



**CIVIL & TRAFFIC ENGINEERS / LAND SURVEYORS / PLANNERS / LANDSCAPE ARCHITECTS**  
*Serving Connecticut, Massachusetts, & Rhode Island*

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August 16, 2021

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  
Pleasant Valley Elementary School  
591, 623, & 647 Ellington Road  
South Windsor, CT 06074

Dear Mr. Manfre,

Design Professionals, Inc. has been engaged to provide engineering services for the new 102,150 SF Pleasant Valley Elementary School to replace the existing school with a request to add an exterior underground grease trap. This grease trap will be a part of the new sanitary system on site, which ultimately connects into the sewer main in the southbound lane of Ellington Road/Route 30. The location of the separator and proposed tie-in points can be found on the enclosed utility plans.

Sanitary design flows for the proposed total building area were based on Section 4.B, Table 4 of the Connecticut Public Health Code. The expected daily sanitary flow is 13,890 GPD, considering a projected student and staff population of 926.

Additional calculations were provided by the project's MEP, Consulting Engineering Services, Inc., regarding the requested peak sewer flow values. The total peak demand for the school will be 148 gallons per minute and the peak demand for just the kitchen will be 43 gallons per minute.

Information has also been requested by town staff regarding the sizing for a 2,500 gallon grease trap. CES determined the following: for a school, the volume of the structure is determined by the number of meals served for each student in one day multiplied by the gallons used per meal. For the given projected student population of 806 pupils and required 3 gallons per meal, the volume shall be a minimum of 2,418 gallons. The proposed grease trap has been specified at 2,500 gallons to accommodate the projected use and capacity.

A previous assessment was completed for the property and the proposed water meter will be 4" in size.

Please feel free to contact us with any questions or comments.

Regards,

DESIGN PROFESSIONALS, INC.

Daniel H. Jameson, P.E.  
Project Manager