



August 14, 2017

Indian River County
Public Works Department/
Facilities Management
1801 27th Street
Attn: Mr. Chuck Belcher
Vero Beach, FL. 32960

Re: Install underground chilled water piping loop for Health Department Building

Mr. Belcher,

We would like to take a moment to thank you for allowing us to provide pricing for the above-mentioned project work. We understand that you have a choice in contractors to perform this work and appreciate you including us in the process.

Our pricing is based on information collected during several visits, as well as information provided by you.

Based on the information provided we propose the following:

Project scope of work:

- Furnish GPR study as needed
- Furnish and install approximately 520' of uninsulated HDPE type chilled water supply piping – *installed using a directional boring procedure*
- Furnish and install approximately 520' of uninsulated HDPE type chilled water return piping – *installed using a directional boring procedure*
- Furnish and install two (2) 6' x 6' x 60" precast concrete underground valve boxes with hinged manhole covers
- Furnish and install four (4) 6" steel weld tee – *to allow for emergency temporary chiller hook up*
- Furnish and install twelve (12) 6" steel weld flanges
- Furnish and install six (6) 6" flanged butterfly valves
- Furnish and install four (4) 6" x 4" steel concentric reducers
- Furnish and install approximately 40' of 6" steel piping
- Furnish and install approximately 60' of 4" steel piping
- Furnish and install four (4) 6" blind flanges
- Shut-down existing chiller and chilled water pumps
- Tag-out electrical for safety
- Tie-in new underground piping loop to existing chilled water pump loop in each chiller yard – *Main Complex chiller enclosure and Health Department chiller enclosure*
- Open isolation valves allowing water to flow through the new underground piping
- Purge air from the system



- Restore power to both chilled water pumps, start-up and verify proper water flow through the new loop
- Start-up Main chiller plant and verify proper operation
- Remove and dispose of existing Health Department chilled water piping and piping insulation from isolation valves to chiller connections
- Remove and dispose of electrical wiring from chiller back to disconnect box
- Remove and dispose of existing chiller
- Furnish and install new 2" foam glass insulation with protective jacketing to cover new steel chilled water piping in new valve boxes and at pump connections
- Furnish crane lift service to remove old chiller from chiller enclosure
- Furnish mini excavator to open trench for new underground valve box installation
- Furnish concrete cutting contractor to core new openings in both chiller enclosure's walls
- Furnish transportation for old chiller removal
- Furnish Indian River County mechanical permit
- Piping and chiller demo work to be performed during the normal working hours of 8:00 am to 4:30 pm, Monday to Friday (excluding holidays)
- New chilled water loop tie-in work to be performed during weekend hours (excluding holiday weekends)

Pricing excludes:

- Any work performed outside the scope as described above
- Any work performed outside the working hours described above
- Engineering calculations or drawings – *because we have not had access to the original design or calculations we prefer that the county provide the required Engineering study for this project*
- New chilled water piping beyond that described above
- New chilled water pumps – *existing to be reused*
- Concrete patching or painting
- Temporary cooling for the facility
- FAA crane lift plan – *it is not anticipated that this will be required. If found to be required we will address the extra costs for that item at that time*

Proposal clarifications/assumptions:

- The underground valve box manufacturers delivery lead-time is estimate at approximately 6 to 8 weeks from date of order
- Because we have had limited access to the original design drawings or calculations for the main chiller plant, we have excluded the costs associated with design for the new chilled water piping loop. We recommend that the county contract their preferred Engineering design firm to study the existing design and provide the required information
- We will stage our crane adjacent to the chiller yard and will require closure of the parking lot area while the old chiller is being removed from the property
- The Health Department Building will have no air conditioning for a period of approximately two weekend days while the piping tie-in work is being performed
- Proposed pricing will remain in effect for a period of 30-days and can only be extended by mutual agreement of the parties



Proposal pricing:

- Pricing to perform the scope of work listed above: *\$121,100*

If you should have any questions concerning this proposal, or if we may be of further assistance, please do not hesitate to contact me. If this proposal is acceptable to you please sign below giving us authorization to proceed, attach a PO and return via email to my attention.

We thank you for the opportunity to be of service and look forward to working with you to complete this project.

Sincerely,

Daniel E. Tarafa, Jr.
Account Manager
Daniel@precisionairsystemsinc.com
Cell: 772-217-7022

Signature

Print name

Title

Date