIDELINES
NOTE : PROPERTY OWNERS RESPONSIBILITY INCLUDE CONNECTING BOLTS/NUTS/GASKET AND PIPING INTO THE PROPERTY FROM OUTLET OF SLUICE VALVE
PROPERTY OWNER RESPONSIBILITY
WATER CORPORATION RESPONSIBILITY FOR MAINTENANCE
TAPPING UNDER PRESSURE GREATER THAN 50mm
TEE INSERTION GREATER THAN 50mm (MAIN SHUT DOWN)
SURFACE COVER TO ACCESS SLUICE VALVES AND DIVIDE VALVE
DIVIDE VALVE TAPPING (MULTIPLE TEE INSERTIONS GREATER THAN 50mm WITH DIVIDE VALVE)
TAPPING UNDER PRESSURE UP TO 50mm (BALL VALVE)
TAPPING UNDER PRESSURE UP TO 50mm (FERRULE & BEND)
THE USE OF CLASS 'A' RECYCLED WATER FOR FIRE FIGHTING PURPOSES MAY BE CONSIDERED SUBJECT TO SPECIFIC WATER BUSINESS REQUIREMENTS.
DRAWING NUMBER: 17
SCALE: NOT TO SCALE
DATE: JULY 2017
PRIVATE FIRE SERVICE TAPPING CONFIGURATIONS TYPICAL ARRANGEMENT
Greater Western Water
South East Water
Yarra Valley Water


SURFACE COVER TO ACCESS SLUICE VALVE
NOTE :
IN ACCORDANCE WITH WATER (ESTIMATION, SUPPLY & SEWERAGE) REGULATIONS 2014, THE WATER CORPORATION IS RESPONSIBLE TO MAINTAIN THE GENERAL/RECYCLED WATER SERVICE FROM THE WATER MAIN TO THE PROPERTY
FOR DETAILS SEE OUR WATER METERING & SERVICING GUIDELINES SECTION ON RESPONSIBILITIES
SCHEDULE OF ITEMS
ITEM NO. | DESCRIPTION
1 | TAPPING BAND
1A | TEE
2 | FERRULE/BALL/GATE/SLUICE VALVE SUPPLIED BY WATER CORPORATION AT OWNERS COST
2A | DIVIDE VALVE
3 | PIPE & FITTINGS MUST BE WATERMARK APPROVED
TAPPING HOLE DIMENSIONS AS PER TAPPING GUIDELINES
WATER CORPORATION RESPONSIBILITY FOR MAINTENANCE INCLUDES TAPPING BAND AND MAIN
TAPPING UNDER PRESSURE GREATER THAN 50mm
TEE INSERTION GREATER THAN 50mm (MAIN SHUT DOWN)
WATER CORPORATION RESPONSIBILITY FOR MAINTENANCE
SURFACE COVER TO ACCESS SLUICE VALVES AND DIVIDE VALVE
WATER CORPORATION RESPONSIBILITY FOR MAINTENANCE
WATER CORPORATION RESPONSIBILITY FOR MAINTENANCE
TAPPING UNDER PRESSURE UP TO 50mm (BALL VALVE)
WATER CORPORATION RESPONSIBILITY FOR MAINTENANCE
TAPPING UNDER PRESSURE UP TO 50mm (FERRULE & BEND)
DIVIDE VALVE TAPPING (MULTIPLE TEE INSERTIONS GREATER THAN 50mm WITH DIVIDE VALVE)
DRAWING NUMBER: 18
SCALE: NOT TO SCALE
DATE: JULY 2017
DRINKING/RECYCLING WATER TAPPING CONFIGURATIONS TYPICAL ARRANGEMENT
Greater Western Water
South East Water
Yarra Valley Water

