

From: Mark T. Arienti
Sent: Tuesday, December 1, 2020 12:41 PM
To: Jennifer Curtis
Cc: silas@walsh-eng.com; Amanda L. Lessard
Subject: WH02

Jenn,

I've reviewed the application documents submitted by Walsh Engineering on behalf of TPE ME WHO2, LLC, including the plan set dated November 23, 2020 and the Final Plan Site Plan and Conditional Use Application dated November 20, 2020, and have the following comments:

Plan Set

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- The Detention Pond P1 detail on Sheet C2.2 shows the invert out of the 15" culvert at an elevation of 239.8', which is higher than the emergency spillway elevation at an elevation of 236.0'. Please clarify.
- The Detention Pond P2 detail on Sheet C2.2 shows the invert out of the 18" culvert at an elevation of 219.5', which is lower than the bottom of the pond which is at an elevation of 220.0'. Please clarify.
- Please provide a spillway analysis for the ponds that looks at flowrate and water surface elevations in the condition where the primary outlet is plugged.
- The detention pond embankment buildup on Sheet C4.2 doesn't appear to specify the embankment material composition. Please specify what it should be.
- The Rip-rap Inlet and Outlet Apron and the Rip-rap Inlet Forebay on Sheets C4.1 and C4.2 specify use of Type II Separator Geotextile as an alternative to 6" of gravel between the rap-rap and the subgrade. Would it be preferable to be more specific as to the recommended geotextile to use as an option to 6" gravel so that the appropriate product is used?
- The Post-development stormwater plan sheet D2.0 shows a pond P-4, which doesn't seem to correspond to the Hydrocad analysis in Appendix B of the Stormwater Management Report. Please confirm that P4 and C1 are the same and make consistent.
- Plan Sheet C1.0 includes Note 8 that indicates that construction activities as the site may not occur between 10PM and 6AM. Considering the residential area that the site is located in, consideration should be given to limiting construction to the hours between 7AM and 8PM.

Stormwater Management

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- The stormwater management report includes an analysis of peak flow rates at the site that indicates that and post-development peak flow from the site will be less than or equal to pre-development flows as required by the Town's Site Plan Review Ordinance. This is achieved through the construction of two detention ponds, three level spreaders a forested buffer, and several culverts and rip-rap inlet and outlet aprons.
- Appendix C of the Stormwater Management Report includes calculations for the size of the forested buffer and level spreaders. The calculation for the forested buffer that receives the flow from Pond P1 indicates that it is slightly shorter (125' vs. 150') than would be calculated using Section 5 of Maine DEP's Stormwater BMP Design Manual. The report states that because the buffer is larger than required that it is not a problem for the buffer length to be short. Please provide a reference that indicates what the required buffer area would be.
- The design addresses stormwater quality by proposing to return the solar array area to a vegetated meadow condition that will be mowed no more than twice per year. The solar panel support are proposed to be piles or helical anchors so there will be minimal impervious surface associated with the array. The total amount of impervious area is well below an acre so a stormwater permit from

DEP, other than a permit by rule, is not required.

- The report includes a Post-construction Inspection and Maintenance Plan for Stormwater Management facilities that appears to adequately addresses the maintenance and upkeep of the proposed facilities.

Any questions about my comments, please don't hesitate to contact me,

Mark

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