



## Ohio Plumbing Code Summary of Significant Changes – 2017 to 2024

November 2023

| Ohio Administrative Code Rule Number | 2024 OPC Section                    | Source of change (2018 IPC, 2021 IPC, or BBS) | Description of Change  |
|--------------------------------------|-------------------------------------|---|--|
| 4101:3-1-01                          | 101.1                               | BBS   | Formal adoption by reference of the International Plumbing Code (IPC)  |
|                                      | 101.1.1                             | BBS   | "Rules of construction" are universal edits of the IPC   |
|                                      | 101.3.1                             | BBS   | Identifies provisions of the plumbing code that are enforced by building official – Consolidated from multiple sections of the OPC |
|                                      | 101.3.2                             | BBS   | Identifies who enforces medical gas  |
| 4101:3-2-01                          | Accessible                          | 2018  | Added definition   |
|                                      | Building                            | BBS   | Replaced definition  |
|                                      | Copper Alloy                        | 2021  | Added definition   |
|                                      | Existing installation               | BBS   | Replaced definition  |
|                                      | Full Open Valve                     | 2018  | Added definition   |
|                                      | Private                             | 2021 and BBS                                  | ICC Modified definition and BBS replaced definition  |
|                                      | **Private residential swimming pool | BBS   | **Added definition, modified after coordination with ODH   |
|                                      | Press Connect Joint                 | 2018  | Added definition   |
|                                      | **Public or Public Utilization      | 2021 and BBS                                  | ICC Modified definition and **BBS replaced definition  |
|                                      | **Public Swimming Pool              | 2018 and BBS                                  | ICC Added definition and **BBS replaced definition, modified after coordination with ODH   |
|                                      | Push-fit fitting                    | 2021  | Added definition   |
|                                      | Registered design professional      | BBS   | Modified definition – includes landscape architects  |
|                                      | Swimming Pool                       | 2018 and BBS                                  | ICC Modified definition and  |

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|             |                 |              | BBS further modified   |
|             | Water Dispenser | 2021 and BBS | ICC Modified definition and BBS retained current definition  |
| 4101:3-3-01 | 301.3           | BBS          | Kept ICC model code in charging paragraph. Kept Ohio modifications to exception #1 and relocated Ohio exception #2 to OPC Section 802.1.8  |
|             | 303.5           | 2018 and BBS | ICC Added - Third-party listing of soil pipe and BBS modified with Ohio terms  |
|             | 305.1           | 2018         | Clarified - Corrosion protection of metallic pipe  |
|             | 305.3           | BBS          | Modified section with petitioner language for pipes through foundations  |
|             | 305.6           | 2018         | Modified - Protection against physical damage  |
|             | 307.7           | BBS          | Relocated provision to OPC chapter 1   |
|             | 308.6           | 2018         | Clarified - Sway bracing for drainpipes  |
|             | 308.9           | 2021         | Modified - Bundled hot water piping insulation   |
|             | 308.10          | 2018         | Added - Thermal expansion tank support   |
|             | 309.1           | BBS          | Kept IPC model code – No modifications   |
|             | 309.3           | BBS          | Kept IPC model code – No modifications   |
|             | 310.3           | BBS          | Relocated provision to OPC chapter 1   |
|             | 312             | BBS          | Most of the Ohio changes to the testing and inspections section have remained with the exception of sections 312.10.1, 10.2, 312.11 and 312.12 (see below)                           |
|             | 312.10.1        | BBS          | Kept IPC model code – No modifications   |
|             | 312.10.2        | BBS          | Kept IPC model code – No modifications   |
|             | 312.11          | BBS          | Delete unique Ohio section – Important for owners but not within the OPC scope   |
|             | 312.12          | BBS          | Delete unique Ohio section – Duplication of chapter 1 requirements.  |
|             | 314.2.3.3       | 2021         | Added – identification of concealed condensate piping as primary or secondary  |
|             | 314.3           | BBS          | Relocated provision to OPC chapter 1   |
|             | 317             | BBS          | Replace entire section with general reference directing owners to comply with DIC rules for submission (RC §4104.44)   |
| 4101:3-4-01 | Table 403.1     | 2018         | Modified - Added fixtures for a gaming area  |
|             |                 |              | Modified - Deleted Group classification column   |
|             |                 |              | Modified - Added Note f for swimming pool fixture quantities.  |
|             |                 | BBS          | Kept model code values and column headings – Ohio modifications moved footnote f from “outdoor sporting events and activities” description cell to “assembly” classification cell as |

