

Amendments to Chapter 62-01-01
ORGANIZATION OF BOARD

Subsection 4 of Section 62-01-01-01 is amended as follows:

4. **Inquiries.** All inquiries and communication relating to licensing, plumbing installation, and inspections may be directed to:

North Dakota State Plumbing Board
~~204 West Thayer Avenue~~ 1110 College Drive Suite 210
Bismarck, North Dakota 58501

Phone (701) 328-9977
Fax (701) 328-9979
E-mail ~~ndplumb@state.nd.us~~ ndplumb@nd.gov

History: Amended effective November 1, 1981; September 1, 1987; April 1, 1994; March 1, 2000. ; 2010.

General Authority: NDCC 28-32-02.1

Law Implemented: NDCC 28-32-02.1

Amendments to Chapter 62-03.1-01
ADMINISTRATION

Subsection 1 of Section 62-03.1-01-01 is amended as follows:

1. State plumbing code defined. The board adopts, as the state plumbing code, the ~~2000~~ 2009 edition of the Uniform Plumbing Code including appendices A, B, D, E, I, and L, published by the international association of plumbing and mechanical officials, with the exceptions and modifications described in section 62-03.1-02-02 and chapter 62-03.1-03.

History: Effective March 1, 2000. ; amended effective 2010.

General Authority: NDCC 43-18-09

Law Implemented: NDCC 43-18-09

Section 62-03.1-01-03 is repealed.

62-03.1-01-03. Interpretive rules. ~~Some of the details of plumbing construction may vary, but the basic sanitary and safety principles desirable and necessary to protect the health of the people are the same everywhere. As interpretations may be required and as unforeseen situations arise which are not specifically covered in the code, the following principles must be used to define the intent of this code.~~

- ~~1. **All occupied premises must have potable water.** All premises intended for human habitation, occupancy, or use must be provided with a supply of potable water. Such a water supply must not be connected with unsafe water sources, nor be subject to the hazards of backflow.~~
- ~~2. **Adequate water required.** Plumbing fixtures, devices, and appurtenances must be supplied with water in sufficient volume and at pressures adequate to enable them to function properly and without undue noise under normal conditions of use.~~
- ~~3. **Hot water required.** Hot water must be supplied to all plumbing fixtures that normally need or require hot water for their proper use and function.~~
- ~~4. **Water conservation.** Plumbing must be designed and adjusted to use the minimum quantity of water consistent with proper performance and cleaning.~~
- ~~5. **Safety devices.** Devices for heating and storing water must be so designed and installed as to guard against dangers from explosion or overheating.~~
- ~~6. **Use public sewer where available.** Every building with installed plumbing fixtures and intended for human habitation, occupancy, or use, and located on premises where a public sewer is on or passes said premises within a reasonable distance, must be connected to the sewer.~~
- ~~7. **Required plumbing fixtures.** Each family dwelling unit must have at least one water closet, one lavatory, one kitchen-type sink, and one bathtub or shower to meet the basic requirements of sanitation and personal hygiene. All other structures for human habitation must be equipped with sufficient sanitary facilities. Plumbing fixtures must be made of durable, smooth, nonabsorbent, and corrosion resistant material and must be free from concealed fouling surfaces.~~

8. ~~**Drainage system.** The drainage system must be designed, constructed, and maintained to guard against fouling, deposit of solids, and clogging and with adequate cleanouts so arranged that the pipes may be readily cleaned.~~
9. ~~**Durable materials and good workmanship.** The piping of the plumbing system must be of durable material, free from defective workmanship, and so designed and constructed as to give satisfactory service for its reasonably expected life.~~
10. ~~**Fixture traps.** Each fixture directly connected to the drainage system must be equipped with a liquid seal trap.~~
11. ~~**Trap seals must be protected.** The drainage system must be designed to provide an adequate circulation of air in all pipes with no danger of siphonage, aspiration, or forcing of trap seals under conditions of ordinary use.~~
12. ~~**Exhaust foul air to outside.** Each vent terminal must extend to the outer air and be so installed as to minimize the possibilities of clogging and the return of foul air to the building.~~
13. ~~**Test the plumbing system.** The plumbing system must be subjected to such tests as will effectively disclose all leaks and defects in the work or the material.~~
14. ~~**Exclude certain substances from the plumbing system.** A substance that will clog or accentuate clogging of pipes, produce explosive mixtures, destroy the pipes or their joints, or interfere unduly with the sewage disposal process must not be allowed to enter the building drainage system.~~
15. ~~**Prevent contamination.** Proper protection must be provided to prevent contamination of food, water, sterile goods, and similar materials by backflow of sewage. When necessary, the fixture, device, or appliance must be connected indirectly with the building drainage system.~~
16. ~~**Light and ventilation.** A water closet or similar fixture must not be located in a room or compartment that is not properly lighted and ventilated.~~
17. ~~**Individual sewage disposal system.** If water closets or other plumbing fixtures are installed in buildings where there is no sewer within a reasonable distance, suitable provision must be made for disposing of the sewage by some accepted method of sewage treatment and disposal.~~

