

T. G. MILLER, P. C.

ENGINEERS AND SURVEYORS

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September 15, 2017

Michael H. Long, AICP, Town Planning Consultant
Town of Lansing
29 Auburn Road
Lansing, NY 14882

Re: Lansing Trails Apartments, Storm Water Pollution Prevention Plan Review

Dear Mike,

We received a Storm Water Pollution Prevention Plan (SWPPP) and drawings C101 to C301 dated August, 2017 and the Engineer's Report dated August 21, 2017 prepared by Passero Associates. We have summarized our comments related to the stormwater management design, road design and water system extension. These comments are in addition to comments provided by Dave Herrick in an email date September 5, 2017.

Stormwater Management

1. Review existing and proposed runoff curve numbers. Are the existing conditions closer to "Meadow" than "Fair Pasture"?
2. Consider analyzing a common design point for existing and proposed conditions at the existing channel as it leaves Parcel F. Model off-site flows to understand impact from diversion swales.
3. Provide additional information for pond sizing, sub-drainage areas to pond, forebay sizing, detail invert/spillway elevations, etc. Provide infiltration test and test pit information for stormwater practices.
4. Consider piping concentrated flow from pond outlets to existing channels or consider use of level spreaders.
5. Provide pipe sizing calculations for pipes with R.O.W. Provide swale sizing calculations for diversion swales.
6. Provide stormwater treatment for Town dedicated road.
7. Clarify RRV and WQv calculations and areas of treatment. It appears total WQv required is less than provided.
8. Consider adding a second forebay to Phase 2 pond for parking lots that sheet flow to the swale/pond.
9. Is there a defined spillway or outlet for the small basin east of Building 10?
10. Complete NOI and MS4 acceptance forms
11. If phase 1 and 2 are being considered for approval, provide a Phase 1 archaeological survey for phase 2 of the project as outlined in the letter from SHPO dated September 7, 2017.
12. Review use of silt fence in areas of concreted flow. Consider alternative practices.
13. Provide details for temporary sediment basins and outlet type and location.
14. Consider providing phased grading and erosion and sediment control plan.

David A. Herrick, P.E.
Frank L Santelli, P.E.
Andrew J. Sciarabba, P.E.

Steven R. Rowe, P.E.
Dondi M. Harner, P.E.,
LEED A.P.

Lee Dresser, L.S.
Darrin A. Brock, L.S.
Edward D. Ripic Jr., L.S.

Road Design

1. Minimum vertical curve for Town Road shall be 100'. Revise as needed. See Town Road specifications.
2. Will there be public trail access through the site? Review need for easements and midblock crosswalk on Town road.
3. Has the Town agreed to build the concrete sidewalk to the Town Hall? Is this a requirement for the grant submission? Clarify where the Town constructed sidewalk and project constructed sidewalk will end.
4. It appears stormwater will sheet flow over the proposed sidewalk along the portion of Town dedicated road. Review drainage options with Highway Superintendent along the west side of the road.

Water System

1. Consider installing the water main deeper along the portion of the proposed Town road to eliminate a high point in the system.
2. A cut-in-tee and repair coupling will be required in lieu of a tapping sleeve and valve at the connection to the existing main.
3. Provide additional details and profile for crossing below Rt. 34B and south side road ditch.
4. Coordinate with Bolton Point for water main as-built requirements. Consider adding notes to plans.

NYSDOT

1. Provide comments from NYSDOT for drainage, intersection and utility installation.

If you have any questions please feel free to contact me or we can arrange a time to meet to review in more detail.

Sincerely,



Donald Harner, P.E.

Cc: T. Ellis, Chair
E. LaVigne, Supervisor
L. Day, Code Enforcement
C. Purcell, Highway Superintendent
G. Krogh, Esq.
D. Herrick, Town Engineer