



**Planning & Development**  
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**Memo**

Date: August 4, 2023

To: Planning Board

From: Michael G. Livingston, Town Engineer/Planner

Re: Rolling Woods Preserve Subdivision – Map 67, Lot 3  
Stormwater Management Review

**Information Provided**

- Design Plans by Walsh Engineering, Dated 6/29/23:
  - Existing conditions Drainage Plan, Sht. D1.1 dated 6/29/23
  - Proposed conditions Drainage Plan, Sht. D2.1 dated 6/29/23
- Stormwater Management Report dated March 10, 2023 by Connor A. Ritter. PE # 17329 of Walsh Engineering

**Analysis**

**Methodology:**

- HydroCAD model good
- Rainfall intensity rates good
- Water Quality approach good
- Analysis Points good, consistent pre vs post
- Total area the same, 1,161,490 sf pre vs post, good

**Pre-Development:**

- Basin Limits good
- Flows path good
- Areas good

**Post-Development:**

- Developed areas well isolated to convey stormwater to detention and treatment measures
- Consistent analysis points with pre-development model
- Subcatchment areas very well modelled and include all divisions
- Flow paths good.
- Ponds (25 year Event):
  - Modelling well detailed, nice
  - Ponds modelled for all ponds, culverts and DMH's and have peak elevations less than the surrounding grades or road, good
  - Exfiltration rate reasonable due to well drained soils.
  - No flooding conditions, berms at good elevations and widths.

Results:

Quantity calculations indicate no increase in estimated peak flow rates for the 25 year storm events for AP 1, 2, 3, 4 and 5. Also no increase for the 50 year storm event for AP 1. See Table in report, page 2 and conclusion on page 3.

The use of level lip spreaders and forested buffers provides good stormwater treatment.

The stormwater management plan meets Town ordinances.

Operation and Maintenance Plan:

Included in stormwater management report as an Appendix, Inspection and Maintenance Plan. The Plan consists of written narratives, inspection requirements and sample maintenance logs.

Items for ponds and drain manholes should be added.

Erosion and Sedimentation Control Plan:

Notes and details located on the 'C' Sheets

Stabilized entrance to be depicted on Sht. C3.1

The information provided on the plans meet BMP and Town standards and requirements.

Conclusion:

With the minor items above addressed. The Plans and information submitted will meet the Town requirements.