



Nathan L. Jacobson & Associates, Inc.
Nathan L. Jacobson & Associates, P.C. (NY)

To: Mr. Edward Ward, Chairman Chester WPCA
From: Brian C. Curtis, P.E.
NLJA #: 250-0001 Chester WPCA
Subject: 43, 45 & 47 Main Street, Additions & Renovations Plan

Date: November 9, 2020

On November 9, 2020 I met with John Schroeder at the site to review the project drawings and area of the proposed building addition relative to the location of the sanitary sewer. In terms of the sanitary sewer, the aspect of the building additions we reviewed included the proposed expanded deck area on the rear portion of the building. Currently there are 2 sanitary manholes located immediately behind the #43 Main Street portion of the building. The existing building overhang is actually located above sanitary manhole No. 208, as well as approximately 23 feet of the existing sanitary sewer. The proposed deck addition on the rear of the building will extend out approximately 13 ft. 2 inches from the rear face of the building. The westerly portion of the deck addition will be located partially within the existing 10 ft. wide sanitary sewer right of way and immediately south of sanitary manhole No. 20A and the existing gravity sewer. Depth of the existing sewer in this area is approximately 4 feet below grade. The easterly portion of the deck addition will be located further away from the sanitary sewer and outside of the sanitary sewer right of way (the sanitary sewer location veers further away from the building in an easterly direction). This section of sanitary sewer has required maintenance, excavation and repair activities in the past, so access to the sewer line and manholes is of importance.

In my meeting with John Schroeder I discussed the location of the deck structure, deck columns and column support footings in relation to the sanitary sewer and manhole. The deck footings and columns should be constructed such that should excavation of the sewer or manhole be required in the future, the columns and footings will not be in the way of the sewer excavation and any sewer excavation would not jeopardize the integrity of the deck support footings. In order to accomplish this, we discussed cantilever design of the north edge of the deck beyond the line of support columns, as well as making the depth of footings equal to or below the current depth of the sanitary sewer and manhole. With these provisions, operation, maintenance and future excavation of the sanitary sewer and manhole could be accomplished without impacting the integrity of the deck structure. John Schroeder indicated final design drawings of the deck structure and support footings/columns will be provided to depict this arrangement and submitted for approval by the building official and WPCA.

Should you have any questions or require any additional information, please feel free to call.

END OF MEMORANDAM