



Pre-Engineered Lift Stations

- Wastewater
- Stormwater
- Industrial

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DUPLEX – 6' X 16' CUSTOM SYSTEM

Wet Well, Electrical Controls, Generator

DESIGN REQUIREMENTS FOR THIS LIFT STATION:

Storm run-off for 60 units of Tribal members single-family housing on an Indian reservation

Drain a large detention basin @ 880 GPM @ 12.6' TDH

THIS ROMTEC UTILITIES SYSTEM INCLUDED:

Tribal agency specified: MultiTrode MT2PC controller

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

Piping & accessories: all stainless steel

ITT Flygt pumps: NP3102 LT, 5 HP

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

Generator: Control panel supplied with a generator receptacle for a trailer-mounted generator

Electrical controls: UL listed

Communication: 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

New 60-unit single-family residential development. Due to flooding of the near by stream a detention pond was required and a method of draining the pond after a storm, thus requiring a lift station. Romtec Utilities was the solution.

LIFT STATION DESIGN DETAILS:

WET WELL

Dimensions: 6' dia. x 16' 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: 30" dia. PVC with Kor-N-Seal flexible boot

Discharge: Flygt 6" discharge elbow (2), 6" dia. Sch. 10 stainless steel discharge piping

Dual force main: 6" force mains with Red Valve Tideflex check valves to the discharge manhole

Overflow: 30" dia. PVC with Kor-N-Seal flexible boot

FLYGT PUMPS

Model/HP: NP3102/5HP (2), one pump equipped with Flygt Mix-Flush Valve model 4901

Electrical: 480V/3-phase

CONTROLS

Enclosure: NEMA 4X (painted steel), 36" x 48" x 12", w/24" leg kit

Controller: MultiTrode MT2PC

Alarming: Localized flashing beacon

Level Sensors: Primary – MultiTrode probe 1.5/10-10m, Redundant level control – MultiTrode probe 1.5/10-10m, Overflow monitoring – MultiTrode probe 2.2/1-10m

STANDBY POWER GENERATOR

Existing tribal authority trailer mounted generator

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.

