

October 10, 2017

Mr. Jimmie Joe Carl, P.E.
Chemung County Stormwater Coalition
851 Chemung Street
Horseheads, New York 14845

Dear Mr. Carl:

Thank you for your comments on the Lot #3 Hibbard Woodlands Subdivision SWPPP located in Big Flats, NY. The following letter provides responses to your comments. Enclosed with this letter, please find the amended drawings and report for your final review.

COMMENT #1:

Regarding the soil group LoE, it is my understanding that it can belong to either HSG C or HSG D, depending upon if Arnot or Lordstown components exist. Refer to the attached listing. Does the proposed stormwater basin have sufficient capacity to mitigate, if LoE is HSG C?

REPLY:

There are many ways to line a pond including compaction, clay, bentonite, and flexible membranes. Because this may be HSG C (not A or B) and a residential property, we are proposing to compact the pond bottom using the following technique which will be included in the report and drawings:

1. Clear the pond area of all trees. Fill all stump holes, crevices and similar areas with relatively imperious soils.
2. Scarify the soil to a depth of 8-10 inches with a disk, roto-tiller, pulverizer, or similar equipment. Be sure to remove all rocks and tree roots.
3. Under optimum moisture conditions (not dry or saturated), roll the soil under to a tight layer making 4-6 passes with a sheepsfoot roller to compact the soil. The soil should be compacted to a minimum of 8-inches. Once the bottom layers are compacted, replace the topsoil and compact it like the other layer(s).

COMMENT #2:

As per my understanding, the Town will require a sag in the drive profile near the entrance onto Hibbard Road, to prevent sheet runoff from the drive from being directed to Hibbard Road. Please touch base with the Town regarding this item.

REPLY:

We added a sag in the driveway per 12.12.060 (K) of the Town Code. The driveway will have a slope backward toward the site at a 1% grade for 12-feet. A 15-inch diameter corrugated metal culvert pipe will be installed under the driveway per the Town Code 12.12.060 (I). This is represented on the plans and details.

COMMENT #3:

How will runoff from the roof be collected and conveyed to the basin? Will the roof runoff be spread across the slope prior to the basin? If so, how far would this drainage discharge be from the basin?

REPLY:

The runoff from the roof will be discharged from the house downspouts and spread along the grass slope, prior to the basin. The minimum distance this water will travel before entering the basin is 52-feet. Water coming from the southeast side of the house will be conveyed to a daylight point uphill of the basin by 6-inch diameter PVC pipe.

COMMENT #4:

In accordance with the Town's Stormwater Management Ordinance, an O & M Plan and agreement would be needed for this project to ensure that the proposed stormwater management facility is maintained properly in perpetuity. The O & M Plan should include routine maintenance items. For example, if (over time) runoff from the drive is running along the drive and not being directed to the basin as intended, what actions would be taken to rectify this situation?

REPLY:

A complete Operations and Maintenance Plan can be found in Appendix P of the SWPPP report.

COMMENT #5:

Regarding the proposed outlet structure for the basin, one detail notes that the top elevation shall be 1364.0, while another notes that the top elevation as being 1363.0. Which is proposed? Also, is the top elevation for this outlet structure intended to be lower than the spillway elevation?

REPLY:

The top of grate for the outlet structure shown on C-01 was incorrect and has been changed to 1364.00' which is one-foot higher than the bottom of the spillway. It also now matches Detail #6 on Sheet C-03.

In addition, we changed the top of grate on Detail #5 on Sheet C-03 to be 1364.00' to match Detail #6 and Sheet C-01. The top of grate elevation should be 1364.00' while the bottom of the spillway is 1363.00'.

COMMENT #6:

Could the outlet structure become buoyant in a highwater situation?

REPLY:

We performed this check and the outlet structure will not become buoyant in a highwater situation. This check can be found in the SWPPP report, Section V. G.

COMMENT #7:

The conveyance system for the roof top runoff should be sized to accommodate the peak design flow rate to the basin (as a minimum). If piping is to be used, what diameter and type of piping would be utilized?

REPLY:

Piping that will be used to convey water to a daylight will be 6-inch PVC and will also be noted on the plans.

Should you have any questions please contact me at (607) 377-7990 or at maser@maser-engineering.net.

Sincerely,
MASER ENGINEERING



Marc Maser, P.E., PMP
Owner

Enc.