



The photographs contained in this book are of the original existing Security and Access Control System at the Linn County Sheriff's Office and Jail.

The first six photographs show the original existing system control interface and interconnection under the West Housing Unit. The original system used standard electromechanical / lighted pushbutton switches, non-socketed electromechanical relays mounted on printed circuit boards, and standard 'icecube' electromechanical relays. These components were interconnected with #26 telephone interconnect wire and 25 to 50 pair telephone cable. There were no 'as-built' schematics of the system, only 'concept' and 'typical' drawings.

The system was impossible to maintain. Although the system functioned for years, it was very difficult to understand, isolate and repair any component failures. There was a very steep 'learning curve' for the Service Technicians, substantial delays in returning the system to service, and significant costs for system maintenance.

The next nine photographs show the completed installation of the new microprocessor-based system. The new fully integrated system uses a 'data highway' to communicate between system components, with fully socketed active components interfacing to the doors, intercoms and other facility equipment. Time to return-to-service has been reduced to minutes instead of hours or days.

This project was completed while the facility remained functional. Close cooperation between the Corrections staff and Construction crews resulted in a minimum of disruption in the day-to-day operations of the Jail.

A handwritten signature in blue ink, appearing to read 'David G. Hunt'.

David G. Hunt
Project General Foreman
Electrical Construction, Inc.