



Pre-Engineered Lift Stations

- Wastewater
- Stormwater
- Industrial

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## DUPLEX – 6' X 15' CUSTOM SYSTEM

Wet Well, Above ground Valve assembly, Electrical Controls

### DESIGN REQUIREMENTS FOR THIS LIFT STATION:

Remediation project at a tank terminal to capture and treat groundwater that may become contaminated

*Customer specified:* Simple Hand-off-automatic controls with a pump alternator

### THIS ROMTEC UTILITIES SYSTEM INCLUDED:

*Concrete wet well:* fall & confined space entry control

*Control panel w/pump disconnect plug-in-receptacles:* with free air stand, cable hatch

*Piping & accessories:* all stainless steel

*ITT Flygt pumps:* NP3127 MT, 10 HP

*Level monitoring & control:* Primary –ITT Flygt floats ENM-10

*Concrete valve slab:* 6" system, ball check & plug valves, discharge pressure gauges

*Electrical controls:* UL listed

*Communication:* Dry contacts, Owner provided SCADA system

### 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](http://www.romtecutilities.com). Click on the Design/Quote button at the top of the web page.



## SITE DETAILS

Upgrading of a tank storage facility required the placement of a two-foot wide slurry wall 10' deep around the facility to contain any ground water that may become contaminated. A network of drains flowed to a low point, thus requiring a lift station. Romtec Utilities was the solution.

## LIFT STATION DESIGN DETAILS:

### WET WELL

**Dimensions:** 6' dia. x 15' depth

**Top Slab:** Custom Romtec Utilities H-20 traffic rated with Flygt Safe-Hatch access cover with patented cable hatch, Romtec pump control panel w/ pump disconnect plug-in-receptacles in stainless enclosure/stand

**Influent:** 18" dia. PVC with Kor-N-Seal flexible boot, HDPE influent deflector

**Discharge:** Flygt 6" discharge elbow (2), 6" dia. Sch. 40 stainless steel discharge piping

### FLYGT PUMPS

**Model/HP:** NP3127/10HP (2), one pump equipped with Flygt Mix-Flush Valve model 4901

**Electrical:** 480V/3-phase

### VALVE ASSEMBLY (ABOVE GROUND)

**Dimensions:** 6'-0"l x 6'-0"w x 1'-0"d precast slab

**Piping:** 6" dia. Ductile iron

**Valves:** ITT Flygt ball check valve – 5087

ValMatic eccentric plug valve – 5806R/7A08

**Pressure Sensor:** Ashcroft Iso-ring – type 81 w/Ashcroft Duralife pressure gauge – type 1009, 30 psi

### CONTROLS

**Enclosure:** NEMA 4X (stainless steel), 30" x 36" x 10"

**Controller:** Hand-off-automatic, relays and pump alternator

**SCADA:** Dry contacts to interface with the facilities existing SCADA system

**Level Sensors:** Primary - ITT Flygt float – ENM-10

### DOCUMENTATION

**Scope of Supply & Design Submittals:** Full submittals for:

- Wet well hatch, discharge elbows, pumps, piping & accessories
- Valve assembly, check & operational valves, pressure gauge & piping.
- Electrical controls, controller, starters, level sensing etc.

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

