



Pre-Engineered Lift Stations

- Wastewater
- Stormwater
- Industrial

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DUPLEX – 8’ X 12’ CUSTOM SYSTEM

Wet Well, Electrical Controls

DESIGN REQUIREMENTS FOR THIS LIFT STATION:

Construction of a new power generation plant required a series of lift stations to pump process water and site storm water to an on site treatment facility and then off site to the City's sanitary sewer system

THIS ROMTEC UTILITIES SYSTEM INCLUDED:

Romtec Utilities recommended: MultiTrode MT2PC controller

Concrete wet well: Fall & confined space entry control, pedestrian rated hatch

Piping & accessories: All stainless steel

ITT Flygt pumps: CP3085 MT, 3 HP

Level monitoring & control: Primary – MultiTrode probes, Redundant / back-up – MultiTrode probe w/MTR relays

Electrical controls: UL listed

Communication: Facilities existing monitoring system and localized alarming, beacon

ROMTEC UTILITIES’ FREE DESIGN SERVICES INCLUDED:

- All lift station sizing, design, drawings, specifications
- All structural & mechanical drawings
- All control & communication design & drawings
- Layout of equipment on the site plan
- Development of submittal documentation
- Secure agency approval of submittals
- Provide onsite construction advisor & start-up services
- Provide operations & maintenance manuals, onsite training of agency personnel



DESIGN YOUR LIFT STATION AND GET A QUOTE

Romtec Utilities provides lift station design and quotation service on our website, www.romtecutilities.com. Click on the Design/Quote button at the top of the web page.

SITE DETAILS

Power demands in this area had outreached the ability of the local power company to provide service. A design was put in place to build a natural gas turbine generator to be used as a peaker plant. The equipment supplied for the peaker plant generated process water, the site work also provided for site drainage that needed to be pumped through a package treatment facility and then on to the City's sanitary sewer. Romtec was chosen as the solution for this complicated pumping requirement.

LIFT STATION DESIGN DETAILS:

WET WELL

Dimensions: 8' dia. x 12' depth

Top Slab: Custom Romtec Utilities pedestrian rated with Flygt Safe-Hatch access cover with patented cable hatch, flush vent, Romtec pump disconnect panel in stainless steel enclosure/stand.

Influent: 4" & 10" dia. PVC with Kor-N-Seal flexible boot

Discharge: Flygt 4" discharge elbow (2), 4" dia. Sch. 40 stainless steel discharge piping

Internal header assembly: ITT Flygt Ball check valve – 5087, and a header joining discharge pipes into one pipe

Pressure Sensor: Ashcroft Iso-Ring – type 81 w/ Ashcroft Duralife gauge – 60-1009AL-02L-30PSI

Force main: 4" force main to storm water treatment tank or City's sanitary sewer

FLYGT PUMPS

Model/HP: CP3085 3HP (2), one pump equipped with Flygt Mix-Flush Valve model 4901

Electrical: 480V/3-phase dual feed, redundant power feed

CONTROLS

Enclosure: NEMA 3R (stainless steel), 36" x 42" x 12", w/15" leg kit

Controller: MultiTrove MT2PC

Alarming: Dry contacts for existing telemetry system and localized flashing beacon

Level Sensors: Primary – MultiTrove probe (3) 0.2/1-10m, Redundant level control – MultiTrove 0.6/3-10m

DOCUMENTATION

Scope of Supply & Design Submittals: Full submittals for:

- Wet well hatch, discharge elbows, pumps, piping & accessories
- Electrical controls, controller, starters, level sensing etc.

Operations & maintenance manuals: Complete as-built drawings & manuals including parts list for all Romtec Utilities supplied items.

