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CIVIL & TRAFFIC ENGINEERS / LAND SURVEYORS / PLANNERS / LANDSCAPE ARCHITECTS
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August 3, 2020

Mr. Anthony Manfre, Superintendent of Pollution Control
Town of South Windsor
1540 Sullivan Avenue
South Windsor, CT 06074

Re: WPCA Application for New Commercial Sewer Connection
240 Ellington Road Distribution Center
240 Ellington Road and R008A John Fitch Boulevard
South Windsor, CT

Dear Mr. Manfre,

This correspondence is intended to accompany an application for the final approval of a new sewer connection at 240 Ellington Road in South Windsor. Design Professionals, Inc. has been engaged to do an engineered site plan for the proposed development of this new 182,000 square foot distribution facility. The site is located on two properties: 240 Ellington Road and R008A John Fitch Boulevard, South Windsor. Conceptual approval for this sewer connection was received at the WPCA meeting of December 3, 2019.

The sanitary flows from the Distribution Center are expected to be 18,200 gallons per day. These flow calculations are based on the commercial use and building area. Water will not be used for any industrial process, thus there will be no discharge of wastewater from industrial processes.

Due to the site's location and topography, a gravity sanitary sewer service connection is unattainable. To satisfy building sanitary sewer service requirements, a proposed force main connection to the sewer forcemain system in Ellington Road is proposed. The proposed 288± linear feet of PVC force main will convey pumped effluent a new force main located to the south east of the property within the southern side of the Ellington Road right-of-way, to be installed by the Town of South Windsor.

The sites pump station will be located at the south-eastern portion of the property, to east of the main access driveway and to the north of the proposed detention basin. This location reduces the length of PVC force main needed to connect to the force main extension in Ellington Road. Secondly, this would also reduce the depth and size of the pump station which will reduce construction costs.

This private pump station will not accommodate connections for further properties. This configuration would be designed only to serve the property owners' immediate interests. Preliminary review of the area indicates that an invert of 54.60 at this proposed pump location would be sufficient to accommodate this property. The final invert and force main size would be determined after final discussions with your department.

Thank you for taking the time to review this application, and please do not hesitate to contact us with any questions or comments.

DESIGN PROFESSIONALS, INC.

Daniel H. Jameson, P.E.
Project Manager