

## Architectural Specification

### Section 11 14 00 – Pedestrian Control Equipment (Gates/Turnstiles)

#### PART 1- GENERAL

##### 1.01 SECTION INCLUDES

- A. Manufacturer's descriptive literature for HT448 Full Height Turnstile including components and accessories. See product brochure.
- B. Shop drawings submitted upon request

##### 1.02 RELATED SECTIONS

- A. 10450 – Pedestrian Control Devices
- B. Section 08400 - Entrances and Storefronts

##### 1.03 Quality Assurance

- A. Manufacturer shall be a company specializing in the supply of security turnstiles with a minimum of 10 years experience

##### 1.04 SUBMITTALS

- A. Manufacturer's descriptive literature for equipment specified including components and accessories. See product brochure.
- B. Shop drawings submitted upon request.
- C. Manufacturer's instructions for assembly and installation.

##### 1.05 DELIVERY, STORAGE AND HANDLING

- A. Store products of this section in manufacturer's unopened packaging until installation.
- B. Store off ground, under cover, protected from weather and construction activities

##### 1.06 Project Site Conditions

- A. Install the HT448 on a level concrete pad

##### 1.07 WARRANTY

- A. Hayward Turnstiles warrants its products against defects in material and workmanship for a period of one (1) year from the date of invoicing. The warranty covers defects in materials and workmanship and does not cover freight, labor or incidental costs. Obtain full warranty terms from Hayward Turnstiles.

#### PART 2 PRODUCTS

##### 2.01 MANUFACTURER

- A. Acceptable Manufacturer:  
Hayward Turnstiles Inc.  
160-A Wampus Lane, Milford, CT USA 06460  
Phone: 203-647-9147 Fax: 203-200-7866 Email: sales@haywardts.com  
[www.haywardturnstiles.com](http://www.haywardturnstiles.com)

##### 2.02 PRODUCT

- A. **HT448 Full Height Security Turnstile:** no substitutions. Features of this turnstile shall include a self-centering mechanism to maintain rotor at the stop position with a removeable top cover for inspection and maintenance of internal mechanism.
- B. **Dimensions:** Height 91"  
Width 106"  
Depth 96-3/16"
- C. **Pedestrian Clearance:** 49-5/16"

##### 2.03 CONSTRUCTION

- A. **Mechanism:** Auto-indexing (self-centering) with adjustable hydraulic shock suppression. Hardened tool steel locking bars, cam, and roller assemblies. Permanently lubricated bearings. Choice of manual or electronic control in both directions. Easy integration to any number of access control systems. Choice on each electronic direction of locking or unlocking on power failure.
- B. **Top Channel:** Constructed of heavy duty material. All electrical and mechanical components are attached to the channel. The channel and operating mechanism are covered.

- C. **Rotor (rotating) Assembly:** Consists of a one piece center post fabricated from a steel tube with thirteen rows of 1-3/4" diameter 14 gauge stainless steel arms which are welded to the center rotor post. Each rotor section is set at a position 120 degrees apart from one another.
- D. **Stationary Barrier Assembly (straight, fixed arms):** Fabricated using a 14 gauge vertical post with thirteen horizontal 1-3/4" diameter 14 gauge stainless steel arms welded perpendicular to the post. The assembly consists of a barrier post and thirteen arms welded and equally spaced at an offset to the rotor assembly.
- E. **Yoke (curved) Assembly:** The yoke is a fully welded 2 piece assembly consisting of 10 vertical tubes 1-3/4" diameter, welded upper and lower horizontal stainless steel plates curved to comfortably follow the rotor movement allowing for comfortable patron access.
- F. **Bottom Bearing Assembly:** Pre-greased tapered roller bearing. The base attaches to the floor with a single anchor bolt through the center.

#### 2.04 EQUIPMENT

- A. **One-way mechanical turnstiles** utilize a ratchet assembly to direct traffic flow
- B. **Electric turnstiles** use a heavy-duty electro-mechanical ratchet and pawl operating mechanism to restrict traffic flow. All electrical controls are low voltage 24 VDC
- C. **Standard self-centering feature** - the turnstile shall self-center, automatically returning to the "home" position after rotation
- D. **Top and bottom bearings** provide free, easy rotation even in hostile environments

#### 2.05 FACTORY TESTING

- A. Product shall be tested at the factory prior to shipment
- B. Inspect product finishes and touch up prior to shipment

#### 2.06 FINISH

- A. **Galvanized Steel:** All exterior components are to be Galvanized Steel
- B. **Carbon Steel with Powder Coating:** All exterior components are to be Carbon Steel with Powder Coating
- C. **304 Stainless Steel:** All exterior components, are to be Stainless Steel

#### 2.07 Available Options: All full height turnstiles available clockwise, counterclockwise or bi-directional passage.

- A. **Electronic Operation:** This option includes a 24 VDC pull solenoid and programmable controller interface.
- B. **Battery Backup:** 12Ah battery Kit with 2x 12VDC batteries and 2-amp 24VDC charger
- C. **Card Reader Mounting Plate:** Allows for mounting of reader devices directly to turnstile frame
- D. **Out of Service Lock:** Manually places the turnstile out of service using a key lock
- E. **Home Position Switch:** Switch that provides an output that identifies when the turnstile is at rest in the home position
- F. **Light Array:** Red, green, and yellow indicator lights that go overtop the passageway and indicate to the user that they can enter
- G. **Yoke Guard:** 2 piece stainless steel yoke guard set that covers the passageway to prevent climbing over the rotor
- H. **Safety Sleeves:** Industrial grade PVC/Foam arm sleeves to protect patrons from injury and soften impact with steel arms for comfortable passage
- I. **Additional Options Available Upon Request**

### PART 3 EXECUTION

#### 3.01 SITE EXAMINATION

- A. **Inspection:** Installer must examine the installation location and advise the Contractor of any site conditions inconsistent with proper installation of the product. Turnstile must be installed on a level concrete pad
- B. **Installation:** Install turnstiles in accordance with manufacturer's instructions
- C. **Adjustment:** Installer shall adjust turnstiles for proper performance after installation

**Note: this specification includes recommended options. Hayward Turnstiles, Inc. reserves the right to change this specification at any time without notice.**