

Water Connection, Backflow Prevention and Pricing Policy

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Notes:	
Previously reviewed on 6 December 2012	

POLICY

PURPOSE

This Policy deals with water connections from Council's water reticulation network supplying drinking water onto the property of Council's water supply customer, and technical, administration and pricing matters associated with these connections.

BACKGROUND AND RELATED LEGISLATION

Local Government Act, 1993

Best-Practice Management of Water Supply and Sewerage Guidelines, August 2007

National Water Initiative

SCOPE

This Policy applies to all Council Water Supply and Sewerage Service customers.

POLICY

Water Connections

Water connections to properties are to be either a water service or a fire service. The customer is to be made aware that combined water connections, for fire service and water service, are not permissible and he/she must specifically require a water service or a fire service. In the absence of specific advice from the customer, new water connections will be deemed to be water services.

Fire services can only be used for firefighting and for Council to recognise them as fire services the property owner must submit an Annual Fire Certificate from a licensed plumber or other approved persons indicating the fire service is in fact a fire service in strict compliance with the national Plumbing Code of Australia.

The type of annual Fire Certificate, and the qualifications of the person issuing the certificate, are to be determined from time to time by the Director Infrastructure and Operations.

The annual Fire Certificate must be lodged with Council during the months of March, April or May, in order to obtain recognition from Council of the fire service for the new financial year commencing on 1 July. If the annual Fire Certificate is not lodged with Council by the end of May, the service will be deemed to be a water service and charged Water Access and Non-Residential Sewer Service Charge according to Council's Revenue Policy for the entire year.

If, despite the annual Fire Certificate, registration on the fire service indicates that it is being used for other than genuine fire-fighting, system checking or fire drills, then Council may, after notifying the customer, deem the service to be a water service and charge the appropriate Water Service Access Charge and Non-Residential Sewerage Service charges.

Fire Services may be tagged in the field by Council to indicate they are fire services. Attachment 1 shows such a tag.

A water service is a water connection that is not a fire service. If a connection supplies fire-fighting appliances and non-fire appliances it is deemed a water service.

A water connection should be physically located on the allotment of the customer. Council prefers only one water service, and fire service, if appropriate to a single allotment, but will consider additional connections if warranted by circumstances.

Size of Water Connection

The size of fire services and water services, expressed in millimetres diameter, are to be determined entirely by the customer. However, the size selected by the customer must be a commercially available size. The Director Infrastructure and Operations may, from time to time, declare that a certain size is not preferred, even if permitted by Australian Standards. In such cases, Council will install the next larger preferred size, in lieu of the non-preferred size sought by the customer.

Water Meters

All services, whether fire service or water service, will be metered. The size of the water meter will be the same as the water connection pipe.

Council will entirely determine the type, make and model of water meter assembly to be installed.

Council will charge customers for the initial installation of the service connection and water meter assembly. Council will also install and charge the customer for the installation of an appropriate backflow prevention device, if the customer elects to have this installed by Council.

Water meter assemblies shall be constructed above ground if possible. If possible, multiple water meters servicing flats and strata units should be grouped together.

Council may approve the placement of water meter below ground in pits in certain circumstances, for example, where there would be a risk in damage from vehicles located above ground.

Details of 20 mm water service connections to domestic properties should generally conform to drawing ST5882 (attached).

Only Council can install new fire or water services. The physical water or fire service services remain the property of Council up to the boundary of the premises and including the meter assembly. Council will replace any part of the fire or water service assemblies, such as the water meter, when they wear out, at no additional charge to customers.

Backflow Prevention

The intent of this Policy is to improve the safety of the Council's Water Supply Schemes by reducing the risk of contamination by backflow from direct connections to the water supply system.

Council will safeguard Council's water supply scheme by ensuring that property owners take responsibility and ensure that backflow conditions are prevented.

The customer is responsible for installation of the appropriate backflow prevention device on their property. This is defined in accordance with the level of backflow hazard of the activities being carried out on the property.

The customer is responsible for the ongoing maintenance of the backflow prevention devices and its upgrading if the activities being carried out on the property change and represent a higher hazard.

Council will operate a system of compliance to ensure that customers comply with this Policy.

In the absence of any site specification information, Council will assign a default level of hazard to the property based on Council's assessment of the primary activities being undertaken on site. Council may update the defaults from time to time.

If the customer has more site specification information and requests a review of the hazard, Council may review the hazard rating. Council may require that this certification be carried out from time to time by qualified personnel such as licensed plumbers who have completed additional training.

In the absence of such certification, Council may inspect the property to determine the applicable hazard rating for the next time period. Council may charge the customer an inspection charge for this.

