



George T. Hall  
Company

Controls | Automation | Solutions

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December 4, 2015

Andy Hummel P.E.  
The City of Sparks  
431 Prater Way  
Sparks, NV. 89431

Re: Lift Stations: A Cellular Solution

Dear Andy,

Please see this proposal for (10) RTUs for your remote lift stations which will be equipped with a PLC and a cellular modem with respective equipment. The proposed equipment is described herein.

### Cellular Solution

GTH will design and fabricate (10) RTU panels for various locations which will utilize a PLC with required I/O, as well as a Cellular Modem with antenna capable of VPN communications.

Quantities listed below are typical for each of (10) field RTUs.

- 1ea, Phoenix Contact, RS2000, Security Appliance, MGUARD, 2-VPNs
- 1ea, Phoenix Contact, PLC ILC Controller, w/8-DI & 4 DO
- 1ea, Phoenix Contact, (4) AI input card for the above
- 1ea, Phoenix Contact, GSM UMTS Antenna with cable
- 1ea, Phoenix Contact, Surge Protector

Total Price for this project: \$95,125.00
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Note:

- Price do not include any taxes or shipping charges.
- Price do not include any submittals.
- Price includes electrical & mechanical drawings.
- Please allow 6-8 weeks for the fabrication.
- Installation & startup schedule TBD
- Configuration of MGUARDs by the City of Sparks.
- Configuration of PLC Controllers by GTH.
- Wonderware programming by GTH.
- Note: Terms to be determined.
- Note: Due to the lack of structures at some sites, the installation of the RTU will be a joint effort with GTH (two days max per site) and other qualified personnel contracted and paid for by the City of Sparks. Some of these tasks will include the mounting of the RTU enclosure, installation of conduit and conductors to interface with existing control systems.



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Andy, should you have any questions, please call me. Thank you for considering the George T. Hall Company as your solution provider.

Regards,

**George Karsten**

George T. Hall Company

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