- ~~18. **Prevent sewer flooding.** Where a plumbing drainage system is subject to backflow of sewage from the public sewer or private disposal system, suitable provision must be made to prevent its overflow in the building.~~
- ~~19. **Proper maintenance.** Plumbing systems must be maintained in a safe and serviceable condition from the standpoint of both mechanics and health.~~
- ~~20. **Fixtures must be accessible.** All plumbing fixtures must be so installed with regard to spacing as to be accessible for their intended use and for cleaning.~~
- ~~21. **Structural safety.** Plumbing must be installed with due regard to preservation of the strength of structural members and prevention of damage to walls and other surfaces through fixture usage.~~
- ~~22. **Protect ground and surface water.** Sewage or other waste must not be discharged into surface or subsurface water unless it has first been subjected to some acceptable form of treatment. Repealed effective _____, 2010.~~

~~**History:** Effective March 1, 2000.~~

~~**General Authority:** NDCC 43-18-09~~

~~**Law Implemented:** NDCC 43-18-09~~

Subsection 1 of Section 62-03.1-01-05 is amended as follows:

1. Inspection fees for each certificate issued must be according to the schedule of fees shown on the plumbing installation certificate. If work has commenced prior to submittal of the certificate and proper fees, the fee will be double or actual cost incurred to investigate, whichever is less. Requested inspection, reinspection, or inspection for which no fee is specifically indicated must be charged at ~~twenty-five~~ fifty dollars per hour, plus travel expense.

~~**History:** Effective March 1, 2000. ; amended effective _____ 2010.~~

~~**General Authority:** NDCC 43-18-08~~

~~**Law Implemented:** NDCC 43-18-17.2, 43-18-17.3~~

Amendments to Chapter 62-03.1-02
GENERAL REGULATIONS

Subsections 1 through 18 and appendix E of Section 62-03.1-02-02 are amended as follows:

1. ~~Permits and inspections 103.0.~~ **Administration.** Add to 101.5.6 the words or within after the word into. The following subsections do not apply: 103.1 through 103.4; 103.5.1.2, 103.5.3.1, 103.5.6, and table 1-1.
2. ~~Definitions of terms 202.0.~~ Add to 211.0-I: "Inspection report" means a notice, written by a plumbing inspector to the person responsible for the plumbing installation, describing work inspected and stating violations and noncompliance of rules and regulations as listed, which must be corrected within a designated time.

Add to 218.0-P: "Plumbing installation certificate" means a document consisting of one or more copies certifying that certain plumbing installations, plumbing fixtures, plumbing appliances, and other appurtenances were installed in conformity with the rules and regulations of the plumbing board. "Permit" as used in the Uniform Plumbing Code has the same meaning as plumbing installation certificate.

"Plumbing" add to definition: Maintenance does not include making repairs to faucets, valves, appliances, and fixtures, or removal of stoppages in waste or drainage pipes. See also North Dakota Century Code section 43-18-01.

"Plumbing system": Not included in this definition are medical gas and medical vacuum systems, liquid and fuel gas piping, and vents for water heaters.

3. ~~Protection of piping materials and structures 313.0.~~ **General regulations.** Add to 313.2 When a water heater is located in an attic, attic-ceiling assembly, floor-ceiling assembly, or floor-subfloor assembly where damage results from a leaking water heater, a water-tight pan of corrosion-resistant materials shall be installed beneath the water heater with not less than three-quarters (3/4) of an inch (20 mm) diameter drain to an approved location. Add to 313.6: Water service piping must be installed with a minimum earth cover of seven feet [2.13 meters], ~~or below record frostlines.~~ Minimum earth cover for building sewers must be four feet. [1.22 meters].

Subsection 313.12.4 does not apply.

4. ~~Metered faucets 402.6.~~ **Plumbing fixtures and fixture fittings.** Add to 402.4 Mixing-type hand-closing faucets may be installed on lavatories for

public use. Lavatories must have waste outlets not less than one and one-fourth inches [31.75 millimeters] in diameter, with open strainers.

