

WOODBURY COUNTY BOARD OF SUPERVISORS AGENDA ITEM(S) REQUEST FORM

#10a

Date: 3/07/2018

Weekly Agenda Date: 3/13/2018

ELECTED OFFICIAL / DEPARTMENT HEAD / CITIZEN: Kenny Schmitz

WORDING FOR AGENDA ITEM:

Law Enforcement Center HVAC

ACTION REQUIRED:

Approve Ordinance

Approve Resolution

Approve Motion

Public Hearing

Other: Informational

Attachments

EXECUTIVE SUMMARY:

Building Services struggles with day to day operations in many areas of the building and HVAC system that are composed of various needs of repairs or part replacements due to non-functioning systems.

Past practice in some areas were to simply replace controls piece-meal, other instances the decision was to do nothing. Repairs to these items are needed to control temperatures.

BACKGROUND:

Portions of the LEC systems valves, and/or controls are inoperable and in some cases abandoned or being operated manually by reversing pneumatic air lines.

There are multiple control systems that operate independently of one another and are not able to be operated by the building front end system so there is no way to identify how these systems are functioning. Repair of specific LEC HVAC system operating systems and program graphics for operating control through the front-end HVAC System Computer.

Air Handling Unit controllers (AHUs 1, 4, and 5) control valves, and actuators-replace pneumatics with Direct Digital Controls. AHU 2 and 3 add monitoring points to enable control through the system.

Chilled water system control and sensor installations.

Variable Air Volume boxes (16)- convert hot water valves to DDC control.

Booking Area- add controller for the reheat coil.

FINANCIAL IMPACT:

CIP = B13-17

Star Control = \$68,603.00

Plumbing = \$9,000.00

Total= \$77,603.00

IF THERE IS A CONTRACT INVOLVED IN THE AGENDA ITEM, HAS THE CONTRACT BEEN SUBMITTED AT LEAST ONE WEEK PRIOR AND ANSWERED WITH A REVIEW BY THE COUNTY ATTORNEY'S OFFICE?

Yes No

RECOMMENDATION:

Building Services requests authorization to make area repairs and upgrades to the LEC HVAC as outlined.

ACTION REQUIRED / PROPOSED MOTION:

Motion to approved \$77,603.00 for the upgrades and repairs to the LEC HVAC areas as outlined in quote by Star Controls



February 26, 2018

To: Woodbury County Building Services
401 8th Street
Sioux City, IA 51101

RE: Law Enforcement Center

Mr. Kenny Schmitz,

Star Control shall provide the following to replace the controls for all air handlers in the Law Enforcement Center and to add control points required to meet sequence outline by Corey Metzger from Resource Consulting Engineers:

- AHU-1, AHU-4 and AHU-5 will be re-controlled with new BACnet controllers, the control valves actuators will be converted to electronic, all the temperature sensors will be replaced with new and all the damper actuators will be converted from pneumatic to electronic
- AHU-2 and AHU-3 these 2 pieces of equipment are being re-controlled in the cell block area project however in this pricing we have included points required to meet new sequence.
- Provide new controller and sensor for the chilled water system
- 16 VAV boxes that are presently not visible to the maintenance personnel will be re-controlled; the 16 hot water control valve shall be converted to electronic
- Controller to control booking area reheat coil
- Labor to install and pull low voltage wire
- Programming on server to reflect changes
- Generate graphics to reflect point changes

Base Bid: **\$ 68,603.00**

Exclusions:

- Malfunctioning devices to remain in service
- Plumbing for valve replacement (Budget for plumber **\$ 9,000.00**)
- Balancing

Accepted By: _____

Date: _____

Pricing will need to be reviewed after 60 days

Sincerely,

Kevin Welty
Star Control
Phone: 712-224-2429