



*Civil & Environmental Engineering Consultants
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November 26, 2018

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

Re: Infiltration and Inflow Investigation
Industrial Arts Brewery
511 Fishkill Avenue – NYS Route 52
City of Beacon, New York
Tax ID: 6055-04-580285 (\pm 10.33 acres)

Dear Mr. Dexter,

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 November 26, 2018 at the existing building located at 511 Fishkill Avenue, which consists of a steel warehouse and office building complex which 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. The existing steel building has a gabled roof pitched slightly to the front (towards Fishkill Avenue) and rear (away from Fishkill Avenue) with a roof leaders in the front and rear of the building.

Rainwater flowing off the rear half of the building is collected by a gutter system with downspouts. The downspouts then reputedly enter a stormwater pipe that flows to the west towards a stormwater manhole on the northwestern side of the site along the property line. The onsite stormwater conveyance system from the stormwater manhole then flows southerly towards Fishkill Avenue and reputedly enters the City of Beacon's Municipal Separate Stormwater System.

The runoff collected from the front half of the building enters a gutter system with downspouts. The directionality of flow after entering the downspouts could not be determined by field inspection, but it is our opinion that the two roof leaders on the

southwestern side of the building enters a stormwater manhole in a grassed area just south of the southwestern corner of the building. The manhole then reputedly connects to the conveyance system along the western property line. The roof leaders and downspouts located in the asphalt portion the site (in front of the loading docks) and near the front entrance, reputedly enter a yard drain near the front entrance and discharge to the east into the conveyance system in the eastern parking areas. It is noted that many of the roof leader downspout connections with underground piping are in poor condition and should be replaced to prevent water from entering the building.

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. No sump pumps or floor drains were observed throughout the entire office or warehouse portion of the building.

HLD personnel could not locate the last section of the interior sanitary sewer plumbing. The sanitary sewer line flows southernly towards Fishkill Avenue's sanitary sewer collection system from the southern building foundation. At this time, no dye tests were conducted to verify flow direction.

Based on our observations, HLD believes that there are not illicit stormwater connections from the building located at 511 Fishkill Avenue to the City of Beacon's sanitary sewer collection system.

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 "Adam Gasparre", with a long horizontal flourish extending to the right.

Adam Gasparre

cc: Ronald Roth, Diamond Properties (via email)
Daniel G. Koehler, P.E. (HLD file)