**SPECIFICATIONS**

1. These contracts are established to furnish Truck and/or Trailer Mounted Impact Attenuators and Repair Parts to the Kansas Department of Transportation (KDOT).
2. **Contract Period:** January 1, 2017 through December 31, 2021 unless prematurely terminated as provided for below.
3. **Termination:** Either party may terminate the contract, without cause, on the anniversary date, December 31, with sixty (60) Days written prior notice to the Procurement Officer
4. In addition to pricing for attenuators, pricing for repair and replacement parts are provided. Pricing is firm pricing for the life of the contract.
5. Attenuators shall reasonably comply with the attached specification MS 225.1 dated 10/21/2011 except the requirement for parts to be available in Kansas or Kansas City is waived.
6. Attenuators may be shipped unassembled but must include all fasteners required for assembly and complete assembly instructions. **Pricing is also provided for units to be shipped assembled and operational.**
7. **Shipping and F.O.B. Point:** Prices are F.O.B. DESTINATION TO ANY LOCATION IN KANSAS, PREPAID AND ALLOWED (included in the contract price), which means delivered to a state agency's receiving dock or other designated point without additional charge. Shipments shall be made in order to arrive at the destination at a satisfactory time for unloading during regular working hours between 8:00 a.m. and 4:30 p.m., Monday through Friday, except holidays.
8. **Industry Standards:** If not otherwise provided, materials or work called for in this contract shall be furnished and performed in accordance with best established practice and standards recognized by the contracted industry and comply with all codes and regulations which shall apply.
9. **Indefinite Quantity Contract:** This is an open-ended contract between a vendor and the State to furnish an undetermined quantity of a good or service in a given period of time.
10. **Prices:** Prices shall remain firm for the entire contract period. Prices shall be net delivered, including all trade, quantity and cash discounts. Any price reductions available during the contract period shall be offered to the State of Kansas. Failure to provide available price reductions may result in termination of the contract.
11. **Warranty:** Standard Manufacturer's Warranty, for all equipment bid, is to be considered a part of these conditions. All defective items shall be replaced free of charge.

Bidders must provide a ONE (1) year PARTS AND LABOR warranty on all devices and/or labor provided as part of a award that results from this Solicitation.

The successful bidder will be the sole point of contact on any problems with the equipment or systems during the warranty period.

The contractor shall be responsible for all work put in under these specifications. The contractor shall make good, repair and replace, at the contractor's own expense, as may be necessary, any defective work, material acceptance, if in the opinion of agency and/or Division of Purchases said defect is due to imperfection in material, design, or workmanship for the warranty period specified.

Bidders shall indicate the type and extent of the warranty for all equipment, hardware, software, and services proposed.

1. **Certification of Materials Submitted:** The response to this IFB, together with the specifications set forth herein and all data submitted by the bidder to support the response including brochures, manuals, and descriptions covering the operating characteristics of the item(s) proposed, shall become a part of any contract between the successful bidder and the State of Kansas. Any written representation covering such matters as reliability of the item(s), the experience of other users, or warranties of performance shall be incorporated by reference into the contract.

**STATE OF KANSAS**

**KANSAS DEPARTMENT OF TRANSPORTATION**

**SPECIFICATIONS**

**FOR**

**TRUCK MOUNTED ATTENUATOR**

The following specifications and dimensions shall apply to purchases of TRUCK MOUNTED ATTENUATOR for the Kansas Department of Transportation. The State reserves the right to waive minor technicalities under this specification. Federal and State laws supersede any conflicting part of this specification.

The unit shall be a current model, new and unused, under standard production by the manufacturer, and of which parts are stocked at one or more locations in Kansas or Greater Kansas City. The requirement for parts to be stocked at locations in Kansas or Kansas City may be waived if the bidder provides an alternative parts availability plan acceptable to the Agency. All parts utilized on the unit shall be new and unused.

The bidder agrees, if his proposal is accepted, to guarantee the design, material and workmanship of the unit bid according to the standard factory warranty, or for one year, whichever is greater. A copy of the warranty shall accompany the bid. Warranty coverage shall include costs of transporting the unit to and from dealer's shop, when outside a 150 mile radius of the delivery point.

Complete specifications and literature on the unit bid shall accompany the bid. Any exceptions to these specifications shall be indicated on the bid or on a separate attachment to the bid, labeled as such.

Any “equal” or “equivalent” items for brand specified components shall be listed with the bid package. Complete description and literature on the “equal”/“equivalent” components shall be supplied for consideration by the KDOT. The burden of proof regarding “equal”/“equivalent” items shall be upon the vendor.

