

ROMTEC UTILITIES

DESIGN & ENGINEERING
MANUFACTURING
CONSTRUCTION SERVICES

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Engineers - Help us help You!

by Anisa Bear



Engineers come to us at many different stages of a project. We like it when they call us at the beginning, but we are also happy to jump in the middle and assist, or review a design and advise on its suitability. Romtec Utilities can help civil engineers that have little or no experience with lift station design. With the right information, Romtec Utilities can design the complete lift station, including all necessary drawings. Engineers that we partner with are then able to “drop” these drawings into their plan set with little to no effort. We also are happy to lay our equipment into an engineer’s site plan. This helps us assist the engineer and their client with the “real world” layout of the pump station. We have found, from experience, that pump stations designed “in space” create many problems once a contractor tries to install them.

So, what basic information do we need to design your pump station? Anyone can request a design straight from the form on our website. However, especially at the beginning of a

project, some engineers look at this form and say, “I can’t answer most of these questions!” That is actually okay. There are four basic pieces of information that will allow Romtec Utilities to create a preliminary design.

#1 – What is the anticipated peak flow to the pump station? You don’t know? That is okay too. Call us, or we will call you, and let’s talk about the area that the pump station will be collecting from. For example: how many houses? Is it a large building? How many sinks and toilets are there? Is it a hotel? How many rooms are there? With this information, our engineering staff can determine a flow rate.

#2 – What is the lowest inlet below grade? No actual elevation is needed, just an estimate from grade. So minus nine feet? That is all we need!

#3 – What is the length of the force main? This helps us determine the total dynamic head that the pumps have to work against. This is the first number in the total dynamic head equation. We can recommend a force main size if this has not been determined, or determine if an existing force main is sufficient.

#4 – What is the elevation gain or loss from the wet well to the discharge point? For example, if you are standing on the top of the wet well, how much higher or lower is the discharge point? The answer can be as simple as plus 10 feet. This is the second number in the total dynamic head equation.

With this information, we can quickly quote and design a station. If you are just in the early stages and looking for a price estimate, this information will allow us to give you a ballpark number immediately. Collect these four easy pieces of information, and call us today!