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**IDAPA 07
TITLE 02
CHAPTER 06**

07.02.06 - RULES CONCERNING IDAHO STATE PLUMBING CODE

000. LEGAL AUTHORITY.

In accordance with Section 54-2605(1), Idaho Code, the Idaho Plumbing Board shall make, promulgate, and publish such rules as may be necessary for carrying out the provisions of this act in order to effectuate the purposes thereof and for the orderly and efficient administration thereof, and except as may be limited or prohibited by law and the provisions of this act, such rules so made and promulgated shall have the force of statute. (2-26-93)

001. TITLE AND SCOPE.

01. Title. These rules shall be cited as IDAPA 07.02.06, "Rules Concerning Idaho State Plumbing Code," Division of Building Safety. (3-25-13)

02. Scope. These rules prescribe the use of the Idaho State Uniform Plumbing Code. (3-25-13)

002. WRITTEN INTERPRETATIONS.

This agency has no written interpretations of this chapter. (2-26-93)

003. ADMINISTRATIVE APPEALS.

This chapter does not provide for administrative relief of the provisions contained herein. (2-26-93)

004. -- 010. (RESERVED)

011. ADOPTION AND INCORPORATION BY REFERENCE OF THE IDAHO STATE PLUMBING CODE.

The Idaho State Plumbing Code published in 2012, including Appendices "A, B, D, E, I, and L," (herein ISPC) is adopted and incorporated by reference with amendments as prescribed by the Idaho Plumbing Board and contained in this Section. The Idaho State Plumbing Code is modeled after the 2009 Uniform Plumbing Code (UPC). The Idaho State Plumbing Code is available at the Division of Building Safety offices located at 1090 E. Watertower St., Suite 150, Meridian, Idaho 83642; 1250 Ironwood Dr., Ste. 220, Coeur d'Alene, Idaho 83814; and 2055 Garrett Way, Building 1, Suite 4, Pocatello, Idaho 83201. It may also be accessed electronically online at <http://dbs.idaho.gov/>. (3-25-13)

01. Section 218. Delete definition of "Plumbing System." Incorporate definition of "Plumbing System" as set forth in Section 54-2604, Idaho Code. (3-15-02)

02. Section 315.4. Add: Where unsuitable or soft material is encountered, excavate to a depth not less than two (2) pipe diameters below the pipe and replace with select backfill. Such backfill shall be sand, fine gravel, or stone and shall provide lateral support for the pipe. Where rock is encountered, the trench shall be excavated to a minimum depth of six (6) inches (152 mm) below the bottom of the pipe. Sand shall be added to provide uniform bedding and support for the pipe. The pipe shall not rest on any rock at any point, including joints. (3-25-13)

03. Section 316.1.6 Solvent Cement Plastic Pipe Joints. PVC DWV may be joined by the use of one-step solvent cement listed or labeled per U.P.C. Section 301.1.1. (3-25-13)

04. Section 402.4 Metered Faucets. Self-closing or self-closing metering faucets may be installed on lavatories intended to serve the transient public, such as those in, but not limited to, service stations, train stations, airports, restaurants, convention halls, and rest stops. Installed metered faucets shall deliver a maximum of zero point two six (0.26) gallons (one point zero (1.0) liter) of water per use. (3-25-13)

05. Section 411.8.1 Tests for Shower Receptors. Delete. (4-11-15)

06. Section 412.0 Minimum Number of Required Fixtures. Delete Section 412.0 and all subsections contained thereunder and replace with the following: (3-25-13)

a. 412.1 Fixture Count. Plumbing fixtures shall be provided for the type of building occupancy and in the minimum number shown in Table 412.1. The total occupant load and occupancy classification shall be determined in accordance with the building code. Occupancy classification not shown in Table 412.1 shall be considered separately by the Authority Having Jurisdiction. The minimum number of fixtures shall be calculated at fifty percent (50%) male and fifty percent (50%) female based on the total occupant load. Where information submitted indicates a difference in distribution of the sexes such information shall be used in order to determine the number of fixtures for each sex. Once the occupancy load and occupancy are determined, Table 412.1 shall be applied to determine the minimum number of plumbing fixtures required. Where applying the fixture ratios in Table 412.1 results in fractional numbers, such numbers shall be rounded to the next whole number. For multiple occupancies, fractional numbers shall be first summed and then rounded to the next whole number. (3-25-13)

