



*Civil & Environmental Engineering Consultants
174 Main Street, Beacon, New York 12508
Phone: 845-440-6926 Fax: 845-440-6637
www.HudsonLandDesign.com*

July 26, 2018

Lt. Timothy Dexter
City of Building Inspector
1 Municipal Center
Beacon, NY 12508

Re: Infiltration and Inflow Investigation
850 Wolcott Avenue
City of Beacon, New York
Tax ID: 6054-45-120587

Dear Mr. Dexter,

Hudson Land Design (HLD) has completed an infiltration and inflow investigation (I&I) at the above referenced parcel as required by the City of Beacon. The investigation was conducted on July 10, 2018 at the existing school building located at 850 Wolcott Avenue, which consists of a two-story brick/wood construction building currently used as an educational space.

The first phase of the study consisted of an exterior inspection of the building to determine the location of roof leader discharge points. The existing two-story building consists of the original brick structure on the west side, and the newer wood structure addition on the east side. The newer addition consists of several gable peaks with valleys that discharge directly to the ground with no gutter. There are 4 surface discharge points on the north and south sides of the new addition. There are concrete channels at the bottom of the valleys that direct the water from the roof to 4" PVC pipe at each location. The 4" PVC pipe from each discharge point convey the water to two stone-filled drywells located on each side (north and south) of the building (see attached sketch). The east side of the addition has one more gable peak/valley where the water discharges directly to the ground surface.



View looking northwest at south side of newer addition



View looking west at the two stone drywells on the south side of the newer addition

The older brick portion of the building's roof line contains a single gable on its west side with several hip-style roof lines elsewhere. The south side of the building's hip roofs

have no gutters and the water sheets off the roof to the ground surface. The west side of the building has a gutter system with roof leaders that discharge to the ground surface. The north side of the building has hip roofs similar to the south side with no gutters. The water on this side of the building discharges directly to the ground surface.



View looking north at west and south side of the older brick portion of the building



View looking east at west side of the brick building



View looking southeast at north side of newer addition



View looking west at east side of newer addition

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 and the like. HLD personnel located the last section of the interior sanitary sewer plumbing. The sanitary sewer lateral flows toward the west out of the west side of the building and presumably connects to the sanitary sewer main within Rector Street. Currently, there is only a janitor closet with a utility sink located on the bottom floor. This room is in-line with the sewer lateral leaving the building. No sump pumps or floor drains were observed in the building.

Based on our observations, HLD believes that there are no illicit stormwater connections from the educational building located at 850 Wolcott Avenue to the City of Beacon's sanitary sewer collection system. A sketch showing the roof leader discharge locations and sanitary sewer lateral is attached to this letter.

