NOTES:

GENERAL
1. THIS STANDARD DRAWING APPLIES TO MULTI UNIT DEVELOPMENTS WITH 2 UP TO 8 UNITS OR UNITS PLUS A COMMON PROPERTY.
2. THIS STANDARD DRAWING APPLIES TO ABOVE GROUND MANIFOLD INSTALLATIONS ONLY.
3. THIS STANDARD DRAWING AND NOTES ARE TO BE READ IN CONJUNCTION WITH YVW'S WATER METERING AND SERVICING GUIDELINES AND RELEVANT STANDARD DRAWINGS.
4. DIMENSIONS ARE IN MILLIMETERS UNLESS NOTED OTHERWISE.
5. THIS STANDARD DRAWING APPLIES TO BOTH DRINKING WATER AND RECYCLED WATER SERVICES.
6. THE FIRE SERVICE METER ASSEMBLY AND NON-RESIDENTIAL DEVELOPMENTS, AN APPROPRIATE APPROVED BACKFLOW PREVENTION DEVICE SHALL BE INSTALLED IN ACCORDANCE WITH YVW'S WATER METERING AND SERVICING GUIDELINES AND RELEVANT STANDARD DRAWINGS.
7. THE FIRE SERVICE MAIN MAY BE CONNECTED TO EITHER THE DRINKING WATER MAIN OR RECYCLED WATER MAIN. IN CASE OF DUAL SERVICES, REFER ALSO TO DRAWINGS 31-27954-C001 AND C002.

LOCATION
1. LOCATE SERVICE MANIFOLD AND METERS INSIDE THE PROPERTY BOUNDARY OF THE FRONT PROPERTY ABUTTING THE WATERMAIN.
2. LOCATE MANIFOLD WITHIN 150mm MINIMUM TO 2000mm MAXIMUM FROM THE PROPERTY BOUNDARY.
3. LOCATIONS OF MANIFOLD AND METERS IS SUBJECT TO APPROVAL OF YVW.
4. LOCATIONS OF MANIFOLD AND METERS TO ALLOW ACCESS BY YVW, FREE OF ANY OBSTRUCTIONS INCLUDING POSTS, PITS, TREES, ETC.

INSTALLATION AND ARRANGEMENT
1. MANIFOLD ARRANGEMENT TO BE HORIZONTAL, STRAIGHT ARRANGEMENT CONNECTED TO THE FIRE SERVICE MAIN AS SHOWN.
2. INSTALL THE MANIFOLD PERPENDICULAR TO THE FIRE SERVICE MAIN.
3. INSTALL FIRE SERVICE MAIN, MANIFOLD AND WATER METER ASSEMBLIES IN ACCORDANCE WITH AS 3500.1, AS 2345, AS 3688, AS 3795, AND AS 4809.

PIPEWORK AND TAPPING REQUIREMENTS
1. REFER TO WATER METRIC AND SERVICING GUIDELINES FOR DETAILS OF TAPPING AND WATER METER ASSEMBLY PIPEWORK REQUIREMENTS, INCLUSIVE OF THE APPLICABLE STANDARD DRAWINGS.

SERVICE MANIFOLD
1. MANIFOLD PIPES AND FITTINGS SHALL BE COPPER OR COPPER ALLOY (BRASS) IN ACCORDANCE WITH AS 1432, AS 1567, AS 1572, AS 2345, AS 3688, AS 3795, AND AS 4809.
2. MANIFOLDS SHALL BE FABRICATED WITH MINIMUM 2 NO. RISER STEMS AND UP TO 6 PLUS 1 NO. RISER STEMS.

8. THE FIRE SERVICE MAIN MAY BE CONNECTED TO EITHER THE DRINKING WATER MAIN OR RECYCLED WATER MAIN. IN CASE OF DUAL SERVICES, REFER ALSO TO DRAWINGS 31-27954-C001 AND C002.

9. THE FIRE SERVICE MAIN MAY BE CONNECTED TO EITHER THE DRINKING WATER MAIN OR RECYCLED WATER MAIN. IN CASE OF DUAL SERVICES, REFER ALSO TO DRAWINGS 31-27954-C001 AND C002.