WHERE WASHING MACHINE STOP TAPS ARE INSTALLED VERTICALLY, RECYCLED WATER TAP **MUST** BE AT THE BOTTOM



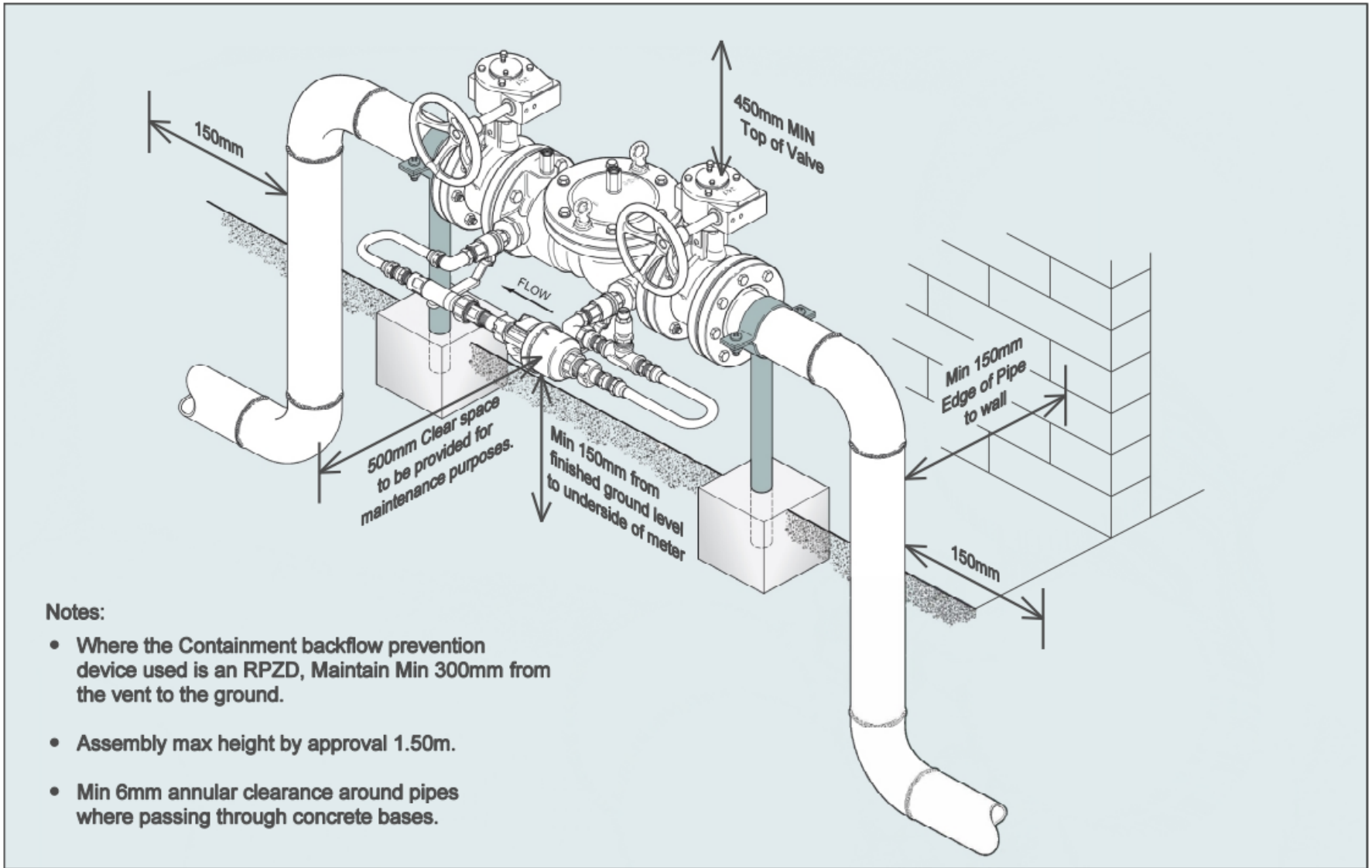
WHERE WASHING MACHINE STOP TAPS ARE INSTALLED HORIZONTALLY, RECYCLED WATER TAP **MUST** BE TO THE RIGHT



| RECYCLED WATER WASHING MACHINE STOP TAP SPECIFICATIONS |
|---|
| NON-STANDARD (5/8") FEMALE INLET THREADED STOP TAP WITH PURPLE HANDLE AND STANDARD 3/4" OUTLET |
| NON-STANDARD (5/8") MALE LUGGED ELBOW |
| COVER PLATE WITH LASER ETCHED PROHIBITION WARNING COMPLYING WITH AS1319 STATING "**RECYCLED WATER DO NOT DRINK**" |

