

**Date:** Tuesday, May 16, 2023

**To:** ENGINEERING SOLUTIONS  
50 SE 30TH ST  
LEES SUMMIT, MO 64082

**From:** Susan Nelson, P.E.  
Senior Staff Engineer

**Application Number:** PL2023064

**Application Type:** Engineering Plan Review

**Application Name:** Town Centre Logistics - Public Water

The Development Services Department has completed its review of the above referenced plans dated May 8, 2023 and offer the following comments.

- See comments below to determine the required revisions and resubmit to the Development Services Department public portal located at [devservices.cityofls.net](https://devservices.cityofls.net). Digital documents shall follow the electronic plan submittal guides as stated below.
- Revised plans will be reviewed within ten (10) business days of the date received.

#### **Engineering Review**

1. Please station the inline gate valve and both private fire line connection points in the plan view.
2. At Sta: 0+00, install a 90-degree bend. No valves are needed.
3. At the location of the west side fire line (needs a station), install a new 8" tee with two 8" gate valves (NE) and (SE) and thrust block. Add note that the (SE) valve to the fire line must be restrained to the tee with an anchor fitting.
4. At Sta. 17+31.66, install new 16" x 8" cut-in tee with an 8" gate valve (W) an a 16" butterfly valve (N).
5. At Sta. 16+66.76 install a 90-degree bend. No valves are needed.
6. Move the private fire line connection (needs a station) to approximately mid distance between Sta. 16+66.76 and the first bend at Sta. 16+50.76. Install a new 8" tee with an 8" gate valve (W) and thrust block. Add note that the (W) valve to the fire line must be restrained to the tee with an anchor fitting.

In order to calculate the Engineering Plan Review and Inspection Fee, a sealed Engineer's Opinion of Probable Construction Costs shall accompany your final submittal copies. The itemized estimate (material and installation) shall be sufficiently broken down and shall include the following items, as applicable.

- Public infrastructure, both onsite and offsite.
- Private street construction, including parking lots and driveways.
- Sidewalks located within the right-of-way.
- ADA accessible ramps.
- Sanitary sewer manholes and piping between manholes, including private mains.
- Connection of the building sanitary sewer stub to the public main.
- Waterlines larger than 2 inches in diameter, valves, hydrants, and backflow preventer with vault, if outside the building.
- Stormwater piping greater than 6 inches in diameter, structures, and detention / retention facilities - public or private.
- Water quality features installed to meet the 40-hour extended duration detention requirements.
- Grading for detention / retention ponds.
- Grading to establish proper site drainage.
- Utility infrastructure adjustments to finished grade (i.e. manhole lids, water valves, etc.).
- Erosion and sediment control devices required for construction.
- Re-vegetation and other post-construction erosion and sediment control activities.

### **Electronic Plans for Resubmittal**

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All Planning application and development engineering plan resubmittals shall include an electronic copy of the documents as well as the required number of paper copies.

Electronic copies shall be provided in the following formats

- Plats – All plats shall be provided in multi-page Portable Document Format (PDF).
- Engineered Civil Plans – All engineered civil plans shall be provided in multi-page Portable Document Format (PDF).
- Studies – Studies, such as stormwater and traffic, shall be provided in Portable Document Format (PDF).

Please contact me if you have any questions or comments.

Sincerely,

/s/ electronically signed May 16, 2023

Susan Nelson, P.E.  
Senior Staff Engineer  
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cc: Development Engineering Project File