



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 17' CUSTOM SYSTEM

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

DESIGN REQUIREMENTS FOR THIS LIFT STATION:

30 Lot Subdivision with small 754 sq. ft. lift station site

152 GPM @ 174' TDH (Duty point)

City specified: MultiTrobe 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

Piping & accessories: all stainless steel

ITT Flygt pumps: NP3153 SH, 23 HP

Level monitoring & control: Primary - MultiTrobe probe, Redundant / Back-up – MultiTrobe 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 30 lot residential subdivision. Due to site topography, subdivision's sewer terminated approximately 150' 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 17' 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

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

Discharge: Flygt 3" discharge elbow (2), 4" 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 7'-0"d

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

Piping: 4" dia. ductile

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

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

Pressure Sensor: Ashcroft Type 81 Iso-Ring – 8104-ES-02T-CG & Ashcroft Duralife pressure gauge type 1009 – 35-1009-SW-L-02L-300

CONTROLS

Enclosure: NEMA 4, 36" x 60" 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, OTEC150 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.

