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<td>8-40022</td>
<td>-</td>
<td>New 20 dia. and 25 dia. Water Meter Installation Layout and Details</td>
<td>02/2005</td>
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</tbody>
</table>
HYDRANT TEE INSTALLATION

CONCRETE THRUST BLOCK

HYDRANT BEND INSTALLATION

MARGIN SETT

CONCRETE SUPPORT

SAND SURROUND

HYDRANT Riser if required.

FSL
To suit inspection box

100 min.
250 max.

800 min.

2 courses of bricks

HYDRANT TEE x #80 Offset

SLUICE VALVE

VALVE EXTENSION SPINDLE

UNDERGROUND

VALVE EXTENSION SPINDLE

NOTES
1. Concrete Margin Sets are not required in roadways. In other hard surfaced areas the concrete margin is to be surrounded with a flexible resilient material to prevent bonding of the surrounding surface to the Margin.

2. Hydrant Bends may be used on ends of mains in Cul-de-Sacs, or in locations where extension of the main is extremely unlikely. Hydrant Bends shall be used on 100mm diameter and 150mm diameter mains only. In all other circumstances, and mains other than 100 or 150mm diameters, a regular Hydrant Tee and end cap is to be used for the end of main Hydrant installation.

3. Hydrants are to be positioned opposite common property boundaries (not frontage deflections) and clear of likely driveway locations.

4. Hydrant Tees to have #80mm offset. Hydrant tees and risers to be DCL to AS/NZS 2280.

5. Hydrants are to comply with AS 3952.

6. Valves to comply with AS 2636.

7. Hydrants and Valves are to be coated with a thermal bonded polymeric coating to AS/NZS 4158.

8. All bolts, nuts and washers to be Stainless Steel to AS 1449. Bolts and Washers to be Grade 316. Nuts to be Grade 304.

9. Valve plugs shall be provided for valves of 375mm dia. and larger. Refer Standard Drawing No. B-40011 for details.

10. All galvanising to AS 4680.

11. All reinforcing bars to be Grade 250R to AS 1302.

12. All dimensions in millimetres.

HYDRANT AND VALVE INSTALLATIONS
HARDWOOD VALVE AND HYDRANT MARKER STAKES

EARTH LAMPED DOWN AROUND POST.

MARKER PLATES AND DELINEATORS

NOTES:
1. Marker plate to be fastened to fence, pole or stake. Use minimum of #2.6 x 25 gavanised clouts, 4 off per plate. Marker plate may only be attached to fences with the owners permission, and are to be positioned as per posts.
2. Marker plate letters and figures are painted black enamel on white enamel background for all Valves. Black lettering on a reflective yellow background shall be used for Fire Hydrants.
3. Main Markers are to be placed opposite each bend or fitting other than hydrants or valves where mains are laid in other than road reserves. Lettering is to be on face of marker nearest the main. Marker is also to be used for scour outlets. Main marker posts shall be primed, undercoated, and finished with an approved white acrylic paint, white block lettering. Where mains are laid through open land or land other than roadways, Marker Posts positions relative to the main are to be approved by Council’s Engineer.
4. Valve and Hydrant marker posts shall be primed, undercoated, and finished with an approved gloss acrylic paint. Hydrant marker posts shall be yellow. Valve marker posts shall be white. Where water valves are to be permanently closed, the top 50mm of the post shall be painted red.
5. The requirements for positioning of marker posts are shown on PHSC Standard Drawing. 8-40001 (Hydrant Marker Posts)
6. Valve and Hydrant Marker posts, where used, are to be placed behind and apposed the fitting box. When posts cannot be placed opposite the fitting, posts are to be placed adjacent to the fitting. Marker posts are to be positioned adjacent the property boundary, or the back of the pedestrian area of the verge in steep terrain, and so as not to obstruct usage of the verge. Marker plates are to be fixed to the face of the post facing the fitting. Arrows facing downward indicate the hydrant is in front of the post. Arrows facing upward indicate the hydrant is behind the post. Distance marker plates are to be placed when the posts are more than 1.0 metres from the fitting box.
7. All timber marker posts shall be CCA treated hardwood.
8. All dimensions in millimetres.
END ELEVATION