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|  |         |      | well as deleted current Ohio footnotes f and g as redundant with Sections 403.3 and 424.2   |
|  | 403.1.1 | 2021 | Modified – Added 2 exceptions to address fixture contribution from multi-user and single-user facilities serving all genders to the overall count required by Table 403.1 |
|  | 403.1.2 | 2018 | Modified - Signage for single user toilet room  |
|  |         | 2021 | Clarified – Fixture count contribution from single user toilet rooms  |
|  | 403.1.3 | 2018 | Added - Lavatories distribution proportionate to water closets  |
|  | 403.2   | 2018 | Modified – Added small business exception   |
|  |         | 2021 | Modified – Added multi-user, multi-gender toilet room design exceptions   |
|  |         | BBS  | Modified – Added Group E limitation for separate facilities   |
|  | 403.3   | 2018 | Clarified - Public/Employee toilet facility simplification  |
|  |         | BBS  | Modified – Removed attendant condition. All parking garages are exempt  |
|  | 403.3.1 | 2021 | Clarified – Remove accessible route duplication   |
|  | 403.3.3 | 2021 | Modified – Added exception for distance to toilet in Group S  |
|  | 403.5   | 2021 | Clarified – Remove accessible route duplication   |
|  | 403.6   | 2021 | Added – Service sink location limits  |
|  | 403.7   | BBS  | Relocated provision to OPC chapter 1  |
|  | 404.3   | BBS  | Relocated provision to OPC chapter 1  |
|  | 405.3.1 | 2018 | Clarified - Clearance to obstruction  |
|  | 405.3.4 | BBS  | Modified – Added requirement for water closet compartment in multi-user, all gender toilet rooms  |
|  | 405.3.5 | 2018 | Clarified – Minimum distance between urinal partitions  |
|  | 405.4.3 | 2021 | Modification – Added new standard for water closet carriers   |
|  | 405.5   | 2018 | Added – Standard for pumped waste fixtures  |
|  | 407.2   | 2021 | Modified – Bathtub overflow optional  |
|  | 409.1   | 2018 | Modified – Added standard for residential dishwashing machines NSF 184  |
|  | 409.4   | 2018 | Modified – Waste connection requirement for residential dishwasher relocated from 802.1.6 and language revised for clarity  |
|  | 410.3.2 | 2021 | Added – Quantity of drinking fountains used while standing v. while seated  |

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|  | 410.4   | 2021 | Clarified – Minimum required before substitution of dispensers for fountains   |
|  |         | BBS  | Retained Ohio language for water dispenser substitution of drinking fountains  |
|  | 411.3   | 2018 | Added – Temperature mixing for emergency shower/eyewash  |
|  |         | 2021 | Modified – Control of temperature where shower/eyewash has direct supply from water heater   |
|  | 412     | 2018 | Relocated section 424 to 412   |
|  | 412.3   | 2021 | Modified – Lower flow shower heads must be compatible with mixing valve  |
|  | 412.4   |      |  |
|  | 412.5   | 2021 | Modified – Added methods of temperature limiting control for bathtubs  |
|  | 412.7   | 2018 | Added – Flow limiting device as part of temperature limiting control. Not a substitute for temperature limiting valves per 412.3 and 412.5 |
|  | 412.10  | 2021 | Modified – Added methods for temperature limiting control for head shampoo sinks.  |
|  | 412.11  | 2021 | Added – New text and standard for pre-rinse spray valves used in commercial food prep  |
|  | 414     | 2018 | Relocated section 427 to 414   |
|  | 415     | 2018 | Relocated section 425 to 415   |
|  | 416     | 2018 | Relocated section 413 to 416   |
|  | 416.1   | 2021 | Modified – New standard for commercial food waste disposers  |
|  | 417     | 2018 | Relocated section 414 to 417   |
|  | 418     | 2018 | Relocated section 415 to 418   |
|  | 419     | 2018 | Relocated section 416 to 419   |
|  | 419.1   | 2021 | Modified – Clarified impact on fixture count where a group wash fixture is used.   |
|  | 419.3   | 2021 | Modified – Included group wash fixtures for minimum waste outlet size.   |
|  | 419.5   | 2021 | Modified – Deleted CSA B125.3 standard as acceptable temperature limiting device for public handwashing – part of ASSE 1070                |
|  | 420     | 2018 | Relocated section 426 to 420   |
|  | 421     | 2018 | Relocated section 417 to 421   |
|  | 421.1   | 2021 | Modified – Added new standards for different types of prefab showers   |
|  | 421.3.1 | 2021 | Added – Standard for waste fittings that drain a shower.   |
|  | 422     | 2018 | Deleted entire section for health care fixtures and equipment. Relocated section 418 to 422  |