~~Prohibited urinal 406.2.~~ Add to 405.2. Urinals with nonintegral traps shall be prohibited.

~~Water closets 409.1.~~ Add to 408.1. Water closets in private rooms of hotels, motels, dormitories, and boarding houses must be of the elongated bowl type.

~~Fixture count 413.1.~~ Delete Table 4-1 does not apply. from 412.1 and Add Plumbing fixture requirements shall be according to the ~~2000-Table 2902.1~~ of the most recently state adopted International Building Code, Minimum Number of Plumbing Facilities, with the following modifications:

Occupancy	Water Closets (h)		Lavatories (i)	Drinking Fountains (g)
	Male	Female		
Restaurants (j)	1 per 60	1 per 60	1 per 120	None
Mercantile	1 per 300	1 per 300	1 per 600	
Business	1 per 40	1 per 40		

See section 2902.2, 2902.4, 2902.4.1, 2902.5, 2902.6, does not apply.
See section 410.1, 411 of the International Plumbing Code, does not apply.

Add to Note a:

1. Types of occupancies not shown on this table shall be considered individually by the administrative authority.
2. The occupant load shall be composed of fifty percent of each sex.

Add the following additional notes:

- g. **Drinking fountains.** There shall be a minimum of one drinking fountain per occupied floor in schools, theaters, auditoriums, dormitories, and businesses.
 1. Where food is consumed indoors, water stations may be substituted for drinking fountains. Where bottled water coolers are provided, drinking fountains shall not be required.
 2. Drinking fountains shall not be required in occupancies with less than thirty persons.
 3. Drinking fountains shall not be installed in toilet rooms.
- h. **Urinals.** The provision of urinals may offset water closets otherwise required but the number of water closets required may not be reduced in this manner by more than fifty percent.
 1. Walls and floors within two feet [609.6 millimeters] of the sides and front of urinals must be finished with a smooth, hard,

nonabsorbent finish. ~~of a material approved by the administrative authority.~~

- i. **Lavatories.** Where circular or similar handwashing appliances are provided, twenty-four lineal inches [609.6 millimeters] of wash sink or eighteen inches [457.2 millimeters] of a circular basin, when provided with water outlets for such space, shall be considered equivalent to one lavatory.
- j. **Restaurant.** For the purpose of this table, a restaurant is defined as a business that sells food to be consumed on premises. The number of occupants for a drive-in restaurant shall be considered as equal to the number of parking stalls.
 - 1. A hand sink is required to be available to employees in a restaurant or other food preparation occupancy.

Subsection 414.5 does not apply.

- 5. **Permit 503.0 Water heaters.** Does not apply.
- 6. **Exception Water supply and distribution.** Add to 602.4. Every building intended for human habitation, occupancy, or use, and located on premises where public water is available, must be connected to such public water. Public water is considered available if located within two hundred (200) feet (60.8 meters) from any proposed building required to have potable water located on any lot or premises which abuts and is served by public water.

~~604.2.~~ Delete from 604.2 exception: Type M copper shall not be used or underground outside of structures.

Delete from 604.8 exception: Plastic materials for water service piping outside underground shall have a blue insulated copper tracer wire or other approved conductor installed adjacent to the piping. Access shall be provided to the tracer wire or the tracer wire shall terminate above ground at each end of the nonmetallic piping. The tracer wire size shall be not less than 18 AWG and the insulation type shall be suitable for direct burial.

~~Valves 605.0.~~ Add to 605.2: Each building water supply shall be provided with a fullway valve installed on the inlet side of each water meter. Valves up to and including two inches [50.8 millimeters] in size must be a ball valve.

Add to 605.3: ~~In single and multidwelling units with two or more bathroom groups, one or more shutoff valves must be provided so that each group may be isolated from the other. In multidwelling units, w~~Wall hydrants must be separately controlled within eight feet [2.438 meters] by an accessible valve inside the building.

~~Add to 605.5: All water closets and kitchen sinks must have individual fixture valves installed.~~

7. ~~Molded rubber coupling joints.~~ **Sanitary drainage.** Add to 705.1.6. Add: For aboveground installations an approved shielded coupling must be used to prevent outward expansion.

Delete from 712.1 Except that plastic pipe shall not be tested with air. Add to Table 7-1, under reference standards column for PVC, SDR 35 ASTM 3034 or heavier. Note 1.