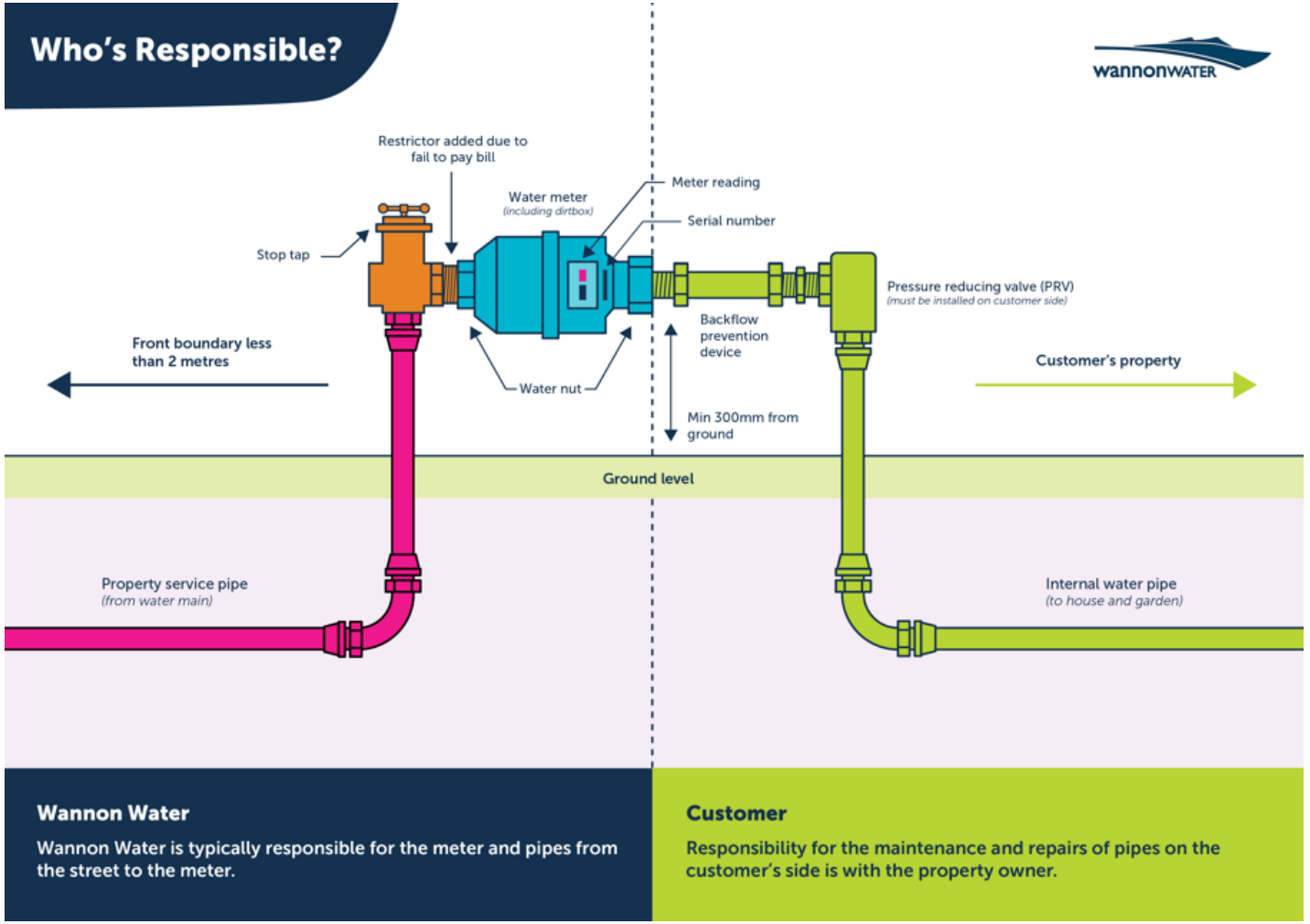
| DRAWING NUMBER: | SCALE: | DATE: | |
|---|---|---|---|
| 19 | NOT TO SCALE | JULY 2017 | REQUIREMENTS FOR CLASS 'A' RECYCLED WATER FOR USE WITH WASHING MACHINES TYPICAL ARRANGEMENT |

