



Figure P3104.2
GRADE OF VENTS

P3104.4 Vertical rise of vent. Every dry vent shall rise vertically to a minimum of 6 inches (152 mm) above the flood level rim of the highest trap or trapped fixture being vented.

- ❖ The provisions of this section prohibit horizontal vent piping from occurring where it will be subject to waste flow. A vertical rise of the vent piping will reduce the possibility of having a blockage in the vent pipe. Drainage system stoppage will flow over the fixture flood rim before reaching the horizontal vent line. Drain stoppage is immediately apparent, but vent stoppage is not; however, the latter can cause trap-seal siphonage and allow sewer gases to enter the building. A vertical rise would meet the definition of a vertical pipe, which is an angle of 45 degrees (0.79 rad) or more with the horizontal.

P3104.5 Height above fixtures. A connection between a vent pipe and a vent stack or stack vent shall be made at least 6 inches (152 mm) above the flood level rim of the highest fixture served by the vent. Horizontal vent pipes forming branch vents shall be at least 6 inches (152 mm) above the flood level rim of the highest fixture served.

- ❖ This section expresses the same concern as the previous section. In the event of drain stoppage, waste could rise into the vent piping. Over a period of time, the vent piping could become blocked with solids that have settled out of the waste liquids. Additionally, individual, common, or branch vents that improperly connect to vent stacks or stack vents could become drains where the fixture drain or drains served are blocked or restricted. It is entirely possible for a vent to serve unintentionally as a drain, and this condition could go unnoticed for a long period of time. See Commentary Figures P3104.5(1) and P3104.5(2).

P3104.6 Vent for future fixtures. Where the drainage piping has been roughed-in for future fixtures, a rough-in connection for a vent shall be installed a minimum of one-half the diameter of the drain. The vent rough-in shall connect to the vent system or shall be vented by other means as provided in this chapter. The connection shall be identified to indicate that the connection is a vent.

- ❖ When future fixture rough-in drainage piping is installed, vents must also be installed. The vent rough-in must be tied into the vent system or must extend to a vent terminal. The rough-in connection must be identi-