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|             | 423.3    | 2021 | Modified – Replaced CSA standard with ASSE 1082 standard for footbaths and pedicure baths   |
|             | 424      |      | Relocated section 419 to 424  |
|             | 425      |      | Relocated section 420 to 425  |
|             | 426      |      | Relocated section 421 to 426  |
| 4101:3-5-01 | 501.2    | 2021 | Clarified – Align code language with language of standard   |
|             | 502.1    | 2018 | Modified – Added solar thermal water heating systems and compliance with mechanical code and ICC 900 standard.  |
|             | 502.1.1  | BBS  | Deleted Ohio exception. This is part of the listing   |
|             | 504.6    | 2018 | Modified – T & P discharge piping minimum size where insert fitting are used.   |
|             | 504.7    | 2018 | Modified – Expanded the types of materials for water heater drain pan   |
| 4101:3-6-01 | 602.3    | BBS  | Delete all of section 602.3. This work is regulated through ODH rules for private water supply.   |
|             | 602.3.1  | 2018 | Modified – Added standard for water well construction that is not otherwise regulated. This change is moot.   |
|             | 602.3.5  | 2021 | Modified – Added NSF standard for potable water pumps. This change is moot.   |
|             | 603.3    | BBS  | Relocated provision to OPC chapter 1  |
|             | 605.2    | BBS  | Returned to model code organization of section. Separate requirements for water supply in general from requirements for drinking water supply specifically. |
|             | 605.2.1  |      | Relocated unique Ohio exceptions to 605.2.1 (which was previously deleted)  |
|             | 605.11   | 2018 | Deleted Section 605.11 Brass. Brass is one type of copper alloy. Subsequent sections renumbered   |
|             | 605.12.3 | 2021 | Modified – Solder and flux used in drinking water systems must comply with NSF 61 standard  |
|             | 605.13.6 |      |   |
|             | 605.13.7 | 2018 | Clarified – where push-fit type joints are acceptable   |
|             | 605.14.4 |      |   |
|             | 605.16.3 |      |   |
|             | 606.1    | 2021 | Modified – Added location #2.1 for water shut-off at each tenant in multi-tenant buildings other than a dwelling  |
|             |          | BBS  | Retains Ohio modification for location #4 at the base of every water riser.   |
|             | 606.7    | 2021 | Deleted the labeling of water distribution pipes where bundled.   |

