



*Civil & Environmental Engineering Consultants
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October 29, 2019

Mr. John Gunn, Chairman
City of Beacon Planning Board
1 Municipal Center
Beacon, NY 12508

Re: Infiltration and Inflow Investigation
1182 North Avenue
City of Beacon, New York
Tax ID: 5955-19-738049

Dear Chairman Gunn,

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 July 18, 2019 at the existing residence located at 1182 North Avenue, which consists of a two-story framed building.

The first phase of the study consisted of an exterior inspection of the building to determine the location of roof leader discharge points. The two-story building has a “gable” roof with two gables, one gable on the western side of the building running north to south and one gable running east to west, and two covered porches. The western gable collects and conveys runoff from half of roof to one downspout and then discharges it northerly (to the rear of the residence) to the existing surface.

The northern and a portion of the western half of the gable roof has one downspout that discharges runoff northerly to the rear yard. The portion of western half of the gable roof and the southern half of the north-south gable roof each has a gutter system that collects and discharges runoff across the front walkway towards Ralph Street via overland surface flow. The southern covered porch has a gutter system that collects runoff and discharges it to the existing surface in the front yard. The eastern covered porch has a gutter system that conveys water to a downspout that discharges it southerly, towards Ralph Street via the front yard to the existing surface.

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 were able to observe sections of interior sanitary sewer plumbing to the point where the piping was routed through the southern foundation wall of the residence (located generally in the center of the building). The pipe reputedly collects the wastewater from the residence and then flows southerly toward Ralph Street's sanitary sewer collection system. HLD observed a clean-out in the basement on the interior sanitary sewer plumbing along the southern foundation wall of the residence. At no point along the length of the visible portion of the line did HLD personnel observe any discharges other than from the standard plumbed fixtures. In addition, there was one sump pump which was piped through the southern foundation wall and discharged to the surface in the front of the house towards Ralph Street. No floor drains were observed, nor were there any unidentified pipes that connected to the line beneath the basement floor.

Based on our observations, HLD does not believe that there are any illicit connections from the building located at 1182 North 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.

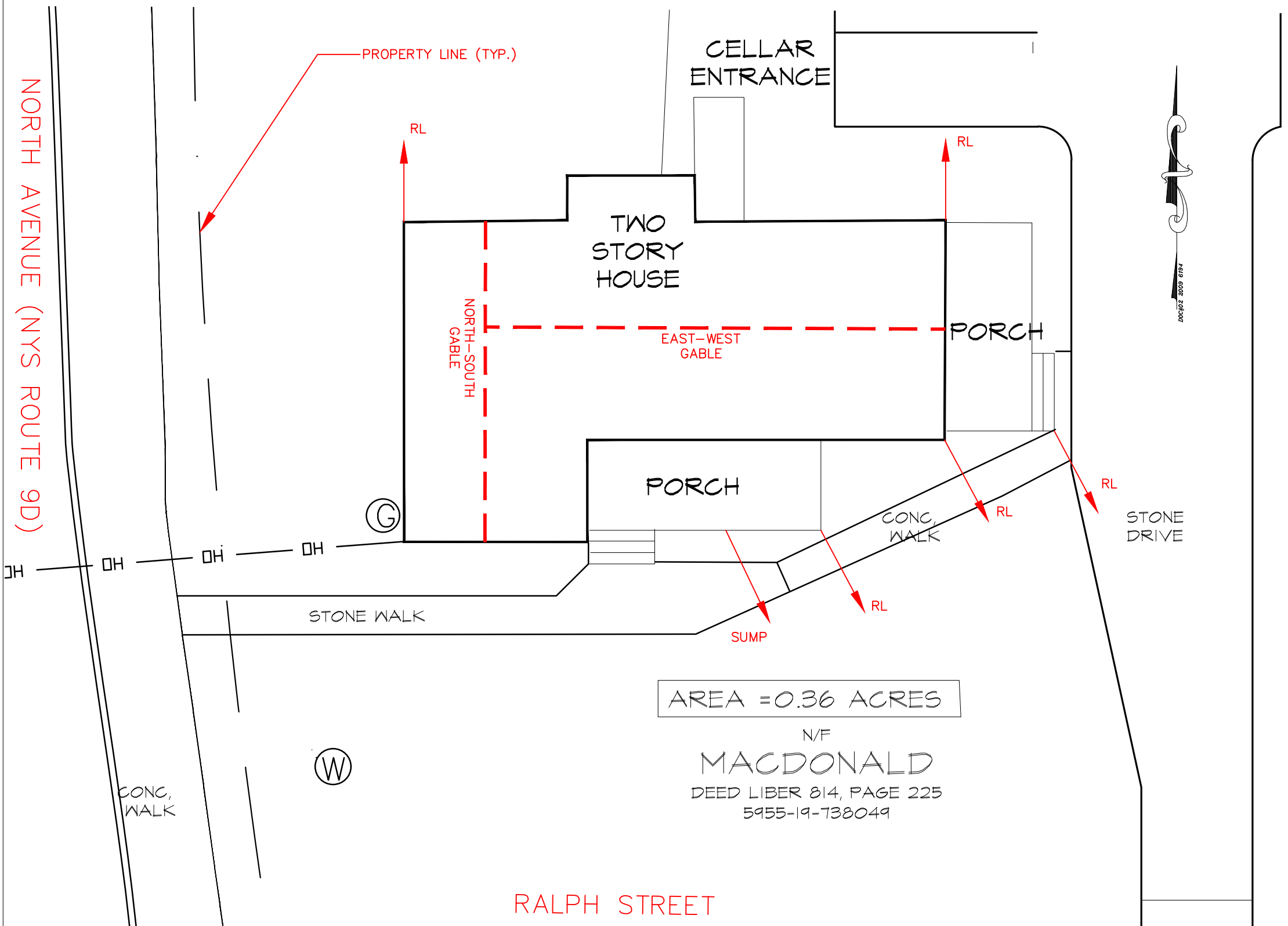
Sincerely,

A handwritten signature in black ink, appearing to read "Daniel G. Koehler". The signature is fluid and cursive, with a long horizontal stroke at the end.

Daniel G. Koehler, P.E.

cc: Andy MacDonald (via email)
Michael A. Bodendorf, P.E. (HLD file)

NORTH AVENUE (NYS ROUTE 9D)



MAP REFERENCE:
 1. BACKGROUND MAPPING TAKEN FROM A PLAN ENTITLED 'MACDONALD SUBDIVISION 1182 NORTH AVENUE CITY OF BEACON' DATED APRIL 3, 2019 AS PREPARED BY DOULAS M. FLORENCE, ARCHITECT.

AREA = 0.36 ACRES
 N/F
 MACDONALD
 DEED LIBER 814, PAGE 225
 5955-19-738049

I&I SKETCH
 SCALE: 1"=20'

DRAWN BY: AG CHECKED BY: DGK

REVISIONS:			
NO.	DATE	DESCRIPTION	BY



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INFLOW AND INFILTRATION SKETCH

1182 NORTH AVENUE

NORTH AVENUE (NYS ROUTE 9D)
 CITY OF BEACON
 DUTCHESS COUNTY, NEW YORK
 5955-19-738049

JOB #: 2019:021
 DATE: 10/29/2019
 SCALE: AS NOTED
 TITLE: I&I
 SHEET: 1 OF 1

SEAL