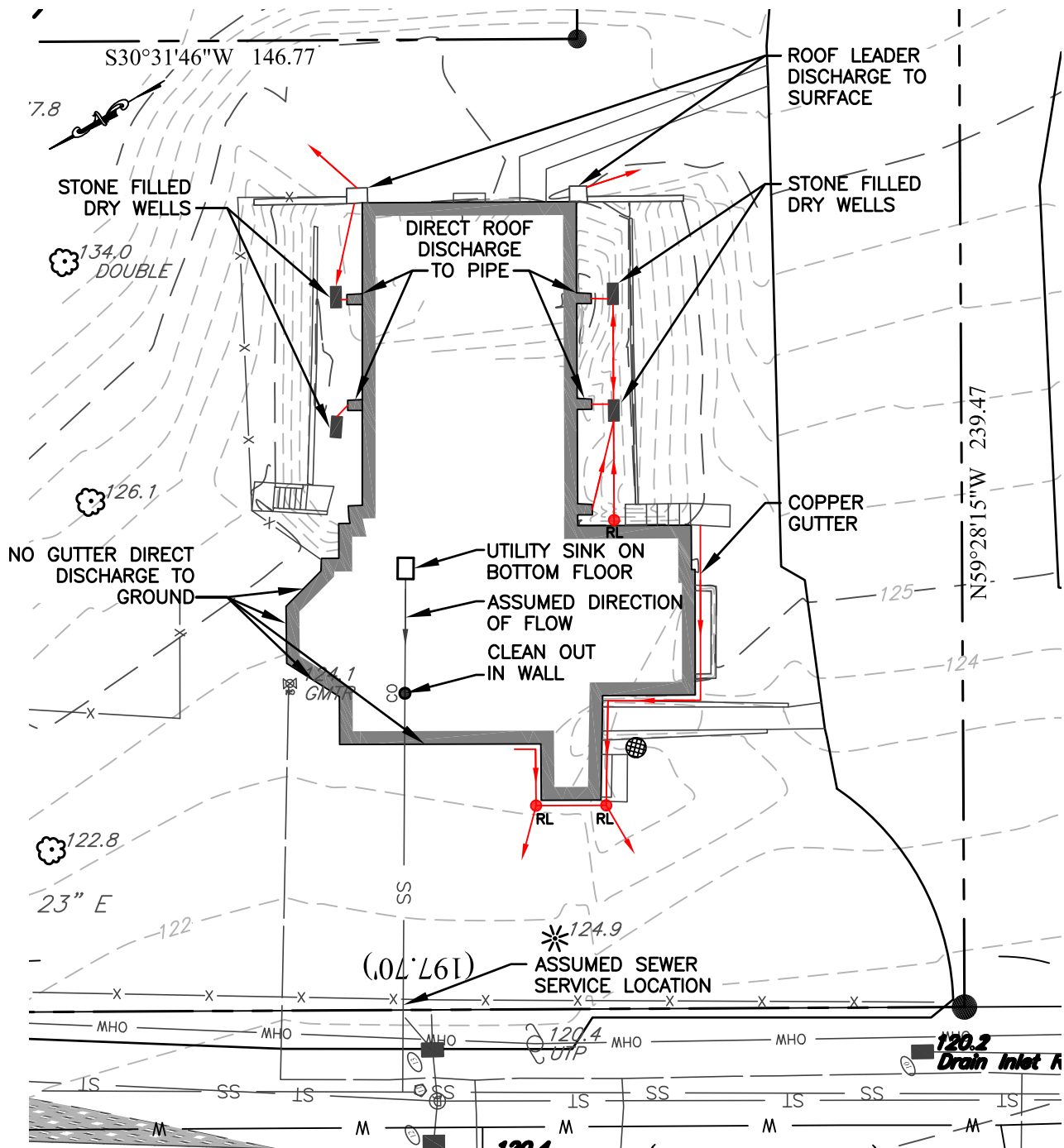
Should you have any questions, please feel free to call me at 845-440-6926.

Sincerely,

A handwritten signature in black ink, appearing to read "Mr. Bodendorf", with a stylized flourish at the end.

Michael A. Bodendorf, P.E.

cc: Rev. John Williams (via email)
Jon D. Bodendorf, P.E. (HLD file)



MAP REFERENCES:

1. EXISTING FEATURES AS SHOWN ON THIS SUBDIVISION PLAN PROVIDED IN A MAP ENTITLED "SUBDIVISION PLAT PREPARED FOR ST. LUKE'S EPISCOPAL CHURCH" DATED 02/12/2018 AS PREPARED BY T.E.C. LAND SURVEYORS.

PREPARED FOR:

REVEREND JOHN WILLIAMS

±1.02-ACRE PARCEL

40 RECTOR ST

CITY OF BEACON

DUTCHESS COUNTY, NEW YORK

TAX PARCEL: 130200-6054-45-120587

& 130200-6054-45-147598

I&I STUDY 850 WOLCOTT

SCALE: 1" = 30'

DATE: JULY 6, 2018



PREPARED BY:

HUDSON LAND DESIGN
PROFESSIONAL ENGINEERING

174 MAIN STREET
BEACON, NY 12508
PH: 845-440-6926