

**KANSAS DEPARTMENT OF TRANSPORTATION  
SPECIAL PROVISION TO THE  
STANDARD SPECIFICATIONS, EDITION 2007**

Delete SECTION 811 and replace with the following:

**SECTION 811**

**IMPACT ATTENUATOR**

**811.1 DESCRIPTION**

**a. Permanent Impact Attenuator.** Install the impact attenuation devices at the locations designated in the Contract Documents.

**b. Impact Attenuator (Temporary).** When specified as part of project traffic control, install and relocate the temporary impact attenuation devices at the locations designated in the Contract Documents.

Stockpile the required replacement modules for each type of temporary system used on the project at the project site. Install replacement modules when damaged.

**BID ITEM**

Impact Attenuator (\*)  
\*Type (TL-2, TL-3 or Severe Duty)

**UNITS**

Each

Impact Attenuator (Temporary)  
Replacement Module

Each

Each

**811.2 MATERIALS**

**a. Permanent Impact Attenuator.** Provide the type and model of impact attenuator designated in the Contract Documents or an approved equivalent. The Bureau of Materials and Research will maintain a list of approved impact attenuators.

The Engineer will accept the impact attenuators based on the brand name and model, and visual inspection for condition at the point of usage.

**b. Impact Attenuator (Temporary).** Provide the type and model of impact attenuator designated in the Contract Documents or an approved equivalent. An inertial barrier system is not an approved equivalent. The Bureau of Materials and Research will maintain a list of approved impact attenuators.

The Engineer will accept the impact attenuators based on the brand name and model, and visual inspection for condition at the point of usage.

**c. Materials for Base.** Provide concrete and reinforcing steel that comply with **DIVISIONS 400** and **1600**, respectively.

**811.3 CONSTRUCTION REQUIREMENTS**

**a. Permanent Impact Attenuator.** Construct the reinforced concrete base according to the applicable portions of **DIVISION 700** and as shown in the Contract Documents.

Provide the Engineer with a printed copy of the manufacturer's recommendations for installation of the impact attenuator. Install the impact attenuation device according to the manufacturer's recommendations.

**b. Impact Attenuator (Temporary).** Construct the reinforced concrete base according to the applicable portions of **DIVISION 700** and as shown in the Contract Documents.

Provide the Engineer with a printed copy of the manufacturer's recommendations for installation of the impact attenuator. Install the impact attenuation device according to the manufacturer's recommendations.

When shown in the Contract Documents, relocate the temporary impact attenuator.

Install replacement modules of the temporary impact attenuator when damaged.

Unless otherwise noted in the Contract Documents, the temporary impact attenuator and replacement modules are the property of the Contractor upon completion of the project.

#### **811.4 MEASUREMENT AND PAYMENT**

**a. Permanent Impact Attenuator.** The Engineer will measure each impact attenuator.

Payment for the "Impact Attenuator (\*)" at the contract unit price is full compensation for the specified work.

**b. Impact Attenuator (Temporary).** When installed as part of project traffic control, the Engineer will measure each temporary impact attenuator. Each unit will be measured only once, even if the unit is relocated on the project.

The Engineer will measure each replacement module used on the project. The quantity of replacement modules stockpiled on the project site, but not used on the project, will not be measured for payment.

Payment for the "Impact Attenuator (Temporary)" and "Replacement Modules" at the contract unit price is full compensation for the specified work.

**Add the following SECTION to DIVISION 1700:**

#### **SECTION 1726**

#### **IMPACT ATTENUATORS AND REPLACEMENT MODULES**

##### **1726.1 DESCRIPTION**

This specification covers impact attenuators and replacement modules.

##### **1726.2 REQUIREMENTS**

Provide an impact attenuator and replacement modules as shown in the Contract Documents. Temporary impact attenuators may be previously used.

##### **1726.3 TEST METHODS**

None specified.

##### **1726.4 PREQUALIFICATION**

All impact attenuators must be prequalified as a unit. Manufacturers wishing to supply impact attenuators to KDOT projects must send a complete evaluation package including the FHWA letter of acceptance and all design and testing information to the KDOT Bureau of Design, State Road Office. The information will be reviewed and the manufacturer will be notified of the results. Those systems that are satisfactory for use will be placed on a prequalified list maintained by the Bureau of Materials and Research.

##### **1726.5 BASIS OF ACCEPTANCE**

Impact attenuators and repair modules will be accepted as a complete system or module on the basis of a prequalified brand name, a Type C certification and visual inspection of the completed installation.