b. 412.1.1 Family or Assisted-Use Toilet and Bathing Facilities. Where family or assisted-use toilet and bathing rooms are required, in applicable building regulations, the facilities shall be installed in accordance with those regulations. (3-25-13)

c. 412.2 Separate Facilities. Separate toilet facilities shall be provided for each sex, with the following exceptions: (3-25-13)

i. Residential installations. (3-25-13)

ii. In occupancies with a total occupant load of ten (10) or less, including customers and employees, one (1) toilet facility, designed for use by no more than one (1) person at a time, shall be permitted for use by both sexes. (3-25-13)

iii. In business and mercantile occupancies with a total occupant load of fifty (50) or less including customers and employees, one (1) toilet facility, designed for use by no more than one (1) person at a time, shall be permitted for use by both sexes. (3-25-13)

d. 412.3 Fixture Requirements for Special Occupancies. Additional fixtures shall be permitted to be required where unusual environmental conditions or referenced activities are encountered. In food preparation areas, fixture requirements shall be permitted to be dictated by health codes. (3-25-13)

e. 412.4 Toilet Facilities Serving Employees and Customers. Each building or structure shall be provided with toilet facilities for employees and customers. Requirements for customers and employees shall be permitted to be met with a single set of restrooms accessible to both groups. Required toilet facilities for employees and customers located in shopping malls or centers shall be permitted to be met by providing a centrally located toilet facility accessible to several stores. The maximum travel distance from entry to any store to the toilet facility shall not exceed three hundred (300) feet (91.4 m). Required toilet facilities for employees and customers in other than shopping malls or centers shall have a maximum travel distance not to exceed five hundred (500) feet (152.4 m). (3-25-13)

f. 412.4.1 Access to Toilet Facilities. In multi-story buildings, accessibility to the required toilet facilities shall not exceed one (1) vertical story. Access to the required toilet facilities for customers shall not pass through areas designated as for employee use only such as kitchens, food preparation areas, storage rooms, closets, or similar spaces. Toilet facilities accessible only to private offices shall not be counted to determine compliance with this section. (3-25-13)

g. 412.5 Toilet Facilities for Workers. Toilet facilities shall be provided and maintained in a sanitary condition for the use of workers during construction. (3-25-13)

07. **Table 4-1 Minimum Plumbing Facilities.** Delete Table 4-1 and replace with the following Table 412.1:

**TABLE 412.1
MINIMUM PLUMBING FACILITIES¹**

Each building shall be provided with sanitary facilities, including provisions for persons with disabilities as

prescribed by the Department Having Jurisdiction. Table 412.1 applies to new buildings, additions to a building, and changes of occupancy or type in an existing building resulting in increased occupant load.

TYPE OF OCCUPANCY ²	WATER CLOSETS (FIXTURES PER PERSON) ³		URINALS (FIXTURES PER PERSON)	LAVATORIES (FIXTURES PER PERSON)		BATHTUBS OR SHOWERS (FIXTURES PER PERSON)	DRINKING FOUNTAINS/FACILITIES (FIXTURES PER PERSON)	OTHER
	Male	Female	Male	Male	Female			
A-1 Assembly occupancy (fixed or permanent seating)- theatres, concert halls and auditoriums	Male 1: 1-100 2: 101-200 3: 201-400	Female 1: 1-25 2: 26-50 3: 51-100 4: 101-200 6: 201-300 8: 301-400	Male 1: 1-200 2: 201-300 3: 301-400 4: 401-600	Male 1: 1-200 2: 201-400 3: 401-600 4: 601-750	Female 1: 1-100 2: 101-200 4: 201-300 5: 301-500 6: 501-750		1: 1-250 2: 251-500 3: 501-750	1 service sink or laundry tray
	Over 400, add 1 fixture for each additional 500 males and 1 fixture for each additional 125 females.		Over 600, add 1 fixture for each additional 300 males.	Over 750, add 1 fixture for each additional 250 males and 1 fixture for each additional 200 females.		Over 750, add 1 fixture for each additional 250 persons.		
A-2 Assembly occupancy- restaurants, pubs, lounges, night clubs and banquet halls	Male 1: 1-50 2: 51-150 3: 151-300 4: 301-400	Female 1: 1-25 2: 26-50 3: 51-100 4: 101-200 6: 201-300 8: 301-400	Male 1: 1-200 2: 201-300 3: 301-400 4: 401-600	Male 1: 1-150 2: 151-200 3: 201-400	Female 1: 1-150 2: 151-200 4: 201-400		1: 1-250 2: 251-500 3: 501-750	1 service sink or laundry tray
	Over 400, add 1 fixture for each additional 250 males and 1 fixture for each 125 females.		Over 600, add 1 fixture for each additional 300 males.	Over 400 add 1 fixture for each additional 250 males and 1 fixture for each additional 200 females.		Over 750, add 1 fixture for each additional 500 persons.		
A-3 Assembly occupancy (typical without fixed or permanent seating)- arcades, places of worship, museums, libraries, lecture halls, gymnasiums (without spectator seating), indoor pools (without spectator seating)	Male 1: 1-100 2: 101-200 3: 201-400	Female 1: 1-25 2: 26-50 3: 51-100 4: 101-200 6: 201-300 8: 301-400	Male 1: 1-100 2: 101-200 3: 201-400 4: 401-600	Male 1: 1-200 2: 201-400 3: 401-600 4: 601-750	Female 1: 1-100 2: 101-200 4: 201-300 5: 301-500 6: 501-750		1: 1-250 2: 251-500 3: 501-750	1 service sink or laundry tray
	Over 400 add 1 fixture for each additional 500 males and 1 fixture for each additional 125 females.		Over 600, add 1 fixture for each additional 300 males.	Over 750, add 1 fixture for each additional 250 males and 1 fixture for each additional 200 females.		Over 750, add 1 fixture for each additional 500 persons.		

