

SECTION 18.04
TYPE C--IMPACT-ATTENUATION SYSTEM

18.04.01--Description: Work under this item shall consist of furnishing and installing a Connecticut Impact Attenuation System (CIAS) in conformance with the design, line, grades and dimensions shown on the plans, or as directed by the Engineer.

18.04.02--Materials: The CIAS shall consist of a reinforced portland cement concrete pad and backwall, crushable steel cylinders, steel rails and vinyl-coated nylon fabric cover. All materials shall conform to the requirements and specifications shown on the plans, or as directed by the Engineer. A materials certificate as defined in 1.06.07 shall be submitted for each system supplied. Notarized mill test reports shall be submitted for all steel items.

18.04.03--Construction Methods: General: The steel cylinders shall be placed and bolted as specified to produce the required array. The backwall, pad and cylinder array shall be as shown on the plans.

Concrete Pad and Backwall: Where the CIAS is to be located on an existing concrete surface, the concrete surface shall act as the base for both the backwall and rails. The steel reinforced concrete backwall shall be anchored into the existing concrete surface. When bituminous concrete exists in a proposed CIAS location, the existing bituminous concrete shall be removed and replaced by the specified concrete pad. The top of the finished pad shall be constructed level with the surrounding surface, as shown on the plans. When a CIAS is to be constructed in an area where the existing concrete surface has been overlaid with bituminous concrete, the bituminous concrete shall be removed and replaced with portland cement concrete as shown on the plans.

Steel Cylinders: Cylinders meeting the specifications set forth on the Plans, and approved by the Central Laboratory, shall be placed on the rails, positioned and fastened in accordance with the plans before the end of the workday. All fasteners shall be as shown on the plans. Substitution of bolt sizes to those shown on the plans is absolutely not permitted. The interior of all cylinders in the completed system shall be free of foreign matter.

Cover: The vinyl-coated nylon fabric cover shall be installed in a neat workmanlike manner as shown on the plans.

18.04.04--Method of Measurement: This item will be measured for payment by the number of each complete Type C Impact Attenuation Systems installed in conformance with the plans and the specifications and accepted by the Engineer.

18.04.05--Basis of Payment: This item shall be paid for at the Contract unit price for each "Type C Impact Attenuation System" complete in-place and shall include all costs of site preparation, materials, labor, tools and equipment incidental thereto.

Pay Item	Pay Unit
TYPE C Impact Attenuation System	EA.