



Scheduling Plumbing Plan Review and Checklist for General Plumbing Plan Review

Summary Sheet

Section 1. GENERAL PLAN REVIEW APPLICATION INFORMATION

Electronic plumbing plan reviews shall be submitted online at: <https://esla.wi.gov/PortalCommunityLogin>. Paper plan submittals are no longer accepted by the Department. A complete set of plans and full payment are required at the time of application submittal.

A tutorial aid for the application can be accessed at: <https://dsps.wi.gov/Documents/HowToSubmitforaPlumbingPlanReview.pdf>

1. **Building or Project Name:** _____

2. **DIS Application #:** _____

3. **Type of Project:** Check all that are applicable.

- | | |
|--|---|
| <input type="checkbox"/> New | <input type="checkbox"/> Revision to a previously approved plan review |
| <input type="checkbox"/> Addition/Alteration | <input type="checkbox"/> Extension to a previously approved plan review |
| <input type="checkbox"/> Permission to start (Additionally fill out Section 3) | |

4. **Types of Installation Components (Equipment Types):** Check all that are applicable.

Link to eSLA equipment definitions can be found by visiting: [eSLA Plumbing Equipment Definitions](#)

- | | | |
|---|--|---|
| <input type="checkbox"/> Building Drain & Vent, Sanitary* | <input type="checkbox"/> IAPMO Water Demand Calculator** | <input type="checkbox"/> Regulated Contaminant Water Treatment – Other |
| <input type="checkbox"/> Building Drain & Vent, Storm* | <input type="checkbox"/> Interior Containment Tank | <input type="checkbox"/> Regulated Contaminant Water Treatment – Radium |
| <input type="checkbox"/> Building Sewer, Sanitary* | <input type="checkbox"/> Interior Cross Connection Control Assembly, Health Care | <input type="checkbox"/> Sanitary Dump Station |
| <input type="checkbox"/> Building Sewer, Storm* | <input type="checkbox"/> Interior Grease Interceptor | <input type="checkbox"/> Siphonic Roof Drain Engineered System |
| <input type="checkbox"/> Campground/Recreational Vehicle Park Drainage System, Sanitary | <input type="checkbox"/> Interior Mixed Wastewater Treatment Device | <input type="checkbox"/> Solvent Engineered System |
| <input type="checkbox"/> Campground/Recreational Vehicle Park Drainage System, Storm | <input type="checkbox"/> Interior Non-Potable Water System | <input type="checkbox"/> Storm Detention System |
| <input type="checkbox"/> Campground/Recreational Vehicle Park Water Supply System | <input type="checkbox"/> Interior Oil Interceptor | <input type="checkbox"/> Storm Subsurface Infiltration Plumbing |
| <input type="checkbox"/> Car Wash Interceptor | <input type="checkbox"/> Interior Potable Water Tank | <input type="checkbox"/> Water Distribution System* |
| <input type="checkbox"/> Chemical Waste System | <input type="checkbox"/> Interior Wastewater Treatment Device | <input type="checkbox"/> Water Reuse - Blackwater |
| <input type="checkbox"/> Controlled Roof Drain Engineered System | <input type="checkbox"/> Manufactured Home Community Water Supply System | <input type="checkbox"/> Water Reuse - Clearwater |
| <input type="checkbox"/> Drainage System, Storm | <input type="checkbox"/> Multipurpose Piping System | <input type="checkbox"/> Water Reuse – Graywater |
| <input type="checkbox"/> Exterior Containment Tank | <input type="checkbox"/> Private Interceptor Main Sewer, Sanitary* | <input type="checkbox"/> Water Reuse – Stormwater |
| <input type="checkbox"/> Exterior Cross Connection Control Assembly, Health Care | <input type="checkbox"/> Private Interceptor Main Sewer, Storm* | <input type="checkbox"/> Water Service* |
| <input type="checkbox"/> Exterior Grease Interceptor | <input type="checkbox"/> Private Water Main* | <input type="checkbox"/> Water Treatment – .5 Chlorine |
| <input type="checkbox"/> Exterior Mixed Wastewater Treatment Device | <input type="checkbox"/> Provent Engineered System | <input type="checkbox"/> Water Treatment – Chloramine |
| <input type="checkbox"/> Exterior Non-Potable Water System | <input type="checkbox"/> Pure Water System | <input type="checkbox"/> Water Treatment – Chlorine Dioxide |
| <input type="checkbox"/> Exterior Oil Interceptor | <input type="checkbox"/> Regulated Contaminant Water Treatment – Arsenic | <input type="checkbox"/> Water Treatment – Silver/Copper |
| <input type="checkbox"/> Exterior Potable Water Tank | <input type="checkbox"/> Regulated Contaminant Water Treatment – Bacteria | <input type="checkbox"/> Water Treatment – Thermal |
| <input type="checkbox"/> Exterior Wastewater Treatment Device, Storm | <input type="checkbox"/> Regulated Contaminant Water Treatment – Nitrate | <input type="checkbox"/> Water Treatment – Ultrafiltration |
| <input type="checkbox"/> Garage Catch Basin | | <input type="checkbox"/> Water Treatment – Ultrafiltration |
| | | <input type="checkbox"/> Water Treatment – Ultraviolet System |
| | | <input type="checkbox"/> Alternate Vacuum Waste System |

* Permission to Start is acceptable for this plumbing equipment. See Section 3 for more information.

