

	CITY OF OCEANSIDE Building Division 300 N Coast Highway Oceanside, CA 92054 760-435-3950 www.ci.oceanside.ca.us	I.B. 117
		2022 California Codes
		1/1/2023-12/31/2025 <i>Effective Date</i>

Water and Sewer Requirements

Informational Bulletin

Materials for building water piping and building supply piping shall comply with the applicable standards referenced in CPC Table 604.1.

Materials for drainage and sewer piping shall be in accordance with one of the referenced standards in CPC Table 701.2

718.3 No building sewer or other drainage piping or part therefore, which is constructed of materials other than those approved for use under or within a building, shall be installed under or within two (2) feet (610mm) of a building or structure, or part thereof, nor less than one (1) foot (305mm) below the surface of the ground. The provisions of this sub-section 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.

720.1 Building sewers or drainage piping of clay or material that are not approved for use within a building shall not be run or laid in the same trench as the water pipes unless both of the following requirements are met:

- (1) The bottom of the water pipe, at points, shall be not less than twelve (12) inches (305mm) above the top of the sewer or drain line
- (2) The water pipe shall be placed on a solid shelf excavated at one (1) side of the common trench with a clear horizontal distance of not less than twelve (12) inches (305mm) from the sewer or drain line.
- (3) Water pipes crossing sewer or drainage piping constructed of clay or materials that are not approved to use within a building shall be laid not less than 12 inches (305mm) above the sewer drain.



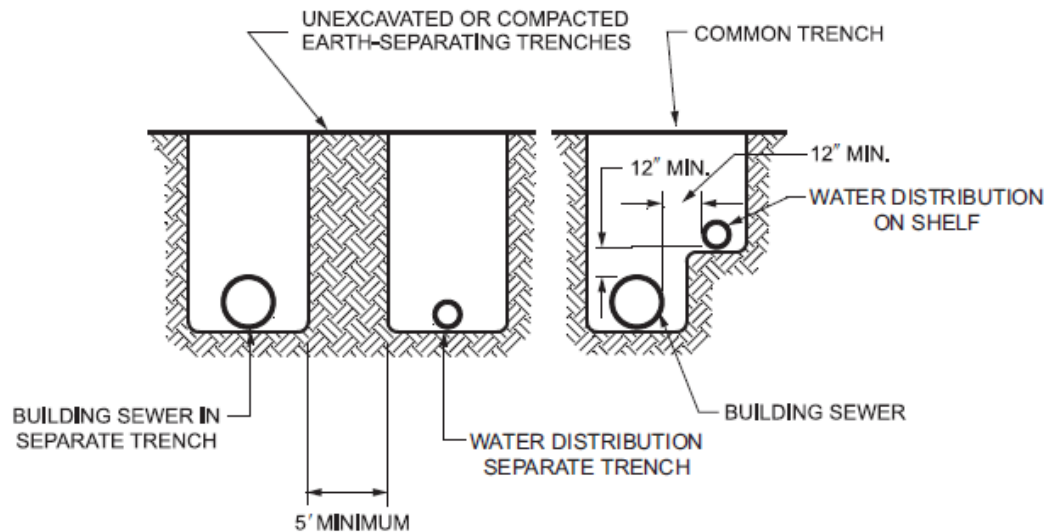
CITY OF OCEANSIDE

Building Division
 300 N Coast Highway
 Oceanside, CA 92054
 760-435-3950
www.ci.oceanside.ca.us

I.B. 117

2022 California Codes

1/1/2023-12/31/2025
Effective Date



314.3 Open Trenches

Excavations required to be made for the installation of a building drainage system or part thereof, within the walls of a building, shall be open trench work and shall be kept open until the piping has been inspected, tested, and accepted.

314.4 Excavations

Excavations shall be completely backfilled as soon after inspection as practicable. Precaution shall be taken to ensure compactness of backfill around piping without damage to such piping. Trenches shall be backfilled in thin layers to 12 inches (305 mm) above the top of the piping with clean earth, which shall not contain stones, boulders, cinder fill, frozen earth, construction debris, or other materials that will damage or break the piping or cause corrosive action. Mechanical devices such as bulldozers, graders, etc., shall be permitted to be then used to complete backfill to grade. Fill shall be properly compacted. Precautions shall be taken to ensure permanent stability for pipe laid in filled or made ground.

Underground thermoplastic pipe and fittings for sewers and other gravity flow applications shall be installed in accordance with this code and Section 314.4.1.

	CITY OF OCEANSIDE Building Division 300 N Coast Highway Oceanside, CA 92054 760-435-3950 www.ci.oceanside.ca.us	I.B. 117
		2022 California Codes
		1/1/2023-12/31/2025 <i>Effective Date</i>

314.4.1 Installation of Thermoplastic Pipe and Fittings

Trench width for thermoplastic sewer pipe shall be not less than 1.25 times the outside diameter of the piping plus 12 inches (305 mm) or the outside diameter of the piping plus not less than 16 inches (406 mm). Thermoplastic piping shall be bedded in not less than 4 inches (102 mm) of granular fill supporting the piping. The backfill for thermoplastic piping shall be compacted along the sides of the piping in 6-inch (152 mm) layers and continue to not less than 12 inches (305 mm) above the piping. Compaction shall be not less than an 85 percent standard proctor density.