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|             | **607.1                             | BBS                   | **Added Ohio sentence to be the same text as found in 419.5   |
|             | 607.1.1                             | 2021                  | Modified - Expands means and standards for temperature limiting and tempered water control. Revised the format of 607.1.2.  |
|             | 607.1.2                             |                       |   |
|             | 607.3                               | 2018                  | Modified – Allows other means of pressure control in a hot water system beyond a thermal expansion tank only  |
|             | 608.3                               | 2018                  | Modification – Added 608.4 and extracted requirement from 608.3 to clarify backflow protection. All subsequent subsections are renumbered   |
|             | 608.4                               |                       |   |
|             | 608.12<br>(formerly 608.11)         | 2018                  | Modified – Renumbered and added compliance with NSF 61 standard for interior of tanks in contact with potable water.  |
|             | 608.15.2.1<br>(formerly 608.14.2.1) | 2021                  | Modified – Drainage for backflow preventer discharge must accommodate max flow rate per manufacturer specs  |
|             | 608.17.1<br>(formerly 608.16.1)     | 2018                  | Modified – Renumbered and reorganized sections to clarify backflow requirements used with carbonated beverage machines from requirements used with coffee and non-carbonated beverage machines (formerly 608.16.10) |
|             | 608.17.1.1                          |                       |   |
|             | 608.17.1.2                          |                       |   |
|             | 608.17.2<br>(formerly 608.16.2)     | 2021                  | Modified – Added ASSE 1081 standard for backflow requirements used with low hazard boiler   |
|             | 608.17.10                           | 2018                  | Added – Backflow protection requirements for humidifiers  |
|             | 609.1                               | 2018                  | Modified – Replaced outdated care facility terminology with current terms   |
|             | 609.2                               | 2021                  | Modified – Replaced terminology and expanded on requirements for a redundant water service Grp I-2, Cond 2  |
|             | 609.2.1                             | 2021                  | Added – Requirement for tracer wire on water service for Group I-2, Cond 2  |
|             | 610.1                               | BBS & Petition #23-01 | Added – Exception that outlines disinfection process for safe potable water in new plumbing systems of dwellings  |
|             | 611.1                               | 2018                  | Modified – Added NSF standard for reverse osmosis treatment unit.   |
| 4101:3-7-01 | 701.2                               | 2018                  | Modified – Connection to sewer required except for gray water systems (ODH rules)   |

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|                       |      | BBS | Modifies model code to simplify. Public sewer or as otherwise permitted by OEPA or ODH.                              |
| **701.8               | 2018 |     | Deleted – sanitary drainage above “food areas” no longer prohibited.   |
|                       |      | BBS | **Deleted new BBS section 701.8 for reuse of existing sanitary drain piping  |
| 702.3                 | 2018 |     | Modified – Standard added for PP pipe  |
|                       | 2021 |     | Modified – Standard added for ABS pipe   |
|                       |      | BBS | Ohio continues to delete this section and Table 702.3 as outside the scope of the OPC                                |
| 703                   |      | BBS | Ohio continues to delete this section in its entirety as outside the scope of the OPC                                |
| 703.4                 | 2018 |     | Modified – Use of existing building drain is clarified. Change is moot.  |
| 704.1                 | 2018 |     | Modified – Slope for grease laden waste minimum ¼ inch/foot (2%)   |
| 704.2                 | 2018 |     | Modified – Allowable reduction in pipe size clarified and expanded   |
| 705.2.4               | 2021 |     | Added – Push-fit DWV fittings for ABS and PVC piping   |
| 705.10.4              |      |     |  |
| 705.16.4              | 2018 |     | Modified – Allows a solvent cement joint between drain and sewer where only one joint is needed between ABS and PVC. |
| 706.3                 |      | BBS | Added language for through wall drainage in response to a petition   |
| 708.1.6               | 2021 |     | Added – Removeable fixture traps are acceptable as cleanouts. Subsequent subsections in 708.1 are renumbered         |
| 709.3                 | 2018 |     | Clarified – Conversion of GPM to drainage fixture units (DFU)  |
| 712.3.2               | 2018 |     | Modified – Limits on elevation of some sump pit covers   |
| 712.4.2               | 2018 |     | Modified – Limit of waste ejector solids reduced to ½” max.  |
| 713                   | 2018 |     | Deleted – All of health care plumbing is deleted as outdated or superseded. Renumber subsequent Sections             |
| 716<br>(formerly 717) | 2018 |     | Modified – Pipe bursting method for replacement allowed for building drain   |
|                       |      | BBS | Retains model code but modifies for use with building drain only (not sewer.)  |
| 717                   | 2021 |     | Added – Relining method for restoring building sewers and drains   |

