

DEVELOPMENT SERVICES

Date: Friday, April 12, 2024

To: Matthew Kriete, P.E.

Engineering Surveys and Services

From: Gene Williams, P.E.

Senior Staff Engineer

Application Number: PL2023171

Application Type: Engineering Plan Review

Application Name: Wilshire Hills 4th Plat - Streets and Storm

The Development Services Department has completed its review of the above-referenced plans dated Mar. 27, 2024 and offers the following 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 ten (10) business days of the date received.

Engineering Review - Corrections

- 1. Sheet C2.17: The upper right hand inset detail does not make sense. The 100%clogged/zero available storage condition HGL which appears to be below the emergency spillway crest elevation callout. The clogged condition/zero available storage should be higher than the emergency spillway crest elevation, not below the crest elevation. Please evaluate and revise as appropriate, and if applicable, please update and revise the stormwater report as appropriate.
- 2. Perforated riser did not appear to be included in the routing calculations. Why was this done? In addition, the 4.5 inch orifice within the interior of the outlet structure is shown after the perforated riser, and thus would not be valid as shown in the stormwater report? Please evaluate and revise as appropriate.
- 3. Hyrograph 18 contained within the appendix appears to show a 100 year water surface elevation for the 100 year event as 920.88. This elevation differs from what is shown on the plans (i.e., 921.00). Please evaluate and revise as appropriate, including any revision necessary to the stormwater report and plans.
- 4. Storage shown on the same hydrograph appears to differ from what is shown on the detention basin plan Sheet C2.17. Plan Sheet C2.17 appears to show 187,600 cubic feet of storage, but the hydrograph appears to show 182,059 for the 100 year event. Please review and revise as appropriate.
- 5. Please title Sheet C2.17 as "BMP and Detention Basin Plan". This will enable our GIS technicians to enter

the information to our GIS system.

- 6. Sheet C2.17: The detail view of the outlet structure does not make sense in regard to the 2.2 foot weir shown in the outlet structure. Recommend an additional section view to show the dimensions of this weir and where it is located in relation to all other features within the outlet structure.
- 7. Perforated riser is shown with attachment points, but no specific details are provided. Please provide specific details for support of the perforated riser to ensure this feature is adequately supported. Please revise as appropriate.
- 8. It does not appear any stormwater will enter the top of the box based on the discrepancies listed above. Please evaluate and revise as appropriate. No further review of the detention basin was conducted based on the discrepancies listed above.

Traffic Review - Not Required

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	s, such as stormwater an	d traffic, shall be	provided in Portable Docun	nent Format (I	PDF)	١.
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Please contact me if you have any questions or comments.

Sincerely,

/s/ electronically signed Apr. 12, 2024

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

cc: Development Engineering Project File