The customer is responsible for replacement of non-testable backflow prevention devices from time to time, or for the annual testing of testable devices in accordance with AS 2845.3-1993 Water Supply - Backflow Prevention Part 3 Field Testing and Maintenance. Council may require property owners to submit certification from qualified personnel certifying the non-testable device has been replaced or that the testable device has been tested and is satisfactory for a subsequent time period.

If customers do not submit satisfactory certification indicating the non-testable device has been replaced or the testable unit has been tested satisfactorily, then Council may arrange for this work to be carried out by others. Council may charge the customers a service charge for this work. Council may set this service charge at a high level to ensure that there is a financial incentive to the customer to comply with the Policy.

Backflow Prevention Devices

Twenty (20) millimetre water meters incorporate a backflow prevention device that is suitable for low hazard pressures.

For connections greater than 20 mm, or 20 mm connections with a medium or high hazard rating, a separate backflow prevention device, downstream of the meter may be required.

The backflow prevention device is fitted downstream of the fire or water service and is considered part of the internal plumbing. Council may quote for this work when connecting the fire or water service. However, this work is contestable and the property owner may elect to have the backflow prevention device installed by his/her own licensed plumber.

Once the backflow prevention device is installed, whether by Council or the property owner, the property owner is responsible for annual testing, maintenance and eventual replacement of the backflow prevention device from time to time as required by Council.

The water connection assembly including the water meter will remain the property of Council. Council may replace the water connection pipeline and the water meter from time to time at no additional charge to the customer.

Combination Meters

The use of combination water meters is not preferred. A combination water meter shall be considered as a single meter of the larger diameter for administrative purposes, including calculation of the appropriate Access Charges. The Usage Charge shall be based on the sum of the registration of the two internal meters, within the combination meter unit.

A combination water meter will be recognised by Council as a water service and will attract a Water Access Charge unless annual Fire Certificates are submitted establishing it is entirely a fire service.

When Council replaces an existing combination water meter under its Meter Replacement Policy, it will replace it with a single water meter, if possible to do so.

Combination Water/Fire Services

These are water connections that in the past were deemed to supply both the water demand and the fire demand of the property. They are not permitted under this Policy. Connections previously considered combined water/fire services are now considered water services. This commenced in 2014/2015, with the appropriate Water Access Charge applying, in accordance with Council's Revenue Policy.

Fire Services

Owners of Fire Services must lodge annual fire certificates in accordance with the Water Connection Section of this Policy in order for the service to be recognised as a fire service. The owner of such a property serviced by a fire service shall arrange and carry out any inspections, testing, maintenance and certification of the fire service in accordance with a serviceability scheme authorised by the Director Infrastructure and Operations from time to time, as detailed in the Water Connection Section of this Policy.

If the property owner fails to carry out any work required by the serviceability scheme, then Council may arrange this work at the owner's cost. Refer to Water Connections for annual Certification requirements.

Meter Replacement Policy

In order to ensure the ongoing accuracy of Council's water meter fleet, Council has adopted a Water Meter Replacement Policy. Under this Policy water meters are replaced after 12 years of service or after registering 7,500 kilolitres of water. The Director Infrastructure and Operations may change the length of service or the registration triggering replacement, from time to time.

Water Supply Charges

Council's charging regime for water consists of Water Access Charges and Water Usage Charges.

The Water Service Access Charge is an annual charge which is dependent on the size of the water meter. It is billed annually. Water Service Access Charges and Non-Residential Sewer Charges are levied in respect to water services but not fire services.

The owner of each individual assessment for rating purposes not currently serviced by Council's potable water reticulation network, but able to be serviced, as described in the Local Government Act 1993, shall be charged the Water Service Access Charge for a single 20 mm water service, as described in Council's Revenue Policy.

Water Usage Charges are calculated based in quarterly meter readings for each meter connected to the property. The Water Usage Charge is a flat rate volumetric charge for all water supplied to the property, in accordance with Council's Revenue Policy.

Reading of Water Meters

Water meters are read on a quarterly basis during the months of March, June, September and December each year. Council aims to ensure that each meter is read accurately on the first visit to each property in each meter reading cycle.

The water meter reading is entered into a mobile hand-held device. Any discrepancies or abnormal conditions such as tampering, damaged, stopped, dirty dials or missing meters are recorded at this time.

Charges for Water Usage

Council may charge its water customers for water registered on the water meter in accordance with the water usage charge contained in Council's Revenue Policy. In the absence of a meter, or if the meter has broken down, Council's Financial Accounting Services Branch may make a reasonable estimate of water consumed and charge this estimated quantity. In estimating the water usage, Council may take into consideration previous consumption patterns, and any other factors that Council considers relevant.

