THE INFORMATION PROVIDED IN THIS DOCUMENT IS GENERAL AND INTENDED AS A GUIDE ONLY. EACH PROJECT IS UNIQUE AND ADDITIONAL REQUIREMENTS MAY BE ENFORCED AS DEEMED APPROPRIATE.

**WARNING**
- Failure to complete items below prior to inspection may result in a re-inspection fee.

**APPLICATION**
- Repiping of the water piping system within the building. See “Water Service” checklist for water piping from the meter to the building.
- Damaged shear walls, fire walls, and stucco during repiping requires a separate permit and inspections.
- No water piping supplied by any private water supply system shall be connected to any other source of supply without the approval by a building official. CPC 602.4

**ELECTRICAL GROUNDING AND BONDING SYSTEM**
- When modifying metallic water piping system, plumber shall be aware that plumbing system is part of electric ground and bonding system. Any modification to plumbing system will require the electrical ground and bonding system to be brought up to CEC article 250 requirements.

**NON METALLIC WATER SERVICE**
- Non metallic pipe identification: A label shall be fastened to the main electric meter panel stating “**THIS STRUCTURE HAS A NON-METALLIC WATER SERVICE**”. IAPMO Installation Standards 7-90, 609.5
- Where a grounding system is installed, inspected, and approved, a metallic pipe may be replaced with non-metallic pipe. CPC 604.8

**EXCESSIVE WATER PRESSURE**
- Where local static water pressure exceeds 80 PSI (typically West of El Camino Real) a approved type pressure regulator preceded by an adequate strainer shall be installed to reduce pressure to 80 psi or less. CPC 608.2

**REQUIRED INSPECTIONS**
- Electrical bonding & grounding, water test (typically one inspection).
**INSPECTION**

- Water piping systems shall be of approved materials *CPC 604.1*, see table 6-4 below properly sized *CPC table 6-4,5* and supported with approved hangers. *CPC 314.1*
  
  If applicable to your project see “PEX PIPING” checklist.

- Transition between copper and galvanized water piping shall be made with either a dielectric union (accessible location only) or 6” brass nipple and brass coupling. *CPC 604, 311.6*

- Galvanized steel water piping must be kept at least 6” above ground and shall not be used underground. *CPC 707.1.1*

- All under ground/slab copper pipe shall be Type L and shall be identified with a blue stripe. Exception: Copper pipe that is above ground in or on a building or under ground outside of structure may be Type M identified with a red stripe *CPC 604.3*

- All water piping joints in or under slab/house shall be brazed joints. *CPC 609.3.2*

- Insulate first 5’ hot and cold pipe at water heater. *energy code*

- Non-removable back flow prevention devices shall be installed on all hose bibs, fire & irrigation sprinkler systems, and hand held shower attachments. *CPC 603.2, 603.3.7*

- Shut off valves shall be installed immediately ahead of each water-supplied appliance, slip joint or appliance supply, and manifold. *CPC 605.5*

- Tub and shower valves to be of the pressure balancing or thermostatic mixing value type.

- Expansion tank required if closed system.

**Grounding and Bonding CEC article 250**

- Test receptacles for continuity/ground at kitchen, bathrooms and laundry room.

- Reinstall existing water bond from main electrical service panel. (clamp shall be in an accessible location) *CEC 250.52 (a) (1)*

- Verify bonding jumper if metal water pipe is interrupted. *CEC 250.52 (a) (1)*

- Verify bonding at water heater, (hot to cold to gas pipe). *CEC 250.104 (b)*

- Verify bonding at metal boxes. *CEC 314.4*

**Water service**

- See “Water Service” checklist.
## APPROVED MATERIALS

### Table 6-4

<table>
<thead>
<tr>
<th>MATERIAL</th>
<th>WATER DISTRIBUTION PIPE AND FITTINGS</th>
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