



Pre-Engineered Lift Stations

- Wastewater
- Stormwater
- Industrial

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TRIPLEX – 8' X 25' CUSTOM SYSTEM

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

DESIGN REQUIREMENTS FOR THIS LIFT STATION:

49 Lot Subdivision and replacing existing aging lift station. Also provided a second wet well for the future build-out

598 GPM @ 118' TDH (Duty point), triplex system

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

THIS ROMTEC UTILITIES SYSTEM INCLUDED:

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

Pump disconnect panel: with free air stand, cable hatch

Piping & accessories: all stainless steel

ITT Flygt pumps: NP3153 HT, 18 HP

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

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

Generator: Cummins 125 kW w/A.T.S., diesel fuel

Building: 20'-8" X 20'-8" split face block Romtec building

Electrical controls: UL listed

Communication: telephone alarming, SCADA system

Odor control: Bioxide chemical feed 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. Click on the Design/Quote button at the top of the web page.



SITE DETAILS

New 49 lot residential subdivision. Due to site topography, subdivision's sewer terminated at an existing lift station currently at build-out, thus requiring a larger replacement lift station. Romtec Utilities was the solution.

LIFT STATION DESIGN DETAILS:

WET WELL

Dimensions: 8' dia. x 25' depth

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

Influent: 21" 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: NP3153/18HP (3), two pumps equipped with Flygt Mix-Flush Valve model 4901

Electrical: 480V/3-phase

VALVE VAULT

Dimensions: 12'-8"l x 6'-8"w x 7'-10"d

Hatch in Top Slab: ITT Flygt FDRND-HD-48x119-1-2AOSH

Piping: 6"X8" dia. ductile

Valves: Val-Matic Swing-Flex check valve – 506MI/BF

Val-Matic eccentric plug valve – 5806R/8A08 & 5808R/8A02

Pressure Sensor: Ashcroft Type 81 Iso-Ring – 810-ES-02T-CG & Ashcroft Duralife pressure gauge type 45-1009-S-02L-150

CONTROLS

Enclosure: NEMA 4, 60" x 60" x 16" w/12" leg kit

Controller: ITT Flygt FMC 400

SCADA: ITT Flygt Aquaview / Telephone based system

Telemetry: Telephone alarming system – ANTX DiaLog Elite

Level Sensors: Primary - ITT Flygt LS100 pressure transducer; Redundant level control – Multi

Trode 1.5/10-10m probe

STANDBY POWER GENERATOR

Cummins 125DSHAE, 125KW, 480V/3-phase, Diesel fueled, OTEC225 Automatic Transfer Switch

ELECTRICAL CONTROL BUILDING

Dimensions: 20'-8" x 20'-8" x 10'-0"

Roof Construction: Steel beams and roof panels

Roofing: Metal roofing

Floor: Concrete slab, 6" thick with thickened edge foundation and isolated generator pad

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, Aquaview configuration and set-up.

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