**TECHNICAL SERVICE**: The services of a competent technician, thoroughly trained in the use, operation and servicing of the unit, shall be furnished for a minimum period of one working day for each delivery point. The technician shall instruct the KDOT personnel in the proper use, safety, operation and preventive maintenance of the unit and to test the unit for satisfactory performance. This instruction shall be performed on a date to be agreed upon by the District Shop Superintendent.

**PRINTED MANUALS**: One shop manual, parts manual, wiring diagram, and operator manual shall be supplied with each unit, with an additional set of manuals/wiring diagram supplied to each delivery point. The manuals shall fully and clearly cover all components of the unit, including motors, drive systems, and attachments.

**ITEM: TRUCK MOUNTED ATTENUATOR**

**SHOW MFG. & MODEL OFFERED \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**EXCEPTIONS TO**

**MFG. CODE** **SPECIFICATION** **SPECIFICATIONS**

GENERAL:

\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_ This specification describes a truck-mounted attenuator (TMA) system for 'mobile work zone' shadow vehicles and 'stationary work zone' barrier vehicles.

\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_ The system shall provide impact protection during collisions into the rear of a truck in work zone operations. The system design shall dissipate the collision energy of standard passenger vehicles traveling at speeds up to 100 km/h (62mph).

\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_ The TMA shall have successfully passed, both the required and optional tests that fall under the guidelines of NCHRP Report 350 Test Level 3 for truck mounted attenuators.

\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_ Certified test results and associated test reports and films produced in compliance with NCHRP Report 350 procedures shall be submitted with bid.

\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_ TMA shall be capable of being used with any vehicle over 10,000 lbs with no limitation of maximum vehicle weight.

\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_ The TMA frame shall be capable of collapsing when impacted by an errant vehicle. No portion of the TMA shall protrude forward under the truck damaging its vital elements during an impact.

\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_ The TMA shall not protrude over, into or under the truck. Further, the TMA shall not impede the line-of site of an Arrow board or Message board mounted on the truck, installed per MUTCD (Manual on Uniform Traffic Control Devices) guidelines at a height of (7-0") to the bottom of board.

\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_ TMA’s that are of a hydraulic fold up design shall include a mechanical lock to prevent accidental lowering of unit if hydraulic system failure occurs.

\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_ Units with hydraulic system shall run off of 12 volt system provided by the vehicle unit is installed on.

PAINT:

\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_ All exposed steel surfaces on the TMA shall be painted. Paint shall be applied after the proper preparation of all steel and aluminum components. The metal preparation shall include cleaning, degreasing the metal surface. Primer shall be used if not powder coated.

STRIPING:

\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_ The surface of the Impact Frame facing oncoming traffic, shall display a black on yellow inverted “V” chevron pattern with (4 in.) wide color bands.

**EXCEPTIONS TO**

**MFG.CODE SPECIFICATION SPECIFICATION**

LIGHTS & WIRING:

\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_ TMA shall have a trailer lighting assembly per FMVSS No. 108 “Lamps, Reflective Devices, and Associated Equipment.” All components shall be appropriate for their intended purpose under any adoptions issued by the NHTSA, SAE and FMVSS.

\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_ All light wiring shall be Hard Service Cord with an oil resistant outer covering and 45 mils nominal thickness of thermoplastic or rubber insulation.

\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_ A seven-way plug connection, a Cole-Hersee #1255 or equivalent, at the front of the trailer shall be furnished for connecting lights to towing unit.

HITCH:

\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_ TMA shall be designed to make attachment or detachment from the truck simple and fast (5minutes). The major components shall stay together when detached from the support vehicle.

\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_ TMA’s that are hung from the rear of vehicle are acceptable as long as the unit can be either installed or removed in 5 minutes.

\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_ Tailgate hung units shall be capable of attaching to standard 90 degree dump body, and asphalt body approximately 70 degrees.

\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_ On units hung on rear of vehicle jacks with swivel casters shall be provided for the four corners of the Attenuator, plus two additional jacks for the hitch assembly if applicable.

\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_ On trailer style units, the TMA shall allow for hitching to a 20 ton pintle hook at 31” from ground, while maintaining proper operation height at rear of unit. A tongue jack shall be provided.

\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_ Trailer type units shall be capable of being safely towed at 70 mph.

PARTS PRICING:

\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_ A complete list of repair parts and pricing shall be provided.

ASSEMBLED UNIT PRICING:

\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_ Provide pricing for unit to be delivered fully assembled and operational.

ARROW BOARD OPTION:

\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_ Provide pricing for an optional 25 light arrow board with mounting brackets.