Council may set different usage charges for different classes of customers such as residential and non-residential or other classes as Council may determine from time to time.

The classification of customers will be made entirely by Council. Council will publish its definition on its website and will consider any request for revision of the customer's classification.

Council will charge water customers for water used for genuine fire-fighting or for fire system testing. However, customers may submit an application for full refund of the amount charged for genuine fire-fighting, whether the water was supplied by a water service or a fire service. No refund will be made for fire system testing or fire drills.

Council may set minimum requirements for such claims to be considered from time to time. If Council accepts the claim it will refund the full cost of water used for genuine fire-fighting.

Billing Arrangements

Council's Financial Accounting Services raises water charges based on the meter reading data obtained by hand held water meter reading units. The data is uploaded to Council's financial system and water billing accounts are calculated from the data.

Water accounts are sent to customers as part of the quarterly Rates Notice accounts. Rates Notices are sent in April, July, October and January each year.

Remission of Charges on Account of Undetected Leakage

Council may consider requests for remission of water usage and other linked charges on account of leakage within the customer's property that was not able to be detected. Requests for remission should comprehensively make the case for remission.

Remission of Charges on Account of Hardship

Council may consider requests for remission of water charges and other linked charges if the customer alleges that payment may cause hardship.

Requests for remission should comprehensively make the case for remission.

Water Charges For Serviced Properties Other than Strata or Community Title Schemes

The owner of a property serviced by a water service shall be charged the appropriate Water Service Access Charge and the Water Supply Usage Charge for registrations recorded on the water meter, both as defined in Council's Revenue Policy.

The owner of a property serviced by a certified fire service shall be charged the Water Supply Usage Charge for registrations recorded on the meter as defined in Council's Revenue Policy.

Water Charges for Serviced Strata and Community Title Schemes

Each rateable parcel of land created under a Strata or Community Title Plan shall be treated as a single residential rate assessment with a 20 millimetre (mm) water connection. Each Lot will be charged a Water Service Access Charge described in Council's Revenue Policy for a 20 millimetre (mm) diameter water service in respect of the water service to the property.

Each Lot owner shall be charged the Water Usage Charge described in Council's Revenue Policy for the registrations recorded on the Council water meter(s) based on the Schedule of Unit Entitlement detailed in the Strata Deed.

Where each Lot is separately metered by a Council authorised, installed and maintained meter, each Lot will be charged for consumption recorded on the Council water meter.

Each Lot should be treated as a residential assessment for sewerage charges.

Water Charges for Unserviced Land

The owner of each individual assessment for rating purposes not currently serviced by Council's potable water reticulation network, but able to be serviced, as described in the Local Government Act 1993, shall be charged the Water Service Access Charge for a single 20 mm water service, as described in Council's Revenue Policy.

Enforcement

Council may enforce compliance with the Policy by exercising any or all of the following:

- Impose a fee or charge under the *Local Government Act, 1993*
- Issue an order under the *Local Government Act, 1993*
- Carry out the work and charge the customer
- Disconnect the property from Council's potable water supply if the property owner does not comply with the provision of the Policy in respect to backflow prevention.

- Install a water restrictor on the water connection in the case on non-payment of water accounts. The restrictor will be removed upon payment of all accounts.
- Deny supply to a new or existing customer in cases where, in the opinion of the Director Infrastructure and Operations there is a risk of contamination of the water supply, the risk of harming the health of a person or risk of damage to property.

Disconnection of Water Service

If a water service is no longer required, Council will disconnect the water service at the main and the meter will be removed.

An application form to disconnect a water service is available from Council's Customer Service Centre or can be downloaded from Council's website. In accordance with Council's Revenue Policy, there is no charge to the customer for water service disconnections.

Reconnection of Water Service

Once disconnected, Council may reconnect a property to the water supply. The cost of reconnection shall be borne by the property owner.

Property Developments

All water used on a property during site development or construction must be metered. Penalties apply for unmetered water use.

Removal of Water Meters

Water Meters shall not be disconnected or removed from a property unless approval has been given by Council.

Water Theft and Meter Tampering

Water meter tampering and water theft is illegal. These activities also greatly increase the risk of contaminating the public water supply and pose serious health and safety hazards not just to those who modify the meter but also to the rest of the community.

It is illegal to connect to Council water services through an unauthorised connection or to divert or otherwise interfere with a water meter. Council may prosecute for water theft.