Greater Western Water | South East Water | Yarra Valley Water

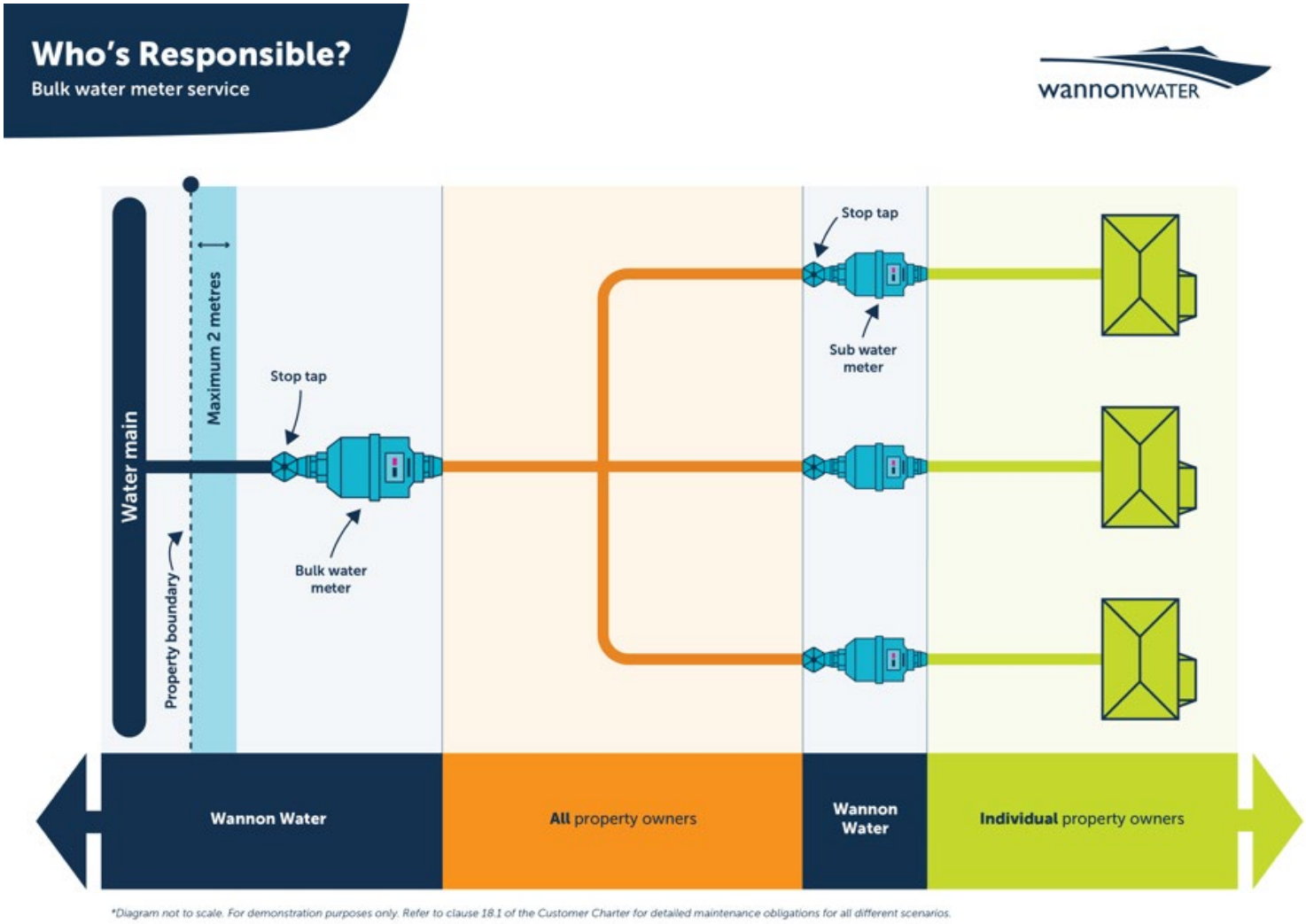

150mm
450mm MIN
Top of Valve
FLOW
Min 150mm
Edge of Pipe
to wall
500mm Clear space
to be provided for
maintenance purposes.
Min 150mm from
finished ground level
to underside of meter
150mm
Notes:
• Where the Containment backflow prevention device used is an RPZD, Maintain Min 300mm from the vent to the ground.
• Assembly max height by approval 1.50m.
• Min 6mm annular clearance around pipes where passing through concrete bases.
DRAWING NUMBER: 20
SCALE: NOT TO SCALE
DATE: AUGUST 2014
MINIMUM CLEARANCES FOR METER ASSEMBLIES IN CONFINED SPACES
Greater Western Water
South East Water
Yarra Valley Water

