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**PUBLIC WORKS ENGINEERING DIVISION**

**Date:** Friday, February 10, 2017

**To:**

OLSSON ASSOCIATES

Melissa DeGonia, P.E.

Email: MDegonia@OLSSONASSOCIATES.COM

Fax #: (913) 381-1174

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

Senior Staff Engineer

**Application Number:** PL2017014

**Application Type:** Engineering Plan Review

**Application Name:** Eagle Creek 15th Plat - Water Line Plans

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The Public Works Department received plans for this project on January 19, 2017. We have completed our review and offer the following comments:

**Engineering Review**

1. Sheet 2: Please consider using a different lineweight or linetype for the right of way. It is difficult to determine where the water line is being installed versus the right of way line since they appear to be the same linetype and lineweight.
2. Please remove the short stub to serve PRI property on Ladderback Drive. It will not be necessary at this time.
3. Sheet 3: Please change the cross fitting at Ladderback Dr. and River Trail Rd. to a tee, and show one (1) valve on the south side of the tee. For purposes of meeting the "two valves at a tee" requirement, the in-line valve serving the temporary fire hydrant at station 10+00 can be counted. In other words, only one (1) valve is needed south of the tee at station 10+86.
4. Sheet 3: The notation for the fire hydrant at station 10+00 at the northeast end of River Trail Rd. calls-out a 6" gate valve. Was this intended to be an 8" gate valve? Please note this will need to be an in-line temporary hydrant to be moved at a later date. Fire hydrants are not allowed within any radius of a future intersection.
5. Sheet 5: Please see previous comments related to the deletion of the connection to the north PRI property. Please revise the location of the gate valves as previously discussed.

6. Sheet 6: The standard detail for trenching and backfill of the water line does not appear to meet the Design and Construction Manual. Please show the trenching and backfill to be used in non-paved areas versus paved areas. Please show bedding to be crushed rock a minimum of 6" above the top of pipe.
7. Sheet 6: It appears the standard detail for valve boxes and covers was not provided.
8. The fire hydrant at the south connection of the existing Ladderback Dr. to the proposed Ladderback Dr. at station 13+68 should be converted to an offset fire hydrant rather than removed. Otherwise, the length between fire hydrants along Ladderback Dr. is greater than 500 feet. Please note that fire hydrants located along cross-streets cannot be counted to meet the 500 foot rule.
9. The Engineer's Estimate of Probable Construction Costs appeared to be missing the following items: 1) removal of existing temporary fire hydrant, 2) conversion of the temporary fire hydrant on the south connection of Ladderback Dr. at station 13+68 to an offset fire hydrant.

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**Electronic Plans for Resubmittal**

Beginning Monday, May 23, 2016, 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 will not be required for initial application submittals at this time as the plans are subject to change.

Electronic copies shall be provided on CD in the following formats

- Plats – All plats shall be provided in Tagged Image Format File (TIFF) Group 4 compression.
- Engineered Civil Plans – All engineered civil plans shall be provided in Tagged Image Format File (TIFF) Group 4 compression. All sheets shall be individually saved and titled with the sheet title.
- Architectural and other plan drawings – Architectural and other plan drawings, such as site electrical and landscaping, shall be provided in Portable Document Format (PDF).
- Studies – Studies, such as stormwater and traffic, shall be provided in Portable Document Format (PDF).
- It is requested that each plan sheet be a maximum of 2MB.

Please contact Staff with any questions or concerns you may have.

If you have any questions or comments, please contact me, Gene Williams either at (816) 969-1800 or e-mail to [Gene.Williams@cityofls.net](mailto:Gene.Williams@cityofls.net).

Sincerely,

*Original Signed*

Gene Williams, P.E.  
Senior Staff Engineer

cc: Development Engineering Project File