

**Date:** May 31, 2021

**To:** HG CONSULT, INC  
Kevin Sterrett, P.E.  
9007 PINE ST  
LENEXA, KS 66220

**From:** Gene Williams, P.E.  
Senior Staff Engineer

**Application Number:** PL2018209

**Application Type:** Engineering Plan Review

**Application Name:** Cobey Creek 1st Plat - Revisions to Grading and Diversion Berm

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The Development Services Department has completed its review 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 [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 five (5) business days of the date received.

#### **Engineering Review**

1. Slope of swale is less than 2.0% in the vicinity of sta 6+50. This area also appears to be a very critical portion of the swale. Upstream slope appears to be over 3%, which may allow for some adjustment in this area.
2. End of swale abruptly ends near the emergency spillway for the detention basin with no further existing contours or proposed contours presented. Additional extension of the swale is needed. It should be extended far enough to ensure the flows carried by the swale do not jeopardize the integrity of the dam.
3. What is the plan for the existing field inlets in the rear yards of the east lots? Are the throats going to be sealed with concrete and rebar?
4. What is the plan for the existing field inlets in terms of adjustment to grade? Are the field inlet tops going to remain above grade?
5. Cross-sections are warranted for the diversion berm. A typical section view is not sufficient for a critical feature such as a diversion berm. Recommend one (1) cross-section at 50 foot intervals or less. HGL for

the 100 year event should be shown for each cross-section. Finally, the area in the northeast corner of Lot 12 does not appear to show a berm. Ensure there is a cross-section in this location showing the berm.

6. Sheet 33: What is the purpose of the swale detail shown in the upper right? Shouldn't it be removed?
7. Plan view contours show diversion berm top that is not flat. Recommend showing flat top diversion berm throughout, with a top width to be determined by engineer. Recommend a minimum 3 feet width to ensure long-term integrity of the berm.

### **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/ Gene Williams electronically signed May 31, 2021

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cc: Development Engineering Project File