## 5.0 Responsibility diagrams

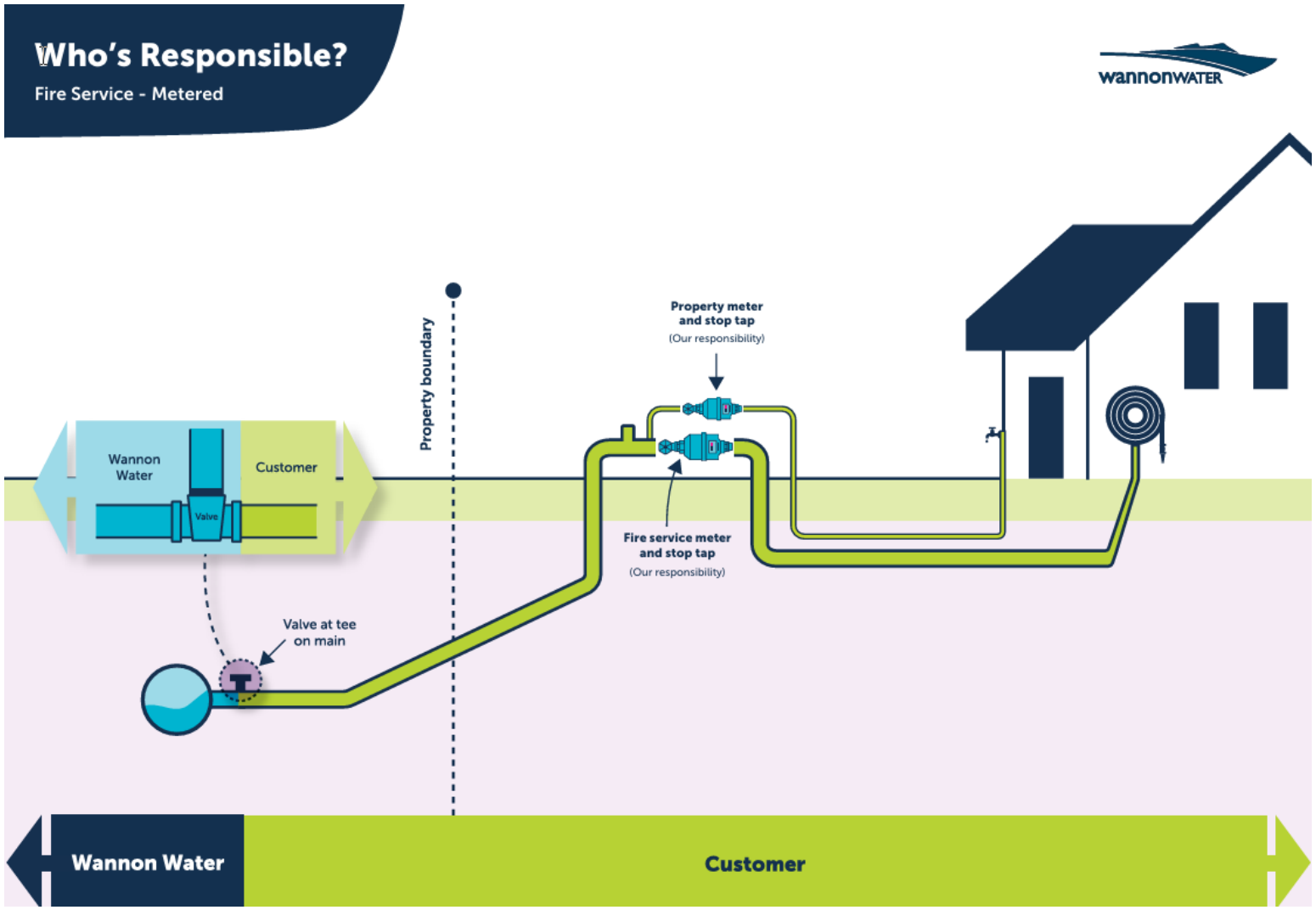
### 5.1 water