NOTES:
1. Boxes and Covers are to be cast iron, to AS. 1830, Grade T=180 or greater.
2. A 5mm nominal rounding is to be applied to all corners.
3. The covers to Hydrant and Valve boxes are to be prepared, primed, and painted with two coats of gloss paint as follows:—
   - HYDRANTS = YELLOW
   - VALVES (ALL OTHER) = WHITE
   - VALVES PERMANENTLY CLOSED = RED
   - VALVES CONTROLLING SUPPLY TO RESIDENTS REQUIRING WATER FOR MEDICAL PURPOSES = MID BLUE
4. Mass of components is approximately:—
   - Body = 37 kg
   - Cover = 14 kg
5. All dimensions are in Millimetres.
6. Alternate boxes approved by P.R.S.C. may be used in place of the box detailed on this drawing. Alternate boxes are only to be used in accordance with their Product Approval conditions.
NOTES

1. Ø80 and Ø50 Air Valves shall be "Glenfield and Kennedy Apex Fig. 1272" or similar approved, fitted with Ø80 butterfly valves for isolation purposes. The installation shall be such that the air valve can be removed while the butterfly remains in place.

2. Ø50 Air Valves with screw type fittings shall be supplied with cast iron flange suitable for connection to Ø80 Ranged Fitting. An Ø80 spacer flange is required in addition to the adapter flange to permit the butterfly valve to operate.

3. The full length of the DICL riser pipe including underground flanges shall be epoxy coated or wrapped with Fibre approve coating applied in accordance with the manufacturer's instructions.

4. Water mains Ø250 and smaller, and cover less than 1050mm - walls of pit to extend below pipe, provide 200mm space between wall and floor of pit.

5. Concrete Class N25 in accordance with AS 1379 and AS 3600.

6. Provide a fine non-slip surface with a wood float to the top surface of all walls.

7. Compacted sand ballast shall be brought up to the underside of the air valve pit.

8. Air valves shall be placed on the high point of all trunk mains.

9. All flanges shall be in accordance with AS 4087. If flanges are unaltered, compression flanges shall be Class 16, Cast Iron shall be Class 14 and Welded on flanges Class 14. Screw on flanges shall be Class 16.

10. All bolts, nuts and washers to be Stainless Steel to AS 1449. Bolts and Washers to be Grade 316. Nuts to be Grade 304.

11. Vent steelwork shall be etch primed and painted with two coats of Green FVA paint, or epoxy coated – colour Courtfield Green.
SCOUR DISCHARGE $m^3/Min.$

HEAD ABOVE SCOUR DISCHARGE IN METRES

$\phi_{200}$ SCOUR
$\phi_{150}$ SCOUR
$\phi_{100}$ SCOUR
$\phi_{80}$
$\phi_{50}$

Special Design Required

SIZE OF AIR VALVE

Vavles based on C & K APEX Air relief Valve
Cat. No. 1272
$\Delta P = 2\text{m}$
**SCOUR DISCHARGE INTO CREEK, GULLY, OR OPEN OUTLET**

**SCOUR DISCHARGE INTO CATCHPIT OR MANHOLE**

**SCOUR DISCHARGE INTO KERB & CHANNEL**

**TABLE OF DIAMETERS**

<table>
<thead>
<tr>
<th>WATER MAIN</th>
<th>SCOUR OUTLET</th>
</tr>
</thead>
<tbody>
<tr>
<td>ø 'A'</td>
<td>ø 'B'</td>
</tr>
<tr>
<td>100</td>
<td>80</td>
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<tr>
<td>150</td>
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<td>450</td>
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</tr>
<tr>
<td>500</td>
<td>150</td>
</tr>
<tr>
<td>625</td>
<td>150</td>
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</tbody>
</table>

**NOTES:**

1. Where ever possible, scour outlets are to be located so as to discharge into existing stormwater drainage structures (Manholes, Catchpits and Culverts).

