



Pre-Engineered Lift Stations

- Wastewater
- Stormwater
- Industrial

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DUPLEX – 6' X 22' CUSTOM SYSTEM

Wet Well, Valve Vault, Meter Vault, Electrical Controls, Generator, existing SCADA interface

DESIGN REQUIREMENTS FOR THIS LIFT STATION:

Street improvement constructing an underpass at a railroad crossing
Major thoroughfare reconstructed to pass under a railroad track
City specified: MT2PC controller, magnetic flow meter, SCADA system, auxiliary power

THIS ROMTEC UTILITIES SYSTEM INCLUDED:

Concrete wet well: fall & confined space entry control
Pump disconnect panel: with free air stand, cable hatch
Piping & accessories: all stainless steel
ITT Flygt pumps: NP3127 MT, 10 HP
Level monitoring & control: Primary -MultiTrode probe, Redundant / back-up – Multitrode probe w/MTR relays, High water holdout – ITT Flygt ENM-10
Concrete valve vault: fall & confined space entry control, 6' system, check & gate valves, discharge pressure gauge
Concrete meter vault: Seimens Mag-meter
Generator: Cummins 35 kW w/A.T.S., diesel fuel, sound attenuation
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. Click on the Design/Quote button at the top of the web page.

SITE DETAILS

New street improvement lowered the road grade to pass under a railroad crossing; this created a low spot that collected all the storm runoff, thus requiring a lift station. Romtec Utilities was the solution.

LIFT STATION DESIGN DETAILS:

WET WELL

Dimensions: 6' dia. x 22' depth

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

Influent: 16" 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 VAULT

Dimensions: 7'-0"l x 4'-8"w x 7'-0"d

Hatch in Top Slab: ITT Flygt FDRND-HD-33X61 H-20 RATED

Piping: 6" dia. ductile

Valves: Apco check valve – 106

Kennedy gate valve – 4561N

Pressure Sensor: Red Valve – Series 40



METER VAULT

Dimensions: 7'-0"l x 4'-8"w x 6'-0"d

Hatch in Top Slab: ITT Flygt FDRND-HD-33X61 H-20 RATED

Piping: 6" dia. ductile

Flow Meter: Siemens MAGFLO 5100W w/MAG 6000 transmitter

CONTROLS

Enclosure: NEMA 4X (stainless steel), 36" x 48" x 12" w/24" leg kit

Controller: MultiTrove MT2PC

SCADA: Dry contacts to interface with the City's existing SCADA system

Level Sensors: Primary - MultiTrove probe 3.0/10-10m, Redundant level control – MultiTrove probe 1.5/10-10m, High water holdout at discharge point – ITT Flygt float – ENM-10

STANDBY POWER GENERATOR

Cummins 35 DGGD, 35KW, 480V/3-phase, Diesel fueled, Quiet-Site II sound attenuation, OTEC70 Automatic Transfer Switch



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.
- Meter vault, hatch, MAG meter, operational valves & piping
- Electrical controls, controller, starters, radio, battery backup, level sensing etc.
- Generator, ATS.



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