

CARROLL COUNTY COURTHOUSE

CARROLLTON, OH, USA

CORRECTIONS

THE SANDSTONE SLAMMER

Built in 1884 in the Second Empire style, the Carroll County Courthouse is a 4-story, mixed-use facility. The courthouse building constructed of Navarre sandstone is connected to a two-storey rear-wing that was added in 1976 to provide additional space for the county jail and an annex for county officials.

PROJECT DETAILS

Reliable Controls[®] Authorized Dealer, Control Concepts of Ohio provided the Carroll County Courthouse facility with an economical and flexible HVAC upgrade by performing a complete pneumatic to digital renovation. After replacing the aging pneumatic HVAC system, the courthouse runs on a uniform platform that provides reliable HVAC.

The MACH-ProWebSys™ and MACH-ProSys™ controllers are utilized to control three 20-ton multi-zone Air Handler Units (AHUs) with DX cooling deck and hot water heat deck. The MACH-ProPoint™ IO expansion modules are used to control zone mixing dampers and zone damper position. The MACH-ProZone™ controllers are remotely located in the space to collect zone temperature for zone temperature panels connected via MS/TP. Onsite mechanical equipment consists of two steam boilers for lead/lag with hot water heat exchanger. The Reliable Controls MACH-System™ is controlling sequence of operations on a 30-ton Trane chiller, as well as all sequences of steam plant, including the supply of heat to other older parts of the building.

Carroll County administrators report tremendous savings in both natural gas and electric.

To learn more about projects using Reliable Controls[®] visit www.reliablecontrols.com/projects/overview



PROJECT TYPE:

Retrofit

INSTALLATION TYPE:

**Boiler, Chiller, HVAC, VAV,
Multi-zone AHUs**

TOTAL AREA:

60,000 m² (645,835 ft²)

EQUIPMENT INSTALLED:

**1 MACH-ProWebSys™
2 MACH-ProSys™
4 MACH-ProZone™
8 MACH-ProPoint™
23 SPACE-Sensor™ Temperature**

NETWORK:

EIA-485, LAN, WAN

TOTAL SYSTEM POINTS:

160 points

CONSULTANT:

Kramer Engineers, Columbus, OH

RELIABLE CONTROLS[®] DEALER:

Control Concepts of Ohio