2. The location of scour valves and the location and extent of scour discharge pipes as shown on the job drawings are nominal only. The actual location and extent of scour pipes shall be determined by Council's Engineer on site.

3. All ductile iron fittings for HD (ductile iron composite) pipes shall comply with AS/NZS 2280.

4. Pipe flanges shall comply with AS/NZS 1477.

5. Valve outlets to be of Resilient Seated type to AS 2638 with a thermal bonded polymeric coating to AS/NZS 4158. Valves may be of the FL-50C configuration in place of FL-FL valves.

6. All bolts, nuts and washers to be in Stainless Steel to AS 1449. Bolts and Washers to be Grade 316. Nuts to be Grade 304.

7. All pipes and fittings are to be of the rubber ring joint or flanged configuration.
TABLE OF MINIMUM DIMENSIONS

<table>
<thead>
<tr>
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<th>P.R.V. Pipe Diameter</th>
<th>A</th>
<th>B</th>
<th>T1</th>
<th>T2</th>
<th>H</th>
<th>Frame Gauging</th>
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<td>3484</td>
<td>2385</td>
<td>275</td>
<td>150</td>
<td>500</td>
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Notes:

1. The Pressure Reducing Valve shall be selected in accordance with Council’s Water Supply Specification 432.
2. Size of the Pressure Reducing Valve shall be selected by a specialist manufacturer given initial and ultimate flows, maximum and minimum upstream, and downstream set pressures. The manufacturer’s sizing shall be submitted to Council’s Engineer for approval.
3. Every Pressure Reducing Valve shall have a handbook supplied detailing the valve’s maintenance, adjustment and working principles. The handbook shall indicate the brand, model, and Serial Number of the Pressure Reducing Valve to which it applies. The Valve shall incorporate an OPEN/CLOSED indicator, and a needle valve to control closing speed.
4. All concrete to be N32. Provide a fine non-slip surface to floors and too of all walls with a wooden float.
5. All Ductile iron pipework shall be cement lined, and in accordance with AS/NZS 2280.
6. All isolating valves and the Pressure Reducing Valve shall be coated with a thermal bonded polymeric coating in accordance with AS/NZS 4516. Pressure reducing valves may also be painted with an approved high build 2-part epoxy paint suitable for use with potable water.
7. All Sluice Valves shall be of the Resilient Seat type and shall comply with AS 2538.
8. All flange bolts, nuts and washers are to be 316 Stainless Steel to AS 1449. Bolts and Washers to be Grade 316. Nuts to be Grade 304. Bolts and nuts shall be assembled with an anti-seizing paste.
9. Valve pit cover, reinforcement, wall and floor thickness shall be designed by an Engineer to suit each site.
10. For pressure class of Valves and Flanges refer to Job Drawings and Specifications.
11. Pit floor to be shaped to provide a minimum fall toward drain or sump from all directions at 1 in 20.
12. The inside of the pit shall have a cast iron, high glass black paint, “INLET” and “OUTLET”, at the respective ends of the pit and the RL (AHD) of the centreline of the outlet pipe. Refer Section B-B.
13. Drainage must be provided from the valve pit to a stormwater pipe, stormwater system, or open outfall in the form of a recharge outlet pipe. A flag valve is to be fitted to the outlet, or grille provided within the pit, to prevent entry of vermin into the pit.
14. Step treads to be in accordance with PRSC STD DWG B-900008.
15. Pressure Gauges are to be selected according to expected operating pressures. Increments on gauges are to be suitable to avoid pressure adjustment of PRV valves. Contact Council’s Engineers for guidance on expected pressures.
16. A label is to be affixed adjacent the downstream pressure gauge indicating the pressure setting of the downstream outlet pipeline in Metres Head. The label is to be of ASS White/Black sheet engraved with 5mm high lettering. The label is to be fixed to epoxy adhesive or flange clips with stainless steel screws.
17. Flow through ventilation is to be incorporated into the design of valve pits which are larger than those given in the Table of Dimensions on this drawing.
Approved Stainless Steel M16 Chemical Masonry Fasteners. Refer details To Suit 160

150x150x10 C-Section

80x40x6 Angle 80x40x6 Angle

M10 approved Stainless steel Chemical Masonry Fasteners Refer detail

6 thick Aluminium treadplate

50x50x6 Angle 80x40x6 Angle

50x50x6 Angle 80x40x6 Angle

16 hinge bolt

150x150x10 C-Section

6 thick Aluminium treadplate

M16 approved Stainless steel Chemical Masonry Fasteners positioned as shown.

