

5.02 LIFT STATION DESIGN CRITERIA

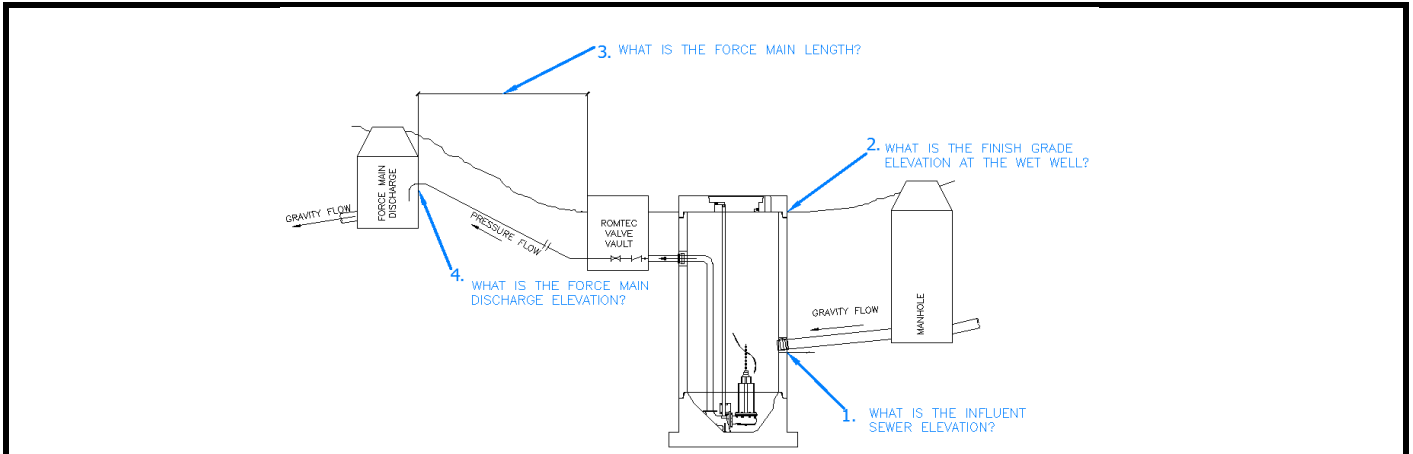
Romtec Utilities has designed this Scope of Supply and Design Submittal based on the following information:

PART 1: PROJECT CONTACT INFORMATION

Date:	<u>11/16/2015</u>		
Project Name:	<u>Dan Rivers CC Steam Station</u>		
Information here in provided by:	<u>HDR</u>		
Name:	_____		
Email Address:	_____		
Telephone:	_____	Phone Ext:	_____
Project Site Address:	<u>Charlotte, NC</u>		
ACAD site plan drawing available at this time?	<input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes	<input type="checkbox"/> No <input type="checkbox"/> N/A
Final Project Owner and/or Operator:	<u>Duke Energy</u>		
Governing Sewer or Water Authority:	<u>?</u>		
Does Authority have a lift station standard?	<input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes	<input type="checkbox"/> No <input type="checkbox"/> N/A
Does this project require "Buy America" materials?	<input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes	<input type="checkbox"/> No <input type="checkbox"/> N/A

PART 2: DESIGN DATA

Note: The drawing below is purely to represent elevations. It does not reflect the design of the lift station.



Source of Water:	<u>Power Plant: High temperature (up to 175 deg. F)</u>		
Water Type:	<u>Blowdown Water: pH is neutral, no chemical breakdown supplied</u>		
Peak design inflow (max flow to lift station):	<u>300 g.p.m.</u>		
Pumping Rate:	<u>277 g.p.m. (PUMPS SUPPLIED BY OTHERS)</u>		
1. Influent sewer elevation:	<u>553.97 ft.</u>		
2. Finish grade elevation at wet well:	<u>564 ft.</u>		
3. Force main length:	<u>? ft.</u>		
4. Force main discharge elevation:	<u>? ft.</u>		
Force main diameter:	<u>? in. inside dia.</u>		
Force main material (PVC, DI, etc.):	<u>?</u>		
Force Main is:	<input checked="" type="checkbox"/> New	<input type="checkbox"/> New	<input type="checkbox"/> Existing
Force Main Discharge (manhole, pressure force main, etc.)	<u>?</u>		
Standby generator:	<input checked="" type="checkbox"/> N/A	<input type="checkbox"/> Permanent	<input type="checkbox"/> Portable <input type="checkbox"/> N/A
Generator fuel:		<input type="checkbox"/> Diesel	<input type="checkbox"/> Natural Gas
Power Supply:	<input checked="" type="checkbox"/> 480V	<input type="checkbox"/> 480V	<input type="checkbox"/> 240V <input type="checkbox"/> 208V
Power Supply:	<input checked="" type="checkbox"/> Three-Phase	<input type="checkbox"/> Three-Phase	<input type="checkbox"/> Single-phase
Is lift station a classified space?	<input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes	<input type="checkbox"/> No