

4.02 LIFT STATION DESIGN CRITERIA FORM

Romtec Utilities has designed this 4/1/13 dated Scope of Supply and Design Submittal based on the following information:

PART 1: PROJECT CONTACT INFORMATION

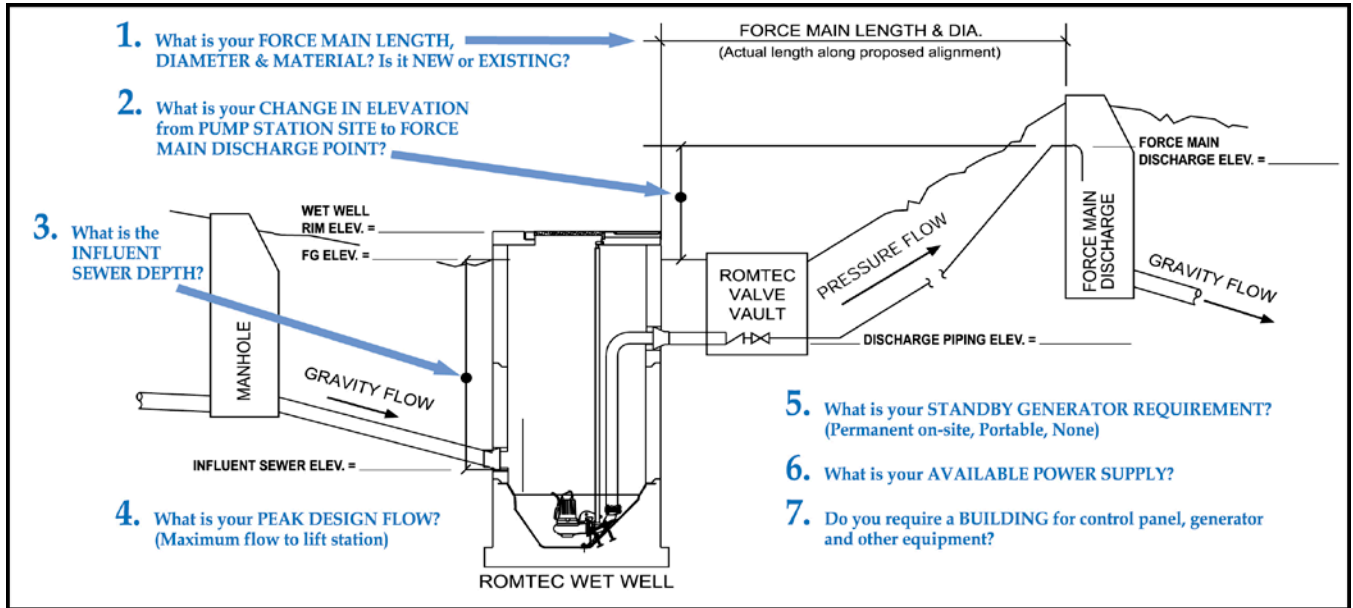
Today's Date: 4/1/2013

| | | | |
|--|---|--------------------------|--|
| Information here in provided by: | <u>Arcadis U.S., Inc.</u> | | |
| Company/Agency Type: | <u>Engineer</u> | <u>Engineer</u> | <u>Developer</u> <u>Gov't. Agency</u> <u>Other</u> |
| First Name: | <u>Erin</u> | | |
| Last Name: | <u>Hauber</u> | | |
| Title: | <u> </u> | | |
| Email Address: | <u>erin.hauber@arcadis-us.com</u> | | |
| Address: | <u>8725 Rosehill Rd. Suite 350</u> | | |
| City: | <u>Lenexa</u> | | |
| State/Province: | <u>KS</u> | Zip Code: | <u>66215</u> |
| Country: | <u>United States</u> | | |
| Telephone: | <u>913-492-0900</u> | Phone Ext: | <u>19</u> |
| Mobile/Other Phone: | <u> </u> | Fax: | <u> </u> |
| Project Name: | <u>Animal Health Product Facility</u> | | |
| Your Client for this project is: | <u>Private Co.</u> | <u>Public Agency</u> | <u>Private Co.</u> |
| Project Type: | <u>Wastewater</u> | <u>Wastewater</u> | <u>Stormwater</u> <u>Other</u> |
| Project City: | <u>De Soto</u> | Project Zip: | <u> </u> |
| Project Engineer: | <u>Erin Hauber</u> | | |
| Reviewing Entity who reviews/approves this Scope of Supply & Design Submittal: | <u> </u> | | |
| Final Project Owner and/or Operator: | <u> </u> | | |
| Governing Sewer or Water Authority: | <u> </u> | | |
| Does Authority have a lift station standard? | <u>N/A</u> | <u>Yes</u> | <u>No</u> <u>N/A</u> |
| Who should Romtec contact about the lift station design standard? | <u> </u> | | |
| What is the Expected Project Bid Date? | <u> </u> | Project Completion Date: | <u> </u> |

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PART 2: DESIGN DATA

If using assumed elevations, note this in Additional Information.



| | | | | |
|--|---|--|---|---|
| 1. Force main length: | <u>30</u> ft. | (actual length along proposed alignment) | | |
| Force main diameter (inside): | <u>3</u> in. | inside dia. | | |
| Force main material (i.e., PVC C-900 class 150, ductile iron class 52, HDPE DR17 class 100, etc.): | <u>PVC</u> | | | |
| Force Main is: | <input checked="" type="checkbox"/> <u>New</u> | <input type="checkbox"/> <u>New</u> | <input type="checkbox"/> <u>Existing</u> | |
| 2. Elevation change from lift station site to force main discharge point: | <u>10</u> ft. | | | |
| Finish grade elevation at wet well: | <u>100</u> ft. | | | |
| Discharge piping elevation at valve vault: | <u>97</u> ft. | | | |
| Force main discharge elevation: | <u>110</u> ft. | | | |
| 3. Influent sewer elevation: | <u>93</u> ft. | | | |
| 4. Design peak flow (maximum flow to lift station): | <u>100</u> g.p.m. @ 21TDH | | | |
| 5. Standby generator requirement: | <input checked="" type="checkbox"/> <u>None</u> | <input type="checkbox"/> <u>Permanent</u> | <input type="checkbox"/> <u>Portable</u> | <input type="checkbox"/> <u>None</u> <input type="checkbox"/> <u>Don't Know</u> |
| Standby generator fuel: | <input checked="" type="checkbox"/> <u>SELECT ONE</u> | <input type="checkbox"/> <u>Diesel</u> | <input type="checkbox"/> <u>Natural Gas</u> | <input type="checkbox"/> <u>Propane</u> |
| 6. Available power supply: | <input checked="" type="checkbox"/> <u>480V</u> | <input type="checkbox"/> <u>208V</u> | <input type="checkbox"/> <u>240V</u> | <input type="checkbox"/> <u>480V</u> |
| | <input checked="" type="checkbox"/> <u>3-phase</u> | <input type="checkbox"/> <u>Single-phase</u> | <input type="checkbox"/> <u>3-phase</u> | |
| Additional loads on site (besides the lift station) to be powered by generator: | <u> </u> | KVA | | |

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7. Electrical controls weather protection:

None

Enclosed
Building

Shelter
Structure

None

Weather protection structure is for:

SELECT ONE

Electrical Controls Only

Electrical Controls & Generator

Controls, Generator, Chemical Feed