



Pre-Engineered Lift Stations

- Wastewater
- Stormwater
- Industrial

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DUPLEX – 6' X 29 CUSTOM SYSTEM

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

DESIGN REQUIREMENTS FOR THIS LIFT STATION:

52 Lot Subdivision with dedicated lift station site

426 GPM @ 24' TDH (Duty point), duplex system

City specified: MultiTrode MT2PC controller and MultiTrode MonitorPro SCADA system, auxiliary power

THIS ROMTEC UTILITIES SYSTEM INCLUDED:

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

Pump disconnect panel: with free air stand, cable hatch

Davit crane: Thern 5124 crane w/hand winch

Piping & accessories: all stainless steel

ITT Flygt pumps: NP3102 MT, 5 HP

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

Concrete valve vault: Pedestrian rated hatch, 4" system, check & plug valves, discharge pressure gauge

Generator: Cummins 35 kW w/A.T.S., diesel fuel

Building: 6'-8" X 8'-8" split face block Romtec building

Electrical controls: UL listed

Communication: Radio SCADA and alarming 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 52 lot residential subdivision. Due to site topography, subdivision's sewer terminated approximately 21' 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 29' depth

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

Influent: 10" dia. PVC with Kor-N-Seal flexible boot, HDPE influent deflector

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

FLYGT PUMPS

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

Electrical: 480V/3-phase

VALVE VAULT

Dimensions: 8'-8"l x 6'-8"w x 8'-1"d

Hatch in Top Slab: ITT Flygt FDRND-HD-39x67 pedestrian rated

Piping: 4" dia. ductile

Valves: M&H style 59 - 6" check valve w/outside lever and weight
DeZURIK eccentric plug valve – PEC,6,F1,C1,NBR,CR,NT

Pressure Sensor: Red Valve Series 40 pressure sensor 6" w/ 30 psi pressure gauge

CONTROLS

Enclosure: NEMA 12, 48" x 36" x 13" w/24" leg kit

Controller: MultiTrove MT2PC

SCADA: MultiTrove MonitorPro, radio based system

Telemetry: Radio based communications to base station with auto dialer

Level Sensors: Primary – MultiTrove probe 1.5/10-10m, Redundant level control – Multi

Trove .6/3-10m probe, Overflow – MultiTrove .2/1-10m probe

STANDBY POWER GENERATOR

Cummins 35DGGD, 35kW, 480V/3-phase, Diesel fueled, OTPC70 Automatic Transfer Switch

ELECTRICAL CONTROL BUILDING (CONTROLS ONLY)

Dimensions: 6'-8" x 8'-8" x 8'-8"

Roof Construction: Steel beams and roof panels

Roofing: Metal roofing

Floor: Concrete slab, 5" thick with thickened edge foundation

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.

