



Pre-Engineered Lift Stations

- Wastewater
- Stormwater
- Industrial

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## DUPLEX – 6' X 28' CUSTOM SYSTEM

Wet Well, Electrical Controls, Generator

### DESIGN REQUIREMENTS FOR THIS LIFT STATION:

Storm run-off for 200 units of single-family and 200 units of multi-family town homes  
Drain a 20-million gallon detention basin @ 3100 GPM two pumps each producing 1581 GPM @ 24.4' TDH

### THIS ROMTEC UTILITIES SYSTEM INCLUDED:

*City specified:* MultiTrove MT2PC controller

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

*Piping & accessories:* all stainless steel

*ITT Flygt pumps:* NP3153 MT, 15 HP

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

*Generator:* Cummins 50 kW, diesel fuel & trailer mounted

*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

### SITE DETAILS

New 200-unit single family & 200 unit multi-family residential development. Due to lack of capacity in the existing storm drain channel 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.



### 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.

## LIFT STATION DESIGN DETAILS:

### WET WELL

**Dimensions:** 6' dia. x 28' 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:** 36" 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:** 8" force mains with Red Valve Tideflex check valves to the discharge point

### FLYGT PUMPS

**Model/HP:** NP3153/15HP (2), one pump equipped with Flygt Mix-Flush Valve model 4901

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

### CONTROLS

**Enclosure:** NEMA 4X (stainless 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

### STANDBY POWER GENERATOR

Cummins 50DGCA, 50KW, 480V/3-phase, Diesel fueled, Quiet Site II sound attenuated enclosure, w/ custom trailer

### DOCUMENTATION

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

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

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

