

24.39.20 – RULES GOVERNING PLUMBING

000. LEGAL AUTHORITY.

The rules are promulgated pursuant to Section 54-2601, 54-2605, 54-2606, 54-2607, 54-2617, 54-2624, 67-2604, 67-2614, 67-9406 and 67-9409, Idaho Code. ()

001. SCOPE.

The rules prescribe criteria and fees for issuance of certificates of competency, plumbing permits, and inspections of plumbing installations, civil penalties, and adoption and amendment of the Idaho State Plumbing Code. ()

002. DEFINITIONS.

01. Fixture. Any water using or waste producing unit attached to the plumbing system, including sewers, water treatment equipment, solar systems, sprinkler systems, hot tubs and spas. ()

003. -- 099. (RESERVED)

100. CERTIFICATES OF COMPETENCY AND REGISTRATION.

01. Apprentice Registration and Renewal. To register or renew an apprentice registration, a person shall complete an application and pay all associated fees. ()

02. Journeyman Certificate of Competency. An applicant must pass an examination designated by the Board and either (a) submit evidence of a minimum of eight thousand (8,000) hours of work experience as an apprentice making plumbing installations in accordance with the requirements of the jurisdiction in which the applicant obtained the experience and satisfactory completion of 576 hours of a board-approved course of instruction, or (b) submit proof of sixteen thousand (16,000) hours of plumbing experience in accordance with the requirements of the jurisdiction in which the applicant obtained the experience. Pipe fitting and appliance plumbing specialty work will not count towards the experience qualifications for a journeyman's certificate of competency. ()

a. Examination. An applicant may sit for the exam after showing proof of completion of either 576 hours of board-approved course of instruction or 16,000 hours of plumbing experience. ()

03. Contractor and Specialty Contractor Certificate of Competency. An applicant must hold a journeyman certificate of competency for a contractor certificate or relevant specialty journeyman certificate for a specialty contractor certificate, successfully pass an examination designated by the Board, and provide a compliance bond in the amount of two thousand dollars (\$2,000). Any such bond is required to be effective for the duration of the certificate period and proof of renewal of the compliance bond is required to renew or revive a certificate. The specialty contractor's scope of work is limited as set forth in Rule 100.04.c or Rule 100.04.e. ()

a. Restrictive Use of Contractor Certificate. A contractor or specialty contractor can only represent one person or entity as stated on an original or renewal license application. In the event the representation changes or ends for any reason, the contractor or specialty contractor must immediately notify the Division in writing. Failure to provide such notification constitutes improper transferring of a license. ()

04. Specialty Apprentice Registration and Specialty Journeyman Certificates of Competency. ()

a. Specialty Apprentice must maintain state registration and be employed by a licensed contractor. ()

b. Appliance Specialty Journeyman. An applicant must pass an examination designated by the Board and either (a) submit evidence of a minimum of three thousand (3,000) hours apprentice on-the-job specialty-related experience and satisfactory completion of 72 hours of board-approved specialty-related training classes or (b) submit evidence of a minimum of six thousand (6,000) hours of specialty-related work experience in accordance with the requirements of the jurisdiction in which the applicant obtained the experience. ()

c. Appliance Specialty Permitted Scope of Work. Permitted, in one-family and two-family residences only, to disconnect, cap, remove, and reinstall within sixty (60) inches of original location: water heating appliance; water treating or filtering devices; air or space temperature modifying equipment which involves potable water; humidifier; temperature and pressure relief valves; condensate drains; and indirect drains. Does not include installation, testing, or certifying of backflow prevention devices. Does not include any modification to the drain, waste or vent systems. Must comply with all Idaho plumbing laws and rules and the requirements of the Uniform

Plumbing Code. ()

d. Water Pump Specialty Journeyman. An applicant must pass an examination designated by the Board and submit evidence of a minimum of three thousand (3,000) hours of specialty-related work experience in accordance with the requirements of the jurisdiction in which the applicant obtained the experience. ()

e. Water Pump Specialty Permitted Scope of Work. Permitted to install and connect water service piping from pump to storage expansion pressure tank in one (1) and two (2) family residences only. Does not include installation, testing or certifying of backflow prevention devices. Must comply with all Idaho plumbing laws and rules and the requirements of the Uniform Plumbing Code. ()

