

Part 1 General

1.1 ACTION AND INFORMATIONAL SUBMITTALS

- .1 Submit in accordance with Section 01 33 00 - Submittal Procedures.
- .2 Product Data:
 - .1 Submit manufacturer's instructions, printed product literature and data sheets for access controls and equipment and include product characteristics, performance criteria, physical size, finish and limitations.
- .3 Shop Drawings:
 - .1 Submit drawings stamped and signed by professional engineer registered or licensed in Newfoundland and Labrador, Canada.
 - .2 Shop drawings to indicate project layout, including details.
 - .1 Shop drawings to indicate, mounting heights and locations, wiring diagrams.
 - .2 Submit zone layout drawing indicating number and location of zones and areas covered.
 - .3 Submit wiring diagrams.
 - .4 Submit complete equipment list.
- .4 Manufacturer's Instructions: submit manufacturer s installation instructions.

1.2 CLOSEOUT SUBMITTALS

- .1 Submit in accordance with Section 01 78 00 - Closeout Submittals.
- .2 Operation and Maintenance Data: submit operation and maintenance data for access controls and equipment for incorporation into manual.
 - .1 Include:
 - .1 System configuration and equipment physical layout.
 - .2 Functional description of equipment.
 - .3 Instructions of operation of equipment.
 - .4 Illustrations and diagrams to supplement procedures.
 - .5 Operation instructions provided by manufacturer.
 - .6 Cleaning instructions.

1.3 DELIVERY, STORAGE AND HANDLING

- .1 Deliver, store and handle materials in accordance with manufacturer's written instructions.
- .2 Delivery and Acceptance Requirements: deliver materials to site in original factory packaging, labelled with manufacturer s name and address.
- .3 Storage and Handling Requirements:

- .1 Store materials indoors, in dry location, off ground, and in accordance with manufacturer s recommendations in clean, dry, well-ventilated area.
- .2 Store and protect access controls and equipment from nicks, scratches, and blemishes.
- .3 Replace defective or damaged materials with new.

1.4 WARRANTY

- .1 Manufacturer's Warranty: submit, for Departmental Representative's acceptance, manufacturer s standard warranty document executed by authorized company official.

Part 2 Products

2.1 MATERIALS

- .1 Slide Gate Operator: 208VAC, single phase motor complete with weatherproof enclosure, to be installed by qualified personnel. The following accessories to be included:
 - .1 Edge sensors installed on both sides of gate.
 - .2 Three button control station installed on side of gate operator enclosure.
 - .3 Heater inside operator enclosure.
- .2 Design Criteria:
 - .1 Design access control and security access system using only ULC/UL listed products.
- .3 Contractor to provide one spare of the following components:
 - .1 Gate operator.

Part 3 Execution

3.1 INSTALLATION: SECURITY ACCESS

- .1 Install components in accordance with manufacturer's written installation instructions to locations, heights and surfaces shown on reviewed shop drawings.
- .2 Install labels on gate operator enclosures
 - .1 Wording on label to read "Gate Operator #1".
- .3 Install components secure to walls, ceilings or other substrates.
- .4 Install required boxes in inconspicuous accessible locations.
- .5 Conceal conduit and wiring.

3.2 COMMISSIONING

- .1 Commissioning to be completed in accordance with Section 01 91 13 – General Commissioning Requirements.

- .2 Manufacturer's start-up checklists to be completed as commissioning form.
- .3 Perform verification inspections.
 - .1 Provide all necessary tools, ladders and equipment.
 - .2 Ensure appropriate subcontractors, manufacturer's representatives, Departmental Representatives and security specialists are present for verification.
- .4 Pretesting procedure:
 - .1 Verify (utilizing an approved spectrum analyzer and test equipment) that system is fully operational and meets all system performance requirements of this specification.
- .5 Technical verification: purpose to ensure that all systems and devices are properly installed and free of defects and damage. Technical verification includes:
 - .1 Connecting joints and equipment fastening.
 - .2 Compliance with manufacturer's specification, product literature and installation instructions.
- .6 Operational verification: purpose to ensure that devices and systems performance meet or exceed established functional requirements. Operational verification includes:
 - .1 Operation of each device individually and within its environment.
 - .2 Operation of each device in relation with programmable schedule and or/specific functions.

3.3 CLEANING

- .1 Progress Cleaning: clean in accordance with Section 01 74 00 - Cleaning.
 - .1 Leave Work area clean at end of each day.
- .2 Final Cleaning:
 - .1 Remove protective coverings from accessories and components.
 - .2 Clean housings and system components, free from marks, packing tape, and finger prints, in accordance with manufacturer s written cleaning recommendations.
 - .3 Clean components free from dirt and fingerprints.

3.4 PROTECTION

- .1 Protect installed products and components from damage during construction.
- .2 Repair damage to adjacent materials caused by access controls and equipment installation.

END OF SECTION