

**Date:** Tuesday, July 02, 2019

**To:**

OLSSON

Fred Schlegel, P.E.

Email: fschlegel@olsson.com

Fax #: none

**From:** Gene Williams, P.E.

Senior Staff Engineer

**Application Number:** PL2019214

**Application Type:** Engineering Plan Review

**Application Name:** THE PRINCETON SENIOR LIVING- SE OLDHAM PKWY - WATER MAIN EXTENSION

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The Development Services Department received plans for this project on June 21, 2019. We have completed our review and offer the following comments listed below.

- Resubmit three (3) full size sets of plans (no larger than 24"x36") folded to 8-1/2"x11", one (1) comment response letter, and one (1) digital copy following the electronic plan submittal guides as stated below.
- Revised plans will be reviewed within five (5) business days of the date received.

#### **Engineering Review**

1. The water line plans should be separated-out from the Street/Stormwater set. A cover sheet should be prepared, along with an index of sheets. This is needed to the necessity to obtain a separate MDNR permit.
2. It appears that one (1) additional air release valve and vault is needed at the high point near station 14+35 shown on Sheet W2.1. It also appears that an additional air release valve and vault is required near station 31+48 shown on Sheet W2.5 (i.e., the opposite side of the stream crossing).
3. Sheet W2.3: Please provide a reference to the encasement detail (i.e., WAT-12) shown on Sheet W3.1 using standard drafting notation.

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,

*Original Signed*

Gene Williams, P.E.  
Senior Staff Engineer  
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Gene.Williams@cityofls.net

cc: Development Engineering Project File