

Professional Consulting, Ilc.

TO: Paul Taft, Building Inspector, Village of Bronxville
200 Pondfield Road, Bronxville, NY 10708

CC: Jim Palmer, Village Administrator

FROM: Arshad Jalil, P.E, BCEE

RE: Review of Drainage Calculations and Stormwater Management - 27 Sturgis Road

DATE: 12/9/22 **PCI No.:** 526-13

We have received stormwater management design report dated November 30, 2022, and drawings (sheets 1 of 3, 2 of 3 and 3 of 3) containing drainage calculations dated November 28, 2022.

Based on our review of these documents, we wish to offer the following comments

1. Drainage calculations and runoff retention sizing are acceptable and satisfies the stormwater required.
2. The assumed percolation rate of 0.5inch/hr. shall be field verified.
3. Min. 12-inch-thick stone bedding shall be provided below the proposed infiltrators. Village inspection will be required after the excavation and placement of 12-inch thick (min.) washed crushed stone and before the installation of the subsurface retention/drainage system.
4. Infiltrator units shall be located min. 15ft from the side yard due to proximity of the property line retaining wall and ground slopes; site plans should be revised and resubmitted for review.
5. Gutter leaf guard shall be installed to prevent leaves and debris from entering the catch basin and Infiltrator units.

6. Proposed catch basin sump shall be increased to 24 inches.
7. The Infiltrator system shall be inspected and certified every two years.
8. The owner shall visually inspect all stormwater structures for silt and debris from May-Nov, every year. Any sitting debris must be removed promptly within 12-inches of the lowest pipe invert (min. 24-inch sump is required). A maintenance agreement will be executed before use and upon the project's final completion.
9. All improvements and modifications shall comply with the NYS Stormwater Management Guidance Manual.

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