101. -- 299. (RESERVED)

300. CIVIL PENALTIES.

The acts described in this section subject the violator to a civil penalty not to exceed one thousand dollars (\$1,000) for each separate count or offense. ()

01. Statute or Rule. Failure to comply with any provision of Chapter 26, Title 54, Idaho Code or Board Rule. ()

02. Certification or Registration. Except as provided by Section 54-2602, Idaho Code, performance of plumbing without an active certificate of competency or registration as required by Idaho Code 54-2611. ()

03. Performance Outside Scope. Performance of any plumbing installation, alteration, or maintenance by a specialty contractor or specialty journeyman outside the scope of the specialty certificate of competency. ()

04. Employees. Knowing employment of a person who does not hold an active certificate of competency or registration as required by Idaho Code 54-2611 to perform plumbing. ()

05. Supervision. Working as an apprentice or specialty apprentice without the required journeyman supervision or employing an apprentice without providing the required journeyman supervision. ()

06. Fees, Permits, and Inspections. Failure to obtain a required permit, pay applicable fees, properly post a permit, or request an inspection of all pipes, fittings, valves, vents, fixtures, appliances, appurtenances, and water treatment installations or repairs. ()

07. Corrections. Failure to make corrections in the time allotted in the notice on any plumbing installation. ()

08. Misrepresentation of Fees. Misrepresentation of the permit or inspection fees to the customer. ()

09. Advertising. Advertising to engage in the business, trade, practice, or work of a plumbing contractor as defined in Section 54-2611, Idaho Code, without holding a current and valid plumbing contractor certificate of competency issued by the Division or advertising without including the contractor certificate of competency number in the advertisement. Advertising includes, but is not limited to: newspaper, telephone directory, community flier ads or notices; telephone, television, radio, internet, or door-to-door solicitations. ()

10. Order. Failure to comply with any lawful order of the Board or Division administrator. ()

301. -- 499. (RESERVED)

500. PERMITS AND INSPECTIONS.

01. Permits. ()

a. Permits will be furnished to a plumbing contractor upon submission of a complete application and proper permit fee. For commercial or industrial plumbing, a verified copy of bid acceptance must be submitted with the application. Permit serial numbers must be registered in the name of the plumbing contractor and are transferable only as provided herein these rules. ()

b. Homeowners making plumbing installations on their own premises under the provisions of Section 54-2602(1)(a), Idaho Code, must secure a plumbing permit by making application to the Division as provided by Section 54-2620, Idaho Code. ()

c. Expiration. Every permit issued shall expire and become null and void after three hundred sixty-five (365) days from the purchase date or last inspection. A permit may be renewed for an additional year upon receipt of Division approval and payment of a sixty-five dollar (\$65) renewal fee. ()

d. Transferring a Permit. A plumbing permit may be transferred to another eligible party if such party provides to the Division written authorization signed and notarized by the original permit holder consenting to the transfer itself and assigning all responsibilities and conditions incorporated into the original permit issuance. A permit may be transferred to the owner of the property on which the plumbing work is to be performed and for which the permit was issued or such owner’s designated legal agent in cases where the property owner has terminated his legal relationship with the plumbing contractor who originally obtained the permit. An administrative fee in the amount of forty-five dollars (\$45) for the transfer of a permit must be paid to the Division. ()

02. Permit Fee Schedule. ()

a. New Residential. Includes all buildings with plumbing systems being constructed on each property. The following fees shall apply to new residential construction:

| One-and two-Family Dwelling Units | |
|-----------------------------------|--|
| Square Feet | Fee |
| Up to 1,500 | - \$130 |
| 1,501 to 2,500 | - \$195 |
| 2,501 to 3,500 | - \$260 |
| 3,501 to 4,500 | - \$325 |
| Over 4,500 | - \$325 plus \$65 for each additional 1,000 square feet or portion thereof |