TYPE OF OCCUPANCY ²	WATER CLOSETS (FIXTURES PER PERSON) ³		URINALS (FIXTURES PER PERSON)	LAVATORIES (FIXTURES PER PERSON)		BATHTUBS OR SHOWERS (FIXTURES PER PERSON)	DRINKING FOUNTAINS/FACILITIES (FIXTURES PER PERSON)	OTHER
	Male	Female		Male	Female			
A-4 Assembly occupancy (indoor activities or sporting events with spectator seating)- swimming pools, skating rinks, arenas and gymnasiums	Male 1: 1-100 2: 101-200 3: 201-400	Female 1: 1-25 2: 26-50 3: 51-100 4: 101-200 6: 201-300 8: 301-400	Male 1: 1-100 2: 101-200 3: 201-400 4: 401-600	Male 1: 1-200 2: 201-400 3: 401-750	Female 1: 1-100 2: 101-200 4: 201-300 5: 301-500 6: 501-750		1: 1-250 2: 251-500 3: 501-750	1 service sink or laundry tray
	Over 400, add 1 fixture for each additional 500 males and 1 fixture for each additional 125 females.		Over 600, add 1 fixture for each additional 300 males.	Over 750, add 1 fixture for each additional 250 males and 1 fixture for each additional 200 females.		Over 750, add 1 fixture for each additional 500 persons.		
A-5 Assembly occupancy (outdoor activities or sporting events)- amusement parks, grandstands and stadiums	Male 1: 1-100 2: 101-200 3: 201-400	Female 1: 1-25 2: 26-50 3: 51-100 4: 101-200 6: 201-300 8: 301-400	Male 1: 1-100 2: 101-200 3: 201-400 4: 401-600	Male 1: 1-200 2: 201-400 3: 401-750	Female 1: 1-100 2: 101-200 4: 201-300 5: 301-500 6: 501-750		1: 1-250 2: 251-500 3: 501-750	1 service sink or laundry tray
	Over 400, add 1 fixture for each additional 500 males and 1 fixture for each additional 125 females.		Over 600, add 1 fixture for each additional 300 males.	Over 750, add 1 fixture for each additional 250 males and 1 fixture for each additional 200 females.		Over 750, add 1 fixture for each additional 500 persons.		
B Business occupancy (office, professional or service type transactions)- banks, vet clinics, hospitals, car wash, banks, beauty salons, ambulatory health care facilities, laundries and dry cleaning, educational institutions (above high school), or training facilities not located within school, post offices and printing shops	Male 1: 1-50 2: 51-100 3: 101-200 4: 201-400	Female 1: 1-15 2: 16-30 3: 31-50 4: 51-100 8: 101-200 11: 201-400	Male 1: 1-100 2: 101-200 3: 201-400 4: 401-600	Male 1: 1-75 2: 76-150 3: 151-200 4: 201-300 5: 301-400	Female 1: 1-50 2: 51-100 3: 101-150 4: 151-200 5: 201-300 6: 301-400		1 per 150	1 service sink or laundry tray
	Over 400, add 1 fixture for each additional 500 males and 1 fixture for each additional 150 females.		Over 600, add 1 fixture for each additional 300 males.	Over 400, add 1 fixture for each additional 250 males and 1 fixture for each additional 200 females.				
E Educational occupancy- private or public schools	Male 1 per 50	Female 1 per 30	Male 1 per 100	Male 1 per 40	Female 1 per 40		1 per 150	1 service sink or laundry tray