EXTERNAL FRAME

To Suit

6 thick Aluminium treadplate

Recessed lockable latch
(99 shown brass padlock supplied by P.R.S.C.)

PLAN - FRAME WITH COVERS IN PLACE

50x50x6 Angle

80x40x6 C-Section

LIFTING SLOT DETAIL

50x50x6 Angle

LIFTING SLOT DETAIL

50x50x6 Angle

SECTIONAL ELEVATION - LONGITUDINAL COVER OVERLAP DETAILS

SUPPORT BRACKET (ALUMINIUM)

LATCH BOX FRAME SECTION

NOTES

1. All covers are subject to vehicle loading, Cast iron covers to AS 3996 Class D are to be used.
2. All components of access covers and frames shall be fabricated from Aluminium Alloy 6061.T6. All embedded surfaces shall be painted with 2 coats of alkali resistant bitumen paint.
3. The covers shall be designed as a platform in accordance with AS 1577, fabrication details shall be submitted to the Superintendent for approval prior to manufacture. Valve Pit covers shall be designed by a Registered Professional Engineer to suit each site.
4. Nylon on polyethylene separation inserts shall be used between stainless steel fasteners and aluminium sections. 3mm HDF gaskets shall be placed between all aluminium mounts and other surfaces.
5. A #8mm shank brass padlock will be supplied by Council.
6. All welds to be 3mm fillet welds unless shown otherwise.
1. All pipe fittings are to be brass, to AS 1565.
2. Tube fittings to be "Swagelok" or approved equivalent brass fittings.
3. All threads to be BSPT. Sizes have been quoted to the nearest millimetre.
4. All Ball Valves are to be fitted with handles.
5. All pipework is to be clamped to walls and floors etc. with copper saddle clamps.
6. Copper pipework to be Type 'B'.
7. All fasteners to be Stainless Steel.
8. Details of alternative fittings from those specified are to be submitted to Council's Manager Electrical/Mechanical Services for approval before purchase and installation.
NOTES

1. All works on existing Council mains is to be performed only under strict Council supervision.

2. All bolts, nuts and washers are to be Stainless Steel to AS 1449. Bolts and Washers to be Grade 316. Nuts to be Grade 304.

3. All DICL fittings shall comply with AS/NZS 2280.

4. All DICL pipework and fittings to be Polyethylene wrapped.
NOTES:

1. Where property frontages exceed 100 metres, property service conduits are to be provided to both side boundaries.
2. Pre-tapped service connectors to be used for #100 and #150 mains. Connection to be located opposite property boundaries.
3. Trimming and compaction of the Subgrade is to be completed and approved before excavating for Service Conduits is commenced. (Excavated material shall be placed on the verge and not the Subgrade.)
4. Positions of Service Conduits shown are typical only. Conduits are to be located as directed by Council’s Engineer. Invert crossings and Driveways are not to be constructed over Service Conduits.
5. Service Conduits may be either: — $80 uPVC PN 9 Series 1 pipe to AS/NZS 1477.
   — #100 FRC Class 2 with Rubber Ring Joints to AS. 4139
6. Conduit markers are to be placed wherever conduits cross under concrete or hard surfaced works.
7. For roads without Kerb and Channel, or half road construction, Service Conduits are to extend 300mm beyond the outer edge of the road Shoulders. The brass Counit marker is to be driven into, and fixed to the surfacing with an approved 2-pack epoxy suitable for the purpose.
1. All works on existing Council mains are to be performed only under Council supervision.
2. All bolts, nuts and washers to be Stainless Steel to AS 1449. Boats and washers to be Grade 316. Nuts to be grade 304.
3. All DICL fittings shall comply with AS/NZS 2280.
4. Minimum cover to service pipework (and conduits) is to be 300mm under verges, and 600mm under roads.
5. All DICL pipework and fittings are to be polyethylene wrapped.
6. Approved Spigot–Socket pipework may be used in place of Flange–Flange pipes where, in the opinion of Council's Engineer, unbalanced thrusts have been adequately countered.
7. Where Ø40 and Ø50 tapping are required, and these exceed the maximum permitted for drilling of the main, these services shall be constructed as shown for Ø65 and Ø80 services.

