

**STATE OF OKLAHOMA
DEPARTMENT OF TRANSPORTATION**

EQUIPMENT SPECIFICATION

39-13

4/2019

**TRAILER MOUNTED
ATTENUATOR**

GENERAL: This attenuator unit must be new and the Manufacturer's latest current production model as offered to the commercial trade with all standard accessories and equipment fully serviced and ready to operate. All variations from the model indicated must be described in the Vendor's Compliance section of this Specification.

FILL IN ALL SPACES SHOWING SPECIFIC INFORMATION, FAILURE TO COMPLY COULD RESULT IN BID REJECTION.

The intent of this unit is to:

- 1) Reduce the severity of impact for occupants of errant vehicles that collide with the rear of a shadow or barrier vehicle.**
- 2) Reduce crash severity for occupants of shadow vehicles.**
- 3) Minimize or prevent damage to the shadow or barrier vehicle.**
- 4) Reduce the time required to clear the accident scene and restore traffic flow.**

EXAMPLE MODELS: Vorteq TL-3

VENDOR'S PROPOSED TRAILER: MAKE: _____ MODEL: _____

<u>MINIMUM REQUIREMENTS</u>	<u>VENDOR'S PROPOSED</u>
<u>MAJOR COMPONENTS</u>	
1. Frame assembly	
2. Energy absorbing tubes	
3. Axle assembly	
4. Fender, wheel and tire assembly	
5. Impact Head	
<u>TRAILER DIMENSIONS:</u>	
Maximum - 96"W x 36"H x 23' 6"L	
<u>GENERAL ASSEMBLY:</u>	
Two (2) energy absorbing tubes shall be attached to the frame assembly with a special splice connection.	

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The frame and the two (2) energy absorbing tubes will serve as the primary longitudinal frame elements as well as the primary energy dissipation system.

The axle assembly shall be bolted on the energy absorbing tube and shall include the axle, fenders and wheels and tires.

A lunette ring shall be attached to the end of the frame assembly for connection to the tow vehicle equipped with a 20 ton pintle hook.

NO MODIFICATION OF SUPPORT VEHICLE SHALL BE REQUIRED FOR OPERATION

MUST BE TESTED AND CERTIFIED TO NCHRP 350 OR MASH 2016 CRITERIA

LIGHTS AND VISIBILITY:

Integrated light bar shall be bolted to the top of the impact head

Side lights and markers

Chevron panels on the face of the impact head utilizing highly reflective sheeting in yellow/black stripes

LIGHTING ASSEMBLY MUST MEET OR EXCEED THE LIGHTING REQUIREMENTS SET FORTH UNDER FMVSS No. 108

MINIMUM REQUIREMENTS

VENDOR'S PROPOSED

ARROW BOARD:

Dimensions: 48" x 96"

Must be Solar Powered

Shall contain 15 LED lights

Must have battery bank

Flashing Mode:

1. Right Arrow

2. Left Arrow

3. Double Arrow

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4. Caution Bar

5. Four Corner

Self-contained power to raise and lower unit

HARDWARE:

To include all mounting hardware for installation on 33,000
Dump Truck

CORROSION PROTECTION:

All components of the energy dissipation system, including the
impact head, trailer frame assembly, all exposed bolts and
attachment hardware shall be hot-dip galvanized to prevent
corrosion.

PAINT:

All exposed Metal shall be primed and painted with a protective Metal Primer; then painted
Oklahoma Department of Transportation Yellow to comply with Federal Standard #595,
Chrome Yellow Enamel #13432, DuPont #93-75306, School Bus Yellow or equal in color,
shade and tone.

TRAINING:

Successful Bidder shall provide technical assistance for installation, maintenance and
operation at the Bidders expense.

SERVICE AND PARTS:

- a) Bidder shall furnish upon request, a list of established manufacturer's authorized
locations where an adequate stock of current parts and service are available.
- b) Consideration in awarding bids shall be given to parts and service availability.

SERVICE MANUALS & PARTS BOOKS:

Successful bidder shall furnish one (1) Operators Instruction Manual for each attenuator. In
addition, one (1) Parts Book and one (1) Illustrated Repair Manual shall be furnished to each
Division purchasing one or more attenuators.

SPECIFICATIONS:

Each bidder shall submit complete manufacturer's specification in duplicate and shall submit
all other data to show that his proposal meets these specifications.

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**THE STATE OF OKLAHOMA RESERVES THE RIGHT TO WAIVE MINOR
TECHNICALITIES UNDER THESE SPECIFICATIONS.**

COMPLIANCE:

Bidder shall furnish a statement in writing on the Bid, in the Vendor's Statement below, or by an attached letter stating the Equipment proposed strictly meets these Specifications. If not, he shall list each variation therefrom.

_VENDOR'S STATEMENT (EQUIPMENT PROPOSED COMPLIES): YES: _____ NO: _____

DEALER: _____ **DATE:** _____

SIGNATURE: _____ **PHONE:** _____

ADDRESS: _____
