




John Kellard, P.E.
David Sessions, RLA, AICP
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MEMORANDUM

TO: North Castle Planning Board

CC: Adam Kaufman, AICP
Ralph Alfonzetti, P.E.
MRL 11Whippoorwill, LLC

FROM: John Kellard, P.E. 
KSCJ Consulting
Consulting Town Engineers

DATE: August 4, 2023
Updated November 10, 2023

RE: MRL 11 Whippoorwill, LLC
11 Whippoorwill Lane
Section 107.04, Block 1, Lot 5

As requested, KSCJ Consulting has reviewed the site plans submitted in conjunction with the above-referenced project. The applicant is proposing to construct a new, single-family home on an existing 1.28 acre undeveloped, non-conforming lot. The property is adjacent to the Calder property, includes steep slopes and is also located immediately upstream of the Kensico Reservoir. The parcel does not front on a Town Improvement Roadway, instead relying on an easement/right-of-way for ingress and egress.

The proposed residence has been designed to step down the hillside with the lower level (10 feet below first floor) walking out to a patio within the rear. Beyond the patio is a proposed pool and deck. An 18 foot high retaining wall is required to support the proposed pool. A new subsurface sewage disposal system is proposed to the north of the residence. Water supply will be from North Castle Water District #5. An 18 foot wide driveway would be extended to service the residence.

The previously proposed rear yard pool has been removed from the application.

- 1. The project is located in the Kensico Drainage Basin. Disturbance of over 5,000 s.f. will require conformance with New York State Department of Environmental Conservation (NYSDEC) General Permit GP-0-20-001 and filing of a Notice of Intent (NOI) and MS4 SWPPP Acceptance Form with the NYSDEC. The applicant will need to submit draft copies to the Town Engineer for review.**

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2. **The applicant will need to submit stormwater mitigation and design calculations for the runoff generated by the net increase in impervious surface and changes to land use for the 100-year, 24-hour design storm event.**

Calculations should include mitigation of water quality and pre-treatment. The system should be sized to include the new driveway and roadway runoff.

3. **The applicant shall perform deep and percolation soil testing in the vicinity of the proposed mitigation system to be witnessed by the Town Engineer. The test locations and results shall be shown on the plan. The applicant should contact our office to schedule the testing.**
4. **The applicant is proposing to mitigate stormwater runoff through the use of Cultec infiltrators. The system is proposed within a proposed steeply sloping portion of the side yard. The system will be filled and the system will be located up to nine (9) feet below grade. The applicant should provide details and cross sections through the proposed infiltration system showing the existing and proposed grades, proposed inverts and deep soil test data.**

Deep test data extends to a depth of 72 inches. Since the system will extend nine (9) feet below grade, test data must extend to a depth of 144 inches or four (4) feet below the bottom of the treatment practice.

5. **The applicant will need to obtain approval from the Westchester County Department of Health (WCHD) and New York City Department of Environmental Protection (NYCDEP) Approval for the on-site wastewater treatment system.**
6. **Include erosion control measures on the plan, including, but not limited to, temporary construction access, silt fence, erosion control blanket, inlet protection, construction sequence, etc. Provide details. The proposed construction entrance should be located at the beginning of the project.**

The applicant should consider the installation of a temporary sediment basin during the construction phase. It would also be beneficial to restrict the disturbance of the septic fields until the disturbance around the proposed dwelling is stabilized.

7. **The applicant should provide a cut and fill analysis. The application may require a Fill Permit with the Town Building Department.**

The project will result in 1,042 c.y. of excavation and 1,264 c.y. of fill, requiring importation of 222 c.y. of fill. The applicant should clarify the volume of fill from the dwelling and stormwater

system excavation and the volume of fill required for the septic system.

8. The project will require the construction of retaining walls within the rear yard. The highest wall height appears to be slightly under 18 feet. The applicant should provide retaining wall designs for the project.

Retaining wall designs and details should be provided.

9. **Approval of the proposed water tap to the existing Water District #5 main within the rear yard will be required from the Town Water & Sewer Department.**
10. **The applicant is proposing to construct an 18 foot wide driveway from Whippoorwill Lane within the right-of-way/easement.**

The roadway design should detail the transition between the existing roadway and new roadway.

11. Town Private Roadway Standards require a minimum width of 14 feet, which the proposed roadway exceeds. Please provide a detail of the road bed specifications.

The proposed roadway will require drainage improvements which collect runoff from the roadway and pipe the runoff to the stormwater treatment system. The applicant should address drainage improvements within the proposed roadway and driveway.

12. A majority of the roadway grade is proposed at an acceptable 2.42%. There is, however, a section of the roadway shown at a much steeper grade with no information regarding the grade or vertical curve. The proposed driveway profiles should be updated to show all grades and vertical curves. Please also explain the grading outside of the easement area.

The proposed grading along the eastern shoulder of the proposed roadway does not provide a shoulder. The applicant should re-examine the eastern shoulder grading, providing a minimum three (3) foot level shoulder area adjacent to the roadway. Regrading will likely require expanding the proposed retaining wall. The applicant should also specify the proposed curbing on the plan.

13. **The applicant should include vehicle and emergency vehicle turning movements. Vehicle turning movements into and out of the driveway and emergency vehicle turnaround. The applicant should be referred to emergency services for their review and comment.**

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- 14. The applicant should re-examine the proposed elevation of the dwelling, garage and roadway in an effort to improve access grades along the driveway and drainage within the front yard. The proposed driveway is extremely steep with short vertical curves and the grading within the front yard is restricting positive surface water movement around the proposed dwelling. The applicant should perhaps examine a slight lowering of the proposed roadway at the driveway curb cut and a slight raising of the garage and first floor of the proposed dwelling. The combination adjustments should improve the proposed driveway and drainage conditions.**

As additional information becomes available, we will continue our review. It is noted that the applicant should provide an itemized response to all comments will facilitate completeness and efficiency of review.

PLANS REVIEWED, PREPARED BY ALFONZETTI ENGINEERING, P.C., DATED JUNE 12, 2023:

- Site Plan (1 of 2)
- Site Details (2 of 2)

JK/dc