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|              |                              | BBS  | Modifies for use with building drain only (not sewer.) Deleted subsections (717.3, .3.1, .4, .5, .6, .8 and .10) are administrative or manufacturer's instruction content. |
|              | 718                          | 2021   | Added – Cure-in-place method for rehabilitation of building drain  |
|              |                              | BBS  | Deleted this section in its entirety   |
| 4101:3-8-01  | 801.2                        | 2018   | Modified – Added humidification equipment that discharges to a drain must be protected   |
|              | 802.1                        | 2018   | Modified – Waste-water discharge from humidification equipment must be indirectly connected to sanitary drain  |
|              | 802.1.6                      | 2018   | Deleted – Domestic dishwashing machines. Renumber subsequent sub sections.   |
|              | **802.1.7 (formerly 802.1.8) | BBS  | **Retained model code language requiring an indirect connection for pot, pan and utensil sinks   |
|              | 802.1.8                      | BBS  | Relocated Ohio provision from exception #2 under OPC Section 301.3   |
|              | **802.4                      |  | Retained model code language for strainer  |
|              | *802.4                       | BBS – comment from Kyle Gordon of Heapy Eng. | *Add an exception that allows standpipes to have “access” rather than “ready access”   |
|              | 802.4.3.1                    | 2018   | Added – Alternative connection of laundry tub/tray, without a fixture trap, to clothes washer standpipe  |
| 4101:3-9-01  | 903.1                        | 2021   | Reorganized the section for clarity  |
|              | 903.1.3                      | 2021   | Added – Requirements for vent terminations where covered by roof-mounted panel (e.g. solar or PV) or an architectural roof element (e.g. decorative shroud)                |
|              | 903.1.4 (formerly 903.6)     | 2021   | Relocated – Requirements for sidewall vent terminals.  |
|              | 915.1                        | 2021   | Modified – Food waste disposer may discharge into a combination waste vent   |
|              | 915.2                        | Petition #18-05                              | Retained model code for combination waste and vent, allowing vertical pipe between fixture drain of floor drain and horizontal pipe  |
|              | 918.8                        | 2018   | Modified – Limit use of AAV near air intakes   |
| 4101:3-10-01 | 1002.1                       | 2021   | Modified – Deleted existing exception #3 and adds new exception #4 which will allow direct   |



|              |            |                        |   |
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|              |            |                        | connection of pot and pan sinks to a hydromechanical grease interceptor under certain conditions. Renumbered subsequent exception |
|              |            | BBS & Petition #18-04  | Modified – Retained model code in Exception 1 and relocated distance to trap requirements in new subsections                      |
|              | 1002.1.1   | BBS                    | Added – Relocated requirements for vertical distance to trap weir with an exception   |
|              | 1002.1.2   | BBS                    | Added – Relocated requirements for horizontal distance to trap inlet without exception  |
|              | 1002.4.1.5 | 2021 & Petition #18-12 | Added – Use of wastewater from lavs and hand sinks to supply trap primers   |
|              | *1003.3.2  | 2018                   | Modified – Prohibits a food waste disposer from discharging into a grease interceptor.  |
|              |            | *BBS                   | *Retain model code  |
|              | *1003.3.3  | 2018                   | Added – Additives to grease interceptor must comply with manufacturer’s instructions and ASME A112.14. standard                   |
|              |            | *BBS                   | *Retain model code  |
| 4101:3-11-01 | 1102.4     | 2018                   | Modified – Added types of pipe allowed for use in storm sewer.  |
|              |            | BBS                    | Deleted section and table. Model code change is moot  |
|              | 1102.6     | 2021                   | Modified – Added testing and rating of roof drains in accordance with a standard  |
|              | 1106.2.1   | 2021                   | Added – Equation to convert rainfall rate to GPM  |
|              | 1106.5     | 2018                   | Modified – Sets a minimum size and location (elevation) of scuppers   |
| 4101:3-12-01 | 1202.1     | 2021                   | Modified – Aligned the requirement with the NFPA 99 standard.   |
|              | 1202.2     | BBS                    | Relocated enforcement provision to OPC Chapter 1.   |
| 4101:3-13-01 | Chapter 13 | 2015                   | Non-potable water systems – ODH rules   |
| 4101:3-14-01 | Chapter 14 | 2015                   | Subsurface graywater soil absorption – **process piping, not regulated  |
| 4101:3-15-01 | 1501.3     | BBS                    | Updated referenced standards:<br>IAPMO Z124.10<br>ICC A117.1<br>NFPA 37<br>NFPA 70  |

\*Indicates a change after the stakeholder comment period

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