**Contractors and Pricing**

**Contract #42582**

**Contractor: John Thomas, Inc.**

1560 Lovett Dr.

Dixon, IL 61021-9623

Vendor ID: 0000026314

FEIN: 34-1857196

Contact Person: Anne Brousil

E-Mail: [abrousil@jtitraffic.com](mailto:abrousil@jtitraffic.com)

Toll Free Telephone: 888-447-7263

Local Telephone: 815-288-2343

Fax: 815-288-3432

**Pricing**

SHIPMENT UNIT

ITEM QUANTITY PRICE Model

Truck Mounted Attenuators 1 or 2 units $24,144.00 SS180

3 units $23,402.00 TMA9182B

Truck Mounted Attenuators 1 or 2 units $20,403.00 SS90

3 units $19,660.00 TMA8292

Trailer Mounted Attenuators 1 or 2 units $22,560.00 SST TMA9000

3 units $21,780.00

Trailer Mounted Attenuators 1 or 2 units $11,747.00 Vorteq

**All units include Arrowboard Mounting Assembly**

Additional cost if attenuators are shipped fully assembled and operational:

SS180 TMA9182B Truck Mounted add $2,243.00 per unit

SS180 TMA9182B Truck Mounted add $1,243.00 per unit, with 3 units in 1 shipment

SS90 TMA 8292B Truck Mounted add $2,242.00 per unit

SS90 TMA 8292B Truck Mounted add $1,234.00 per unit, with 3 units in 1 shipment

SST TMA 9000 Trailer mounted add $2,352.00 per unit

SST TMA 9000 Trailer mounted add $1,294.00 per unit, with 3 units in 1 shipment

Vorteq Trailer mounted add $4,636.00 per unit

Vorteq Trailer mounted add $2,797.00 per unit with 2 units in 1 shipment

Additional cost if provided with a 25 light arrow board with mounting brackets: Add $5,600 per unit

Repair/Replacement parts pricing will be based on firm/fixed pricing for the length of the contract period. Click on icon below for price list



MFG and Models:

Truck Mounted Safe-Stop 180 TMA Mfg by Trinity Highway Products/Energy Absorptions Systems

Safe-Stop SS90 HD Mfg by Trinity Highway Products/Energy Absorptions Systems

Trailer Mounted Vorteq Trailer TMA Mfg by Trinity Highway Products/Energy Absorptions Systems

Safe-Stop SST TMA Mfg by Trinity Highway Products/Energy Absorptions Systems

**Contract #42584**

**Contractor: Gregory Industries, Inc.**

4100 13th Street, SW

Canton, OH 44710-1464

Vendor ID: 000062+562

FEIN: 34-0818723

Contact Person: Eric Smith

E-Mail: [esmith@gregorycorp.com](mailto:esmith@gregorycorp.com)

Toll Free Telephone: 866-994-4929

Local Telephone: 330-477-4800 ext. 188

Fax: 330-477-0626

**Pricing**

ITEM UNIT PRICE

Trailer Mounted Attenuator $12,760.00

No additional cost if attenuators are shipped fully assembled and operational:

Additional cost if provided with a 25 light arrow board with mounting brackets: Add $3,960.00 per unit

Repair/Replacement parts pricing will be based on firm/fixed pricing for the length of the contract period. Click on icon below for price list



MFG and Models offered: TTMA-100

**Contract #42581**

**Contractor: Traffix Devices, Inc.**

160 Avenida La Pata

San Clemente, CA 92673-6304

Vendor ID: 0000025033

FEIN: 33-0217824

Contact Person: Denise Sheppard

E-Mail: dsheppard@traffixdevices.com

Local Telephone: 949-361-5663

Fax: 949-361-9205

**Pricing**

ITEM UNIT PRICE

Truck Mounted Attenuator (TMA) $15,687.77

Trailer Mounted Attenuator (TA) $11,978.79

Additional cost if attenuators are shipped fully assembled and operational:

Truck mounted add $1,000 per unit

Trailer mounted add $1,000 per unit

Additional cost if provided with a 25 light arrow board with mounting brackets:

TMA with vertical hydraulic lift Add $5,387.81 per unit

TA with manual uprights Add $4,975.00 per unit

Repair/Replacement parts pricing will be based on firm/fixed pricing for the length of the contract period. Click on icon below for price list



MFG and Models:

Truck Mounted Traffix Devices, Inc. Scorpion 10,000 TL3-12FBS

Trailer Mounted Traffix Devices, Inc. Scorpion 10002-TL3-12TA

Arrowboards Trafcon Industries, Inc. 8500 Series 25 Light LED Arrowboards