ITEM 619.35  11 M - IMPACT ATTENUATOR FOR TEMPORARY MOVEABLE CONCRETE BARRIER

DESCRIPTION
Under this work the Contractor shall furnish, assemble, maintain and remove Non-redirective Energy Absorbing Terminal impact attenuators (NEAT) to shield the exposed ends of temporary moveable concrete barrier at the locations designated in the contract documents or as directed by the Engineer.

MATERIALS
The NEAT Systems shall be fabricated from materials conforming to the following specifications:

<table>
<thead>
<tr>
<th>Material</th>
<th>Specification</th>
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<tbody>
<tr>
<td>Steel Transition Panels</td>
<td>ASTM A-36 or AISI M-1-1020 (Domestic), ASTM A-569</td>
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<tr>
<td>Steel Backup &amp; Attachment Plates</td>
<td>ASTM A-36 or AISI M-1-1020 (Domestic), ASTM A-569</td>
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<tr>
<td>Steel Connecting Pins</td>
<td>ASTM A-36 or AISI M-1-1020 (Domestic), ASTM A-569</td>
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<tr>
<td>Aluminum Cartridge</td>
<td>5052-H32</td>
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The NEAT Systems for temporary moveable barrier shall conform to the details shown herein.

CONSTRUCTION DETAILS
Each NEAT System shall be placed at the locations indicated in the contract documents or where directed by the Engineer. The individual systems shall be attached as specified by the manufacturer, to the end of the temporary moveable concrete barrier. The transition panels and attachment plates will remain attached to the moveable concrete barrier during the transfer process and will be capable of running through the transfer machine without removal from the barrier.

The Engineer will inspect the NEAT Systems upon delivery to the project site. Any system having damage or defects in the cartridge or the attachment hardware that will affect the performance of the system, as determined by the Engineer, will be rejected and replaced with a suitable unit.

Any system which is damaged or rendered unsuitable by the Contractor’s operations, as determined by the Engineer, shall be removed from the project site and replaced with a suitable unit by the Contractor.

The NEAT System shall be fully tested to and meet the recommended structural adequacy, occupant risk, and vehicle trajectory criteria set forth in the National Cooperative Highway Research Program Report 350 for the Test Level 2 Non-Redirective Crash Cushion (NCHRP 350 TL-2 NRCC) when properly installed according to the manufacturer’s recommendations.

METHOD OF MEASUREMENT
This work will be measured as the number of NEAT units furnished, assembled, maintained, and removed in accordance with the requirements of this specification and the lawful directions of the Engineer.
BASIS OF PAYMENT
The unit price bid per unit shall include the cost of furnishing, assembling, maintaining, and removing NEAT units. The price bid shall also include the cost of removing and replacing units damaged or made unsuitable by the Contractor’s operations. The movement placement, setting and resetting of the NEAT units will be paid for under their respective items.

After assembly payment will be made for ninety (90%) percent of the quantity of NEAT Systems furnished and assembled in accordance with the contract requirements. The remaining ten (10%) percent will be paid upon removal.