

To: Marc Maser, P.E.

From: Jimmie Joe Carl, P.E.

As per the Town of Big Flats' request, I have reviewed review comments pertain to the latest plans and SWPPP for the above-referenced project and have the following comments. This information was received on August 20, 2020.

1. Upon discussion with the Chemung County DPW, it was indicated that they have not received permit applications for the proposed drive entrances and, as such, have not completed any associated review. As such, appropriate submissions should be made to the Chemung County DPW. It is important that stormwater from these entrance drives not be directed to the County roadways (including the shoulders).
2. The most recent O & M Plan for the Stormwater Management System should be provided.
3. It is imperative that the proposed infiltration basin would not be compromised during the construction of this project. For example, if silt and sediment reach this basin, the infiltration capabilities of the basin could be greatly reduced. As such, provisions should be included in the Erosion & Sediment Control Plan to guard against this potential. As part of this E & S Plan, provisions to prevent silt and sediment from the adjacent topsoil pile from reaching the infiltration basin should be included.
4. Is topsoil proposed for the interior of the infiltration basin? If so, the design infiltration rate should consider this.
5. In regards to the proposed 12-inch dia. culvert below the drive to Hibbard Road, the following items are noted.
  - o Given the proposed invert elevations and finished grade, it does not appear that adequate cover would be proposed over the culvert.
  - o It is requested that the hydraulic sizing of the culvert consider the maximum tailwater elevation offered by the proposed infiltration basin.
6. In the "Infiltration Basin Section" on Sheet C203, it is requested that the spillway elevation be noted. What is the depth of stone within this spillway? What provisions will be incorporated into the rock lining within the spillway from having water flow freely through this rock layer?
7. It appears that runoff from portions of the proposed northeast parking/drive area could be inadvertently directed towards Daniel Zenker Drive via the entrance drive, if the grass/turf along the eastern edge of the proposed pavement in that area reaches a height that encourages runoff to be conveyed along this pavement edge (as opposed to being directed to the proposed adjacent grassed swale). It is recommended that a means to reliably convey this runoff to the proposed adjacent grassed swale be provided.
8. In regards to the grading of the sag in the proposed entrance drive that would convey runoff to the proposed infiltration basin, could more definition be provided to improve the reliability of this drainage provision.

If you have any questions or comments, please do not hesitate to contact me. Furthermore, I would be happy to meet to discuss this project.

Cc: Thomas Whispel, Stormwater Management Officer, Town of Big Flats  
Andrew Avery, P.E., Chemung County DPW