** See Section 4 for more information.

***** Note ***** Interior Cross Connection Control Assembly, Non-Health Care and Exterior Cross Connection Control Assembly, Non-Health Care Devices and Assemblies are no longer included in plumbing plan review submittals. These Devices and Assemblies are required to be registered and tested and submitted to the Department per [SPS 382.22\(8\)](#).

Section 2. PLUMBING PLAN SUBMITTAL DOCUMENTS

Plumbing plan submittal documents have two categories. Subsection 1 is the plumbing plan requirements. Subsection 2 is all other documents to be submitted in the application. Check all that are applicable.

1. PLUMBING PLAN REQUIREMENTS: Check all that are applicable.

- Plan Index
- Site-Specific Plan
 - Plan must show the locations, sizes, and slopes of all sanitary sewers, storm sewers (including the roof drain system), and water service piping within the property lines.
 - GPM flow rates and maximum capacity are labeled next to each pipe size and slope. Include all pipe sizes and discharge rates.
 - Site grade run off plans and contour lines showing what is drained to the plumbing system
 - Geotechnical reports must not be included in the Site-Specific Plan.
- Floor Plan
 - Plan must include complete plumbing floor plans for each floor, must show all sizes and locations of horizontal drains, water distribution lines, fixtures, and equipment to be installed.
 - Remodeling or additions shall include existing loads.
- Isometric Diagrams
 - 30°/60° isometric diagrams of the drain, vent, water distribution, and interior storm systems.
 - Indicate water supply, drainage fixture units, and storm area drainage with gpm loads with each change in pipe diameter.
- Roof Plan
 - Include elevations of parapets walls, sizes of scuppers and/or secondary overflow drain systems per IBC 1611.3.
- General Requirements for All Plans
 - All plans must be properly signed per [SPS 382.20\(4\)\(c\)](#).
 - Fixtures, appliances, or equipment may need product approval.
 - Cut sheets, shop drawings or specifications of plumbing fixtures
 - Provide product approval letters for each health care appliance - <https://esla.wi.gov/publiclookup>
 - List fixture and appliance manufacturers and model numbers.
 - Complete sizing calculations for all grease interceptors.
 - Identify specific materials for installations as listed in SPS 384
 - Plumbing specifications and other pertinent documents (can be submitted under Subsection 2)
- Stormwater and Clearwater Plumbing Systems Specific Requirements per SPS 382.36
 - Calculations showing all systems upstream of detention are designed, at a minimum to pass the 10-year, 24-hour storm event.
 - Calculations conforming to the requirements of SPS 382.36(5) included showing all plumbing systems downstream of detention features are designed to pass the design discharge flow from detention and all additional flows.
 - Volume calculations for the 2-year, 24-hour storm and the 100-year, 24-hour storm included showing not damage to property.
 - An Operation and Maintenance Plan is included that contains all the required information outlined in SPS 382.36(13).
 - Calculations showing 72-hour drain down time for dry detention systems for the design storm event per SPS 382.36(6)(g)1.
 - Calculations showing maximum 6-inch stormwater depth for the design storm event on paved surfaces per SPS 382.36(6)(g)2.
 - Calculations showing surface ponding will drain within 24 hours after the design storm event per SPS 382.36(6)(g)3.
- Stormwater and Clearwater Subsurface Infiltration Plumbing Systems Requirements per SPS 382.365
 - A site and soil evaluation must be included in accordance with the requirements in SPS 385.40(3)(a) and 385.30 (1)(c).
 - Soil Evaluation - Storm (SBD-10793) form signed by the CST/PSS have been completed for all proposed subsurface infiltration areas and are included with a signed site map. Form available at: <https://dsps.wi.gov/Documents/Programs/Plumbing/SBD10793.pdf>
 - Soil profile evaluations used to determine soil application rates shall be conducted using soil pits per SPS 385.20(2)(c)1.
 - Soil profile evaluations used to determine or identify soil horizon depths, soil color, soil texture, redoximorphic feature colors or depth to groundwater or bedrock shall be conducted using either soil pits or soil borings per SPS 385.20(2)(c)2.
 - Soil pits elevations reported on form SBD-10793 correspond with the elevations shown on the "Site Specific Plan."
 - Calculations demonstrating groundwater mounding will not impact system performance when the width of the system exceeds 15 feet.
 - Calculations showing subsurface drainage system will drain down within 72 hours after a storm event and surface ponding will drain down within 24 hours after a storm event.
 - Details with section views of infiltration systems included showing elevations of all critical components.
 - Documentation showing the influent quality complies with the requirements in Table 382.70-1 for subsurface infiltration and irrigation.
 - Laboratory test results or other documentation included that demonstrates that stormwater collected on-site for use in an on-site plumbing system meets or will be treated to the minimum requirements listed in Table 382.70-1 for its intended use.