service maintenance



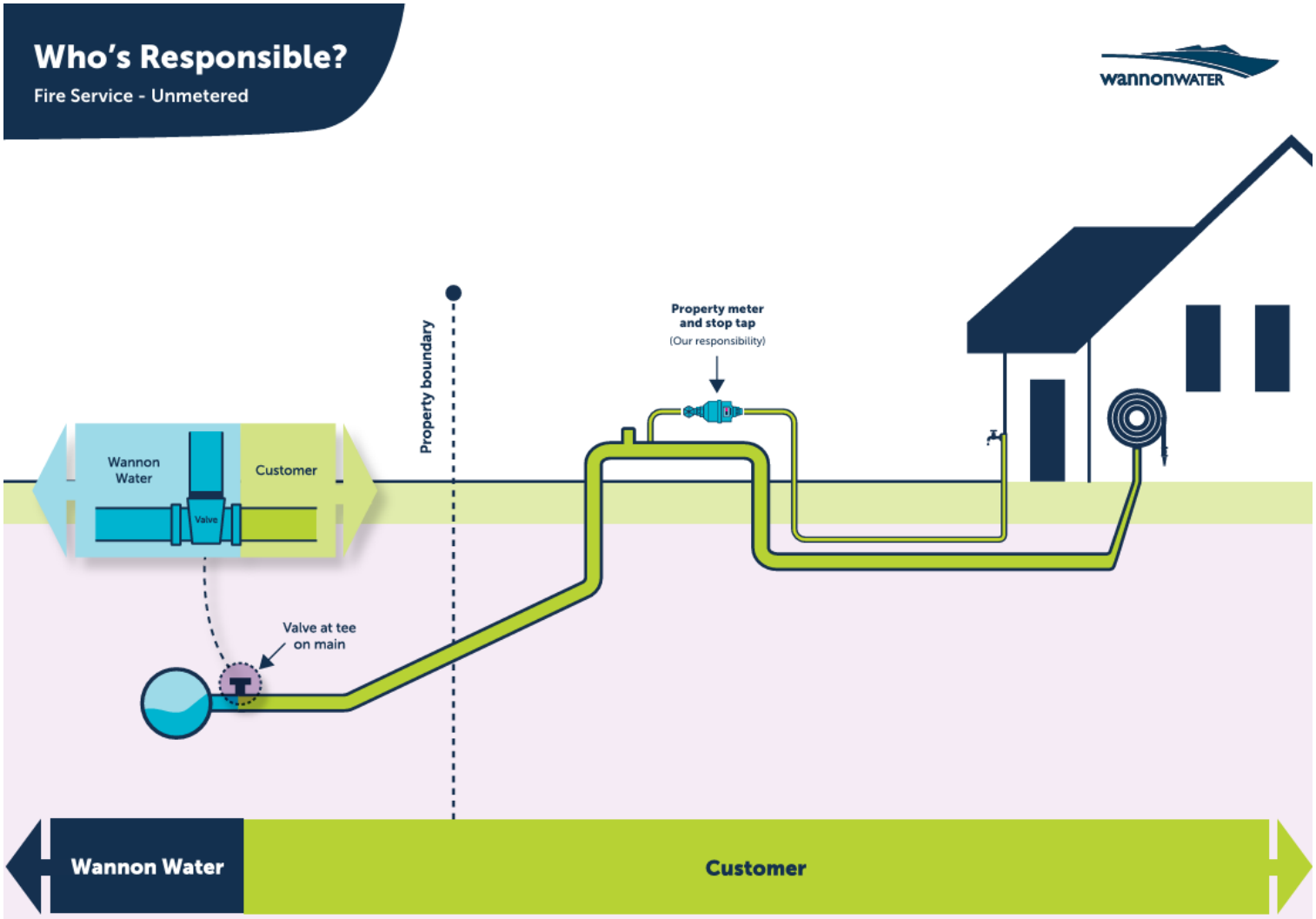
## 5.2 Bulk water meter service



