SECTION 281500 - INTEGRATED ACCESS CONTROL HARDWARE DEVICES

PART 1 - GENERAL

1.1 SUMMARY

A. Section Includes:

1. Integrated credential readers and entry management.

2. Electrified locking devices and accessories.

B. Related Requirements:

1. Section 260010 "Supplemental Requirements for Electrical" specifies additional requirements applicable to coordinating, scheduling, and sequencing of the Work specified in this Section.

2. Section 281517 "Egress Management Devices" for additional access control hardware device products intended for use along the means of egress.

1.2 DEFINITIONS

A. BMS: Building management system.

B. NFC: Near Field Communications.

C. PoE: Power over Ethernet.

1.3 ACTION SUBMITTALS

A. Product Data:

1. For each type of product.

B. Field quality-control reports.

1.4 CLOSEOUT SUBMITTALS

A. Warranty documentation.

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1.5 REGULATORY AGENCY APPROVALS FOR EGRESS MANAGEMENT DEVICES

A. Submittals for egress management devices requiring approval by authorities having jurisdiction must be signed and sealed by qualified life safety professional engineer responsible for their preparation. Submit for action by Architect prior to submitting for approval by authorities having jurisdiction.

B. Submittals for egress management devices require action by Architect prior to submitting for approval by authorities having jurisdiction.

PART 2 - PRODUCTS

2.1 INTEGRATED CREDENTIAL READERS AND ENTRY MANAGEMENT

A. Proximity Reader for Card, Fob, or Smartphone:

1. Manufacturers: Subject to compliance with requirements, provide products by the following:

a. Schlage

2. Source Limitations: Obtain products from single manufacturer.
3. Performance Criteria:

a. Regulatory Requirements: Listed and labeled in accordance with NFPA 70, by qualified electrical testing laboratory recognized by authorities having jurisdiction, and marked for intended location and application.
b. Listing Criteria:

1) UL CCN ALVY; including UL 294.
2) Plastic Enclosure: UL CCN QMFZ2; including UL 94.

c. General Characteristics: Visual LED indication of card read.

4. Options:

a. Input Voltage: 5 to 28 V(dc).
b. Operating Temperature: Minus 40 to plus 158 deg F.

c. Materials: Long-wearing polymeric plastic.
d. Colors: Black.

e. Size: Single gang.

2.2 ELECTRIFIED LOCKING DEVICES AND ACCESSORIES

A. Request-to-Exit (REX) Motion Sensor:

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1. Source Limitations: Obtain products from single manufacturer.
2. Performance Criteria:

    a. Regulatory Requirements: Listed and labeled in accordance with NFPA 70, by qualified electrical testing laboratory recognized by authorities having jurisdiction, and marked for intended location and application.
    b. Listing Criteria: UL CCN ALVY; including UL 294.

B. Request-to-Exit (REX) Push Button:

1. Source Limitations: Obtain products from single manufacturer.
2. Performance Criteria:

    a. Regulatory Requirements: Listed and labeled in accordance with NFPA 70, by qualified electrical testing laboratory recognized by authorities having jurisdiction, and marked for intended location and application.
    b. Listing Criteria: UL CCN ALVY; including UL 294.

PART 3 - EXECUTION

3.1 INSTALLATION OF INTEGRATED ACCESS CONTROL HARDWARE DEVICES

A. Comply with manufacturer's published instructions.

B. Special Techniques:

1. Cable Type: Unshielded.
2. Analog Maximum Cable Length: 1000 ft.
3. Digital Maximum Cable Length: 500 ft.

C. Interfaces with Other Work:

1. Coordinate installation of new products for access control hardware devices with existing conditions.

2. Egress Management Interfaces:

    a. Coordinate with Section 284600 "Fire Detection and Alarm" for monitoring of egress management device alarms by fire-alarm system.

3.2 FIELD QUALITY CONTROL

A. Administrant for Security Tests and Inspections:

1. Administer and perform tests and inspections.

B. Tests and Inspections:

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1. Perform manufacturer's recommended tests and inspections.

C. Nonconforming Work:

1. Device will be considered defective if it does not pass tests and inspections.
2. Remove and replace defective units and retest.

D. Collect, assemble, and submit test and inspection reports.

3.3 PROTECTION

A. After installation, protect integrated access control hardware devices from construction activities. Remove and replace items that are contaminated, defaced, damaged, or otherwise caused to be unfit for use prior to acceptance by Owner.

END OF SECTION 281500

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