(August 3, 2009)

High-Tension Cable Barrier System (4 Cable)

Furnish high-tension 4-cable barrier system, terminals, and transitions that meet the requirements of NCHRP Report 350 Test Level 3 or 4 that are designed for a minimum cable tension of 3,000-pounds at an ambient air temperature of 70 degrees F, and are documented as acceptable for use on the National Highway System by the Federal Highway Administration. The maximum post spacing allowed shall be 17.0-feet. All fittings and connecting hardware shall have a minimum breaking strength of 36,000-pounds. The maximum post spacing allowed shall limit vehicular dynamic deflection to the value shown in the plans. Approved high tension 4-cable barrier systems are shown on the Qualified Products List. Only 4-cable systems with a top cable height of not less than 35-inches and a bottom cable height of not more than 19-inches will be acceptable.

Furnish shop drawings and installation procedures to the Engineer a minimum of 10-days prior to the beginning of any installation work on the system. The drawings shall specify all components used in the entire cable barrier system as well as the post spacing required to achieve the required maximum vehicular deflections.

If a manufacturer's product which is not on the QPL is proposed, furnish shop drawings and installation procedures to the Engineer a minimum of 20-days prior to the beginning of any installation work on the system. The system will be accepted based on a Supplier's Certificate of Compliance. Provide a Supplier's Certificate of Compliance that is a contract specific letter from the supplier stating the system is NCHRP 350 Test Level 3 or 4 compliant. Also include a copy of the FHWA acceptance letter for this product. The system will not be allowed in the project if the FHWA has not approved this system.