

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

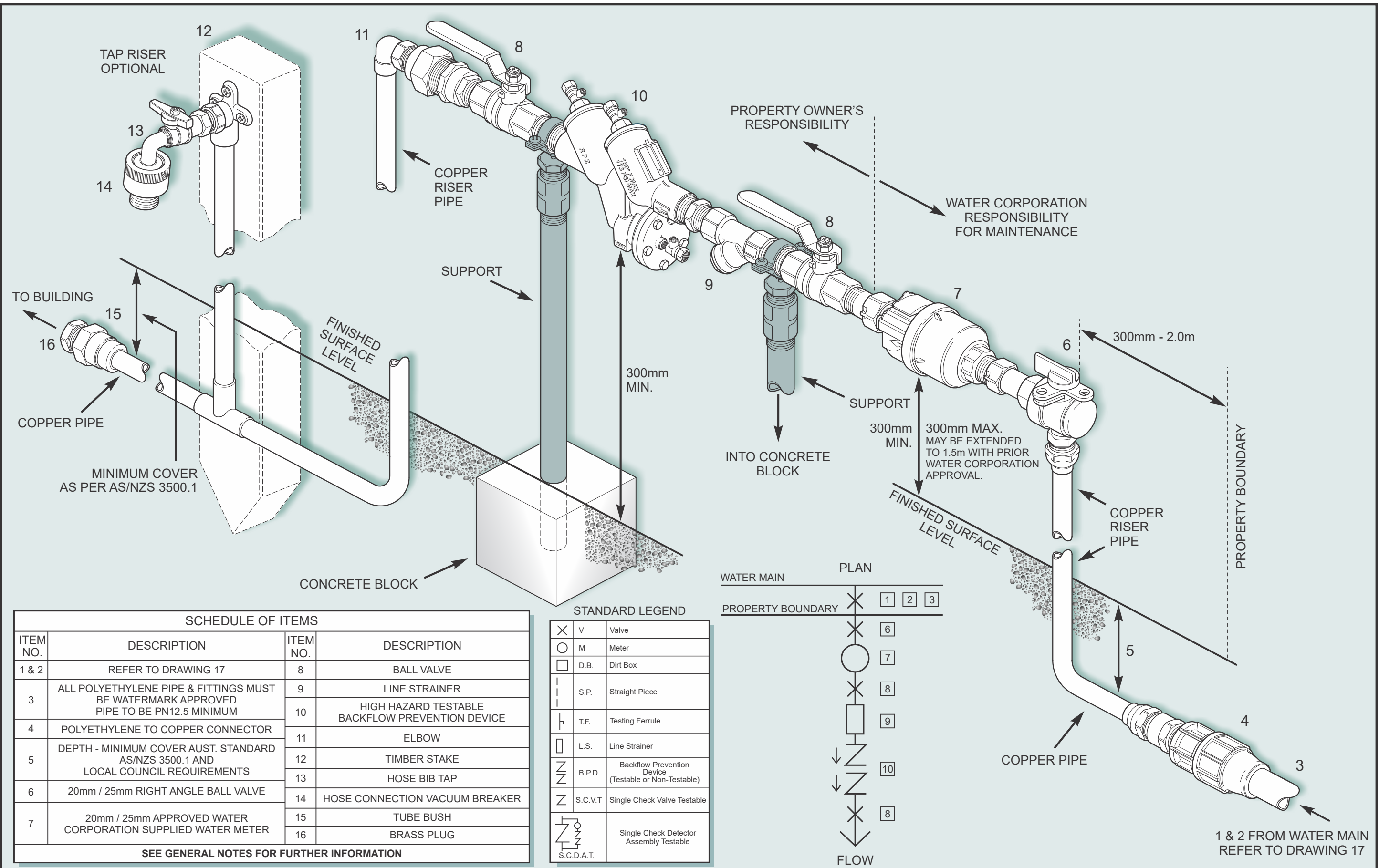
1. All fire services must be metered. The type of water meter employed will be assessed by the relevant Water Corporation.
2. Prior specific consent is required from the relevant fire authority to incorporate inline water meters for fire hydrant services. (In accordance with Building Regulations Clause 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)





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
4	POLYETHYLENE TO COPPER CONNECTOR	10	HIGH HAZARD TESTABLE BACKFLOW PREVENTION DEVICE
5	DEPTH - MINIMUM COVER AUST. STANDARD AS/NZS 3500.1 AND LOCAL COUNCIL REQUIREMENTS	11	ELBOW
6	20mm / 25mm RIGHT ANGLE BALL VALVE	12	TIMBER STAKE
7	20mm / 25mm APPROVED WATER CORPORATION SUPPLIED WATER METER	13	HOSE BIB TAP
		14	HOSE CONNECTION VACUUM BREAKER
		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