IRRIGATION ONLY
RP TYPE BACKFLOW TO BE INSTALLED WITHIN 50' OF DOMESTIC TEE W/ SEPARATE IRRIGATION METER

VARIES (SEE MANUFACTURER)
REDUCED PRESSURE PRINCIPLE ASSEMBLY (RP)

NOTE 2
CENTER ASSEMBLY IN BOX
1-0' MIN.

NOTE 1
42' MIN. BURY

1" CLEAR
TELESCOPIC CAST-IRON VALVE BOX, & CONCRETE VALVE BOX STABILIZATION PAD (DETAILED 513.02)

6" MIN.

FLOW
REQUIRED PRIOR TO BACKFLOW PREVENTION FOR IRRIGATION SYSTEMS

6" MIN.

FLOW

4" 3000 PSI CONCRETE SLAB DIMENSIONS PER BOX MANUFACTURER SPECIFICATIONS. FOR RESIDENTIAL IRRIGATION 2" AND UNDER, THE CONCRETE POND IS NOT REQUIRED.

PROVIDE BLOCKING FOR PIPES 2" AND LARGER

DRAIN PORT - PROVIDE POSITIVE DRAINAGE OUT OF ENCLOSURE (MINIMUM TWICE THE PIPE SIZE OF BACKFLOW)

SEE SHEET 3 of 3 FOR PART I.D.
IRRIGATION ONLY
RP TYPE BACKFLOW TO BE INSTALLED WITHIN 50' OF DOMESTIC TEE W/ SEPARATE IRRIGATION METER

PLAN VIEW

VARIES (SEE MANUFACTURER)
REDUCED PRESSURE PRINCIPLE ASSEMBLY (RP)

3/4" to 2" IRRIGATION ONLY, RP ASSEMBLY (ABOVE GROUND)
# TYPICAL ENCLOSURE

<table>
<thead>
<tr>
<th>PART</th>
<th>MANUFACTURER MODEL / Cat. No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>BACKFLOW PREVENTION ASSEMBLY, AS APPLICABLE</td>
</tr>
<tr>
<td>2</td>
<td>1/4 TURN FULL PORT BRONZE BALL SHUT-OFF VALVE</td>
</tr>
<tr>
<td>3</td>
<td>ALL MATERIALS TO CONFORM TO SECTION 6 ON NC PLUMBING CODE.</td>
</tr>
<tr>
<td>4</td>
<td>OPTIONAL THREADED UNION AT GROUND LEVEL WITHIN 3&quot; OF GROUND (REQUIRED FOR IRRIGATION ONLY)</td>
</tr>
<tr>
<td>5</td>
<td>ALL MATERIALS TO CONFORM TO SECTION 6 ON NC PLUMBING CODE.</td>
</tr>
<tr>
<td>6</td>
<td>ALL MATERIALS TO CONFORM TO SECTION 6 ON NC PLUMBING CODE.</td>
</tr>
<tr>
<td>7</td>
<td>INSULATED ENCLOSURE WITH LOCKING ACCESS AND OPTIONAL HEATER (120 V, 1 PHASE 60 Hz) VERIFY FITTINGS WILL FIT INSIDE BOX BEFORE ORDERING</td>
</tr>
<tr>
<td>8</td>
<td>STAINLESS STEEL ANCHOR BOLTS PER BOX MANUFACTURER RECOMMENDED SIZE AND SPACING</td>
</tr>
<tr>
<td>9</td>
<td>STRAINER REQUIRED WITHIN 3&quot; OF BFP (EXCLUDING FIRE BACKFLOW APPLICATIONS)</td>
</tr>
<tr>
<td>10</td>
<td>U.G. VALVE REQUIRED PRIOR TO BACKFLOW PREVENTER FOR IRRIGATION APPLICATIONS.</td>
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</tbody>
</table>

**NOTES:**

1. Provide minimum 1" annular clearance around all risers.
2. Slope floor to drain to ports at both ends. Ensure positive surface grade away from enclosure.
3. Construction and materials shall meet the requirements of the NC Plumbing Code and, for fire services, NFPA.
4. Minimum clearance 12" from ground, Maximum 60" to highest part of backflow & 6" clearance on all sides from walls.
5. Lawn irrigation requires a separate irrigation meter | G.S. 143–355.4
6. NOTE TO ENGINEER: Heat is optional for domestic back flow. Only required on fire protection

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City of Durham, NC
Use with the Standard Specifications Only

3/4" to 2" IRRIGATION ONLY, RP ASSEMBLY (ABOVE GROUND)