

- ITEM 606.0101 09 M - HIGH TENSION CABLE-BARRIER (SOCKETED POST)**
ITEM 606.0102 09 M - HIGH TENSION CABLE- BARRIER (DIRECT DRIVEN POST)
ITEM 606.0104 09 M - HIGH TENSION CABLE- BARRIER END TERMINAL

DESCRIPTION

This work shall consist of furnishing and installing a new NCHRP 350 Test Level 3 (TL3) compliant high-tension cable barrier systems (median and guide rail) and NCHRP 350 TL3 compliant end terminals.

MATERIALS

The barrier system and end terminal shall be obtained from one of the following manufacturers or approved equal, as approved by the Director, Office of Design.

Product	Manufacturer	Contact Information
Brifen Wire Rope Safety Fence and End Terminal	Brifen, USA, Inc.	P.O. Box 9422, Oklahoma City, OK 73143 (405-793-9500) www.brifen.com
Cass Cable Guiderail Safety System and End Terminal	Trinity Highway Safety Products Inc.	2525 N. Stemmons Freeway, Dallas, TX 75207 (800-527-6050) www.highwayguardrail.com
Gibraltar Cable Barrier System	Gibraltar	320 Southland Rd., Burnet, TX 78611 (800) 495-8957 http://www.gibraltartx.com/
NUCOR US High Tension Cable System and End Terminal	Nucor Steel Marion Inc.	Cheney Ave. Marion, Ohio 43301 (800) 333-4011 www.nsmarion.com
Safence 3RC 350 TL4	Safence, Incorporated	46-04 245 th St, Douglaston, NY 11362, (718) 229-0046 http://www.bluesystems.se/indexe.htm

All materials supplied and the systems installed shall be as tested in accordance with NCHRP requirements. Any deviation shall require prior approval by the Department.

- 1. Concrete**
Concrete shall meet the requirements of 606-2.06 of the Standard Specifications.
- 2. Galvanizing**
All galvanizing shall meet the requirements of 719-01 of the Standard Specifications.
- 3. Hardware**
Shall be galvanized.
- 4. Reflectorized panels**
Reflective sheeting shall conform to §730-05.05.

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5. Welding

All welding shall be performed in accordance with the requirements of the New York State Steel Construction Manual, except radiographic inspection of shop welds will not be required.

All other materials shall be as per manufacturer’s recommendations.

Basis of Acceptance

The high tension cable system and end terminals shall be accepted on the basis of the manufacturer’s certification that the product supplied meets these specifications.

CONSTRUCTION DETAILS

The requirements of §606-3.01 and §606-3.02 shall apply unless otherwise specified by the manufacturer or in the Contract Documents.

Post spacing shall be based on the chart below.

POST SPACING (based on 2.4 m design deflection)		
Manufacturer / type	Post Spacing (socketed)	Post Spacing (direct driven)
Brifen Wire Rope Safety Fence (3 rope system)	3.2 m (w/1.5 m “S” post)	3.2 m (w/1.5 m “S” post & soil plate)
Cass Cable Guiderail Safety System	4.9 m (w/1.2 m “I” post)	4.9 m (w/1.8 m “I” post)
Gibraltar Cable Barrier System	4.9 m (w/1.5 m “C” post)	4.9 m (w/1.9 m “C” post)
NUCOR US High-Tension Cable System	4.9 m (w/1.2 m “U” post)	3.7 m (w/1.7 m “U” post & soil plate)
Safence 3RC 350	3.2 (w/1.23 m “I” post)	4.0 m (w/1.23 m reinforced “C” post)

The alignment and location of the cable system shall be according to the plans or as directed by the Engineer.

In median barrier applications, if the lowest cable is not woven or placed through the center of the post, then it shall be placed on the downhill side of the post.

Concrete post foundations, when required, shall be constructed per §606-3.01E of the Standard Specifications.

Socketed posts shall be installed in accordance with the manufacturer's specifications. All socketed installations shall include a manufacturer supplied cap to cover the opening.

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Reflectorized panels, with a minimum area of 80 cm², shall be provided on every sixth post when located within 1.2 m from roadway. Reflective sheeting shall be white when installed on the right side of traffic and fluorescent yellow when installed on the left.

METHOD OF MEASUREMENT

Cable barriers will be measured as the number of meters of barrier satisfactorily installed in accordance with the Contract Documents and manufacturers specifications.

End terminals will be measured by the actual number of units installed in accordance with the Contract Documents and manufacturers specifications.

BASIS OF PAYMENT

The unit price bid shall include the cost of furnishing all labor, materials, and equipment necessary to satisfactorily complete the work.