Customer Notification Cards - Management of Customer Reads

Dubbo Regional Council makes every effort to read each water meter however, in some circumstances, this may not be achievable.

If access to the water meter or property is restricted for some reason, a customer service notification card should be left at the property requesting the assistance of the property owner.

Council has a suite of customer notification cards which are used in conjunction with the meter reading process.

Customer Service Cards

Council has developed a number of customer service cards to be left at the property to inform the customer of work undertaken, etc. These codes are shown in Attachment 2.

The circumstances in which these cards are issued are outlined below:

Access to Water Meter

This card is left by Council's Water Meter Reader when he/she could not obtain access to the water meter.

Boil Water Notice

This card is left at all premises within the Boil Water Notice area once proclaimed. It is left even if the customer is at home.

Boil Water Notice Lifted

This card is left at all premises within the Boil Water Notice area once proclaimed. It is left even if the customer is at home.

Council Called Today

This card is left by Council staff or contractors when the customer was not home. The Council staff or contractor completes the card detailing their name, contact details and the purpose of the call.

Do Not Drink Water Notice

This card is left at all premises within the Do Not Drink Water Notice area once proclaimed. It is left even if the customer is at home.

Do Not Drink Water Notice – Now Lifted

This card is left at all premises within the Do Not Drink Water Notice – Now Lifted area once proclaimed. It is left even if the customer is at home.

Dubbo is a Water Wise Community

This card is left at the customers premises to encourage water conservation as part of a water conservation program.

Entry to Property

This card is left when Council staff or contractors had to access the property and the customer is not home. The staff member or contractor is to contact the customer before commencing work. If however, the customer is not home, the work is to proceed and this card is to be left to inform the customer.

Meter Security

This card is left at the customers premises whenever a tamper evident device is first installed, or replaced.

Meter Self-Read Card

The card is left when Council staff or contractor could not access the water meter. The customer is requested to write the water meter reading on the card and mail back to Council.

Water Meter

This card is left when Council staff or the water meter reader is of the view that shrubs around the water meter should be trimmed to improve access.

Water Meter Replacement

When a customer's water meter is being replaced, the staff member or contractor shall attempt to contact the customer. If the customer is not home, this card is to be left, and the water meter replacement carried out.

Water Shutdown

This card is to be left by Council staff when there is a programmed water shutdown. The staff member shall complete the card by stating the start and end of the shutdown and the day(s) of the shutdown.

Dealing with Dogs

Council has a procedure for dealing with dogs. A risk assessment is to be undertaken in accordance with Council's Risk Assessment and Dealing with Dogs procedure.

In accordance with this procedure, a non-toxic deterrent spray is carried by Council staff or contractor at all times. It may be used to distract the animal should it threaten to, or make an attack, on a Council representative.

Where the owner/controller of the property is available but is either unwilling or unable to control the dog, the matter is to be reported to the staff member's Supervisor and Council's Ranger Services are engaged to assist.

Power of Entry

Council staff and contract meter readers are legally entitled to enter all premises for the recording of consumption under Section 191 and 191A of the Local Government Act, 1993 and Section 118A of the Environmental Planning and Assessment Act, 1979.

Where the customer refuses access, the meter reader is not to pursue the matter verbally or otherwise. The meter reader is to report the refused access to the Council's Water Operations Engineer.

Procedures

Council may develop procedures to guide staff in the implementation of this Policy.

DEFINITIONS

Combined Water/Fire Service – These are water connections to properties that service both the fire demand and the water demand of the property. These were permitted under the previous Policy but are not permitted under the current Policy. Connections previously considered combined water/fire services are now considered water services and will be charged accordingly commencing in 2013/2014.

Combination Water Meters - A Combination Water Meter is where the flow is split within the body of the water meter and water is directed through two separate pipes, a larger diameter pipe often equal to the size of the water connection pipe itself and a smaller diameter pipe often called a "bypass" pipe. Each internal pipe is separately metered and the registrations of both meters have to be added together to obtain the correct registration. The combination water meter would measure high velocity flows with the bigger meter and low velocity flows with the bypass meter. These were used in the past due to technical limitations in meters available at the time. Modern meters have no such limitations.

Any remaining combinations meters will be replaced with a single meter in accordance with Councils meter replacement policy.

Fire Service - A Fire Service is a water service dedicated only to service fire hydrants, fire hose reels, fire service fitting, including water storages, installed and used solely for firefighting in and around a building or property, and testing. Under certain conditions part of a fire sprinkler system may be included. A fire service that can be used for other purposes is deemed to be a water service.