TYPE OF OCCUPANCY ²	WATER CLOSETS (FIXTURES PER PERSON) ³		URINALS (FIXTURES PER PERSON)	LAVATORIES (FIXTURES PER PERSON)		BATHTUBS OR SHOWERS (FIXTURES PER PERSON)	DRINKING FOUNTAINS/FACILITIES (FIXTURES PER PERSON)	OTHER
	Male	Female		Male	Female			
F1, F2 Factory or Industrial occupancy-fabricating or assembly work	Male 1: 1-50 2: 51-75 3: 76-100	Female 1: 1-50 2: 51-75 3: 76-100		Male 1: 1-50 2: 51-75 3: 76-100	Female 1: 1-50 2: 51-75 3: 76-100	1 shower for each 15 persons exposed to excessive heat or to skin contamination with poisonous, infectious or irritating material.	1: 1-250 2: 251-500 3: 501-750	1 service sink or laundry tray
	Over 100 add 1 fixture for each additional 40 persons.			Over 100 add 1 fixture for each additional 40 persons.			Over 750 add 1 fixture for each additional 500 persons.	
I-1 Institutional occupancy (houses more than 16 persons on a 24-hour basis)- substance abuse centers, assisted living, group homes, or residential facilities	Male 1 per 15	Female 1 per 15		Male 1 per 15	Female 1 per 15	1 per 8	1 per 150	1 service sink or laundry tray
I-2 Institutional occupancy-medical, psychiatric, surgical or nursing homes	Hospitals and nursing homes-individual rooms and ward room	1 per room		1 per room		1 per room	1 per 150	1 service sink or laundry tray
		1 per 8 patients		1 per 10 patients		1 per 20 patients		
	Hospital Waiting or Visitor Rooms	1 per room		1 per room			1 per room	
	Employee Use	Male 1: 1-15 2: 16-35 3: 36-55	Female 1: 1-15 3: 16-35 4: 36-55		Male 1 per 40	Female 1 per 40		
	Over 55, add 1 fixture for each additional 40 persons.							

TYPE OF OCCUPANCY ²		WATER CLOSETS (FIXTURES PER PERSON) ³		URINALS (FIXTURES PER PERSON)	LAVATORIES (FIXTURES PER PERSON)		BATHTUBS OR SHOWERS (FIXTURES PER PERSON)	DRINKING FOUNTAINS/FACILITIES (FIXTURES PER PERSON)	OTHER
I-3 Institutional occupancy (houses more than 5 people)	Prisons	1 per cell			1 per cell		1 per 20	1 per cell block/floor	
	Correctional facilities or juvenile center	1 per 8			1 per 10		1 per 8	1 per floor	1 service sink or laundry tray
	Employee Use	Male 1: 1-15 2: 16-35 3: 36-55	Female 1: 1-15 3: 16-35 4: 36-55		Male 1 per 40	Female 1 per 40		1 per 150	
		Over 55, add 1 fixture for each additional 40 persons.							
I-4 Institutional occupancy (any age that receives care for less than 24 hours)		Male 1: 1-15 2: 16-35 3: 36-55	Female 1: 1-15 3: 16-35 4: 36-55		Male 1 per 40	Female 1 per 40		1 per 150	1 service sink or laundry tray
		Over 55, add 1 fixture for each additional 40 persons.							
M Mercantile occupancy (the sale of merchandise and accessible to the public)		Male 1: 1-100 2: 101-200 3: 201-400	Female 1: 1-100 2: 101-200 4: 201-300 6: 301-400	Male 0: 1-200 1: 201-400	Male 1: 1-200 2: 201-400	Female 1: 1-200 2: 201-300 3: 301-400		1: 1-250 2: 251-500 3: 501-750	1 service sink or laundry tray
		Over 400 add 1 fixture for each additional 500 males and 1 fixture for each 200 females.		Over 400 add 1 fixture for each additional 500 males.	Over 400 add 1 fixture for each additional 500 males and 1 fixture for each 400 females.			Over 750 add 1 fixture for each additional 500 persons.	
R-1 Residential occupancy (minimal stay)- hotels, motels, bed and breakfast homes		1 per sleeping room			1 per sleeping room		1 per sleeping room		1 service sink or laundry tray

