

Public Water Supply District No. 2 of St. Charles County, MO

New Development Project Plan Submittal

Check List

Requirements for all plan submittals:

- Two (2) sets of 24 x 36 hard copies along with the digital version in PDF of the plans are required for review.
- Include a note stating that the Water District requires one (1) week notice before the start of construction.
- Include a note stating that it is the contractor's responsibility to obtain any City or MODOT permits required to work along the roadways.
- Include all appropriate Water District's details on plan submittals.
- All plans must be signed and sealed by a Professional Engineer registered in the State of Missouri.
- Provide a preliminary record plat with the Water District's required language with all plan submittals. A copy of said language is available upon request.
- Provide copies of legal description(s) and associated easement plat(s) for all off-site main extensions, as appropriate.
- All utility easements being dedicated by a record plat or an offsite easement document must be depicted on the site plan / utility plan sheets.

Requirements for all public water main extension plans:

- Prior to plan submittal, perform pressure and flow test at a nearby location. Coordinate with Water District staff to verify appropriate testing location(s) and so that staff may be available to witness test(s).
- Include a note stating that all water mains, valves, fittings, hydrants, and related items are to be installed in accordance with the current PWSD#2 of St. Charles County Guidelines and Specifications as approved by MODNR Review No. 6050805-13.
- Include a note stating that all meter pits / vaults must be installed in "green space" per the Water District's specifications.
- Include a note to any proposed connections to an existing public water main which states that the connection must be made per the Water District's specifications.
- All existing and proposed utility easements must be called out on the utility plan sheet(s).
- Call out all required bends (or deflection as appropriate) on the utility plan sheet. 90 degree bends are prohibited unless absolutely necessary for the alignment.
- Isolation valves should be provided at intervals typically not greater than 500 feet.
- A minimum of two (2) valves shall be provided at all tee intersections.
- Fire hydrants shall be provided at minimum intervals as dictated by the local fire district, but typically shall not exceed 600 feet. The Water District requests that consideration be given to locate required fire hydrants near intersections, high points, low points, and/or in the immediate vicinity of required inline valves where possible.
- Provide a copy of the hydraulic analysis of the project's proposed public water main extension.

- Provide correspondence from the local fire department stating that they have reviewed and approve of the plans.
- For projects requiring the construction of booster pump stations, wells, storage, or significant off-site upgrades, coordination with Water District staff is recommended prior to plan submittal.
- Include all of PWSD#2 water details that are associated with the project plans.

Requirements for all public sanitary sewer extension plans:

- Include a note stating that all sanitary sewer mains, manholes, fittings and related items must be installed per the PWSD2 Guidelines and Specifications as approved by MODNR on July 30, 2015.
- Add a note to any proposed connections to the existing public sanitary sewer mains which states that the connection must be per the Water District's specifications.
- On the cover sheet, provide a calculation of the sanitary sewage estimated to be generated from the project site. Utilization of the following calculation format is recommended: _____lots x 370 gallons/lot/day = _____gallons per day.
- Manhole spacing shall generally not exceed 400 feet.
- The angle between incoming and outgoing pipes in a manhole shall be equal to or exceed 90 degrees.
- Outside drop manholes are required at locations where incoming pipe flowline elevation(s) are two feet or more above outgoing pipe flowline elevation.
- For projects requiring the construction of lift stations, wastewater treatment facilities, or significant off-site upgrades, coordination with Water District staff is recommended prior to plan submittal.
- Provide a letter from the proper authority that they will accept the sanitary sewer effluent from the project site when it is located in areas that will be treated by either Duckett Creek or the City of O'Fallon.
- Include all of PWSD#2 sanitary sewer details that are associated with the project plans.

Requirements for all private commercial service lines, fire lines, and water main plans:

- Include a note that states that all water service lines, fire lines, and private water mains must be installed per PWSD No. 2's specifications.
- Call out all water lines as "private" on the plans.
- Call out the size and material type for all service lines and water mains.
- Call out all required bends for private water mains of the plans.
- Add a note at the connection point to the existing "public" water main that will serve the site that states, the connection must be made per PWSD No. 2 specifications.
- All water mains that will be either serving a fire hydrant or a fire line for a building is required to have a detector check or a pyramid box installed in "green space". Its location is required to be depicted and called out on the plans.
- Include a note to the plans that states, all "private" fire hydrants are to be painted red per PWSD No.2 specifications.
- Provide correspondence with the local fire department that they have reviewed and approved the plans.
- Include all of PWSD#2 water service details that are associated with the project plans.

Requirements for all private commercial and residential sanitary sewer laterals:

- Include a note to the plans that states, that all lateral connections must be made per PWSD No. 2's specifications.
- Include a note to the plans that states, the entire length of the sanitary sewer lateral must be inspected by PWSD No. 2's personal.
- Include a note that states, that all sanitary sewer laterals are "private" and maintained by the property owners.
- Include a note that states, that all sanitary sewer laterals are required to be schedule 35 PVC pipe.
- Include a note top the plans that states, any sanitary sewer lateral that is installed at a depth greater than 15' deep is required to be a schedule 40 PVC pipe.
- Include a note that states, all sanitary sewer laterals are prohibited from containing bends greater than a 45 degree angle.
- A cleanout is required within a 10' distance from the buildings foundation.
- A cleanout is required within a distance of 10' from the connection to the existing sanitary sewer main.
- Laterals that are in excess of 100' must have a clean out located at every 100' of piping.
- Depict the sanitary sewer lateral locations on the plans.