

SECTION 11 14 00  
FULL HEIGHT TURNSTILES

PART 1 GENERAL

1.1 SECTION INCLUDES

- A. Full height turnstile for pedestrian access control and accessories.

1.2 RELATED SECTIONS

- A. Section 03 30 00 - Cast-in-Place Concrete: Concrete mounting pads.
- B. Division 16 - Requirements for electrical connections.

1.3 SUBMITTALS

- A. Submit under provisions of Section 01 30 00.
- B. Product Data: Equipment list, system description, electrical wiring diagrams for installation, and manufacturer's data sheets on each product to be used, including:
  - 1. Preparation instructions and recommendations.
  - 2. Storage and handling requirements and recommendations.
  - 3. Installation methods.
- C. Shop Drawings: Submit shop drawings showing layout, profiles, and product components, including anchorage, edge conditions, and accessories.
  - 1. Operation, installation, and maintenance manuals including wiring diagrams.
  - 2. Risers, layouts, and special wiring diagrams showing any changes to standard drawings

1.4 DELIVERY, STORAGE, AND HANDLING

- A. Store products in manufacturer's unopened packaging with labels intact until ready for installation.
- B. Schedule delivery of parking control equipment so that spaces are sufficiently complete that operators can be installed upon delivery.

1.5 QUALITY ASSURANCE

- A. Perform installation by factory authorized contractor specifically trained in pedestrian turnstile installations of the type found within this section.
- B. Provide documentation of maintenance and repair service availability for emergency conditions.
- C. Provide quarterly maintenance for one year following Substantial Completion of the Project.

1.6 WARRANTY

- A. Manufacturer's standard warranty for one year or 2 million cycles.

## PART 2 PRODUCTS

### 2.1 MANUFACTURERS

- A. Acceptable Manufacturer: [www.Turnstiles.us](http://www.Turnstiles.us), 8641 S Warhawk Road, Conifer, CO 80433. Tel 303 670 1099 \* Fax 303 679 8949 website: [www.TURNSTILES.us](http://www.TURNSTILES.us)
- B. Substitutions: Not permitted.
- C. Requests for substitutions will be considered in accordance with provisions of Section 01 60 00.

### 2.2 FULL HEIGHT PEDESTRIAN TURNSTILE

- A. Magnetic Automation Corp MPT 33 Single Full Height Pedestrian Turnstile: one passage lane, electromechanical solenoid locking bi-directional turnstile, 100% duty cycle, multifunction controller and mounting plates for card readers, etc.
- B. Magnetic Automation Corp MPT 53 Dual Full Height Pedestrian Turnstile: two passage lanes, electromechanical solenoid locking bi-directional turnstile, 100% duty cycle, multifunction controller and mounting plates for card readers, etc.
- C. Cage and Column Construction:
  - 1. Heavy duty galvanized steel cage and column; IP 54 construction; 3 x 120 degree dual weld point U-shaped bars providing ultimate pedestrian safety; heel guard plate; mounting plates for card readers on both ends of passage lane(s)
  - 2. Heavy duty galvanized and powder coated RAL 7042 gray steel cage and column; IP 54 construction; 3 x 120 degree dual weld point U-shaped bars providing ultimate pedestrian safety; heel guard plate; mounting plates for card readers on both ends of passage lane(s)
  - 3. Heavy duty stainless steel cage and column; IP 54 construction; 3 x 120 degree dual weld point U-shaped bars providing ultimate pedestrian safety; heel guard plate; mounting plates for card readers on both ends of passage lane(s)
- D. Head Unit Construction:
  - 1. Heavy duty galvanized steel with powder coated RAL 7042 gray mild steel cover
- E. Drive Unit:
  - 1. 100% duty cycle solenoid locking mechanism providing bi-directional control of pedestrian passage in excess of 2 million cycles; 115VAC 60Hz
- F. Controller:
  - 1. MSC Multifunction Logic Controller, three digital inputs – one entry left, one entry right, one emergency, two relay outputs for counters – one left, one right, two relay outputs for displays – one left, one right, one error/alarm relay output, adjustable operation parameters via dip switches, adjustable opening duration via potentiometer.
- G. Additional Required Features:
  - 1. Bi-directional control standard – configurable via multifunction controller
  - 2. U-shaped bars featuring dual weld points for ultimate security and pedestrian safety
  - 3. Card readers/keypad mounting plates standard

4. IP 54 construction
5. Pulse storage – for multiple card swipes, etc
6. Easy to program controller for common lane configurations
7. Adjustable opening duration

H. Optional Equipment:

1. Mounting hardware (common)
2. Foundation ring consisting of galvanized steel including adjusting screws
3. Additional kit to change from unlocked with no power to locked with no powering either or both directions
4. Manual release kit to unlock turnstile whether or not power is supplied to unit
5. Turnstile canopy for additional weather protection – non powder coated with 4 gussets
6. MPG swing gate for ADA access or oversized access requirements.
7. Card access readers or keypads.

## 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 PREPARATION

- A. Clean surfaces thoroughly prior to installation.
- B. Prepare surfaces using the methods recommended by the manufacturer for achieving the best result for the substrate under the project conditions.

### 3.3 INSTALLATION

- A. Install in accordance with manufacturer's instructions including the following:
  1. Mount directly to concrete pad, firmly secured, plumb and level.
  2. Mount to mounting pedestal; provide base plate.
  3. Wire in accordance with National Electric Code.
  4. Enclose all splices in easily accessible junction boxes or on terminal boards.
  5. Tag and identify all cable runs in all junction boxes.
- B. Test system and adjust to assure components and accessories are properly connected and in working order.

### 3.4 PROTECTION

- A. Protect installed products until completion of project.
- B. Touch-up, repair or replace damaged products before Substantial Completion.

### 3.5 MAINTENANCE

- A. Maintain at three-month intervals during specified maintenance period, primarily checking locking mechanism, solenoid and limit switch operation.

END OF SECTION