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b. Miscellaneous. The following fees shall apply for the types of permits listed:

| Type | Fee |
|----------------------|--|
| Existing residential | \$65 per inspection plus \$10 for each additional fixture |
| Requested inspection | \$65 per hour or portion thereof plus costs of out-of-state travel |
| Technical service | \$65 per hour or portion thereof |
| Plan check | |

| Type | Fee |
|--|---|
| Mobile home, manufactured home, or recreational vehicle park | Calculated under Subsection 500.02.c. of these rules |
| Sewer or water service line - nonresidential (new construction, installations, and replacements) | |
| Reclaimed water system | |
| Lawn sprinkler system - nonresidential | |
| Lawn sprinkler system - residential | \$65 per inspection |
| Sewer or water service line - residential (new construction, installations, and replacements) | |
| Mobile or manufactured home | |
| Modular building | |
| Multipurpose residential fire sprinkler | \$65 or \$4 per fire sprinkler head, whichever is greater |
| Gray water system | \$130 per inspection |

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c. Other Installations Including Multifamily, Industrial and Commercial. The following fees shall apply to multifamily, industrial, and commercial installations and installations not specifically mentioned elsewhere in this Fee Schedule. The plumbing system cost is the cost to the owner of labor charges and other costs incurred to complete the installation of equipment and materials installed as part of the plumbing system. All fees calculated under this Subsection must be based on the total plumbing system cost, which must be listed on the permit.

| Plumbing System Cost | Fee |
|-----------------------|--|
| Up to \$10,000 | - \$60 plus 2% of plumbing system cost |
| \$10,000 to \$100,000 | - \$260 plus 1% of plumbing system cost exceeding \$10,000 |
| Over \$100,000 | - \$1,160 plus .5% of plumbing system cost exceeding \$100,000 |

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d. Additional Fees. A fee of sixty-five dollars (\$65) per hour or portion thereof shall apply to trips to inspect when the permit holder has given notice to Division that the work is ready for inspection and it is not; if the permit holder has not accurately identified the work location; if the inspector cannot gain access to make the inspection; if corrections are required by the inspector as a result of the permit holder improperly responding to a corrective notice; or when corrections have not been made in the prescribed time, unless an extension has been requested and granted.

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03. Required Inspections.

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a. Ground Work Inspection Tags. For groundwork to be covered, with acceptance by the inspector. A tag will be attached in a prominent location, preferably to a vertical riser.

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b. Rough-In Inspection Tags. For rough-in, prior to covering or concealing, with acceptance by the inspector. A tag will be placed in a prominent location.

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c. Final Inspection Tags. For final, attached when the plumbing as specified on the permit is complete

and conforms to the requirements of the code and rules. ()

d. Inspection Tags for Unacceptable Plumbing. “Notice of Correction” inspection tags are attached to indicate the plumbing installation is not acceptable and corrections are required. A reinspection and reinspection fee for such installations shall be required. ()

501. -- 599. (RESERVED)

600. IDAHO STATE PLUMBING CODE.

Pursuant to Section 54-2601, Idaho Code, the Board adopts, as the Idaho State Plumbing Code (ISPC), the 2015 Uniform Plumbing Code, including Appendices A, B, C, D, E, G, I, J, K and L, with the following amendments: ()

01. Section 105.3 Testing of Systems. ()

a. Delete and replace the following: Plumbing systems must be tested and approved in accordance with this code or the Authority Having Jurisdiction. Tests may be conducted in the presence of the Authority Having Jurisdiction or the Authority Having Jurisdiction’s duly appointed representative. ()

b. No test or inspection is required where a plumbing system, or part thereof, is set up for exhibition purposes and has no connection with a water or drainage system. In cases where it would be impractical to provide the required water or air tests, or the presences of the Authority Having Jurisdiction, or for minor installations and repairs, the Authority Having Jurisdiction, in accordance with procedures established thereby, is permitted to make such inspection as deemed advisable in accordance with the intent of this code. Joints and connections in the plumbing system must be gastight and watertight for the pressures required by the test. ()

02. Section 218 Definitions. Delete definition of “Plumbing System.” Incorporate definition of “Plumbing System” as set forth in Section 54-2604, Idaho Code. ()

03. Section 401.2 Qualities of Fixtures. Replace with the following: Plumbing fixtures must be constructed of dense, durable, non-absorbent materials and must have smooth, impervious surfaces, free from unnecessary concealed fouling surfaces. ()

04. Section 403.3 Exposed Pipes and Surfaces. Delete. ()

05. Section 408.5 Finished Curb or Threshold. Delete the last sentences of the first paragraph and replace with the following: The finished floor of the receptor must slope uniformly from the sides toward the drain not less than one-eighth (1/8) inch per foot (20.8 mm/m), nor more than one-half (1/2) inch per foot (41.8 mm/m). ()