Water Meter - A water meter is an apparatus, or appliance, for measuring and recording the volume of water passing the meter location. The "dial" on a meter is called a register and so the volume of water recorded through a meter is also called the registration.

Recent improvements in technology have meant that a single meter can now record both high and low flows. Combination meters are not preferred and will be replaced with single meters as they fall due for replacement.

Water Service - A water service is that part of the cold potable water supply pipeline from the water main to and including the water meter and backflow prevention assembly.

Water Access Charge - An annual charge applicable to a water service, as set by Council in its annual Revenue Policy.

Water Usage Charge - A charge applicable to water used by a property, as set out by Council in its annual Revenue Policy.

RESPONSIBILITIES

The Water Supply and Sewerage Client Services Coordinator is the responsible officer.

APPENDICES

- 1 Water Connection, Backflow Prevention and Pricing Policy - Fire Service
- 2 Water Connection, Backflow Prevention and Pricing Policy – Hazard Rating Guide
- 3 Water Service –Standard Drawing ST5882



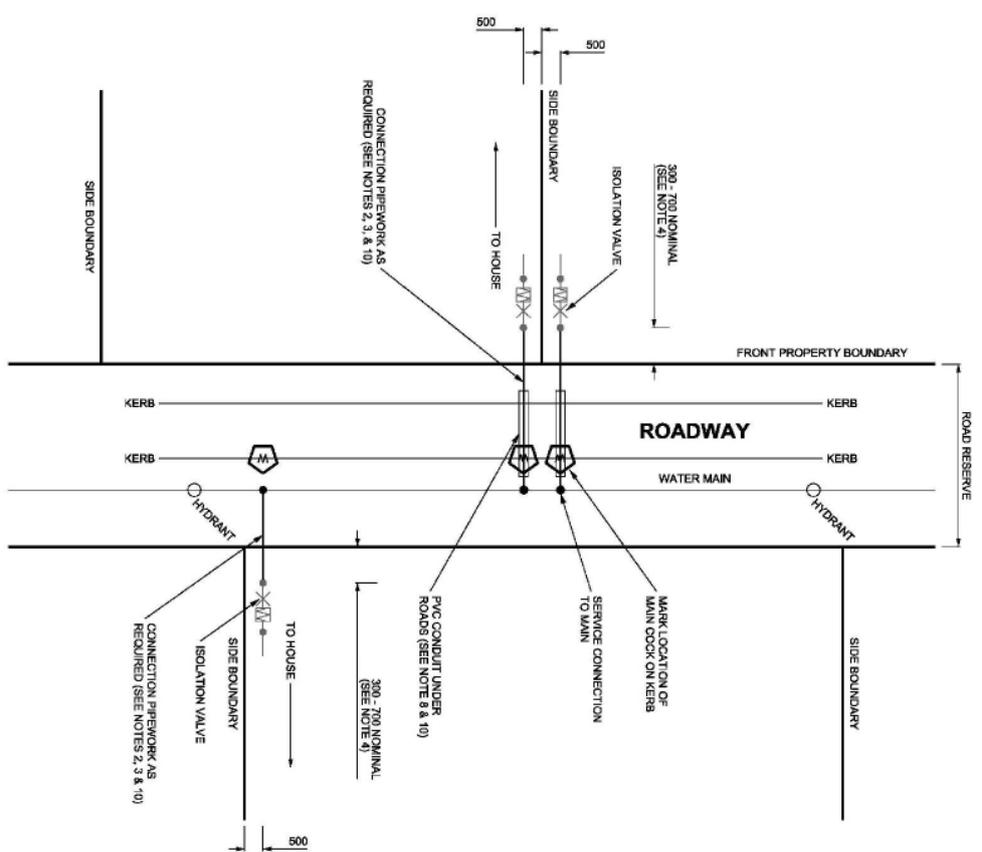
DUBBO REGIONAL COUNCIL
BACKFLOW HAZARD RATING BY BUSINESS TYPE
This Is a Guide Only