TYPE OF OCCUPANCY ²		WATER CLOSETS (FIXTURES PER PERSON) ³		URINALS (FIXTURES PER PERSON)	LAVATORIES (FIXTURES PER PERSON)		BATHTUBS OR SHOWERS (FIXTURES PER PERSON)	DRINKING FOUNTAINS/FACILITIES (FIXTURES PER PERSON)	OTHER
		Male	Female		Male	Female			
R-2 Residential occupancy (long-term or permanent)	Dormitories	Male 1 per 10	Female 1 per 8	1 per 25	Male 1 per 12	Female 1 per 12	1 per 8	1 per 150	1 service sink or laundry tray
		Add 1 fixture for each additional 25 males and 1 fixture for each additional 20 females.		Over 150, add 1 fixture for each additional 50 males.	Add 1 fixture for each additional 20 males and 1 fixture for each additional 15 females.				
	Employee Use	Male 1: 1-15 2: 16-35 3: 36-55	Female 1: 1-15 3: 16-35 4: 36-55		Male 1 per 40	Female 1 per 40			
	Apartment house/unit	1 per apartment			1 per apartment		1 per apartment		1 kitchen sink per apartment. 1 laundry tray or 1 automatic clothes washer connection per unit or 1 laundry tray or 1 automatic clothes washer connection for each 12 units
R-3 Residential occupancy (long-term or permanent in nature) for more than 5 but does not exceed 16 occupants)		Male 1 per 10	Female 1 per 8		Male 1 per 12	Female 1 per 12	1 per 8	1 per 150	1 service sink or laundry tray
		Add 1 fixture for each additional 25 males and 1 fixture for each additional 20 females.			Add 1 fixture for each additional 20 males and 1 fixture for each additional 15 females.				

TYPE OF OCCUPANCY ²	WATER CLOSETS (FIXTURES PER PERSON) ³		URINALS (FIXTURES PER PERSON)	LAVATORIES (FIXTURES PER PERSON)		BATHTUBS OR SHOWERS (FIXTURES PER PERSON)	DRINKING FOUNTAINS/FACILITIES (FIXTURES PER PERSON)	OTHER
	Male	Female		Male	Female			
R-3 Residential occupancy (one and two family dwellings)	1 per one and two family dwelling			1 per one and two family dwelling		1 per one and two family dwelling		1 kitchen sink and 1 automatic clothes washer connection per one and two family dwelling
R-4 Residential occupancy (residential care or assisted living)	Male 1 per 10	Female 1 per 8		Male 1 per 12	Female 1 per 12	1 per 8	1 per 150	1 service sink or laundry tray
	Add 1 fixture for each additional 25 males and 1 fixture for each additional 20 females.		Add 1 fixture for each additional 20 males and 1 fixture for each additional 15 females.					
S-1, S-2 Storage occupancy-storage of goods, warehouse, aircraft hanger, food products, appliances	Male 1: 1-100 2: 101-200 3: 201-400	Female 1: 1-100 2: 101-200 3: 201-400		Male 1: 1-200 2: 201-400 3: 401-750	Female 1: 1-200 2: 201-400 3: 401-750	1 per 8	1: 1-250 2: 251-500 3: 501-750	1 service sink or laundry tray
	Over 400, add 1 fixture for each additional 500 males and 1 fixture for each additional 150 females.		Over 750, add 1 fixture for each additional 500 persons.		Over 750, add 1 fixture for each additional 500 persons.			

Notes:

- ¹ The figures shown are based upon one fixture being the minimum required for the number of persons indicated or any fraction thereof.
- ² A restaurant is defined as a business that sells food to be consumed on the premises.
 - a. The number of occupants for a drive-in restaurant shall be considered as equal to the number of parking stalls.
 - b. Hand-washing facilities shall be available in the kitchen for employees.
- ³ The total number of required water closets for females shall be not less than the total number of required water closets and urinals for males.