06. Section 408.7.5 Tests for Shower Receptors. Delete. ()

07. Section 409.4 Limitation of Hot Water in Bathtubs and Whirlpool Bathtubs. Delete. ()

08. Table 501.1(1) First Hour Rating. Delete Table 501.1(1). ()

09. Section 503.1 Inspection of Chimneys or Vents. Add the following to the end of section 503.1: Water heating appliances using Category 3 or 4 exhaust venting must be tested in its entirety with five (5) pounds of air for fifteen (15) minutes. Plastic vents must be constructed using manufacturer’s instructions. ()

10. Section 507.2 Seismic Provisions. Delete. ()

11. Section 507.13 Installation in Garages. Replace 507.13 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 must 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. ()

12. **Section 603.2 Approval of Devices or Assemblies.** Delete last paragraph. ()
13. **Table 603.2 Backflow Prevention Devices, Assemblies and Methods.** ()
- a. Delete from the table the entire row related to freeze resistant sanitary yard hydrant devices. ()
- b. Delete the backflow preventer for Carbonated Beverage Dispensers text from the first column of the table and replace with the following: Backflow preventer for Carbonated Beverage Dispensers (Reduced Pressure Principle Backflow Prevention Assembly). ()
14. **Section 603.4.2 Testing.** Delete last sentence. ()
15. **Section 603.5.7 Outlets with Hose Attachments.** Delete and replace with the following: Potable water outlets with hose attachments, other than water heater drains, boiler drains, freeze resistant yard hydrants and clothes washer connections, must be protected by a nonremovable hose bibb-type backflow preventer, a nonremovable hose bibb-type vacuum breaker, or by an atmospheric vacuum breaker installed not less than six (6) inches (one hundred fifty-two (152) mm) above the highest point of usage located on the discharge side of the last valve. In climates where freezing temperatures occur, a listed self-draining frost-proof hose bibb with an integral backflow preventer or vacuum breaker must be used. ()
16. **Section 603.5.12 Beverage Dispensers.** Delete and replace with the following: Potable water supply to, carbonated beverage dispensers must be protected by an air gap or a Reduced Pressure Principle Backflow Prevention Assembly in accordance with ASSE 1013. For carbonated beverage dispensers, piping material installed downstream of the backflow preventer must not be affected by carbon dioxide gas. Potable water supply to beverage dispensers and coffee machines must be protected by an air gap or a vented backflow preventer in accordance with ASSE 1022. ()
17. **Section 603.5.17 Potable Water Outlets and Valves.** Delete. ()
18. **Section 603.5.21 Chemical Dispensers.** Add the following new section 603.5.21: The water supply to chemical dispensers must be protected against backflow. The chemical dispenser must comply with ASSE 1055 or the water supply must be protected by one of the following methods: ()
- a. Air gap; ()
- b. Atmospheric vacuum breaker (AVB); ()
- c. Pressure vacuum breaker backflow prevention assembly (PVB); ()
- d. Spill-resistant pressure vacuum breaker (SVB); or ()
- e. Reduced-pressure principle backflow prevention assembly (RP). ()
19. **Section 604.10.1 Tracer Wire.** Add the following exception: Where the electrical wiring for the pump is installed in the same trench as the water line, from the point of origin to the structure, a tracer wire is not required. ()
20. **Section 605.6.2 Mechanical Joints.** Add to the end of the section the following: 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 must be used. Polyethylene (PE) plastic pipe or tubing and fitting joining methods must be installed in accordance with the manufacturer’s installation instructions. ()
21. **Section 609.1 Installation.** Delete the following sentence: Building supply yard piping must be not less than twelve (12) inches (305 mm) below the average local frost depth; and replace it with the following: The

cover must be not less than forty-two (42) inches (1068mm) below grade. ()

22. Section 609.4 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. ()

23. Section 609.10 Water Hammer. Does not apply to residential construction. ()

24. Section 609.11 Pipe Insulation. Delete. ()

25. Table 610.3 and Appendix Table A 103.1. Change fixture unit loading value for both public and private for bathtub or combination bath/shower, and clothes washers to two (2) fixture units. ()

