

# NEMAHA COUNTY, KANSAS

Project Value:

**\$455,263**

Annual Savings:

**\$20,733**

Annual Maintenance Savings:

**\$11,738**

## IMPROVEMENT DETAILS

### Courthouse Upgrades

- Heating and cooling system redesign, including two new high-efficiency condensing boilers and a new chiller
- Complete upgrade to double-paned windows
- All new lighting fixtures

### Additional Upgrades

- Installed high-efficiency boiler at the County's Pioneer Building
- Linked all buildings by expanding existing HVAC control system
- New high-bay fluorescent lights at Community Building
- Complete T12 to T8 lighting upgrade

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## GOALS AND CHALLENGES

The antiquated boiler and chiller posed a risk of potential failure at the Nemaha County Courthouse. Couple with concerns about the building's aesthetic appearance, poor lighting, boiler programs in a second building, and high utility costs, the issues prompted the County Commissioners to seek the assistance of Willdan to develop a holistic solution to the many problems facing their facilities.

## SOLUTIONS AND OUTCOME

At the Courthouse, Willdan designed a new high-performance boiler and chiller system. This system, along with the new boiler installed at the neighboring Pioneer Building, was incorporated into the County's building automation system.

To address the leaky and unattractive windows, new double-paned, tinted windows were installed throughout the Courthouse. Combined with the replacement of outdated lighting fixtures, the building now presents a much more attractive image to employees and visitors alike.

