DIVISION 28 - ELECTRONIC SAFETY AND SECURITY

28 1300  ACCESS CONTROL SYSTEM

A. The University of North Dakota shall use hardware and software compatible with UND and/or supplied by Honeywell Inc.

B. Electronic Door Access (EDA) Systems:
   1. EDA systems require UND Facilities Management’s Electronics Department approval and should be compatible with our current access system.
   2. EDA shall be on a server managed by and maintained by Vice President for Operations and Information Technology Systems.
   3. The location license of each physical and virtual electronic door shall be purchased as part of the project.
   4. Design professional shall indicate physical electronic door locations on construction documents.
   5. At a minimum, EDA will be used at the identified entrances and exits of the facility.

C. Remote Door Controller: Provide multi-configurable IQ series controllers as required by Honeywell.

D. Implement building lockdown capabilities via card access system (either hardwired or wireless).

E. Use of electric strikes is preferred over electrified exit devices.

F. Strikes shall have a 5-year warranty similar to the HES and Folger-Adams brands.

G. Exit devices shall be of the Von Duprin 99 series.

H. Electrified exit devices shall be of the Von Duprin 99 series and use the Quiet electric (QEL) option.

I. Maglocks shall not be used.

J. Off-the-shelf HID car readers and credentials (peripherals) are to be used.

K. Power supplies shall have a life-time warranty similar to the Altronix brand and shall be collocated with electronic card access controllers in secure rooms.

L. An IDEC programmable relay (FL1E-H12RCA or equivalent) shall be used to sequence automatic door operation for ADA accessibility.

M. Back-up power (generator or UPS) needs to be installed for card access areas.

N. System cable description:
   1. Composite plenum-rated cable suitable for installation in conduit and cable trays, similar to Carol 4EPLAS.
   2. Lock control cable: #18/4
   3. Reader cable: #22/6
4. Door switches cable: #22/2 shielded
5. Request-to-exit cable: #22/4 shielded

28 1600  INTRUSION DETECTION

A. Intrusion detection shall be integrated into Access Control System and thereby monitored by UND’s existing Honeywell EBI Building Automation System.

B. In facilities where an Access Control System is not used, the Intrusion Detection System shall use components that use Form C contacts that can be monitored by the Building Automation system.

C. Hardwired devices are to be used. Use of wireless devices are to have prior approval from the UND Facilities Management Electronics Department.

28 2300  VIDEO SURVEILLANCE

A. Video surveillance shall meet the requirements of the UND Police Department policy (available online). http://und.edu/public-safety/_files/docs/surveillanceequipment.pdf

B. Video surveillance equipment shall meet the requirements of the Open Network Video Interface Forum (ONVIF)

C. Video recording for IP cameras shall be on a server managed and maintained by Vice President for Operations and Information Technology Systems.

D. The video license for each camera shall be purchased as part of the project.

E. Design professional shall indicate camera and equipment locations on shop drawing.

F. The video surveillance will cover, at minimum, the entrances and exits for the facility, any long corridors, point-of-scale locations, any area identified as a high security zone (i.e., vault, cash room, secure file room, EHS sensitive area, etc.)

28 2600  ELECTRONIC PERSONNEL PROTECTION SYSTEMS

A. Duress (panic alarms) shall be monitored by the building automation system.

D. Hardwired devices are to be used. Use of wireless devices are to have prior approval from the UND Facilities Management Electronics Department.

28 3100  FIRE DETECTION AND ALARM

A. Use either FCI-Gamewell or Simplex-Grinnell fire alarm control panels.
B. Locate the fire alarm control panel in or near a primary entrance with ease of access for first responders, or use a remote annunciator panel with a microphone at this entrance.

C. Notification appliances shall be speaker-visual devices.

D. Mass notification devices shall be integral with the fire alarm system.

E. Use red colored conduit for quick identification of the fire alarm system raceway.

F. The fire alarm system shall be monitored at the UND operations center. The fire alarm system shall be connected to the operations center through the Building Automation System in the building.

G. The fire sprinkler system shall be interconnected with the fire alarm system for alarm and notification.

H. The building shall have an addressable fire alarm and notification system throughout the facility. The system shall provide primary notification of any smoke or fire event directly to the building occupants. Also, the fire alarm and fire supervisory alarms need to report to the campus monitoring system (Honeywell EBI) via BACnet communications.

I. Programming of the fire alarm system shall allow for bypass functions as requested by the user.

J. Mass notification shall be the same manufacturer as selected for the fire alarm system.

K. Each detector and beam detector shall have a test switch indicator assembly mounted for easy access for testing and status.

L. The symbol for the test switch indicator shall be used on the drawing/shop plan.