**ELEVATION**

**Resilient Seat sluice valve (F-F)**
Install Inspection box, Margin and Markers in accordance with Standard Drawings 8-40002 to 8-40005.

**DICL Tee**  Spigot to Spigot with flanged Ø100 branch

**Elongated Gibault joint** to suit size of main

**Property**

**Existing Main**

**ELEVATION**

**Plan - Meter and Property Service Arrangement**

**Plan - Mains Connection and Road Crossing**

**Ø40 and Ø50 Service**

**Owner's Responsibility**

Supply

Fire Hose Reel

FLOW

Backflow Prevention device as required by AS 3500

Spacer pipe

**Council's Responsibility**

**To Suit - 1000 max.**

Private Property

Road Reserve

Tapping Band Size to suit

**Ø65 and Ø80 Service**

**Owner's Responsibility**

Supply

Fire Hose Reel

FLOW

Backflow Prevention device as required by AS 3500

Spacer pipe

**Council's Responsibility**

**To Suit - 1000 max.**

Private Property

Road Reserve

Tapping Band Size to suit

**Ferrule bend**

**Bonnet Ferrule size to suit**

**Tapping Band Size to suit**

**Ø40mm to Ø80mm Property Service**
NOTES:
1. ALL WORKS ON EXISTING COUNCIL MAINS ARE TO BE PERFORMED ONLY UNDER COUNCIL SUPERVISION.
2. ALL BOLTS, NUTS AND WASHERS TO BE STAINLESS STEEL TO AS 1449. BOLTS AND WASHERS TO BE GRADE 316. NUTS TO BE GRADE 304.
3. ALL DCL FITTINGS SHALL COMPLY WITH AS/NZS 2280.
4. MINIMUM COVERS TO SERVICES PIPWORK IS TO BE 300mm UNDER VERGES AND 600mm UNDER ROADS.
5. ALL DCL PIPEWORK AND FITTINGS ARE TO BE POLYETHYLENE WRAPPED.
6. APPROVED SPIGOT- SOCKET PIPEWORK MAY BE USED IN PLACE OF FLANGE-FLANGE PIPES WHERE, IN THE OPINION OF COUNCIL'S ENGINEER, UNBALANCED THRUSTS HAVE BEEN ADEQUATELY COUNTERED.
NOTES:
1. All works on existing Council mains are to be performed only under Council supervision.
2. All bolts, nuts and washers to be Stainless Steel to AS 1449. Bolts and Washers to be Grade 316. Nuts to be Grade 304.
3. All DICL fittings shall comply with AS/NZS 2280.
4. Minimum covers to services pipework is to be 300mm under verges, and 600mm under roads.
5. All DICL pipework and fittings are to be polyethylene wrapped.
6. Approved Spigot–Socket pipework may be used in place of Flange–Flange pipes where, in the opinion of Council’s Engineer, unbalanced thrusts have been adequately countered.

WHERE HYDRANTS ARE TO BE FITTED
AFTER THE METER, A SPECIAL EXEMPTION
SHALL BE REQUIRED FROM BOTH THE
FIRE SERVICES AUTHORITY AND COUNCIL

Dia 100 min. (size as required) DICL pipe (Fi–Fi)
Resilient Seat sluice valve (Fi–Fi). Install inspection box, Margin and Markers in accordance with Standard Drawings 8–40002 to 8–40005
DICL Tee Spigot to Spigot with flanged branch – size to suit
Elongated Gibault joint to suit size of main
Elongated Gibault joint to suit size of main

Owner’s Responsibility
Council’s Responsibility

To Suit
1000 max.

