INDIANA DEPARTMENT OF TRANSPORTATION

INTER-DEPARTMENT COMMUNICATION Standards Section – Room N642 Writer's Direct Line 232-6775



June 13, 2005

DESIGN MEMORANDUM No. 05-17 TECHNICAL ADVISORY

TO:All Design, Operations, District Personnel, and ConsultantsFROM:/s/ Dannie L. Smith
for Anthony L. Uremovich
Design Policy Engineer
Contracts and Construction DivisionSUBJECT:Impact Attenuator Spare Parts PackagesEFFECTIVE:January 18, 2006 Letting

If impact attenuators are required, the designer should contact the appropriate district operations engineer regarding the number of each type and stage of spare parts packages desired. The district operations engineer will provide the number of each required, along with the delivery location. Only one delivery address will be allowed per contract. Recurring Special Provision 601-R-497, Spare Parts Package for Impact Attenuators, should be modified to incorporate this information and included in the contract documents. Copies of the revised 601-R-497 and the spare parts lists are attached for your information.

alu:dls

Attachments

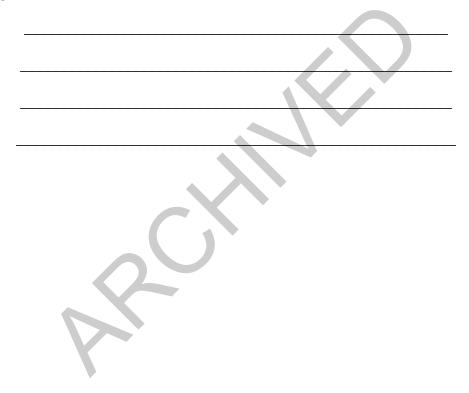
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The Standard Specifications are revised as follows:

SECTION 601, BEGIN LINE 188, DELETE AND INSERT AS FOLLOWS:

If a spare parts package is required for the unit being installed, such package shall consist of those parts which are shown on the list provided by the manufacturer. The spare parts shall correspond to those shown on the list for the unit to be placed. The package shall be delivered to the location directed and will become the property of the Department.

______ stage 1 spare parts package(s) and ______ stage 2 spare parts package(s) shall be supplied for each type of impact attenuator being installed. The spare parts package shall consist of those parts which are shown on the replacement parts list shown in the Contract Information Book. The spare parts package(s) shall be delivered to the following location.



Spare Parts Packages for INDOT Approved Impact Attenuators May, 2005

			Sta	ge 1 S	pare Parts Package	Stag	e 2 Sp	are Parts Package
Unit	Туре	Manufacturer	Option	Qty	Item	Option	Qty	Item
QUADGUARD	Impact Attenuator Energy Absorption Systems, Inc. Spare parts packages are to include all associated hardware with the specified items. A Stage 1 Spare Parts Package includes parts to repair a minor hit. A Stage 2 Spare Parts Package includes parts to repair a 100% design hit.		QUADGUARD TL 3 (ED, R1, R2, SD, W1)	2 1* 2 1 4	Fender Panel Diaphragm* Mushroom Washer Assembly Nose Assembly Energy Absortion Cartridge Type 1	QUADGUARD TL 3 (ED, R1, R2, SD, W1)	2 1* 4 1 4 3	Fender Panel Diaphragm* Mushroom Washer Assembly Nose Assembly Energy Absortion Cartridge Type 1 Energy Absortion Cartridge Type 2
	* For W2 and W3 units, su diaphragms - for bays 1 a	-		2 1* 2 1 3	Fender Panel Diaphragm* Mushroom Washer Assembly Nose Assembly Energy Absortion Cartridge Type 1	QUADGUARD TL 2 (ED, R1, R2, SD, W1)	2 1* 1 3 1	Fender Panel Diaphragm* Mushroom Washer Assembly Nose Assembly Energy Absortion Cartridge Type 1 Energy Absortion Cartridge Type 2
				2 1 2 1 2	Fender Panel Diaphragm Mushroom Washer Assembly Nose Assembly Energy Absortion Cartridge Type 1	QUADGUARD (LS, W1)	2 1 2 1 2 1	Fender Panel Diaphragm Mushroom Washer Assembly Nose Assembly Energy Absortion Cartridge Type 1 Energy Absortion Cartridge Type 2
TAU II	Impact Attenuator	Barrier Systems, Inc.				1		
Note:	Spare parts packages are hardware with the specifi A Stage 1 Spare Parts Par repair a minor hit. A Stage 2 Spare Parts Par repair a 100% design hit. * For W2 and W3 units: 1. Substitute 2 wide diaphra	ckage includes parts to ckage includes parts to	TAU II TL 3 (ED, R1, R2, SD, W1)	2 1* 2 3 1	Slider Panel Mid Support Diaphragm* Slider Bolt Assembly Energy Absortion Cartridge Type A Energy Absortion Cartridge Type B	TAU II TL 3 (ED, R1, R2, SD, W1)	2 1* 4 2 3 5	Slider Panel Mid Support Diaphragm* Slider Bolt Assembly Pipe Panel Mount Energy Absortion Cartridge Type A Energy Absortion Cartridge Type B
	 Include all Type A Cartrid Include all Type A and B 		TAU II TL 2 (ED, R1, R2, SD, W1)	2 1* 2 1 1	Slider Panel Mid Support Diaphragm* Slider Bolt Assembly Energy Absortion Cartridge Type A Energy Absorption Cartridge Type B	TAU II TL 2 (ED, R1, R2, SD, W1)	2 1* 4 2 1 3	Cartridge Type B Slider Panel Mid Support Diaphragm* Slider Bolt Assembly Pipe Panel Mount Energy Absortion Cartridge Type A Energy Absortion Cartridge Type B

No Spare Parts Package is required for Impact Attenuators Type CR