



Bid Proposal

September 20, 2018
Gary L. Peterson
City of New Port Richey – Public Works
6132 Pine Hill Rd.
Port Richey, FL 34668
PetersonG@CityofNewPortRichey.org

Re: City of New Port Richey Recreation & Aquatic Center HVAC Chiller Modifications Proposal

Per your request and in accordance with ITB #17-012 for HVAC Preventative Maintenance Contract terms and conditions, we are pleased to provide scope and pricing on the above referenced project. The scope of the work is as follows:

Priority 1 - Chiller Replacement Scope:

- Existing 170-ton chiller be completely replaced with (2), 110-ton chillers in order to provide reliability and redundancy. Chillers will have VPF control strategy installed in their on-board controllers.
- Modify existing block wall around chillers to allow for new chillers and pads. Block wall will be extended out to existing walkway path and walkway to existing double doors will be rerouted up the grading via concrete stairs. New concrete chiller pads and gravel will be installed in newly expanded yard. We have attached a sketch of the new chiller placed inside the existing chiller yard walls. The sketch indicates that the chillers will fit however they will be totally under the overhang which will cause short circuiting of the hot air back to the condenser coils which can de-rate the equipment capacity. We recommend modifying the wall and shifting the chillers out from under the overhang.
- Provide BAC net interface for controls implementation.
- Provide condenser coils with a high-grade coil coating to prevent premature failure.
- Existing 3-way control valves will remain in place and balance valve in bypass will be closed. This will allow the pumping system to operate in VPF and will save energy.
- Provide and install by-pass at chiller plant with ClaVal installed in it for bypass control.

4311 W. Ida St.
Tampa, Fla. 33614
Ph: 813-875-0782
Fax: 813-873-2275

3119 Louise St.
Tallahassee, Fla. 32304
Ph: 850-329-7366
Fax: 850-329-7615

325 Anchor Rd.
Casselberry, Fla. 32707
Ph: 407-699-0454
Fax: 407-699-0690

2700 Ave. of the Americas
Englewood, Fla. 34224
Ph: 941-475-3715
Fax: 941-475-3725



Controls Replacement Scope:

Furnish and install KMC DDC controllers for control of **(2) Air-Cooled Chillers with (2) CHW Pumps.**

Includes:

- Immersion Temperature Sensors
- Chiller Amps Current Sensor
- Chilled Water Differential Pressure sensor
- Water Flow Meter
- CHW Isolation Valves
- Bypass Valves
- Furnish and install control wiring, conduit, and 24V control transformer power wiring.
- Low voltage control wiring in concealed areas shall be run in plenum-rated cable. Exposed wiring, such as in mechanical rooms, shall be run in conduit.
- Furnish and install **(1) KMC Building Controller with web-based graphical user interface.**
- Submittal and As-Built Drawings
- Programming
- Owner Instruction
- 1-Year Warranty.

Engineering Scope:

- Provide Architectural & Engineering design services for production of permit documents for replacement and modification of the existing chiller plant.
- Architectural drawings will be generated to indicate modification of the existing block wall to allow for new chiller removal and installation. The existing chiller is currently installed below the existing roof over hang which does not allow for removal by crane. Wall will be removed, and chiller slid out to allow crane to lift it. This also presents problem with existing chiller recirculating hot air back to the condenser coils. Modification of the wall will allow for chillers to be installed out from under the overhang preventing this issue.
- Architectural drawings will also identify the installation of the new stairs to the south Gym entry doors and modification of the existing concrete pads for the chillers.
- Mechanical drawings will be generated to indicate the modification of the piping, chillers, and pumps. This will include all schedules details and sequence of operation for new plant.
- Control drawings will be generated to identify all control strategies and points as well as schematics for the new chiller plant.
- Electrical plans will be generated to indicated all required electrical revisions to power the (2) new chillers, pumps and VFD's as required for permitting.

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GC Labor / 591 hours x 38.75	\$ 22,902.00
(Twenty-Two Thousand Nine Hundred Two Dollars and Zero Cents)	
GC Materials	\$ 21,506.00
(Twenty-One Thousand Five Hundred Six Dollars and Zero Cents)	
Mechanical Labor / 662 x 38.75	\$ 25,653.00
(Twenty-Five Thousand Six Hundred Fifty-Three Dollars and Zero Cents)	
Mechanical Equipment & Material	\$ 124,310.00
(One Hundred Twenty-Four Thousand Three Hundred Ten Dollars and Zero Cents)	
Shipping & Handling	\$ 10,428.00
(Ten Thousand Four Hundred Twenty-Eight Dollars and Zero Cents)	
Chiller (2) Cost	\$ 104,813.00
(One Hundred Four Thousand Eight Hundred Thirteen Dollars and Zero Cents)	
Controls Labor and Materials	\$ 16,828.00
(Sixteen Thousand Eight Hundred Twenty-Eight Dollars and Zero Cents)	
Architectural / Engineer Plans for Permitting	\$ 28,163.00
(Twenty-Eight Thousand One Hundred Sixty-Three Dollars and Zero Cents)	

This proposal does not include the following item;

- Any other scope previously proposed and submitted for this building. Other scopes will be performed at a later date once approved.

If executed 10% mobilization of the total cost will be required for purchase of materials and staging.

If a bond is required, then add 1.2% to the total price.

If you have any questions, please call.

Respectfully Submitted,

David Ruby
 Account Manager
 Air Mechanical & Service Corporation
druby@amsco-ac.com

Authorization _____

Date _____

Purchase Order _____

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