



## Permit & Development Center

809 N. Broadway, Milwaukee, WI 53202 | (414) 286-8211 | milwaukee.gov/permits | DevelopmentCenterInfo@milwaukee.gov

### SUBMITTAL SHALL INCLUDE (basic requirements):

1. Minimum of four (4) sets of plumbing/gas piping drawings. Plans shall be no smaller than 24 x 36, but minor interior project submittals (involving no more than 4 fixtures) may be on 11 x 17 paper so long as the design is legible and floor plan scale is not less than 1/8 inch to one foot, as required by MCO 200-26-1.e-2.
2. Properly signed in accordance with s. SPS 382.20(4)(c) and Statute [A-E2.0](#). Plans involving more than one sheet must be BOUND into sets. Cover sheets should include a plan index for each sheet in the set.
3. One complete set of plumbing specifications (piping materials, fixtures including model numbers, appliances, appurtenances, and equipment) and completed copy of [Plumbing Fixture List & Piping Detail Form](#).
4. City of Milwaukee [Plumbing Plan Exam Application](#) or [Gas Piping Plan Exam Application](#) form(s).

**PLUMBING SUBMITTALS:** Completed Plumbing Plan Exam Application form grouped together with 4 complete BOUND sets of plumbing plans. Site utility plans may be submitted at the same time that interior plumbing documents are submitted or separately.

**GAS PIPING SUBMITTALS:** Gas piping plan review may be submitted at the same time that plumbing documents are submitted or separately. A completed Gas Piping Plan Exam Application Form is required, whether submitting 4 plumbing-and-gas piping bound plan sets grouped together or when submitting 4 complete stand-alone BOUND sets of gas piping plans.

### SUBMITTALS SHALL INCLUDE (where applicable):

5. Site Utility Plan showing sanitary, storm, and water piping systems with final point of connection shown. (Indicate storm sewer GPM load, sanitary sewer DFU load, and combined sewer GPM loads on all pipes.)
6. Floor plans showing all horizontal drains and vents, and all fixtures and equipment to be installed.
7. Floor plans showing all horizontal water distribution piping, and all fixtures and equipment to be installed.
8. Floor plans showing all horizontal gas distribution piping, and all fixtures and equipment to be installed.
9. 30/60 degree isometric drawings of complete drain and vent system with pipe sizes and DFU's.
10. 30/60 degree isometric drawings of complete water distribution piping with pipe sizes and WSFU's.
11. 30/60 degree isometric drawings of complete interior storm system indicating area drainage with pipe sizes, pitch and GPM loads.
12. 30/60 degree isometric drawings of complete gas distribution piping with pipe sizes, lengths and BTU loads. Drawings must include: the total equivalent length (TEL) of gas piping from point of delivery to the most remote gas outlet, pipe lengths on all branch segments and BTU values at any changes in pipe diameter.
13. Complete water sizing calculations in accordance with SPS 382.40(7). (See [form](#) & [instructions](#).)
14. Complete storm drain sizing calculations (in GPM) in accordance with SPS 382.36(5).
15. Complete sanitary sump and pump calculations in accordance with SPS 382.30(10).
16. Complete gas sizing calculations in accordance with the 2015 edition of NFPA 54. Indicate which sizing table(s) were used. The pipe size shall be determined using any of the methods in NFPA 6.1.1 through 6.1.3, the diameter of each pipe segment shall be obtained from the pipe sizing tables in Section 6.2 or Section 6.3 or from the sizing equations in Sec 6.4.
17. Calculations for remodeling or additions shall include existing fixture unit loads.
18. Grease interceptor sizing calculations in accordance with SPS 382.34(5). Include manufacturer-model number and specification sheet of grease interceptor.
19. Garage catch basin detail.
20. Manhole detail.
21. Area drain or inlet detail.
22. Backflow assembly information (manufacturer, model, size, location, what it is serving, flow in GPM, and location of drain receptor).

**Make sure your submittal is complete. Incomplete submittals will result in delays, rescheduling of review date, or loss of review date.**