



SECTION 16720

TELEPHONE ENTRY SYSTEMS

Elite EL25

PART 1 GENERAL

1.1 SECTION INCLUDES

- A. Telephone entry systems by Chamberlain, including the following:
 - 1. Telephone entry control devices.
 - 2. Application software.

1.2 RELATED SECTIONS

- A. Section 13700 - Access Control Systems.
- B. Section 16050 - Basic Electrical Materials and Methods.

1.3 REFERENCES

- A. NFPA 70 - National Electrical Code.
- B. FCC Regulations - Part 68.
- C. Canadian Department of Communications.

1.4 REGULATORY REQUIREMENTS

- A. System shall be UL-Listed.

1.5 SUBMITTALS

- A. Submit under provisions of Section 01300.
- B. Manufacturer's Data: Submit copies of the following:
 - 1. Product Data Sheets.
 - 2. Installation Instructions.
 - 3. Authorized Dealer Certificate and Certified Training Certificates of installers who will be working on this project.
- C. Shop Drawings: Submit the following:
 - 1. Access system layout and locations, including size requirements.
 - 2. Detailed wiring diagrams of access equipment.
 - 3. Load calculations of all equipment for proper sizing of electrical provided by the customer and standby emergency generator circuits.
- D. As-Built Drawings: Update Shop Drawings to create final As-Built Drawings. Submit 3 copies and digitally in AutoCAD 14 or later format on a CD (3 copies).
- E. Operation Data: Include three (3) copies of the software Administrator and Operator Manuals.

- F. Maintenance Data: Include maintenance and repair procedures.

1.6 QUALITY ASSURANCE

- A. Manufacturer: The telephone entry control system shall be from a single-source manufacturer that specializes in telephone entry control systems with a minimum of 5 years experience.
- B. Installer: Company specializing in telephone entry control systems with a minimum of three years experience on systems of similar size and scope. Technicians working on project must have been certified on the hardware and software used for this project.

1.7 DELIVERY, STORAGE, AND HANDLING

- A. Owner will provide, on-site, a secure, dry, locked storage area for all equipment delivered under this scope of work.
- B. Store products in manufacturer's unopened packaging until ready for installation.
- C. Store and dispose of solvent-based materials, and materials used with solvent-based materials, in accordance with requirements of local authorities having jurisdiction.

1.8 PROJECT CONDITIONS

- A. Maintain environmental conditions (temperature, humidity, and ventilation) within limits recommended by manufacturer for optimum results. Do not install products under environmental conditions outside manufacturer's absolute limits.

PART 2 PRODUCTS

2.1 MANUFACTURERS

- A. Acceptable Manufacturer: The Chamberlain Group, Inc., which is located at: 845 Larch Ave. ; Elmhurst, IL 60126; Toll Free Tel: 800-282-6225; Fax: 630-993-6024; Email: [request info](#); Web: www.chamberlain.com
- B. Substitutions: Not permitted.
- C. Requests for substitutions will be considered in accordance with provisions of Section 01600.

2.2 TELEPHONE ENTRY SYSTEMS

- A. Residential and Light Commercial Telephone Entry Control System:
 - 1. Acceptable Product: Chamberlain Elite EL25, base unit.
 - 2. Acceptable Product: Chamberlain Elite EL25, base unit with the following E-Z Scan plug-in modules:
 - a. Wiegand Output Module: Allows addition of card readers and remote keypads.
 - b. RF Module: Allows access through gates/doors with Passport transmitters.
 - 3. Memory Chip Capacity: 2,000 codes; programmable as directory codes or access codes.
 - 4. Standard Features:
 - a. Remote Access Diagnostics: Unit will record the following alarms: forced door/gate, door/gate ajar, unit over/under voltage.

