

1. **METALLIC PIPE:** Per the Uniform Plumbing Code Section 1211.5 as amended by the City of Mission Viejo, metallic pipe installed underground in exterior locations shall be protected by **approved factory applied coatings and wrapped with not less than 2 layers of minimum 10 mil wrapping.** All metallic gas fittings shall be protected from corrosion by applying an approved primer and then wrapping the fittings with not less than 4 layers of minimum 10 mil wrapping. All horizontal piping shall have at least 12-inches of earth cover or equivalent protection. Risers shall be protected from corrosion by applying an approved primer and then wrapping the riser with not less than 4 layers of minimum 10 mil wrapping to a point at least 6-inches above grade.
2. **PVC AND PE PLASTIC PIPE:** Per the Uniform Plumbing Code Section 1211.5 PVC & PE Plastic pipe installed underground in exterior locations shall have at least 18-inches of earth cover or other equivalent protection. Risers shall be metallic and shall be protected from corrosion by applying an approved primer and then wrapping the riser with **not less than 4 layers of minimum 10 mil wrapping** to a point at least 6-inches above grade. When a riser connects underground to PVC or PE Plastic pipe, the underground horizontal metallic portion of the riser shall extend at least 30-inches before connecting to the plastic pipe by means of a approved transition fitting or adapter. An electrically continuous insulated number **18 AWG yellow copper tracer wire** or other approved materials shall be installed with and attached to underground non-metallic gas piping and shall terminate above grade at each end.
3. **GAS PIPING INSTALLED UNDER BUILDINGS:** Per the Uniform Plumbing Code Section 1211.3 No gas Piping shall be installed in or on the ground under any building or structure unless installed in gastight conduit, and all exposed gas piping shall be kept at least 6-inches above grade or structure. The term "building or structure" shall include structures such as porches and steps, whether covered or uncovered, breezeways, roofed porte-cocheres, roofed patios, carports, covered walks, covered driveways, and similar structures or appurtenances.

The conduit shall be of material approved for installation underground beneath buildings and not less than Schedule 40 pipe. The interior diameter of the conduit shall be not less than ½-inch larger than the outside diameter of the gas piping.

The conduit shall extend to a point at least 12-inches beyond any area where it is required to be installed or to the outside wall of a building, and the outer ends shall not be sealed. Where the conduit terminates within the building, it shall be readily accessible and the space between the conduit and the gas piping shall be sealed to prevent leakage of gas in the building.
4. A pressure test, **provided by applicant**, is required and must hold a minimum 10 p.s.i. for 15 minutes, with no drop in pressure. Pressure test is required to be performed with gauges with 1/10 pound increments and a pressure range not to exceed 20 pounds.
5. Never cover or conceal piping until inspected and approved. For correct pipe sizing, please provide the distance(s) to the appliance(s) and the BTU rating for each appliance. Do not connect gas lines to the meter or appliance(s) until pressure test has been approved. A gas shut-off valve is required outside of and within 3-feet of all gas appliances, and within 6-feet of ranges and laundry dryers.