Delete from 723.0 Plastic Drainage Waste and Vent (DWV) piping systems shall not be tested by the air test method.

8. ~~Food and beverage handling establishments 801.2.~~ **Indirect wastes.** ~~Add to 801.2.3: Food preparation sinks must be directly connected to the building drain on a line to the sewer side of a floor drain trap located adjacent to the sink.~~

~~Bar and fountain sink traps 801.3. Add: Where the fixture cannot be vented, a special island sink vent or a combination waste and vent system must be used.~~

Add to 807.4 or the discharge line from the dishwasher may be looped up and securely fastened to the underside of the counter.

9. ~~Vertical wet venting 908.0.~~ **VENTS.** Add to 908.1: Special horizontal wet venting shall be permitted according to appendix L 6.0 special venting of fixtures. Subsections 908.2.1, 908.2.2 and 908.2.3 do not apply; Replace 908.2.1 with an individually-vented lavatory in a single bathroom or single toilet room shall be permitted to serve as the wet vent for one (1) water closet and/or one (1) bathtub or shower stall, or one (1) water closet and/or one (1) bathtub/shower combination if all of the following conditions are met:
1. The wet vent, and the dry vent extending from the wet vent, shall be two (2) inch (50 mm) minimum pipe size.
 2. The wet vent pipe opening shall not be below the weir of the trap that it serves. Vent sizing, grades, and connections shall comply with Sections 904.0 and 905.0.
 3. The horizontal branch drain serving both the lavatory and the bathtub or shower stall shall be two (2) inch (50 mm) minimum pipe size.
 4. The length of the trap arm from the bathtub or shower stall complies with the limits in Table 10-1.
 5. The distance from the outlet of the water closet to the connection of the wet vent complies with the limits in Table 10-1.

6. The horizontal branch drain serving the lavatory and the bathtub or shower stall shall connect to the horizontal water closet branch above its centerline. When the bathroom or toilet room is the top-most load on a stack, the horizontal branch serving the lavatory and the bathtub or shower stall shall be permitted to connect to the stack below the water closet branch.

7. No fixture other than those listed in L 6.2.1 shall discharge through a single bathroom or single toilet room wet vented system.

Replace 908.2.2 with; **Double Bathtubs, Bathtub/Shower Combinations, Shower Stalls and Lavatories.**

Two (2) lavatories, each rated at 1.0 drainage fixture unit (DFU), and two (2) bathtubs, bathtub/shower combinations or shower stalls, installed in adjacent bathrooms, shall be permitted to drain to a horizontal drain branch that is two (2) inches (50 mm) minimum pipe size, with a common vent for the lavatories and no individual vents for the bathtubs, bathtub/shower combinations or shower stalls, provided that the wet vent from the lavatories and their dry vent is two (2) inches (50 mm) minimum pipe size and the length of all trap arms comply with the limits in Table 10-1.

~~Special venting for island fixtures~~ Add to 909.0: Add: A combination waste and vent system may also be used for island sinks. The vertical waste pipe must be the same size as required for the combination waste and vent. The fixture trap size must be as required by chapter 7.

~~Combination waste and vent system 910.0.~~ Subsection 910.2 does not apply.

10. **Traps and interceptors.** ~~Chapter 10~~ no change.
11. **Storm drainage.** ~~Chapter 11~~ no change.
12. **Fuel piping.** ~~Chapter 12~~ does not apply.
13. **Health care facilities and Medical gas and vacuum systems.**
~~Chapter 13~~ does not apply.
14. **Mandatory rReferenced standards.** ~~Chapter 14~~ no change.
15. **Firestop protection for DMV and stormwater applications.** ~~Chapter 15~~ does not apply.
16. **Nonpotable water reuse systems.** No change

~~16.~~ 17. **Appendix E, manufactured/mobile home parks and recreational vehicle parks.** Add to ~~E5:~~ ~~The department having jurisdiction shall be the division of food and lodging of the state department of health. See also North Dakota Century Code chapter 23-16 and North Dakota Administrative Code section 33-33-01-02.~~ E1.0 Water and Sewer connections under the manufactured home may be made by individuals certified by the North Dakota department of commerce in accordance with the North Dakota Manufactured Home Installation Guidelines.

Part D does not apply.

18. Appendix L. Delete from L8.1 circuit venting shall be designed by a registered professional engineer as an engineered design.

History: Effective March 1, 2000; amended effective March 1, 2002. ; _____ 2010.

General Authority: NDCC 43-18-09

Law Implemented NDCC 43-18-09