(3-25-13)

- 08. Section 414.5 Limitation of Hot Water in Bathtubs and Whirlpool Bathtubs.** Delete. (4-11-15)
- 09. Section 418.0.** Pressure balance or thermostatic mixing valves are not required for high flow (over eight (8) g.p.m.) tub filler valves with hand shower sets attached. (3-25-13)
- 10. Section 504.1 Inspection of Chimneys or Vents.** Add the following to the end of section 504.1: Water heating appliances using Category 3 or 4 exhaust venting shall be tested in its entirety with five (5) pounds of air for fifteen (15) minutes. Plastic vents shall be constructed using manufacturer's instructions. (3-25-13)
- 11. Section 508.2.** Delete. (4-11-15)
- 12. Section 508.14 Installation in Residential Garages.** Replace 508.14 (1) with the following: Any plumbing appliance or appurtenance in residential garages and in adjacent spaces that open to the garage and are not

part of the living space of a dwelling unit shall be installed so that burners, burner-ignition devices or other sources of ignition are located not less than eighteen (18) inches (450 mm) above the floor unless listed as flammable vapor ignition resistant. (3-25-13)

13. Section 603.4.16.5 Residential Sprinkler System. Add the following to the end of section 603.4.16.5: and the requirements of the Authority Having Jurisdiction (AHJ). (3-25-13)

14. Table 6-4 Materials for Building Supply and Water Distribution Pipings and Fittings. Add the following to Table 6-4:

Material	Building Supply Pipe & Fittings	Water Distribution Pipe & Fittings	Referenced Standard(s) Pipe	Referenced Standard(s) Fittings
PE-RT (Polyethylene of Raised Temperature)	X	X	ASTM F2769	ASTM F1807, ASTM F2098, ASTM F2159, ASTM F2735, ASTM F2769
PP (Polypropylene)	X	X	ASTM F 2389	ASTM F2389, CSA B137.11

(4-11-15)

15. Section 606. Joints and Connections. Add the following at the end of Section 606: (4-11-15)

a. Section 606.3 Polyethylene of Raised Temperature (PE-RT). Polyethylene of Raised Temperature (PE-RT) tubing shall be marked with the appropriate standard designation(s) listed in Table 6-4 for which the tubing has been approved. PE-RT tubing shall be installed in accordance with the manufacturer’s installation instructions. Fittings, metal insert fittings, metal compression fittings and plastic fittings shall be manufactured to and marked in accordance with the standards for fittings in Table 6-4. (4-11-15)

b. Section 606.4 Polypropylene (PP) Piping and Joints. Polypropylene pipe and fittings shall be installed in accordance with the manufacturer’s installation instructions. (4-11-15)

c. Section 606.4.1 Heat Fusion Joints. Heat fusion joints for PP pipe and fitting joints shall be installed with socket-heat fused polypropylene fittings, fusion outlets, butt fusion polypropylene fittings or pipe, or electro-fusion polypropylene fittings. Joint surfaces shall be clean and free from moisture. The joint shall be undisturbed until cool. Joints shall be made in accordance with ASTM F 2389 or CSA B137.11. (4-11-15)

d. Section 606.4.2 Mechanical and Compression Sleeve Joints. Mechanical and compression sleeve joints shall be installed in accordance with the manufacturer’s installation instructions. (4-11-15)

e. Section 606.4.3 Threaded Joints. PP pipe shall not be threaded. PP transition fittings for connection to other piping materials shall only be threaded by use of brass or stainless steel inserts molded in the fitting. (4-11-15)

f. Section 606.5 Listed Polyethylene (PE). Listed PE (polyethylene), one hundred sixty (160) psi minimum, water service and yard piping may be installed within a building (above ground and below ground) with one (1) joint, provided that only listed and approved metallic transition fittings shall be used. Polyethylene (PE) plastic pipe or tubing and fitting joining methods shall be installed in accordance with the manufacturer’s installation instructions. Mechanical joints between PE pipe or tubing and fittings shall include inserts and mechanical compression fittings that provide a pressure seal resistance to pullout. Joints for insert fittings shall be made by cutting the pipe square, using a cutter designed for plastic piping, and removal of sharp edges. Two (2) stainless steel clamps shall be placed over the end of the pipe. Fittings shall be checked for proper size based on the diameter of the pipe. The end of pipe shall be placed over the barbed insert fitting, making contact with the fitting shoulder. Clamps

shall be positioned equal to one hundred eighty (180) degrees (three point one four - 3.14 rad) apart and shall be tightened to provide a leak tight joint. Compression type couplings and fittings shall be permitted for use in joining PE piping and tubing. Stiffeners that extend beyond the clamp or nut shall be prohibited. Bends shall be not less than thirty (30) pipe diameters, or the coil radius where bending with the coil. Bends shall not be permitted closer than ten (10) pipe diameters of a fitting or valve. Mechanical joints shall be designed for their intended use. (4-11-15)

