



Planning & Development
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Memo

Date: May 2, 2019

To: Planning Board; DM Roma

From: Michael G. Livingston, Town Engineer/Planner

Re: Webber Ridge Phase 2 Subdivision – Tax Map 16, Lot 8
Stormwater Management Review

Analysis:

Report provided by DM Roma Consultants, Jayson R. Haskell, PE #13002; dated 3-20-19
Pre and Post Development Maps provided: SWP-1 and SWP-2 dated 4-23-19

Preliminary Comments:

- HydroCAD software utilized for modelling, good
- Current rainfall intensity values used, good
- Area of paved road and gravel shoulders needs to be provided to confirm less than 1 acre proposed, MDEP Stormwater permit threshold
- On-site and off-site drainage basins need revisions, see plan markups. Basin limits need to follow contour lines, not property lines
- Two additional analysis points will be needed
- Existing conditions appear well modelled for surface conditions and flow paths
- Proposed conditions also well modelled for surface conditions and flow paths
- Portion of Basin 10 may need to be conveyed to FP 1 to avoid impact to abutting lot
- Ponds RC1 and 2 need to be added to plan SWP-2
- Almost all stormwater from proposed road areas is conveyed to GP1 or DP1, good
- What MDEP LID measures are to be used and on which lots as stated in Note 17, sheet 1?

Conclusions

- Treatment concept is valid but revisions needed

Design:

Roadway Plan And Profile sheets PP-1 and PP-2 and Detail Plans D-1 and D-2 dated 3-26-19 by DM Roma

Preliminary Comments:

- Good road grades and slopes
- Good detail around cul-de-sac with spot grades

- Good road cross section detail
- Lot #'s to be added
- Notes on driveway culverts to be added
- Lot 4 driveway and culvert to be installed with road due to being the connecting culvert to the pond
- Pond top of berms to be added
- Fire pond volume to be verified
- How will permanent pool be maintained?
- Minor labelling needed
- See plan markups

Conclusions

- Good overall design, items noted can be addressed with final plan submissions.