26. Section 610.2 Pressure Loss. 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. ()

27. Table 611.4 Sizing of Residential Softeners. Amend Footnote 3 to read: Over four (4) bathroom groups, softeners must be sized according to the manufacturer’s standards. ()

28. Section 612.0 Residential Sprinkler System. Add the following to the end of the first sentence in section 612.1: and the requirements of the Authority Having Jurisdiction (AHJ). ()

29. Table 702.1 Drainage Fixture Unit Values (DFU). Change fixture unit loading value for clothes washers, domestic for private to two (2) fixture units. ()

30. Section 703.1 Minimum Size. Add the following at the end of section 703.1: No portion of the drainage or vent system installed underground, or underground under concrete must be less than two (2) inches in diameter. ()

31. Section 704.2 Single Vertical Drainage Pipe. 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. ()

32. Section 704.3 Commercial Sinks. Delete. ()

33. Table 703.2 Maximum Unit Loading and Maximum Length of Drainage and Vent Piping. Change fixture unit loading value for one and a half (1 1/2) inch horizontal drainage to two (2) fixture units. ()

34. Section 705.5.2 Solvent Cement Joints. Add to the end of the section the following: PVC DWV may be joined by the use of one-step solvent cement listed or labeled per U.P.C. Section 301.1.1. ()

35. Section 707.4 Locations. Add the following: A clean out must 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 does not apply. A full-sized accessible cleanout must 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 must be installed at the junction of the building drain and the building sewer. Cleanouts must be installed at fifty (50) foot intervals in horizontal drain lines two (2) inches or smaller. ()

36. Section 710.3(4) Sewage Ejectors and Pumps. Add: Exception (4): One (1) pump is 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 (See Section 710.9 Alarms). ()

37. Section 710.5 Size Building Drains and Sewers. Add the following 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. ()

38. Section 712.1 Media. In the first sentence, delete the phrase “except that plastic pipe must not be tested with air.” ()

39. Section 717.0 Size of Building Sewers. Add the following to the end of section 717.1: 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 must run full size to inside the foundation or building lines. ()

40. Section 723.0 General. Delete the following sentence: “Plastic DWV piping systems must not be tested by the air test method.” ()

41. Section 801.3.3 Food Handling Fixtures. 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). ()

42. Section 805.41 General. Add to the end of the first paragraph the following: 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. ()

43. Section 807.3 Domestic Dishwashing Machines. 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 countertop and secured properly. ()

44. Section 906.1 Roof Termination. Add the following: ()

a. Sidewall venting. When sidewall venting is utilized, the vent must extend flush with the eaves/gable end, turn down using a ninety (90) degree ell, and 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. ()

45. Section 908.1 Vertical Wet Venting. Add to the end of the section the following: 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. ()

46. Section 909.0 Special Venting for Island Fixtures. Add: Parameters for the limited use of Air Admittance Valves (A.A.V.). ()

a. An A.A.V. may be used only in residential buildings. ()

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. may not be used in bathroom groups. ()

c. In new construction, an A.A.V. may be used on island fixture sinks. ()

d. Each A.A.V. may be used to vent only one (1) floor. ()

e. Each A.A.V. must be readily accessible. ()

f. The cross-sectional area of venting must remain the same and must meet the largest required building drain. ()

g. An A.A.V. may only be installed in accordance with the manufacturer’s installation standards as

per ASSE 1051. ()

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. ()

47. Section 1002.3 Change of Direction. Trap arms may not exceed one hundred eighty (180) degrees of horizontal turn without the use of a cleanout. ()

48. Section 1007.0 Trap Seal Protection. Delete section 1007.1 and replace with the following: Floor drains or similar traps directly connected to the drainage system and subject to infrequent use must 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 must be accessible for maintenance. ()

49. Section 1016.1 Discharge. Add the following to the end of section 1016.1: Floor drains installed in residential garages must be permitted to use the interceptor as the fixture trap. ()

50. Section 1502.1 General. Add to this section the following paragraph: Plumbing for a gray water system from any fixture up to, but not to include the exterior irrigation system tank must be inspected by the Authority Having Jurisdiction. The Idaho Department of Environmental Quality (IDEQ) has 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 is determined in accordance with the requirements as established by the IDEQ. ()

601. -- 999. (RESERVED)