Business Type	Hazard Rating	Minimum Default Backflow Prevention Device
Abattoir	High	RPZD
Aged care facility	High	RPZD
Agricultural chemical sales	High	RPZD
Agricultural machinery depot	Medium	testable device
Agricultural machinery sales	Medium	testable device
Airport	High	RBT or RPZD
Amusement	Low	non-testable
Auto electrical	Low	non-testable
Auto parts recycling	High	RPZD
Auto spring repairs	Medium	testable device
Auto spring shop	Low	non-testable
Backpacker accommodation	Low	non-testable
Bakery	Medium	testable device
Barber	Low	non-testable
Bed & breakfast	Low	non-testable
Bread manufacturer	Medium	testable device
Brick manufacturing	High	RPZD
Brick yards (no manufacturing)	Low	non-testable
Bus depot	Medium	testable device
Butcher	Medium	testable device
Cabins	Low	non-testable
Café	Medium	testable device
Cake shop	Low	non-testable
Car dealer	Low	non-testable
Car detailing	High	RPZD
Car rental	Low	non-testable
Car repair	Medium	testable device
Car washing	High	RPZD
Car yard (vehicle sales)	Low	non-testable
Car yard (wrecking)	High	RPZD
Caravan park	Medium	testable device
Cattery	High	RBT or RPZD
Charcoal chicken shop	Medium	testable device
Chicken shop	Medium	testable device
Childcare/Preschool	Medium	testable device
Chiropractor	Low	non-testable
Church	Low	non-testable
Club (lawn bowls)	High	RPZD
Club (not registered)	Medium	testable device
Club (registered)	Medium	testable device
Coach depot	Medium	testable device
College, technical	High	RPZD
Commercial kitchen	Medium	testable device
Concrete batching plant	High	RBT or RPZD

Correctional Centre	High	RBT or RPZD
Crane hire	Low	RBT or RPZD
Dairy goods depot	Low	non-testable
Delicatessen	Low	non-testable
Dental surgery	Low	non-testable
Dental technician	Low	non-testable
Depot	Low	non-testable
Distribution depot	Low	non-testable
Drilling depot	Low	non-testable
Dry Cleaners	High	RPZD
Electroplaters	High	RPZD
Emergency services depot	Low	non-testable
Engine reconditioning	High	RPZD
Fast food shop	Medium	testable device
Fire Services - For exceptions or individual or zone requirements, refer to AS3500.1	Medium	DCV - testable device
Filter cleaners	Medium	testable device
Fish and chip shop	Medium	testable device
Fish shop	Medium	testable device
Florist	Low	non-testable
Food Processor	Medium	testable device
Funeral parlour	High	RBT or RPZD
Golf Driving Range	Low	non-testable
Government agency	Low	non-testable
Grain depot	Low	non-testable
Guest House	Low	non-testable
Hairdresser	Low	non-testable
Hall, community	Low	non-testable
Hospital	High	RPZD
Hot bread shop	Medium	testable device
Hotel	Medium	testable device
Hydraulics	High	RBT or RPZD
Ice cream shop	Low	non-testable
Ice Makers	Medium	testable device
Jewellery shop	Low	non-testable
Juice bar	Low	non-testable
Kennel	High	RPZD
KFC	Medium	testable device
Kitchen Commercial	Medium	testable device
Laboratory	High	RPZD
Landscape supplies	Medium	testable device
Laundromat	High	RPZD
Laundry	High	RPZD
Library	Low	non-testable
Machinery sales	Low	non-testable
Mall (shopping)	Medium	testable device
Manufacturing (dry)	High	RPZD
McDonalds	Medium	testable device
Metal coating industry	High	RPZD
Mixed Commercial/Residential	Low	Zone protection if applicable
Monumental mason	Low	non-testable
Morgue	High	RPZD
Motel	Medium	testable device

Moto mechanic	Medium	testable device
Motorcycles repairs	Medium	testable device
Motorcycles shop	Low	non-testable
Newsagent	Low	non-testable
Nightclub	Medium	testable device
Nursery	High	RPZD
Nursing home	High	RPZD
Office	Low	non-testable
Office block	Low	non-testable
Optometrist	Low	non-testable
Panel beaters	Medium	testable device
Park	High	RPZD
Pathologist	High	RPZD
Pet food manufacturing	High	RPZD
Pet shop	Medium	testable device
Petroleum depot	High	RPZD
Petroleum storage	High	RPZD
Photographic processing	Low	non-testable
Pizzeria	Low	non-testable
Printer	Low	non-testable
Public Toilet	Low	non-testable
Racecourse	Medium	testable device
Radiator repairs	Medium	testable device
Railway station	Medium	testable device
Research establishment	High	RPZD
Residential	Low	non-testable
Restaurant	Medium	testable device
Retail shop	Low	non-testable
Retirement village	Medium	testable device
Saleyards (livestock)	High	RPZD
School	High	RPZD
School (no sporting fields)	High	RPZD
Service station	High	RPZD
Sewerage facility	High	RPZD
Shearing supplies	Low	non-testable
Shopping centre	High	RPZD
Showground	High	RPZD
Sports stadium (indoor)	Medium	testable device
Sports stadium (outdoor)	High	RPZD
Spray painters	Medium	testable device
Stockfeed manufacturing/retail	High	RPZD
Surgery (doctors)	Low	non-testable
Swimming pools	Medium	testable device
Takeaway food shop	Medium	testable device
Tavern	Medium	testable device
Tourist park	Medium	testable device
Transmission, automotive	Medium	testable device
Truck wash	High	RPZD
Tyre retailer	Low	non-testable
Tyre wholesaler	Low	non-testable
University (boarding)	High	RPZD
University (non-boarding)	High	RPZD
Utility depot (power, water, gas etc.)	Medium	testable device
Vehicle washbay	High	RPZD

