

Nickell Hall HVAC & Electrical Modernization
Salina KS

Scope of work:

Original Scope:

This project will require a code foot print from the OFPM office located in Topeka. Nickell Hall Lodging Facility (79,775 SF) is a year-round housing facility that shall be fitted with seven energy conservation measures. These measures include new high efficiency energy recovery wheels, High efficiency individual fan coils units@ each lodging room. Individual lighting and HVAC controls for each lodging room shall be installed as well. Individual rooms shall receive new key card occupancy/T-stat/setback controls linked to existing control systems. A lighting fixture retrofit shall also be included in all public areas. Building envelop sealing measures shall be completed in accordance with air infiltration test previously completed by owner. Copy of that test will be provided for design. The building envelop shall be sealed per ASACE recommendations as identified. The existing two pipe system shall be altered by isolating the occupied rooms & distributing air flow as required. Modifications to the kitchen ventilations system shall be completed to meet code requirements. Xeriscape measures which shall be executed to replace the majority of the existing lawn in order to drastically reduce the current irrigation use and cost.

Revised Scope in addition to:

1. Remove and replace each existing AHU inside the building with new water to air heat pump AHUs. This would be a 1 for 1 replacement for approximately 35 units. Reconnect each to the existing DDC temp control system.
2. To provide individual thermostatic control in each room, provide a new thermostat and zone damper in each room. Connect each damper/stat to existing DDC control panel. Each stat would have a minor up/down adjustment (programmable, but assume +/- 3 degrees).
3. Replace boilers with high-efficiency condensing boilers that would be of the same approximate heating output as your current system. These boilers are meant to be able to tie into geothermal expansion without issue later as well.
4. Replace chiller with cooling tower. This cooling tower is meant to be able to tie into geothermal expansion without issue later as well.
5. Lighting replacement in sleeping area only for a 1-for-1 replacement from the linear fluorescent type to a ceiling surface mount bowl fixture with compact fluorescent lamps. This could be set up as an alternate based on final costs?
6. Envelope sealing per envelope testing report and associated recommendations?
7. Xeriscape the internal courtyards only as an alternate.