

March 11th, 2021

Mr. Bruce Flower, Chairman (Via email)
Town of Wappinger Planning Board
20 Middlebush Road
Wappingers Falls, NY 12590

**Re: Downey Propane Site Plan & S.U.P.
199 Old Route 9
CPL Project No: 14926.**

Dear Chairman Flower and Planning Board Members:

This office received the following documents:

- Cover letter dated 02/16/2021, from Al Cappelli
- Amended EAF, latest rev. 2/15/2021
- Drawings sheets 1-17, last revised February 15, 2021, prepared by Al Cappelli
- Full Stormwater Pollution Prevention Plan (SWPPP), last revised February 2021, by TW Engineering, P.C.

Based on our review, we offer the following engineering comments:

1. The Eligible NYSDEC wetlands boundary and the wetland 100' adjacent area do not appear to correspond with each other. Please explain this or adjust the adjacent area to show it properly.
2. The project requires a DEC wetland permit for work within the wetland buffer for construction of the new access. A Town of Wappinger wetland permit will also be required for these disturbances. The EAF has been revised to indicate the NYSDEC approval but should be revised to reference the requirement for the Town wetland permit and remove the requirement for Dutchess County Department of Public works approval or permitting. Old Route 9 is NOT a County road. It is a Town Road and so the Town Highway Work Permit will be required.
3. The plans should show the sight distance for each driveway.



4. The applicant has acknowledged that the well and sewage disposal system require the approval from the Dutchess County Department of Behavioral and Community Health.
5. The plans have been revised to show the northerly bypass swale going to a new catch basin along Old Route 9, but the discharge from the southerly swale is still not clear how it will safely be directed to the drainage facilities and not onto adjacent properties or into the Town Road.
6. Proposed contours should be labeled for clarity on the plans.
7. The plans should detail how the new catch basins will be installed on the existing piping along Old Route 9 and a Highway Work Permit will be required for the driveways and any work in the Town road right of way.
8. The response confirmed that the purpose of the proposed 30,000-gallon buried water tank is part of the safety features being provided and the water & hydrant will be available to the local emergency services. The plans should be revised to note this clearly.
9. The Fire Prevention Bureau is requiring involvement and annual training for the local fire company, as well as other companies that may assist in the event of an emergency at the site.
10. Per the Fire Prevention Bureau comment, a hydrant should be installed in the north east corner of the property and a knox box should be provided on the gates for Fire Department Access.

Stormwater Pollution Prevention Plan (SWPPP) Comment:

11. The plans should label the design point on both Pre and Post Development Plans.
12. The SWPPP should include the hydrodynamic separator sizing.
13. ES-1 elevation is below the bottom of the bio-retention area. This should be corrected.
14. The 10-year and 100-year post development peak elevations are above the banks of the bio-retention area. The applicant's Engineer should revise the grading so that the peak elevations are contained. It appears that there are crossing contours in this area as well. Proposed grading contours should be revised to support the design model.
15. The model should include the outlet pipe from the bio-retention outlet structure to the proposed catch basin along Old Route 9.



16. The model should include the proposed CB at the pipe junction along Old Route 9.
17. The 1-year storm event is missing from Proposed HydroCAD model results. This needs to be included, as well as the Off-site HydroCAD print outs.
18. Extension of the southern diversion swale and a connection to the existing CB should be considered to eliminate the chance of stormwater runoff entering the site storm sewer system.
19. The design needs to use 1.4 in for P on the WQv Worksheet, per NYS Stormwater Management Design Manual Figure 4.1.
20. Soil testing is needed to ensure separation to rock and ground water. When scheduled our office should be contacted to witness the testing.

If you have any questions or require any additional information, please contact me at (845) 454- 3411 extension 29.

Very truly yours,

CPL

Peter Setaro, PE

Principal

PDS/th

cc: Barbara Roberti, Zoning Administrator (by e-mail copy)
Susan Dao, Building Inspector (by e-mail)
Michael Sheehan, Highway Superintendent (by e-mail)
Paul Ackermann, Esq., Planning Board Attorney (by e-mail copy)
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