



Detroit Water and Sewerage Department
6425 Huber Street
Detroit, MI 48211

DRAWING/PLAN SUBMITTAL REQUIREMENTS

The following information shall be included on drawing/plan submissions. This is not an exhaustive list and may be updated at DWSD's discretion. Please see the DWSD Service Connection Standards for more detailed utility information.

GENERAL

- Plans shall be signed and sealed by a Professional Engineer registered in Michigan.
- Plans shall include the name, address, and phone number of the developer.
- Plans shall include the name, address, and phone number of the owner (if different from the developer).
- Plans shall include the name, address, and phone number of the design engineer.
- Plans shall be 24 inches x 36 inches.
- Plans shall include a north arrow. Plan sheets shall be oriented with the north arrow pointing toward the top of the page or the left side of the page.
- Plans shall include a location map showing major roads, nearby cross-streets, and property lines.
- Plans shall include a scale. Scale shall not be smaller than 1 inch = 40 feet (horizontal) and 1 inch = 4 feet (vertical) unless approved by DWSD.
- For larger projects, provide water and sewer layers only shown on a 1 inch = 100 foot scale utility plan. An additional overall utility site plan shall be provided.
- Provide a minimum of two benchmark locations and elevations on the plans and a list of the benchmarks used in establishing the vertical datum. Vertical datum shall be referenced to NAVD 88.
- Show parcel identification number(s).
- Show existing or proposed site address.
- Provide the complete legal description of the parcel(s).
- Provide the size (lot area) of the site.
- Submit approved property split/join documents.
- Show property lines and rights-of-way.
- Show existing and proposed street names with labels identifying if the roads are public or private.
- Show existing and proposed easements. Existing easements shall be labeled with the liber and page number of the recorded easement.
- Provide a topographical drawing.
- Provide existing and proposed grade lines at a minimum resolution of 1 foot. Profile grades to match plan view.
- All non-standard details shall be shown on the plans. The following note is required to be shown on the plans if standard details are shown: "THE OMISSION OF ANY CURRENT STANDARD DETAIL DOES NOT RELIEVE THE CONTRACTOR FROM THIS REQUIREMENT. THE WORK SHALL BE PERFORMED IN COMPLETE CONFORMANCE WITH THE CURRENT DWSD STANDARD SPECIFICATIONS AND DETAILS."
- The following note is required to be shown on the plans: "DWSD inspection is required while work is uncovered."

UTILITIES

- Provide the location of all existing and proposed water and sewer utilities. Label pipe diameters, materials, and flow directions.
- Show all proposed work with bold lines.
- Highlight new water and sewer connections.
- For all water and sewer assets, indicate which are private versus public.
- Show lateral distance from the right-of-way line to each DWSD utility on each drawing.
- Profile shall include inverts, rim grades, hydraulic grade lines, lengths, slopes, and drop connections as applicable. Show all utility crossings on the profiles. Sewer grades shall agree with inverts and rim elevations. Profiles are not required for private sewers.
- Provide a quantity chart for materials on drawings.
 - List quantity of pipe by diameter.
 - List quantity of manholes by diameter.
 - Provide a casting schedule including manhole/structure number corresponding to the plan, casting type (manufacturer and catalogue number), rim elevation, manhole invert and manhole depth, and the riser height.
- Provide the following notes on the plans:
 - "Hydrants connected to DWSD system shall be painted red. Private hydrants shall be painted yellow. Non-potable hydrants shall be painted violet/gray."
 - "Private hydrants will only be able to be turned off via a gate valve next to the hydrant, not by internal means."
 - "No fire hydrant is to be used without obtaining a permit."
 - "Winter work on water mains/services depends on providing proper conditions such as warm gaskets, heated water, heated sand/concrete material, etc. and is subject to DWSD's representative's approval."
 - "Pressure testing of the piping is required before connecting to DWSD system."
 - "Bacteriological testing by DWSD is required before installing a meter and connecting the pipe to DWSD system."
 - "Only DWSD personnel/contractors are allowed to operate DWSD gate valves unless permission is granted."
 - "Only DWSD personnel/contractors are allowed to operate hydrants unless a permit is obtained."