# CONTROL SYSTEMS DESIGN, INC.

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## VTScada Purchase and Installation Costs

| | DESCRIPTION | HRS | LABOR |
|---|---|---|---|
| | **Toal Price Below is a Not to Exceed Cost for this Project Scope** | | |
| 1 | VTScada 5K Dual Server Premium package including:<br>Two development runtime licenses, unlimited thin client licenses, alarm notification, support plus for one year, 24/7 support for one year, training course credit of $1000.  Future annual support costs are $4049.25. | 4 | $ 28,295.00 |
| 2 | Onsite, on a new customer computer, install a Development/Runtime version of VTScada and create an application based on the Town's existing iFix application and establish communication with all of the PLCs. This computer needs to be configured for remote access. | 40 | $ 5,400.00 |
| 3 | Remotely, develop a new VTScada database from the existing iFIX database via Trihedral conversion, followed by our verification of each tag and  driver installation for item 2,  necessary to read all data from the PLC. Begin building a display to match the data/control of an existing iFIX display to test, verify the database modifications, communication with the PLC, identify the use of various components of VTScada, and verify operations. Make any global corrections to the database found in this exercise for all remaining tags for such things as scan rate or other global settings.<br>Review with Town staff for style and operations of this display, and once approved, continue the complete development of this software and continue building all remaining screens based on the Town's existing iFix application using these agreed upon methods in item 4. | 80 | $ 10,800.00 |

| | DESCRIPTION | HRS | LABOR |
|---|---|---|---|
| 4 | Remotely, convert all remaining 37 iFIX displays and 53 historical trend displays to VTScada to duplicate the existing control system. During this effort, VTScada updates, or Changesets, will be loaded for our checkout of operation and review by Town staff for their approval of overall operation, one display at a time. Work will continue for conversion of all displays with the same update, review of operation by us and the Town to continue conversion of the remaining displays. Additionally as displays are completed, focus will also go to any aspects of historical data archival timing, specialized trend setups and reports to match what is there now and make any modifications as dictated by the Town. This effort is seen as a group effort for our conversion, checkout and Town approval in order to include them in the conversion and make any modifications necessary to match the existing operator's interface to the plant control. At any point in this process a site visit or visits may be necessary to implement a screen conversion or check on any existing iFIX scripting issues to assure a complete and operable conversion. | 200 | $ 27,000.00 |
| 5 | Onsite, Once the application has been completely developed, configure alarm callouts. | 20 | $ 2,700.00 |
| 6 | Onsite, On a new computer, install a second Development/Runtime version of VTScada and verify communication to all of the PLCs. Configure redundancy, test and verify correct operation and that all alarm callouts are working to email or text. Verify the system takes over as primary alarm callout on the event of a failover. This computer needs to be configured for remote access to allow ongoing edits to finalize the installation. | 60 | $ 8,100.00 |
| 7 | Onsite, install and test a Client version of VTScada on the computers that had runtime versions of iFIX. Verify the workstations are communicating with the VTScada servers providing all data correctly. | 40 | $ 5,400.00 |
| | **Total Cost - Not to exceed for the above scope of work:** | 444 | $ 87,695.00 |