

VILAS ROAD PUMP STATION COTTAGE GROVE, WISCONSIN

A new waste water pump station was designed for Cottage Grove, WI. The project included a single story masonry building above grade to house the Control Room, Generator, Storage and Garage for two municipal vehicles. The two sub-basements levels included two Wet Wells, Mechanical Room, and Pump room extending 45 feet below grade. The depth and size of the underground construction required thickened concrete foundations (24"), walls (27"), slabs (24.5"), pilasters, and dedicated concrete beams to resist the lateral earth and hydrostatic pressure. The Lower Level Slab was extended 36" beyond the exterior face of the foundation walls to engage sub-grade material to resist the buoyancy forces induced by the surrounding water table. High strength concrete with a low water/cement ratio was used in conjunction with special detailing to create water tight construction.



Lower Level Slab

Lower Level
Foundation Walls



Upper Level
Foundation Walls

