

April 4, 2022

Kevin Krulik
City of Lebanon
401 S. Meridian Street
Lebanon, IN 46052

Subject: RE: Stormwater Review Memorandum
Lebanon Shell Facility
CBBEL Project No. 20087.00039

Dear Mr. Krulik:

Please find herein, our response to reviewer comments per the Stormwater Review Memorandum received on March 16th, 2022.

1. *The designer should verify that structure 108 is a Manhole Type 3 as listed in the plans.*

Concur. Plans verified.

2. *Plan/profile sheets should be provided for the storm sewers. A cross-section of Sanitary Ditch should be included in the profile for the outlet to the stream.*

Concur. Storm Plan & Profile sheets provided.

3. *More information needs to be provided for the flood routing plan for the site including inundation areas, break out points, and flow paths*

Concur. Flood Routing Plan added to construction documents.

4. *Inlet capacity calculations should be included in the drainage calculations.*

Concur. Inlet capacity calculations included in Drainage Report.

5. *The diameter listed in the drainage calculations of the pipe from Structure 120 to Structure 105 does not match the diameter on the plans.*

Concur. Pipe diameter verified.

6. *Designer should verify that Type II rainfall distribution that is used in the modeling is the distribution that was originally incorporated into the model software.*

Concur. Rainfall distribution set to SCS Type II.

7. *The designers should determine the Base Flood Elevations (BFE's) for the site and provide a floodplain delineation based on the application of the BFE's to the site topography. Any fill within the floodplain will require compensatory floodplain storage.*

Concur. Base Flood Elevation noted on CG-103.

8. *A final regional detention fee will be determined by the City of Lebanon and include adjustments for inflation. It may also be determined that onsite stormwater detention should be provided for the project*

Concur. Fee and determination of on-site detention being coordinated with the City of Lebanon. Documentation of the City's decision to be provided.

9. *The designers should review the recently adopted Indiana Construction Stormwater General Permit (CSGP) requirements, especially Sections 3.1 (a) (5), 3.3, 3.4 (a) (1) and 4.1, and determine if any revisions to the submitted Stormwater Pollution Prevention Plan (SWPPP) are necessary. All references to Rule 5 and/or 327 IAC 15-5 should be replaced with references to the CSGP. The designers should also confirm by statement that the provided SWPPP is in compliance with the CSGP. The following specific items from the CSGP should be addressed in the project's SWPPP:*

- a. *It should be determined if the project site is within a watershed of a stream with a U.S. EPA approved or established TMDL and if the project site will discharge runoff to a water on the current 303(d) list of impaired waters. If applicable, provide the name of the TMDL and the pollutant(s) for which there is a TMDL and the pollutant(s) for which a water is impaired.*

Concur. Per EPA Waterbody Report, Sanitary Ditch not listed as an impaired water under 303(d). Findings noted on CE-502

- b. *The identification and status of any other state or federal water quality permits or authorizations that are required for construction activities associated with the project site. If the permit or authorization has not been obtained, provide the expected timeline for obtaining the permit or authorization.*

Concur. Permit requirements listed on CE-502.

- c. The identification and delineation of natural buffers and existing vegetative cover, such as crop or crop residue, grass, weeds, brush, and trees.*

Concur. Natural buffers and existing vegetation noted on CE-502.

- d. Size of the project area and total expected land disturbance expressed in acres.*

Concur. Project size and land disturbance noted on CE-502.

If you have any questions, please contact this office.

Sincerely,

HAMILTON DESIGNS, LLC, Part of CIVIL & ENVIRONMENTAL CONSULTANTS, INC.

Tommy Polster, P.E.
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Enclosures:

cc: