

*Duplex Wastewater Lift Station***SMALL SOLIDS HANDLING PUMP SYSTEM****3"-4" Force Main at 45-225 gpm • 5' or 6' diameter wet well in depths to 30'**

Wet Well, Internal Valve Assembly, Electrical Controls

DESIGN FEATURES FOR THIS LIFT STATION*Pumping rate:* 45 – 225 GPM*Capacity:* 40 – 180 homes*Pumps:* ITT Flygt Solids handling pumps, N or C impellers, 3085, 3102*Level sensors:* ITT Flygt probe, ITT Flygt Floats (level switches), optional level devices available**THIS ROMTEC UTILITIES SYSTEM INCLUDES***Concrete wet well:* 5' or 6' diameter conforming to ASTM C 487-97, Aluminum hatch w/stainless steel hardware*Electrical Junction Box:* Concrete box w/explosion proof pump cable outlet boxes & level sensing cables terminal box*Piping & accessories:* Ductile iron piping with stainless steel hardware & accessories*ITT Flygt pumps:* N or C impellers, 3085, 3102*Level monitoring & control:* Primary – ITT Flygt probe or ENM-10 level switches (floats) - Redundant - Optional Back-up – ITT Flygt probe or ENM-10 level switches (floats)*Internal valves:* ITT Flygt ball check valves, bronze gate valves*Electrical controls:* UL listed, Alternator design**DOCUMENTATION***Scope of Supply & Design Submittals:* Full submittals for:

- Wet well, Wet well hatch, discharge elbows, pumps, piping, valves & accessories
- Electrical controls, starters, level sensing etc.

Operations & maintenance manuals: Complete as-built drawings & manuals including parts list for all Romtec Utilities supplied items.*AVAILABLE OPTIONS* – Valve Vault, Generator, Controllers, Alarming, Telemetry/SCADA, Odor Control, & Control Shelter**OPTIONAL EQUIPMENT AVAILABLE** (Not shown)*Separate Valve Vault:* Check valves, control valves, etc.
Electrical Controls: ITT Flygt APP 521, ITT Flygt FMC, and other controllers*Level Monitoring:* ITT Flygt LS 100 (Pressure transducer), ITT Flygt LSU100 (Ultrasonic transducer), and other devices*Generator:* Cummins generator, diesel fuel/natural gas, ATS, sound attenuation, trailer packages*Weather shelter:* Post/beam open structure*Communication:* Telephone alarming, RTU, Telemetry/SCADA system*Odor control:* Bioxide chemical feed system**DOCUMENTATION for OPTIONAL EQUIPMENT***Scope of Supply & Design Submittals:**Full submittals for Optional Items:* (Not shown)

- Valve vault, hatch, check & operational valves, piping.
- Generator, ATS.
- Lift station controllers
- Telephone alarming, RTU or SCADA system, configuration and set-up.
- Valve vault, hatch, check & operational valves, pressure gauge & piping.

FREE DESIGN SERVICES INCLUDE

- All lift station specifications, sizing, design and drawings
- 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 operations & maintenance manuals

ONSITE SERVICES INCLUDE

- Onsite construction advisor
- Start-up services to include controls, pumps etc.
- Site training of agency personnel