



Pre-Engineered Lift Stations

- Wastewater
- Stormwater
- Industrial

www.romtecutilities.com

18240 North Bank Road • Roseburg, OR 97470 • info@romtecutilities.com • 541-496-9678

DUPLEX – 6' X 28' CUSTOM SYSTEM

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

DESIGN REQUIREMENTS FOR THIS LIFT STATION:

130 Lot Subdivision with dedicated lift station site

173 GPM @ 203' TDH (duty point)

City specified: MultiTrode 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, interior coating

Pump disconnect panel: with free air stand, cable hatch and cable hatch extension

Piping & accessories: all stainless steel

ITT Flygt pumps: NP3153 SH, 23 SH

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

Concrete valve vault: H-20 rated hatch, 4" system, check & plug valves, discharge pressure gauge, by-pass pumping port

Generator: Cummins 60 kW w/A. T.S., diesel fuel, sound attenuation

Weather shelter: post/beam open structure

Electrical controls: UL listed

Communication: telephone alarming, SCADA system

Odor control: Tri-Med Oxidizer 2000

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 130 lot residential subdivision. Due to site topography, subdivision's sewer terminated approximately 152' 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 28' depth

Lining/Coating: Raven 405 w/A-10 primer (field applied)

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 mounted away from the wet well utilizing Romtec Utilities cable hatch extension.

Influent: 8" dia. PVC with Kor-N-Seal flexible boot, HDPE influent deflector

Discharge: Flygt 3" discharge elbow (2), 3" dia. Sch. 10 stainless steel discharge piping

FLYGT PUMPS

Model/HP: NP3153/23HP (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 9'-0"d

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

Piping: 4" dia. Ductile

Emergency Pumping Port: 4" dia. Val-Matic eccentric plug valve w/4" cam-lock male fitting

Valves: Val-Matic Swing-Flex check valve – 504MI/BF

Val-Matic eccentric plug valve – 5804R/7A08

Pressure Sensor: Red Valve Series 40 pressure sensor w/ 125 psi gauge.

CONTROLS

Enclosure: NEMA 4, 36" x 48" x 12" w/12" leg kit

Controller: MultiTrode MT2PC

SCADA: MultiTrode MonitorPro / radio-based system (future)

Telemetry: Telephone alarming system

Level Sensors: MultiTrode liquid level sensing probe, redundant level control

STANDBY POWER GENERATOR

Cummins 60DGCB, 60KW, 480V/3-phase, Diesel fueled, Quiet-Site II sound attenuation, OTEC125 Automatic Transfer Switch

ELECTRICAL CONTROL SHELTER

Dimensions: 10' x 8' x 7'-6"

Roof Construction: Steel beams and steel purlins

Roofing: Metal roofing

Floor: Concrete slab, 8" thick with post column foundations

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.