2. MANIFOLDS SHALL BE FABRICATED WITH MINIMUM 2 NO. RISER STEMS AND UP TO 6 PLUS 1 NO. RISER STEMS.

Pipework Schedule *

Item No. | Size (mm) | Description
--- | --- | ---
1 | TBC | FIRE SERVICE MAIN FROM WATERMAIN
2 | TBC | PE TO COPPER CONNECTOR
3 | TBC | COPPER FIRE SERVICE MAIN/RISER PIPE
4 | TBC | GATE OR BALL VALVE
5 | TBC | COPPER MANIFOLD (REFER SERVICE MANIFOLD NOTE 2)
6 | TBC | COPPER RISER STEM
7 | TBC | ANGLE BALL VALVE
8 | TBC | WATER METER
9 | TBC | SERVICE PIPE TO CUSTOMER

** THE PIPEWORK SCHEDULE TO THE RIGHT IS FOR COMMERCIAL & INDUSTRIAL DEVELOPMENTS. ON SITES FOR PIPEWORK AND MANIFOLDS ARE TO BE CONFORM TO HYDRAULIC INVESTIGATION FOR SPECIFIC DEMAND OF EACH CUSTOMER. FOR RESIDENTIAL DEVELOPMENTS REFER GH-23-27954-C001 & C002

20mm & 25mm WATER METERS TO HAVE INTEGRATED DUAL CHECK VALVES; LARGER SIZE WATER METERS TO HAVE NON-INTEGRATED DUAL CHECK VALVES.

Note: * indicates signature on original issue or last revision of drawing.
NOTES:

GENERAL
1. THIS STANDARD DRAWING APPLIES TO MULTI UNIT DEVELOPMENTS WITH 1 UP TO 6 NO. OF UNITS PLUS A COMMON PROPERTY.
2. THIS STANDARD DRAWING APPLIES TO ABOVE GROUND METER INSTALLATIONS ONLY.
3. THIS STANDARD DRAWING AND NOTES ARE TO BE READ IN CONJUNCTION WITH YVW'S WATER METERING AND SERVICING GUIDELINES AND RELEVANT STANDARD DRAWINGS.
4. DIMENSIONS ARE IN MILLIMETERS UNLESS NOTED OTHERWISE.
5. THIS STANDARD DRAWING APPLIES TO BOTH DRINKING WATER AND RECYCLED WATER SERVICES.
6. FOR RECYCLED WATER METER INSTALLATIONS, ALL FITTINGS, PIPEWORKS INCLUDING MANIFOLD, ETC SHALL BE IDENTIFIED BY A PURPLE COLOUR BEING NO DARKER THAN P24 JACARANDA OR P12 PURPLE AND NO LIGHTER THAN P23 LILAC AND MARKED AS "RECYCLED OR RECLAIMED-WATER - DO NOT DRINK" IN ACCORDANCE WITH AS/NZS 3500.
7. REFER DRAWING 31-27954-C003 FOR TYPICAL ARRANGEMENTS OF DUAL CONNECTIONS OF DRINKING WATER AND RECYCLED WATER MULTIMETER MANIFOLD INSTALLATIONS.

LOCATION
1. LOCATE SERVICE MANIFOLD AND METERS INSIDE THE PROPERTY BOUNDARY OF THE FRONT PROPERTY ABUTTING THE WATERMAIN.
2. LOCATE MANIFOLD WITHIN 1300mm MINIMUM TO 2000mm MAXIMUM FROM THE PROPERTY BOUNDARY.
3. LOCATE OF MANIFOLD AND METERS IS SUBJECT TO APPROVAL OF YVW.
4. MANIFOLD AND WATER METERS SHALL BE INSTALLED CLEAR OF DRIVEWAYS AND TRAFFICABLE AREAS.
5. LOCATION OF MANIFOLD AND METERS TO ALLOW ACCESS BY YVW, FREE OF ANY OBSTRUCTIONS INCLUDING POSTS, PITS, TREES, ETC.

INSTALLATION AND ARRANGEMENT
1. MANIFOLD ARRANGEMENT TO BE HORIZONTAL 'STRAIGHT ARRANGEMENT AS SHOWN'.
2. INSTALL THE MANIFOLD PERPENDICULAR TO THE WATERMAIN.
3. INSTALL MANIFOLD PIPE, MANIFOLD AND WATER METERS ASSEMBLY IN ACCORDANCE WITH AS 3688, AS 3795, AND AS 4809.

PIPEWORK AND TAPPING REQUIREMENTS
1. REFER TO YVW METERING AND SERVICING GUIDELINES FOR DETAILS OF TAPPING AND WATER METER ASSEMBLY PIPEWORK REQUIREMENTS, EXCLUSIVE OF STANDARD DRAWING "25 - 25mm GENERAL WATER SERVICE TYPICAL ARRANGEMENT" MULTIMETER MANIFOLD INSTALLATIONS.

SERVICE MANIFOLD
2. MANIFOLD SHALL BE FABRICATED WITH MINIMUM 3 NO. SERVICE STEMS AND UP TO 6 PLUS 1 NO. SERVICE STEMS.