16. **Section 609.1 Installation.** Delete the following sentence: Water service yard piping shall be not less than twelve (12) inches (305 mm) below the average local frost depth; and replace it with the following: The cover shall be not less than forty-two (42) inches (1068mm) below grade. (3-25-13)

17. **Section 609.4 Testing.** Testing. Deleting the phrase “Except for plastic piping,” at the beginning of the third sentence and add the following sentence at the end of the section: Plastic piping is to be tested in accordance with manufacturer’s installation standards. (3-25-13)

18. **Section 609.10 Water Hammer.** Does not apply to residential construction. (3-25-13)

19. **Table 6-5 and Appendix Table A-2.** Change fixture unit loading value for both public and private for bathtub or combination bath/shower, and clothes washers to two (2) fixture units. (3-25-13)

20. **Section 610.2.** Add the following: All new one (1) and two (2) family residences built slab on grade or that will have a finished basement at the time of final inspection must have a pre-plumbed water softener loop. The kitchen sink must have one (1) hot soft line and one (1) cold soft line and one (1) cold hard line. Exterior cold hose bibbs intended for irrigation purposes must be piped with hard water. (3-25-13)

21. **Table 6-8 Sizing of Residential Softeners.** Amend Footnote 3 to read: Over four (4) bathroom groups, softeners shall be sized according to the manufacturer’s standards. (3-25-13)

22. **Table 7-1 Materials for Drain, Waste, Vent Pipe and Fittings.** Add the following to Table 7-1:

Material	Underground Drain, Waste, Vent Pipe and Fittings	Above ground Drain, Waste, Vent Pipe and Fittings	Building Sewer Pipe & Fittings	Referenced Standard(s) Pipe	Referenced Standard(s) Fittings
PE (Polyethylene)			X ²	ASTM F714	ASTM D2683, ASTM D3261, ASTM F1055, ASTM F2206

²PE piping and fittings used for building sewers shall be installed per manufactures installation instructions and IS 26-2006 Idaho State Plumbing Code. (4-11-15)

23. **Table 7-3 Drainage Fixture Unit Valves (DFU).** Change fixture unit loading value for clothes washers, domestic for private to two (2) fixture units. (3-25-13)

24. **Section 703.1.** Add the following at the end of section 703.1: No portion of the drainage or vent system installed underground, underground under concrete or below a basement or cellar shall be less than two (2) inches in diameter. (3-25-13)

25. **Section 703.2 and 710.5. Add Exception.** In single family dwellings, one (1) fixture unit may be allowed for each gallon per minute of flow from a pump or a sump ejector. (3-15-02)

26. **Section 704.2.** Two inch (2”) and smaller double sanitary tees may be used for back to back or side by side fixture trap arms without increasing the barrel size. (4-6-05)

27. **Section 704.3.** Delete. (5-3-03)