- b. Voice Prompts: Push button provides ADA compliant voice prompts for end users.
 - c. Line Noise Tolerance: Enhanced telephone connection to unit via modem.
 - d. Legacy Database Conversion: Versa XS 2.0 Software allows transfer of information from existing Sentex system to new Sentex system.
 - e. Programming: Versa XS 2.0 Software allows control programming through modem, unit keypad or direct laptop connection.
 - f. Controllable System Relays: Four independent relays can be set to activate doors/gates; can function as strike, control, shunt, alarm or CCTV relays. Activation time between 1 and 300 seconds.
 - g. Call Forwarding: System will dial a pre-programmed telephone number when the tenant is not at the monitored location. Access can be granted or denied from remote location. Call forwarding can be programmed manually as needed or time-activated to occur at scheduled intervals.
 - h. Call Waiting: Resident can answer an access call from a visitor while in the middle of another outside call. Resident can answer an outside call if on an access call.
 - i. Illuminated key pad.
 - j. Non-Volatile Memory: In event of power failure, database information is retained in memory allowing immediate start-up and operation when power is restored.
 - k. Separate Call Button: Initiates phone call to resident.
 - l. Distinctive Ringing: Unique double ring on resident's telephone to distinguish between a standard call and an access request call.
 - m. Entry Codes: Codes can be time restricted or established as one-time-use-only.
 - n. Holiday Programming: Maximum of 16 holidays can be defined to override the pre-defined lock/unlock schedules.
 - o. Time Zones: Software manages up to 62 separate time zones with 3 segments each for access/no access schedules.
 - p. Anti-Passback: Waits for pre-programmed period of time before code or card can be reused. Requires use of optional exit reader.
 - q. Transaction Monitoring: Maximum of 4,000 transactions (date, time, unit ID and transaction) stored in unit are retrievable for record of on-site activities.
 - r. Battery backed clock/calendar including daylight savings and leap years.
 - s. Automatic Gate/Door Unlock Schedule: Main or auxiliary access points can be programmed to open at pre-defined times.
 - t. Security Lockout: Locks out all users for a programmable period of time if several invalid code attempts are made.
 - u. Alarm Calling: System dials pre-defined telephone number to notify security personnel of the alarm condition if door/gate is forced open or held open too long.
 - v. Remote Updates: Software updates accomplished through remote computer and modem connection.
 - w. Do Not Disturb: Assignable on tenant-by-tenant basis when programmed manually through touch tone telephone or by a pre-programmed schedule.
 - x. Lightning Protection: Installer shall provide external surge suppressors in addition to surge protection inherent in the entry system.
5. Optional Features: Provide the following:
- a. Exit Reader: Required for true anti-passback operation.
 - b. Camera: Integrate camera into system to provide live video directly to

- television or monitor screen.
- 1) Black and white CCTV camera.
 - 2) Color CCTV camera.
 - 3) Color low-lux camera compatible with DVRs.
- c. Passport Control: Pushbutton remote control will operate LiftMaster garage door openers, gate operators and commercial door operators. Requires RF module.
 - d. E-Z Scan: Cards and Passport transmitters can be programmed into the unit through the card reader or radio receiver installed into one of the plug-in modules.
 - e. Lighted directory enclosure for paper insert with 125 names.
6. Dimensions for EL 25 Surface Mount: 6 inches (152 mm) high by 10 1/4 inches (260 mm) wide by 4 (102mm) inches deep.
 7. Power: 12 VAC.
 8. Enclosure: Vandal resistant.
 - a. Color: Nickel.
 - b. Color: Silver.
 - c. Color: Gray.
 - d. Mount: Vertically.
 - e. Mount: Horizontally.
 9. Warranty: One year.

PART 3 EXECUTION

3.1 EXAMINATION

- A. Do not begin installation until substrates have been properly prepared.
- B. If substrate preparation is the responsibility of another installer, notify Architect of unsatisfactory preparation before proceeding.

3.2 INSTALLATION

- A. Install system in accordance with manufacturer's instructions.
- B. Install wiring for detection and signal circuit conductors in conduit. Use 22 AWG minimum size conductors.
- C. Make conduit and wiring connections to existing door hardware devices as required.

3.3 PROTECTION

- A. Protect installed products until completion of project.
- B. Repair or replace damaged products before Substantial Completion.

END OF SECTION