ELEVATION

FLOW
Supply

FLOW
Fire hose reel (if required)

ELEVATION

FLOW

Comination Meter
Combination Metered Property Service

Combination Metered Property Service

Private Property
Road Reserve

Combination Metered Property Service

Road Crossing

Combination Metered Property Service

Note 1

Thrust Block

Existing Main

Elongated Gibault joint to suit size of main

Elongated Gibault joint to suit size of main

DICL Tee Spigot to Spigot with flanged branch – size to suit
Resilient Seat sluice valve (Fi–Fi). Install inspection box, Margin and Markers in accordance with Standard Drawings 8–40002 to 8–40005

Dia 100 min. (size as required) DICL pipe (Fi–Fi)

Owner’s Responsibility
Council’s Responsibility

Owner’s Responsibility
Council’s Responsibility

Boundary
NOTES:

1. ALL WORKS ON EXISTING COUNCIL MAINS ARE TO BE PERFORMED ONLY UNDER COUNCIL SUPERVISION.

2. ALL BOLTS, NUTS AND WASHERS TO BE STAINLESS STEEL TO AS 1449. BOLTS AND WASHERS TO BE GRADE 316. NUTS TO BE GRADE 304.

3. ALL DICL FITTINGS SHALL COMPLY WITH AS/NZS 2280.

4. MINIMUM COVERS TO SERVICES PIPEWORK IS TO BE 300mm UNDER VORGES AND 800mm UNDER ROADS.

5. ALL DICL PIPEWORK AND FITTINGS ARE TO BE POLYETHYLENE WRAPPED.

6. APPROVED SPIGOT-SOCKET PIPEWORK MAY BE USED IN PLACE OF FLANGE-FLANGE PIPES WHERE, IN THE OPINION OF COUNCIL'S ENGINEER, UNBALANCED THRUSTS HAVE BEEN ADEQUATELY COUNTERED.
ROAD VERGE

PRIVATE PROPERTY

Finished surface level - mown grass or finished concrete etc.

250mm - 500mm

Property Boundary

Location of lockable ball valve and box where installed by the Property Owner's Plumber

Meter Box Arrangement

N.T.S.

SCHEDULE OF FITTINGS

<table>
<thead>
<tr>
<th>NUMBER</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Tube Bush</td>
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<tr>
<td>2</td>
<td>Poly union x M.I.</td>
</tr>
<tr>
<td>3</td>
<td>Ball valve F.I. - F.I.</td>
</tr>
<tr>
<td>4</td>
<td>Meter tail piece</td>
</tr>
<tr>
<td>5</td>
<td>Meter box</td>
</tr>
<tr>
<td>6</td>
<td>Water Meter</td>
</tr>
<tr>
<td>7</td>
<td>F.I. x Copper compression</td>
</tr>
<tr>
<td>8</td>
<td>F.I. x Poly union</td>
</tr>
<tr>
<td>9</td>
<td>Ball valve F.I. - F.I. c/w locking bonnet</td>
</tr>
</tbody>
</table>

NOTES:

1. All pipe and fittings shown in hidden detail are to be installed by and are the responsibility of the Property Owner.
2. All fittings are to match the incoming service diameter and type.
3. All metallic fittings are to be Brass Type B dezincification resistant to AS 1565.
4. All fittings for polyethylene pipe are to conform to AS 4129.
5. All fittings are subject to Pine Water approval.
6. Meter Box to be P.R.S.C. approved type. Box to be firmly bedded without bearing on the meter arrangement at the recess holes.
7. Where meter is to be placed at a grade greater than 1 in 6, the Plumber shall seek direction from the Supervisor Water Services.

Pine Rivers Shire Council
220 Gympie Road
Brisbane
Qld 4073
Queensland 4073

NEW Ø20mm and Ø25mm WATER METER INSTALLATION LAYOUT AND DETAILS

40022