Veterinary clinic	High	RPZD
Warehouse	Low	non-testable
Waste disposal	High	RPZD
Winery	Medium	testable device
Workshop (mechanical)	Medium	testable device
X-ray clinic	High	RPZD

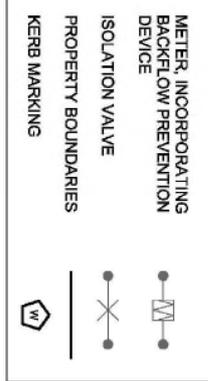


WATER SERVICE CONNECTION
(SEE SHEET 2 FOR DETAILS)

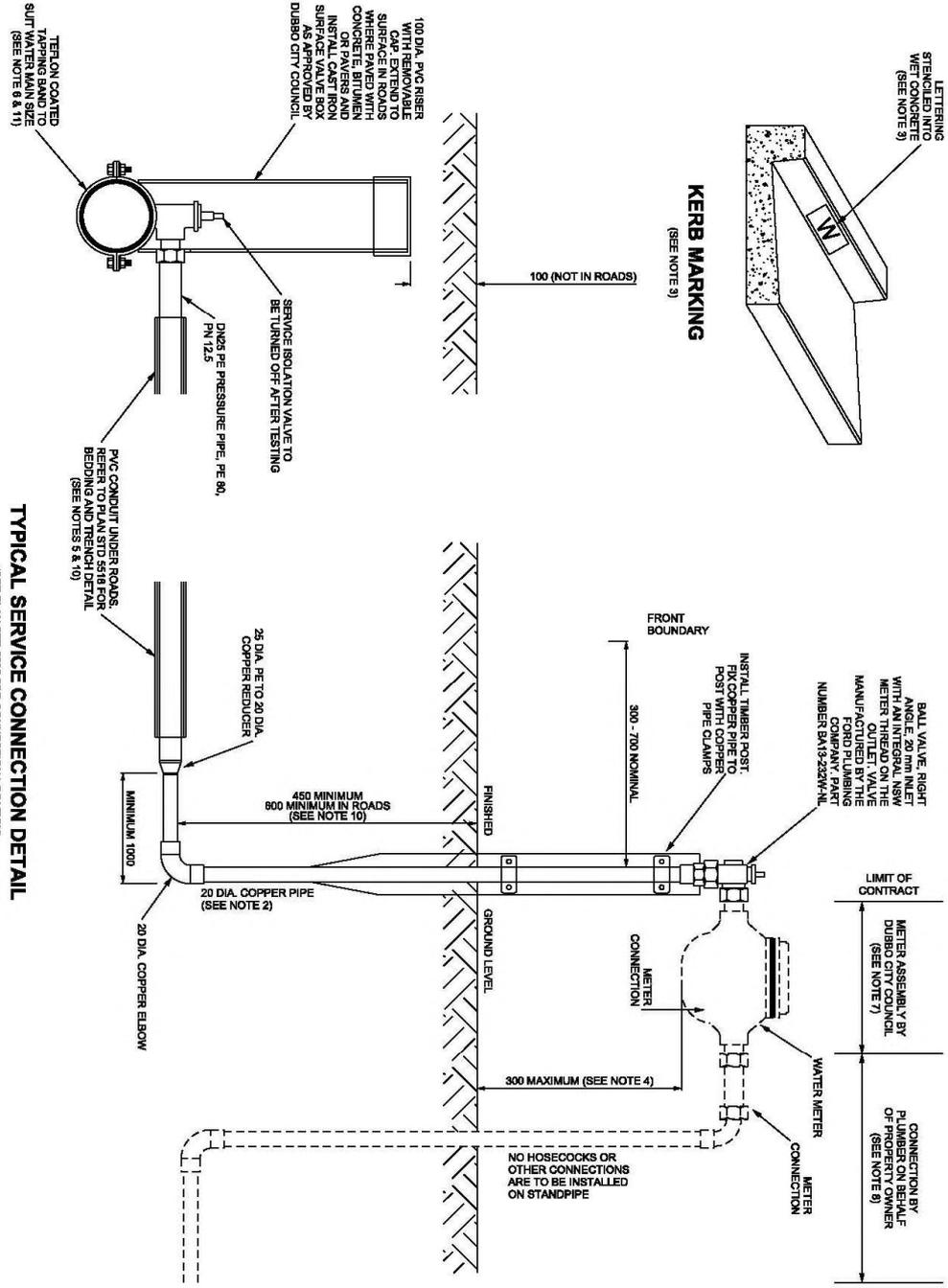
NOTES

1. All dimensions in millimeters.
2. Connection pipework from the main to meter assembly to be either:
 - (a) Copper pipe type A to AS 1432-2004. Copper alloy fittings to AS 1187.1-2005. All copper fittings to be silver soldered.
 - (b) Polyethylene pipe (minimum class 12.5) to AS 4130-2009 and fittings to AS 4129-2008.
3. Where possible, lay service connections at right angles (perpendicular) to water main. Where not possible, lay marking tape on top of connection pipework.
4. Locate meter and isolation valve riser relative to the side and front boundaries as shown.
5. Orientate meter and isolation valve at right angles (perpendicular) to front property boundary.
6. Pipework to be located in road reserve in accordance with these drawings. Any variation to this standard must be approved by Dubbo City Council prior to construction.
7. Meter to be installed at a maximum of 300mm above the finished ground surface level.
8. 40mm PVC conduit under roads. PVC conduit to be solvent welded.
9. For service connections of size greater than 20mm, contact Dubbo City Council.
10. See plan STD 5518 for standard trench and reinstatement detail.
11. Where applicable, permanently mark concrete kerbing square to the location of the Main Cock, by means of a "W" stenciled into wet concrete, fixing a "W" sign or other approved method.

LEGEND



APPROVED M. S. ... PROJECT ENGINEER	DATE: 20/01/2014	SUBJECT:	DATE:	DESIGN:	DATE:	CHECKED:	DATE:	DRAWING TITLE:	SCALE:	PERMANENT MARKING:	RE. I.N. NO.	DATE:	PRINT DATE:		DRAWING TITLE:	JOB:	SHEET NO.:
NOT TO SCALE ORIGINAL SIZE: 1:1 0 1 2 3 4 6m																	