28. **Table 7-5.** Change fixture unit loading value for one and a half (1 1/2) inch horizontal drainage to two (2) fixture units. (7-1-98)
29. **Section 707.0 Cleanouts.** Add the following: A clean out shall be installed for double sanitary tees two (2) inches (50 mm) or less in diameter that receive the discharge from fixture connections. Exception in Section 707.4 shall not apply. (3-25-13)
30. **Section 707.4 Cleanouts.** A full-sized accessible cleanout shall be installed in the vertical immediately above the floor or at the base of each waste or soil stack. A full-size cleanout extending to or above finished grade line shall be installed at the junction of the building drain and the building sewer (ref.: Section 719.1). Cleanouts shall be installed at fifty (50) foot intervals in horizontal drain lines two (2) inches or smaller. (3-15-02)
31. **Section 710.9.** Add: Exception: One (1) pump shall be permitted for “public use” occupancies provided that such tank receives the discharge of not more than one (1) water closet and ten (10) fixture units. (3-25-13)
32. **Section 712.1 Media.** In the first sentence, delete the phrase “except that plastic pipe shall not be tested with air.” (3-25-13)
33. **Section 717.0 Size of Building Sewers.** Add the following to the end of section 717.0: Exception: The building drain and building sewer is not less than four (4) inches extending from its connection with the city or private sewer system and shall run full size to inside the foundation or building lines. (3-25-13)
34. **Section 801.2.3.** Add: Food preparation sinks, pot sinks, scullery sinks, dishwashing sinks, silverware sinks, commercial dishwashing machines, silverware-washing machines, steam kettles, potato peelers, ice cream dipper wells, and other similar equipment and fixtures must be indirectly connected to the drainage system by means of an air gap. The piping from the equipment to the receptor must not be smaller than the drain on the unit, but it must not be smaller than one (1) inch (twenty-five and four tenths (25.4) mm). (5-3-03)
35. **Section 801.4. Connections from Water Distribution System.** Provisions must be made for the discharge of the water softener to terminate in an approved location. The drain line for a water softener must be three-fourths (3/4) inch minimum. A washer box with a dual outlet is an approved location as long as it is on the same floor or one (1) floor below the softener unit and the water softener drain line is a minimum three-fourths (3/4) inch. (3-25-13)
36. **Section 807.4.** A domestic dishwashing machine may be installed without the use of an airgap if the drain hose is looped to the bottom side of the counter top and secured properly. (3-15-02)
37. **Section 906.1.** Delete the existing provision and replace with the following: (4-2-08)
- a. Roof venting. When conventional roof venting is utilized, each vent pipe or stack shall extend through its flashing and shall terminate vertically not less than six (6) inches (one hundred fifty-two (152) mm) above the roof nor less than one (1) foot (three hundred five (305) mm) from any vertical surface. (4-2-08)
- b. Sidewall venting. When sidewall venting is utilized, the vent shall extend flush with the eaves/gable end, shall turn down using a ninety (90) degree ell, and shall terminate as close to the roof peak as possible. The vent end must be properly screened. Sidewall venting is acceptable on new or remodel construction on cabins, log homes, and residential or commercial buildings. (4-2-08)
- c. Sidewall venting must meet the intent of Section 906.2 of the ISPC. (3-25-13)
38. **Section 908. Exception - Vertical Wet Venting.** A horizontal wet vent may be created provided it is created in a vertical position and all other requirements of Section 908 of the ISPC are met. (3-25-13)
39. **Section 909.0.** Add: Parameters for the limited use of Air Admittance Valves (A.A.V.). (4-2-08)

- a. An A.A.V. may be used only in residential buildings. (4-2-08)
- b. In remodels, an A.A.V. may be used with island fixtures or remotely located sinks such as in bar, kitchen, or laundry tray locations. An A.A.V. shall not be used in bathroom groups. (4-2-08)
- c. In new construction, an A.A.V. may be used on island fixture sinks. (4-2-08)
- d. Each A.A.V. may be used to vent only one (1) floor. (4-2-08)
- e. Each A.A.V. must be readily accessible. (4-2-08)
- f. The cross-sectional area of venting must remain the same and must meet the largest required building drain. (4-2-08)
- g. An A.A.V. shall only be installed in accordance with the manufacturer's installation standards as per ASSE 1051. (4-2-08)
- h. An A.A.V. may not be used in an attic, crawl space, outside installation, or in connection with chemical or acid waste systems. (4-2-08)
- 40. Section 1002.3.** Trap arms may not exceed one hundred eighty (180) degrees of horizontal turn without the use of a cleanout. (3-15-02)
- 41. Section 1007.0 Trap Seal Protection.** Delete section 1007.0 and replace with the following: Floor drains or similar traps directly connected to the drainage system and subject to infrequent use shall be protected with a trap seal primer or other approved trap seal protection device, except where not deemed necessary for safety or sanitation by the Authority Having Jurisdiction. Trap seal primers shall be accessible for maintenance. (3-25-13)
- 42. Section 1016.1 Where Required.** Add the following to the end of section 1016.1: Floor drains installed in residential garages shall be permitted to use the interceptor as the fixture trap. (3-25-13)
- 43. 1601.0 Gray Water Systems - General.** Add to this section the following paragraph: (G) Plumbing for a gray water system from any fixture up to, but not to include the exterior irrigation system tank shall be inspected by the Authority Having Jurisdiction. The Idaho Department of Environmental Quality (IDEQ) shall have jurisdiction to inspect and approve the installation of the exterior irrigation system tank and all piping therefrom to the point of disposal in accordance with IDAPA 58.01.03, "Individual/Subsurface Sewage Disposal Rules." Gray water system location and design criteria requirements related to irrigation and leaching shall be determined in accordance with the requirements as established by the IDEQ. (3-25-13)
- 012. -- 999. (RESERVED)**

Subject Index

A

Adoption And Incorporation By
Reference Of The Idaho State
Plumbing Code 2

APPROVED