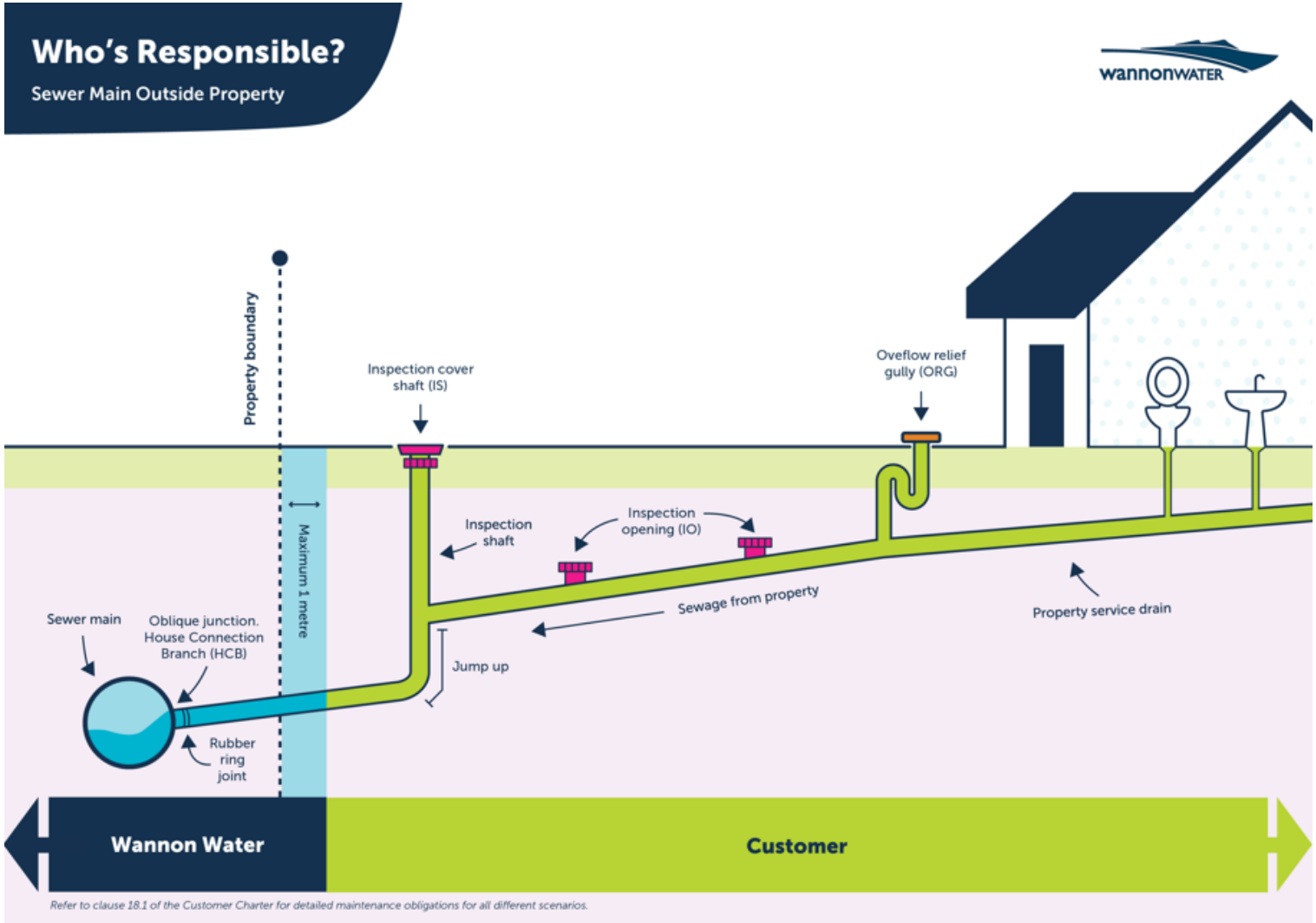
## 5.3 Fire service maintenance (metered)