DUBBO REGIONAL COUNCIL 20mm WATER SERVICE CONNECTION STANDARD DRAWING OF 2 SHEETS SHEET 1 STD 5882																	



TYPICAL SERVICE CONNECTION DETAIL
(SEE PLAN STD 5882 FOR CONNECTION LOCATION)

NOTES

1. All dimensions in millimeters.
2. Connection pipework from the main to meter assembly to be either:
 - (a) Copper pipe type A to AS 1432-2004, copper alloy fittings to AS 1167-1-2005. All copper fittings to be silver soldered.
 - (b) Polyethylene pipe (minimum class 12) and fittings to AS 2033-2008.
3. Where applicable, permanently mark concrete kerling square to the location of the Main Cock, by means of a "W" stenciled into wet concrete, fixing a "W" sign or other approved method.
4. Meter to be installed at a maximum of 300mm above the finished ground surface level.
5. 40mm PVC conduit under roads. PVC conduit to be solvent welded.
6. Pre-tapped connectors and ferrule main cocks may also be used as alternatives for connection to water main.
7. Dubbo City Council to install meter assembly on receipt of water service application.
8. Service connection to be done by NSW accredited and licensed plumbers only.
9. For service connections of size greater than 20mm, contact Dubbo City Council.
10. See plan STD 5518 for standard trench and reinstatement detail.
11. Position of service tapping band should not be located under driveways.
12. Only Ford Angle Ball Meter Valves, specifically, part number BA13-232W-NL are to be utilised when providing a water service connection point to a property.

APPROVED: DRAWN: DATE: 08/08/2014	FIELD REPRESENTATIVE: NAME: _____ DATE: _____ DESIGN FILE: _____ DATE: 28/08/2014 CHECKED: DATE: 08/08/2014	SCALES: NOT TO SCALE ORIGINAL SIZE: 1:1 0 1 2 3 4 5 cm	PREPARED BY: WA DATE: 04/11/2014 CHECKED BY: WA DATE: 04/11/2014 APPROVED BY: WA DATE: 04/11/2014	 DUBBO REGIONAL COUNCIL	DRAWING TITLE: 20mm WATER SERVICE CONNECTION DETAIL	SHEET NO. 2 OF 2 SHEETS PLAN NO. STD 5882
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