PipeWORK SCHEDULE *

<table>
<thead>
<tr>
<th>No. OF UNITS</th>
<th>DN (mm) *</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>3</td>
<td>25</td>
<td>PE MAN SERVICE PIPE FROM WATERMAIN</td>
</tr>
<tr>
<td>4</td>
<td>25-40</td>
<td>PE TO COPPER CONNECTOR</td>
</tr>
<tr>
<td>5</td>
<td>25-40</td>
<td>BALL VALVE</td>
</tr>
<tr>
<td>6</td>
<td>20</td>
<td>COPPER MANIFOLD (REFER TO SERVICE MANIFOLD NOTE 2)</td>
</tr>
<tr>
<td>7</td>
<td>20</td>
<td>ANGLE BALL VALVE</td>
</tr>
<tr>
<td>8</td>
<td>25</td>
<td>WATER METER</td>
</tr>
</tbody>
</table>

Note: * indicates signatories on original issue or last revision of drawing.
GENERAL
1. This standard drawing applies to multi unit developments with 3 up to 6 no. of units plus a common property.
2. This standard drawing applies to above ground meter installations only.
3. The dimensions are in millimeters unless noted otherwise.
4. Location of manifold and meters shall be installed clear of driveways and trafficable areas.
5. Location of manifold and meters shall be installed clear of driveways and trafficable areas.
6. This standard drawing applies to both drinking water and recycled water services.
7. This standard drawing applies to both drinking water and recycled water services.

LOCATION
1. Locate service manifold and meters inside the property boundary of the front property abutting the watermain.
2. Locate manifold within 150mm minimum to 2000mm maximum from the property boundary.
3. Location of manifold and meters is subject to approval of YVW.
4. Manifold and water meters shall be installed away from driveways and trafficable areas.
5. Location of manifold and meters to allow access by YVW, free of any obstructions including posts, pits, trees, etc.

INSTALLATION AND ARRANGEMENT
1. Manifold arrangement to be horizontal ‘T’ arrangement as shown.
2. Install manifold parallel to the watermain.
3. Install manifolds with service pipes / manifolds and water meter assemblies in accordance with AS 3500:2002 Part 1: Planning and drainage - water services.

PIPWORk AND TAPPING REQUIREMENTS
1. Refer to YVW metering and servicing guidelines for details of tapping and water meter assembly pipework requirements. Include of standard drawing 25-40mm general water service (net tapping, low hazard, residential / commercial / industrial, typical arrangement).

SERVICE MANIFOLD
1. Manifold pipes and fittings shall be copper or copper alloy (brass) in accordance with AS 1432, AS 1567, AS 1572, AS 2345, AS 3688, AS 3795, and AS 4809.
2. Manifold pipes and fittings shall be copper or copper alloy (brass) in accordance with AS 1432, AS 1567, AS 1572, AS 2345, AS 3688, AS 3795, and AS 4809.
3. This standard drawing applies to multi unit developments with 3 up to 6 no. of units plus a common property.
4. This standard drawing applies to multi unit developments with 3 up to 6 no. of units plus a common property.

NOTES:
1. Manifold pipes and fittings shall be copper or copper alloy (brass) in accordance with AS 1432, AS 1567, AS 1572, AS 2345, AS 3688, AS 3795, and AS 4809.
2. Manifold pipes and fittings shall be copper or copper alloy (brass) in accordance with AS 1432, AS 1567, AS 1572, AS 2345, AS 3688, AS 3795, and AS 4809.
3. This standard drawing applies to multi unit developments with 3 up to 6 no. of units plus a common property.
4. This standard drawing applies to multi unit developments with 3 up to 6 no. of units plus a common property.

[Diagram of manifold arrangement and service pipes]
"T" ARRANGEMENT PLAN

EXISTING DRINKING WATER MAIN
PROPERTY BOUNDARY
2000 MAX.

RECYCLED WATER MULTI-METER MANIFOLD

"T" TYPICAL LAYOUT - PLAN

SCALE 1:20

SECTION A

ROAD

"STRAIGHT" TYPICAL LAYOUT - PLAN

SCALE 1:20

SECTION B

"STRAIGHT" ARRANGEMENT PLAN

NOTES:
1. THE NON-DRINKING / RECYCLED WATER MANIFOLD ASSEMBLY SHALL BE INSTALLED A MINIMUM DISTANCE AS SHOWN ABOVE TO THE LEFT OF THE DRINKING WATER MANIFOLD ASSEMBLY, WHEN LOOKING INTO THE PROPERTY FROM THE STREET BOUNDARY.
2. REFER DRAWINGS 31-27954-C001 & C002 FOR DETAILS.

Projects

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Approved: 31.05.12

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