



*Civil & Environmental Engineering Consultants
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January 29, 2019

David Buckley
City of Beacon Building Inspector
1 Municipal Center
Beacon, NY 12508

Re: Infiltration and Inflow Investigation
1154 North Avenue Project
City of Beacon, New York
Tax ID: 5954-26-740983 (\pm 0.11 acre)

Dear Mr. Buckley,

Hudson Land Design (HLD) has completed an infiltration and inflow investigation at the above referenced parcel as required by the City of Beacon. The investigation was conducted on January 28, 2019 at the existing building located at 1154 North Avenue (NYS Route 9D), which consists of a two-story space that is currently vacant.

The first phase of the study consisted of an exterior inspection of the building to determine the location of roof leader discharge points. Based on the observation of the roof system from the second-floor interior, and from an uphill vantage point to the east, the entire roof pitches from front to back (west to east). There is a gutter along the back side of the building with a downspout located at the southeast corner of the building. The downspout angles to discharge in a southwesterly direction near the retaining wall.

The second phase of the study consisted of interior inspection of the building to determine if there are any illicit connections to the building sewer line from sump pumps, floor drains, etc. The building is on concrete slab with no basement. There were no floor drains, sump pumps, or any other potential source of illicit connections observed within the first floor of the building. There is an existing bathroom in the northwest corner of the second floor and appears to be a former bathroom area generally central to the building on its west side (see attachment 1 and photo 1). From the first floor, the sewer line is visible. It conveys flow southerly along the west side of the building to about midpoint, where the first-floor bathroom is located. There appears to be an additional

vent at the connection to the vertical line that conveys second floor sewage down (see photo 2). From the first floor, the sewer line appears to go into the slab, and presumably to the sanitary sewer collection system along North Avenue (see photo 3).

Based on our observations, HLD believes that there are not illicit stormwater connections from the building located at 1154 North Avenue to the City of Beacon's sanitary sewer collection system. The former toilet drain appears to be disconnected (see photo 2, left hand side). The existing floor drain was for a former bathroom on a very small concrete slab (where the remainder of the floor is wood). The floor drain is not fed by any source (e.g., HVAC condensate line) and is therefore no significant source of illicit flow to the sanitary sewer. However, as part of the application, it is proposed to physically disconnect the floor drain from the sanitary sewer.



Photo 1: Presumed former bathroom on second floor



Photo 2: View of plumbing from first floor beneath presumed former second floor bathroom

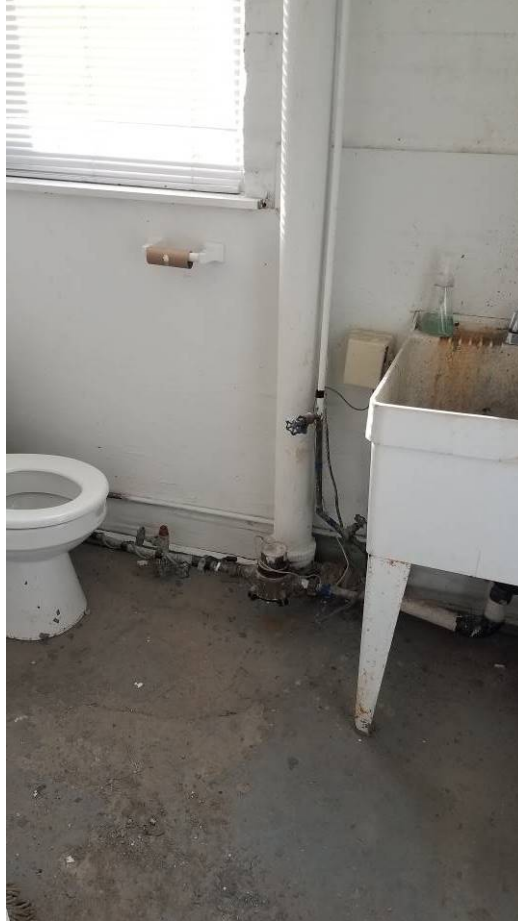


Photo 3: View of first floor bathroom, vertical sewer line from second floor
Should you have any questions, please feel free to call me at 845-440-6926.

Sincerely,

A handwritten signature in black ink, appearing to read "Daniel G. Koehler".

Daniel G. Koehler, P.E.
Principal

cc: Paola Ochoa, Applicant (via email)
Bar Down Studio, Architect for Applicant (via email)
Michael A. Bodendorf, P.E. (HLD file)

WEST CHURCH STREET



NORTH

AVENUE

(A.K.A. N.Y.S. ROUTE 9-D)

Attachment 1

MAP OF SURVEY
FOR

HIBERNATION AUTO STORAGE, INC.

CITY OF BEACON
SCALE: 1" = 20'

DUTCHESS COUNTY, N.Y.
NOVEMBER 9, 1987

IT IS HEREBY CERTIFIED THAT THIS SURVEY WAS PREPARED IN ACCORDANCE
WITH THE EXISTING CODE OF PRACTICE FOR LAND SURVEYS ADOPTED BY THE
NEW YORK STATE ASSOCIATION OF PROFESSIONAL LAND SURVEYORS, INC.

CERTIFIED TO: HIBERNATION
AUTO STORAGE, INC.; FISHKILL
NATIONAL BANK; PREMIER
ABSTRACT, LTD. (TITLE NO. 152-
4066B)

PETER R. HUSTIS, L.L.S.

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