



Pre-Engineered Lift Stations

- Wastewater
- Stormwater
- Industrial

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DUPLEX – 6' X 34' CUSTOM SYSTEM

Wet Well, Valve Vault, Electrical Controls, Generator, Odor Control, & SCADA

DESIGN REQUIREMENTS FOR THIS LIFT STATION:

221 Lot Subdivision with dedicated lift station site

525 GPM @ 94' TDH (Duty point)

City specified: ITT Flygt FMC controller, SCADA system & odor control system

THIS ROMTEC UTILITIES SYSTEM INCLUDED:

Concrete wet well: fall & confined space entry control, H-20 rated hatch, interior coating

Piping & accessories: all stainless steel

ITT Flygt pumps: NP3153 HT, 20 HP

Level monitoring & control: Primary – ITT Flygt pressure transducer, Redundant / Back-up – ITT Flygt floats w/MTR relays

Concrete valve vault: H-20 rated hatch, 6" system, check & operational valves, discharge pressure gauge, by-pass pumping port

Generator: Cummins 40 kW, diesel fuel & trailer mounted

Electrical controls: UL listed

Communication: telephone alarming, SCADA system

Odor control: Wet well exhaust fan

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 221 lot residential subdivision. Due to site topography, subdivision's sewer terminated approximately 29' below the nearest gravity sewer, thus requiring a lift station. Romtec Utilities was the solution.

LIFT STATION DESIGN DETAILS:

WET WELL

Dimensions: 6' dia. x 34' depth

Lining/Coating: Ameron T-Lock PVC liner, field welded

Top Slab: Custom Romtec Utilities H-20 traffic rated with Flygt Safe-Hatch access cover with patented cable hatch, flush vent, Romtec Utilities cable hatch extension to base of control panel.

Influent: 15" dia. PVC with Kor-N-Seal flexible boot, HDPE influent deflector

Discharge: Flygt 4" discharge elbow (2), 6" dia. Sch. 10 stainless steel discharge piping



FLYGT PUMPS

Model/HP: NP3153/20HP (2), one pump equipped with Flygt Mix-Flush Valve model 4901

Electrical: 240V/3-phase

VALVE VAULT

Dimensions: 8'-8"l x 6'-8"w x 7'-3"d

Hatch in Top Slab: ITT Flygt FDRND-HD-44X68 H-20 RATED

Piping: 6" dia. Ductile

Emergency Pumping Port: 6" dia. Val-Matic eccentric plug valve

Valves: Clow Swing check valve – 106SL

Val-Matic eccentric plug valve – 5806R/8A02

Pressure Sensor: Ashcroft Iso-Ring type 81 w/ Ashcroft Duralife 1009 pressure gauge 150 psi.

Manual air bleed assembly: 2" air bleed system w/ ball valve and optional dead man operator.



CONTROLS

Enclosure: NEMA 3R (stainless steel), 48" x 60" x 18" w/12" leg kit

Controller: ITT Flygt FMC 200

SCADA: ITT Flygt AquaView/ telephone based system

Telemetry: Telephone alarming system

Level Sensors: Primary – ITT Flygt pressure transducer LS100, Redundant level control – ITT Flygt floats ENM-10

STANDBY POWER GENERATOR

Cummins 40DGBC, 40KW, 240V/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
- Valve vault, hatch, check & operational valves, pressure gauge & piping.
- Electrical controls, controller, starters, level sensing etc.
- Generator, ATS.
- SCADA system, MonitorPro configuration and set-up.

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