



DENVER • DALLAS/FORT WORTH

April 12, 2022

Attention: Michael Walton
Town of Parker
Engineering Department
20120 E Main St
Parker, CO 80138

RE: SUB21-055 Lincoln Professional Park - Stormwater 2nd Review
HKS Project No. 200829

Dear Mr. Walton,

Please find responses (in blue italics) below for comments received January 3, 2022 regarding the proposed Lincoln Professional Park project.

Traffic and Roadway Review Comments

General Comments

1. Per SDECM section 6.3.3.3 Table 6.3, all storm sewer pipes downstream of receiving flows from paved surfaces must be a minimum of 18-inch diameter. Replace all proposed 12-inch RCP with 18-inch RCP.
HKS RESPONSE: All storm sewer has been revised to be a minimum of 18-inches.
2. Extend the drainage easements to include the additional stubbed out grated top manholes proposed in each lot. Please also consider the use of a more standardized area inlet for the grated top manhole structures.
HKS RESPONSE: Easement updated. Grated manhole proposed to allow flexibility for future connections. They are not intended to capture future development instead provide a future connection point.
3. The minor storm's hydraulic grade line (HGL) must be located below the crown of the pipe at a minimum and the major storm's HGL must be located 12-inches below finished grade at minimum per SDECM section 6.3.3.4. Revise the proposed storm sewer as necessary to accommodate this requirement.
HKS RESPONSE: HGLs addressed.

4. Provide a minimum of 0.2-feet of drop between any pipe in and the pipe out of a structure. Specifically noted as not provided at Inlet A2, MH A3, Inlet A6, Inlet F1, and MH E1. **HKS RESPONSE: Addressed.**
5. Provide the invert of the pipe leaving MH A31.
HKS RESPONSE: Label added
6. Based on measurements taken from the plans Storm Line B does not appear to have the minimum 12-inch of cover required by SDECM section 6.3.3.1. Please note that the 12-inches of cover is measured from the bottom rather than the top of the proposed pavement section. As measured on the plans only 0.9-feet is provided at the flowline of Inlet B1.
HKS RESPONSE: Grading revised.
7. Provide a detail for the pond forebay which complies with Figures 7.1 or 7.2 of the Town's SDECM. The detail should provide at a minimum all dimensions, elevations, material, reinforcement, and any other information necessary to construct the forebay in compliance with the drainage report. Specifically, provide the required bedding material and steel reinforcement in the forebay detail. Alternatively, include this structure type in note 5 and 6 regarding shop drawings.
HKS RESPONSE: Pond forebay detail revised.
8. The forebay baffle wall and block layout does not appear to match between the profile and plan view. Revise to match
HKS RESPONSE: Pond forebay detail revised.
9. Provide a detail for the pond emergency overflow spillway which complies with Figure 7.6 of the Town's SDECM. The detail should provide a minimum of all dimensions, elevations, material, reinforcement, and any other information necessary to construct the emergency overflow spillway in compliance with the drainage report. Specifically noted several dimensions along with the spillway profile are missing.
HKS RESPONSE: Overflow detail revised.
10. Provide a detail for the pond outlet control structure which complies with Figures 7.5 or 7.9 of the Town's SDECM. Specifically noted missing close mesh grates above micropool, 4-inch drop for initial surcharge volume, manhole steps, rebar layout, and bedding material.
HKS RESPONSE: Pond Outlet detail revised.

Please contact me if you have any questions or require additional information at omccracken@hkseng.com or 303-623-6300.

Sincerely,

HARRIS KOCHER SMITH

Olivia McCracken
Project Engineer