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### **DEVELOPMENT SERVICES**

Date: Thursday, March 09, 2023

- To: ANDERSON ENGINEERING INC 941 W 141ST TERRACE SUITE A KANASAS CITY, MO 64145
- From: Gene Williams, P.E. Senior Staff Engineer

Application Number:PL2023039Application Type:Engineering Plan ReviewApplication Name:THE PRINCETON - Detention Basin Conversion to Permanent Pool

The Development Services Department has completed its review of the above-referenced plans and offer the following comments listed below.

- See comments below to determine the required revisions and resubmit to the Development Services
  Department public portal located at <u>devservices.cityofls.net</u>. Digital documents shall follow the electronic
  plan submittal guides as stated below.
- Revised plans will be reviewed within five (5) business days of the date received.

## **Engineering Review - Corrections**

- The plans appear acceptable, but the stormwater memorandum should be revised to include a section on why an emergency drain is not being provided. It ahould also be revised to include a brief discussion that the existing basin will be excavated on the bottom, and hence the storage volume will not be reduced since the permanent pool elevation will be slightly below the existing detention basin bottom.
- 2. An itemized cost estimate should be included in the final submittal drawings for purposes of calculating the Engineering Plan Review and Inspection Fee. Items to include in the estimate include: 1) grading, 2) rip rap, 3) erosion and sediment control measures, and 4) final restoration including sodding, seeding, fertilizer, mulch, and topsoil. It is not necessary to include the retaining walls or aerator.

## **Traffic Review - No Comments**

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**

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 mulit-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 Mar. 9, 2023

Gene Williams, P.E. Senior Staff Engineer (816) 969-1223 Gene.Williams@cityofls.net

cc: Development Engineering Project File