

## SECTION 28 13 53 - APARTMENT ENTRY SYSTEM

## PART 1 GENERAL

## 1.1 DESCRIPTION

- A. There will be multiple entry points and the system will need to interact with an card access system as well as ADA door operators.

## 1.2 QUALITY ASSURANCE

- A. Underwriters Laboratories, Inc., listed, and NEC approved.

## 1.3 SUBMITTAL AND RECORD DOCUMENTATION

- A. Submit product data describing all components whether listed in specifications or on plans needed for a complete installation.
- B. Submit shop drawings which shall include complete wiring and schematic diagrams for equipment furnished, equipment layout, and other details.
- C. Include performance field test reports with operation and maintenance manuals.

## PART 2 - PRODUCTS

## 2.1 MATERIALS

- A. Apartment Entry Panel
  - 1. Cellular 4G or VOIP
  - 2. Ability to be programmed remotely
  - 3. Built in LCD display
  - 4. Anti-pass back
  - 5. LED illuminated keypad
  - 6. Full duplex communication
  - 7. Interface with card readers and ADA controllers
  - 8. Stainless weatherproof
  - 9. (3) from "C" dry contacts
  - 10. Doorking, Kantech, Viking or approved equal
- B. Software
  - 1. Capable of 3000 names and numbers
  - 2. Network based for remote programming.
  - 3. EEPROM memory chip
  - 4. Store up to 8000 access card codes

## PART 3 - EXECUTION

### 3.1 GENERAL INSTALLATION

- A. Wiring Method: Install wiring in raceways except in accessible indoor ceiling spaces and attics, and as otherwise indicated. Conceal raceways and wiring except in unfinished spaces and at terminal boards. Extend wiring as needed.
- B. Wiring Within Enclosures: Bundle, lace, and train the conductors to terminal points with no excess. Provide and use lacing bars and distribution spools.
- C. Pulling Cables: Do not exceed manufacturer's recommended pulling tensions. Do not install bruised, kinked, scored, deformed, or abraded cable. Do not splice cable between indicated termination, tap, or junction points. Remove and discard cable where damaged during installation and replace it with new cable.
- D. Splices, Taps, and Terminations: For power and control wiring use numbered terminal strips in junction, pull, and outlet boxes; terminal cabinets; and equipment enclosures. Tighten connections to comply with torque tightening requirements specified in UL 486A.
- E. Grounding: Provide independent signal circuit grounding recommended by manufacturer.

### 3.2 OPERATION

- A. Set features within the system to not allow residents to remotely release the door lock via landline or cellular phone.

### 3.3 IDENTIFICATION

- A. Identify system components, wiring, cabling, and terminals according to NEC Electrical Identification requirements.

### 3.4 FIELD QUALITY CONTROL

- A. Manufacturer's Field Service: Provide services of a factory-authorized service representative to supervise the field assembly and component connections and the pretesting, testing, and adjusting of the system.
- B. Inspection: Verify that units and controls are properly installed, connected, labeled and that interconnecting wires and terminals are identified.
- C. Pretesting: Align and adjust the system and pretest all components, wiring, and functions to verify they conform to specified requirements. Replace malfunctioning or damaged items with new items. Retest until satisfactory performance and conditions are achieved.
- D. Acceptance Test Schedule: Schedule tests after pretesting has been successfully

completed and system has been in normal functional operation for at least two weeks. Provide a minimum of 10 days' notice of acceptance test performance schedule.

### 3.5 CLEANING

- A. Clean installed items using methods and materials recommended by manufacturer.

### 3.6 DEMONSTRATION

- A. Is not required the installation is just a modification of the existing.

### 3.7 ON-SITE ASSISTANCE

- A. Occupancy Adjustments: When requested within one year of substantial completion, provide on-site assistance in tuning and adjusting the system to suit actual occupied conditions and to optimize performance. Provide up to two requested adjustment periods at the site for this purpose without additional cost.

END OF SECTION 28 13 53