SP 622 **PORTABLE BARRIER**
(09/*11/17*)

A. Description

This item shall consist of furnishing, transporting, installing, maintaining, resetting and storing concrete portable barrier or steel portable barrier including end terminals, and all connecting hardware for maintaining traffic in accordance with these Specifications and as shown on the Plans. Concrete portable barrier or steel portable barrier and associated hardware will be furnished by the Contractor. The Contractor shall supply all tapered end sections for use in the locations shown in the Plans and Standard Drawings. All connecting hardware shall be in accordance with Ohio Department of Transportation (ODOT) Standard Construction Drawing (ODOT SCD) RM-4.2. All applicable provisions of Ohio Department of Transportation Construction and Material Specification (ODOT CMS) Item 622 and Special Provision (SP) 104 and SP 614 of these Special Provisions shall apply. Concrete barrier furnished by the Contractor shall be in accordance with ODOT SCD RM-4.2 or other shape approved by the Chief Engineer. All portable barriers shall meet the current National Cooperative Highway Research Program Report 350 (NCHRP-350) standards.

Portable barriers shall have barrier reflectors, object markers and/or glare screens attached per ODOT Standard Construction Drawing MT-101.70 with the following exceptions: delineation of the impact attenuator nose cone shall be reflectorized with yellow and black ASTM III or IV sheeting in 6" wide alternate stripes which slope downward towards the center line of the road at an angle of 45 degrees. If the impact attenuator is located where traffic can lawfully pass on either side of it then the yellow and black stripes shall be installed in a chevron pattern. Barrier reflectors shall be oriented to face oncoming traffic, spaced as shown on TCR-14 and shall be in place before the barrier is exposed to traffic. Each barrier reflector shall be installed per Item 626.04.

Where required in the plans, a glare screen shall be attached to the barrier. The glare screen shall be in accordance with Item Special - Glare Screen.

B. Materials

Portable Barrier Option 1: Concrete portable barrier in accordance with this section, ODOT CMS 622 Portable Concrete Barrier and ODOT SCD RM-4.2 32” Portable Concrete Barrier.

Portable Barrier Option 2: A steel portable barrier system comprised of nominally eight (8) gauge thick ASTM A36 pressed steel panels, galvanized prior to assembly. Barrier sections shall be fifty (50) feet long and thirty-two (32) inches in overall height. Base width shall be a minimum of 2.3 feet and a top width of 6.25 inches. The barrier shall have a mountable foot section and have rubber feet fastened to the sections at four (4) foot intervals. A lifting system shall be incorporated into the sections. Installation of the sections shall not impede drainage. Each section shall be anchored to the pavement at a minimum of two points. Steel portable barrier shall meet the requirements of NCHRP-350 Test Level 3 (TL3) and Test Level 4 (TL4).

Glare Screen: If specified, the glare screen shall be provided in accordance with the Special Provision “Item Special - Glare Screen”. If not separately itemized on the Plans, then all cost associated with the Item Special – Glare Screen shall be considered incidental to Item SP 622.

Barrier reflector shall be "Astro Optics Corporation Reflective Delineator series JD-1, Amber" or approved equal.

Adhesive for barrier reflector shall be "Signal Products Epoxy Adhesive" or approved equal. Apply adhesive according to the manufacturer’s recommendations.

C. Construction Requirements

Concrete portable barriers shall be installed and removed as per Ohio Turnpike Infrastructure Commission Standard Drawing (OTIC SCD) TCB-1 at the locations shown in the Plans and in accordance with the provisions of SP 104.

Steel portable barrier shall be installed in accordance with OTIC SCD TCB-1 and be installed in accordance with the design guidance and installation instructions supplied by the manufacturer which shall include detailed arrangements of standard and minimum deflection system, anchoring details and connection to end treatments. Upon removal of the steel portable barrier the contractor shall repair the pavement surface at the anchor locations.

Upon completion of the Contract, all portable barrier furnished by the Contractor shall be removed from Turnpike right-of-way.

Portable barrier sections, which have been damaged by traffic during the life of the Project, shall be replaced as directed by the Chief Engineer. Damaged sections, whether by traffic or during handling, shall be disposed of in accordance with SP 105.

Barrier reflector shall be cleaned on a monthly basis where possible or as directed by the Chief Engineer to provide maximum effectiveness of the reflectorization.

D. Method of Measurement and Payment

Concrete portable barrier or steel portable barrier shall be paid for as lump sum and include all barrier reflectors and replacement reflector during construction. The lump sum price bid shall also include the furnishing, delivery, installation, maintaining, cleaning reflectors, moving, transporting, storing, re-setting, as required, removal of the barrier from the Turnpike right of way, complete patching and repair of the pavement at the anchor points, and disposal of damaged barrier sections throughout the term of the Contract. Bridge mounted portable barrier shall also include providing and installing anchors, removal of the anchors, patching of the bridge deck, and weatherproofing the patch area per SP 536.

E. Basis of Payment

Payment shall be made at the unit price bid for:

Item	Unit	Description
SP 622	Lump Sum	Portable Barrier (with Glare Screen)
SP 622	Lump Sum	Portable Barrier (without Glare Screen)
SP 622	Lump Sum	Portable Barrier, Bridge Mounted

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