NOTICE TO CONTRACTORS

- The Engineer and Designer do not warrant performance of the accuracy and completeness of the work contained in this drawing. The Engineer and Designer shall not be liable for any errors or omissions in this drawing or for any loss or damage incurred by anyone as a result of the use of this drawing.
- If any changes or alterations are made to this drawing, the Engineer and Designer shall be notified in writing.
- Any changes or alterations made to this drawing shall be made in accordance with the specifications and instructions contained herein.
- The Engineer and Designer shall not be responsible for any errors or omissions in this drawing that may be caused by the Contractor or Subcontractor.
- The Contractor shall not alter or modify any part of this drawing without the prior written consent of the Engineer and Designer.
- The Contractor shall comply with all applicable laws and regulations, including but not limited to the California Green Building Standards Code, the California Health and Safety Code, and all other applicable state and federal laws.
- The Contractor shall provide all subcontractors with the necessary information and instructions for the work to be performed.
- The Contractor shall not use any materials that are not approved by the Engineer and Designer.
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Fuel-burning water heaters may be installed in a garage. The purpose of this bulletin is to provide information to the public about the code requirements for the installation of water heaters.

### 3. Installation in an Attic:
- The water heater shall be installed with an approved watertight pan beneath the water heater with a minimum 3" nipple in length with a cap for trapping sediment (1212.7 C.P.C. 2007). This shall be accessible through an opening and passageway at least as large as the largest dimension of the water heater. The passageway shall be unobstructed and shall have solid flooring not less than 24" wide. Where the height of the water heater exceeds 20' measured along the centerline of the passageway.
- A level working platform not less than 30" x 30" inches shall be provided in front of the service side of the water heater. A 2" min. drain that drains to an approved location. The P/T line is not allowed to terminate at this pan or be constructed of water tight corrosion resistant material. The pan must be fitted with a minimum 3/4" x 24 gauge steel plumbers tape.
- Access to the water heater shall be through an opening in the pan or bracing water heaters over 40 gallons. Example (wrap-around straps): Drill pilot holes on centerline of stud (both sides of heater), insert screws through punched holes in strap. Refer to instructions on page 7.
- Lag screw and 2x4
- Tape
- Measuring tools used in the bracing of water heaters may be found in the American Standard for the Installation of Detached Water Heaters. The theoretical design of water heater bracing is in accordance with ASME/ANSI A112.19.4-2000 for water heater manufacturers, and the Code of Practice for Water Heater Manufacturers, for the purpose of water heater manufacturers, and the Code of Practice for Water Heater Manufacturers, 2005.
- Water Heaters shall be installed with approved strapping and venting per details 1 & 2."

### 4. Temperature and Pressure Relief Valve & Discharge Line:
- Each water heater shall be equipped with a temperature and pressure relief valve to protect the heater from excessive pressure and temperature. The device shall be ANSI Z21.22 certified. The BTU discharge capacity of the relief valve shall be at least equal to the BTU discharge capacity of the water heater. Gas piping shall be bonded. Gas piping is considered to be bonded when it is connected to gas utilization equipment that is connected to the equipment grounding conductor or the water heater. The switch controlling the lighting fixture shall be located at the attic access. Water Heater Bracing   Page 6 of 12

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**View Details:**

- 1/4" dia. x 3"
- 1/4" dia. x 5"
- 1 3/4"
- 7" x 30" vent pipe with a cap for trapping sediment
- 1" square inch per 4000 B.T.U. per hour
- 1" minimum diameter vent pipe for each water heater
- 6" clearance from combustible material
- Class A material rated auto-ignition temperature (AATC) of 500°F
- Thru-wall vent connector
- 4" dia. vent pipe
- 1/4" steel plumbers tape
- 304 stainless steel screws or rivets
- Minimum 3" nipple in length with a cap for trapping sediment
- 1/4" dia. x 5"
- 1/4" dia. x 3"
- 7" x 30" vent pipe with a cap for trapping sediment
- 1" square inch per 4000 B.T.U. per hour
- 1" minimum diameter vent pipe for each water heater
- 6" clearance from combustible material
- Class A material rated auto-ignition temperature (AATC) of 500°F
- Thru-wall vent connector
- 4" dia. vent pipe
- 1/4" steel plumbers tape
- 304 stainless steel screws or rivets
- Minimum 3" nipple in length with a cap for trapping sediment
- 1/4" dia. x 5"
- 1/4" dia. x 3"
- 7" x 30" vent pipe with a cap for trapping sediment
- 1" square inch per 4000 B.T.U. per hour
- 1" minimum diameter vent pipe for each water heater
- 6" clearance from combustible material
- Class A material rated auto-ignition temperature (AATC) of 500°F
- Thru-wall vent connector
- 4" dia. vent pipe
- 1/4" steel plumbers tape
- 304 stainless steel screws or rivets
- Minimum 3" nipple in length with a cap for trapping sediment
- 1/4" dia. x 5"
- 1/4" dia. x 3"
- 7" x 30" vent pipe with a cap for trapping sediment
- 1" square inch per 4000 B.T.U. per hour
- 1" minimum diameter vent pipe for each water heater
- 6" clearance from combustible material
- Class A material rated auto-ignition temperature (AATC) of 500°F
- Thru-wall vent connector
- 4" dia. vent pipe
- 1/4" steel plumbers tape
- 304 stainless steel screws or rivets
- Minimum 3" nipple in length with a cap for trapping sediment