2. ADDITIONAL SUBMITTAL REQUIREMENTS: Check all that are applicable.

- Complete water calculations per SPS 382.40(7). **Indicate the plan page number(s) water calculations are located:**
- Submit water calculations separately if not located on the plans.** Links below for instructions and form.
<https://dsps.wi.gov/Documents/Programs/Plumbing/SBD6479Instructions.pdf>
<https://dsps.wi.gov/Documents/Programs/Plumbing/SBD6479.pdf>

Section 3. OPTIONAL SERVICE-PERMISSION TO START

Alternate Approval at: https://dsps.my.salesforce.com/sfc/p/#0000000Laz5/a/8y000002Ct0n/aMClO5babl0ysuhGm0P3mRktza4RB5xZiV_qYIj6N0

As specified within the Alternate Approval, a submittal of a complete set of plans is required to utilize the permission to start.

Scope of installations are limited to below grade only and a maximum of 18-inches above floor.

Plumbing equipment requested to the right must also be checked in Section 1.

As the building owner, I request to begin plumbing installations prior to plan review approval I agree to make any changes required after plans have been reviewed, and to remove or replace any non-code complying construction and make revisions to plans on any changes. I will not permit any installation to exceed 18 inches above the unexcavated floor.

Request is for the following specific plumbing equipment installations:

- Building Sewer, Sanitary;
- Private Interceptor Main Sewer, Sanitary;
- Private Interceptor Main Sewer, Storm;
- Building Sewer, Storm;
- Water Service;
- Private Water Main;
- Building Drain & Vent, Sanitary;
- Building Drain & Vent, Storm;
- Water Distribution System

Building Owner's Signature

Date

Section 4. OPTIONAL SIZING OF WATER SUPPLY PIPING USING THE IAPMO WATER DEMAND CALCULATOR (WDC)

Alternate Approval at: https://dsps.my.salesforce.com/sfc/p/#0000000Laz5/a/8y000004t1kG/h62oQttBGrkNbyAB2wU1XneBnVcRwHSmw0_TTTASPGY

As the applicant, I am requesting to use the *IAPMO Water Demand Calculator v. 2.2* for sizing the water supply piping in accordance with SPS 382.40(7) outlined in the alternate approval. I understand this alternate standard provides a method for estimating the demand load for the building water supply and principal branches for one- and two-family dwellings as specified in s. SPS 320.02(1)(a), (ce), (cm), or (cs) Wis. Adm. Code and nonpublic multiple dwellings, as defined by s. SPS 381.01(155) and (162) Wis. Adm. Code, with water conserving plumbing fixtures, fixture fittings and appliances.

The applicant acknowledges the following items:

1. Review and include a copy of the DSPTS approval PP-031603529-PTOAA letter with the IAPMO WDC submittal.
2. Provide verbiage for a sign or posting with permanent tagging at the building control valve and water heater control valve to identify the specific IAPMO Water Demand Calculator Sizing system.
3. Provide IAPMO WDC calculations for each piece of distribution piping using the IAPMO WDC sizing method.
4. All piping sized using the IAPMO WDC alternative shall display bold, underlined and italicized GPM loads on the isometric plan sheets.
5. WSFUs shall not be combined with WDC GPM's (mains or vertical risers); therefore, provide actual fixture GPMs loads for each non WDC fixture, if adding to the WDC method distribution system. Separate water distribution piping systems may use Wis Code SPS 382.40(7) WSFU's provided they are connected upstream of the beginning of any IAPMO WDC system method sizing piping.
6. Water distribution piping 1/2" or 3/4" in diameter serving plumbing fixtures shall not have a load greater than those assessed per pressure available for uniform loss ("A" value) in Tables SPS 382.40 4-11 Wis. Adm. Code and tables for ASTM D1785 and ASTM F441 in the appendix.
7. All fixtures and replacement fixtures shall be at or below the designed fixture flow rates and shall be Energy Star rated for the IAPMO Water Demand Calculator Sizing system. Provide fixture cut sheets with low flow & energy star certification with the IAPMO submittal.
8. Water supply piping shall be sized and installed in strict accordance with IAPMO Water Demand Calculator v. 2.2, Chapters 381-386 Wis. Adm. Code and the alternate approval.

Applicant's Signature

Date

Section 5. ATTESTATION

Applicant acknowledges that the submittal is complete and accurate.

Applicant acknowledges that any additional application or submittal information requested must be received by the Department within five (5) business days or the plan is subject to denial. Applicant further acknowledges that any additional plan review information requested must be received by the Department within fifteen (15) business days or the plan is subject to denial.

Include this form with the plan review application separately from the plan documents.

Applicant's Signature

Date