

Metering Station Improvements

Township of Jackson | Ocean County, NJ



Van Cleef provided design and construction services to correct metering inaccuracies as the differential meters were too large to accurately record flow. OCUA metering problems were corrected by isolating Jackson's wastewater flow by removing it from an interceptor, redirecting it through a diversion chamber, and returning it back to OCUA's interceptor. Within the chamber, a channel was constructed with the downstream bench above the existing invert and a rectangular "overflow" weir, or stop gate, installed above the bench. In a bypass/overflow condition, sewage overflowing the weir was designed to free fall to the invert of the interceptor, minimizing the surcharge head over the weir and exceeding the design flow condition. This metering facility was designed with a hi-level gravity bypass, eliminating the possibility of an overflow due to a pump station failure. Van Cleef also designed the below grade pump, remote monitoring through the SCADA system, and electric power supply.

Van Cleef provided survey services, final design plans, and specifications. All Federal, State, and local codes were met. Assistance was provided in obtaining permits, some of which included: NJDEP TWA for new pump station and associated facilities, NJDEP Dewatering Permit for construction, Ocean County Soil Erosion permit, and UCC Construction permit. Van Cleef conducted site visits, inspections, and attended progress meetings, and reviewed shop drawings and submittals. Van Cleef also prepared and submitted the following for review: Construction Sequencing and Maintenance of Operations Plan, Process and Instrument Diagrams, I/O Lists, Instrument Lists, and Process Control Strategies.

CLIENT CONTACT

Ocean County Utilities Authority
Bayville, NJ

PROJECT HIGHLIGHTS

- 🕒 Redirecting Wastewater Flow
- 🕒 Below Grade Pump Design
- 🕒 Survey Services
- 🕒 Final Design Plans & Specs
- 🕒 Permitting Assistance
- 🕒 Shop Drawing Review