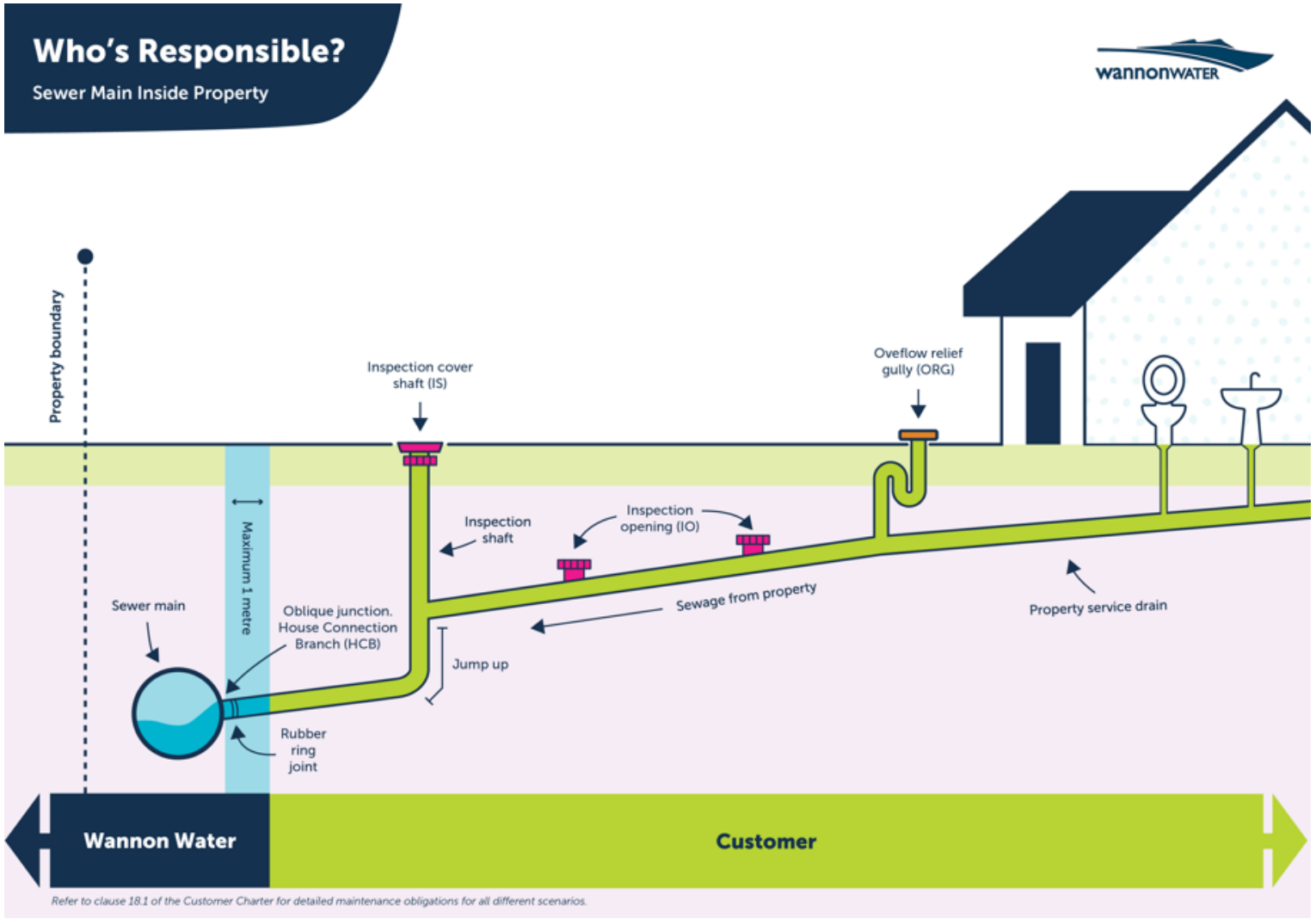
## 5.4 Fire service maintenance (unmetered)



## 5.5 Maintenance where sewer main is outside the boundary



## 5.6 Maintenance where sewer main is inside the boundary



## 5.7 Low pressure sewerage system