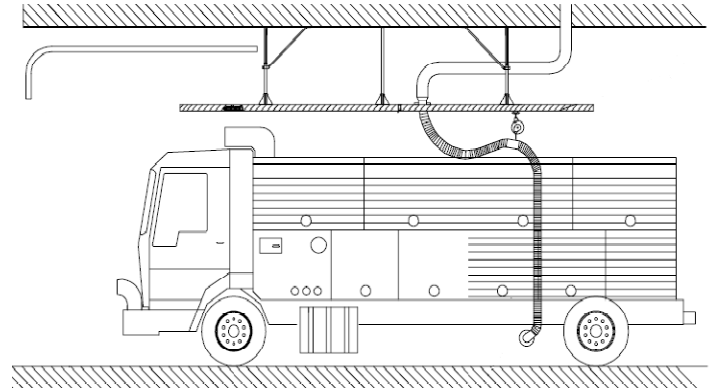




VEHICLE EXHAUST CASE STUDY *ENERGY SAVING SYSTEM* SOLUTION

Riverhead Fire District and Martin Sendlewski Architects were concerned about the diesel exhaust generated by the fire apparatus that will be housed in a new 100,000 Sq.Ft. facility. With the known health effects associated with diesel exhaust and current building code requirements, a source capture system was required to provide the district with *Clean Air*.



Clean Air Company proposed the PlymoVent exhaust system in conjunction with a customized controller and variable frequency drive to provide energy savings and reduce horse power requirements. The station would store 12 apparatus and each vehicle running would require 500 CFM. Clean Air was hired as a primary contractor to install the system during the construction of the building.

Each vehicle hose connection has an automatic damper that is integrated to the variable speed drive. As each vehicle starts up the respective damper opens and the fan speeds up to deliver the 500 CFM for each open damper as required. The design allowed for a 50% reduction in horse power requirements and an ongoing energy savings in reduced electrical usage.



Various types of systems were installed to accommodate vehicles parked in tandem and vehicles with overhead exhaust stacks.

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