706.0 Changes in Direction of Drainage Flow

706.1 Approved Fittings

Changes in the direction of drainage piping shall be made by the appropriate use of approved fittings and shall be of the angles presented by a one-sixteenth bend, one-eighth bend, or one-sixth bend, or other approved fittings of equivalent sweep.

706.2 Horizontal to Vertical

Horizontal drainage lines, connecting with a vertical stack, shall enter through 45 degree (0.79 rad) wye branches, 60 degree (1.05 rad) wye branches, combination wye and one-eighth bend branches, sanitary tee or sanitary tapped tee branches, or other approved fittings of equivalent sweep. No fitting having more than one inlet at the same level shall be used unless such fitting is constructed so that the discharge from one inlet cannot readily enter any other inlet. Double sanitary tees shall be permitted to be used where the barrel of the fitting is not less than two pipe sizes larger than the largest inlet, (pipe sizes recognized for this purpose are 2 inches, 2 1/2 inches, 3 inches, 3 1/2 inches, 4 inches, 4 1/2 inches, 5 inches, 6 inches, etc.) (50 mm, 65 mm, 80 mm, 90 mm, 100 mm, 115 mm, 125 mm, 150 mm, etc.).

	CITY OF OCEANSIDE Building Division 300 N Coast Highway Oceanside, CA 92054 760-435-3950 www.ci.oceanside.ca.us	I.B. 117
		2022 California Codes
		1/1/2023-12/31/2025 <i>Effective Date</i>

706.3 Horizontal to Horizontal

Horizontal drainage lines connecting with other horizontal drainage lines shall enter through 45 degree (0.79 rad) wye branches, combination wye and one-eighth bend branches, or other approved fittings of equivalent sweep.

706.4 Vertical to Horizontal

Vertical drainage lines connecting with horizontal drainage lines shall enter through 45 degree (0.79 rad) wye branches, combination wye and one-eighth bend branches, or other approved fittings of equivalent sweep. Branches or offsets of 60 degrees (1.05 rad) shall be permitted to be used where installed in a true vertical position.

707.0 Cleanouts

707.4 Location

Each horizontal drainage pipe shall be provided with a cleanout at its upper terminal, and each run of piping, that is more than 100 feet (30 480 mm) in total developed length, shall be provided with a cleanout for each 100 feet (30 480 mm), or fraction thereof, in length of such piping. An additional cleanout shall be provided in a drainage line for each aggregate horizontal change in direction exceeding 135 degrees (2.36 rad).

708.0 Grade of Horizontal Drainage Piping

Horizontal drainage piping shall be run in practical alignment and a uniform slope of not less than 1/4 inch per foot (20.8 mm/m) or 2 percent toward the point of disposal provided that, where it is impractical due to the depth of the street sewer, to the structural features, or to the arrangement of a building or structure to obtain a slope of 1/4 inch per foot (20.8 mm/m) or 2 percent, such pipe or piping 4 inches (100 mm) or larger in diameter shall be permitted to have a slope of not less than 1/8 inch per foot (10.4 mm/m) or 1 percent, where first approved by the Authority Having Jurisdiction.

	CITY OF OCEANSIDE Building Division 300 N Coast Highway Oceanside, CA 92054 760-435-3950 www.ci.oceanside.ca.us	I.B. 117
		2022 California Codes
		1/1/2023-12/31/2025 <i>Effective Date</i>

709.0 Gravity Drainage Required

Where practicable, plumbing fixtures shall be drained to the public sewer or private sewage disposal system by gravity.

710.0 Drainage of Fixtures Located Below the Next Upstream Manhole or Below the Main Sewer Level

710.1 Backflow Protection

Fixtures installed on a floor level that is lower than the next upstream manhole cover of the public, or private sewer shall be protected from backflow of sewage by installing an approved type of backwater valve. Fixtures on such floor level that are not below the next upstream manhole cover shall not be required to be protected by a backwater valve. Fixtures on floor levels above such elevation shall not discharge through the backwater valve. Cleanouts for drains that pass through a backwater valve shall be clearly identified with a permanent label stating "backwater valve downstream."

717.0 Size of Building Sewers

The minimum size of a building sewer shall be determined on the basis of the total number of fixture units drained by such sewer, in accordance with CPC Table 717.1.

723.0 Building Sewer Test

Building sewers shall be tested by plugging the end of the building sewer at its points of connection to the public sewer or private sewage disposal system and completely filling the building sewer with water from the lowest to the highest point thereof, or by approved equivalent low-pressure air test. Plastic DWV piping systems shall not be tested by the air test method. The building sewer shall be watertight.