

VERTICAL INSTALLATION

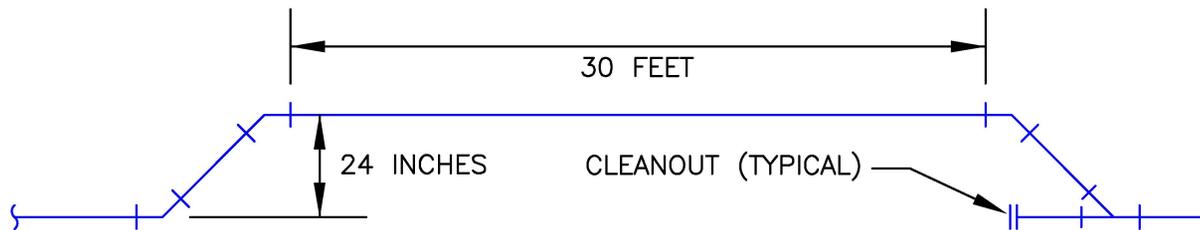
INSTALLATION STANDARDS IAPMO IS 5-2006 AND 9-2006:

THERMAL EXPANSION AND CONTRACTION MAY BE CONTROLLED BY OFFSETS, EXPANSION JOINTS, OR RESTRAINTS.

REGARDLESS OF THE METHOD UTILIZED, THE FOLLOWING CONDITIONS MUST BE MET:

1. SUPPORT, BUT DO NOT RIGIDLY RESTRAIN PIPING AT CHANGES OF DIRECTION.
2. DO NOT ANCHOR PIPE RIGIDLY IN WALLS.
3. HOLES THROUGH FRAMING MEMBERS MUST BE ADEQUATELY SIZED TO ALLOW FOR FREE MOVEMENT.

HORIZONTAL INSTALLATION



ABOVE GROUND HORIZONTAL PIPES MUST BE SUPPORTED AT EACH HORIZONTAL BRANCH CONNECTION. RESTRAINT FITTINGS OR A MINIMUM 24-INCH OFFSET USING 45 DEGREE FITTINGS SHOULD BE PROVIDED EVERY 30 FEET.

A CLEANOUT MUST BE PROVIDED IN A DRAINAGE PIPE FOR EACH AGGREGATE HORIZONTAL CHANGE OF DIRECTION EXCEEDING 135 DEGREES (SEE M.R., CHAPTER 4714, SECTION 707.4).

CLEANOUTS AND EXPANSION JOINTS MUST BE INSTALLED IN AN ACCESSIBLE LOCATION (SEE M.R., CHAPTER 4714, SECTIONS 705.10.2 AND 707.8).

APPROVED EXPANSION JOINTS  
INSTALLED PER MANUFACTURER'S  
INSTALLATION INSTRUCTIONS

30 FEET

30 FEET

24 INCHES