

**INDIANA DEPARTMENT OF TRANSPORTATION**



INTER-DEPARTMENT COMMUNICATION

*Standards Section – Room N642*



*Writer's Direct Line  
232-6775*

June 2, 2005

**DESIGN MEMORANDUM No. 05-16  
TECHNICAL ADVISORY**

**TO: All Design, Operations, District Personnel, and Consultants**

**FROM: /s/ Dannie L. Smith  
for Anthony L. Uremovich  
Design Policy Engineer  
Contracts and Construction Division**

**SUBJECT: Guardrail End Treatment Spare Parts Packages**

**EFFECTIVE: January 18, 2006 Letting**

If guardrail end treatments 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-237, Spare Parts Package for Guardrail End Treatment, should be modified to incorporate this information and included in the contract documents. Copies of the revised 601-R-237 and the spare parts lists are attached for your information.

The following pay items have been established for the spare parts packages.

601-08435 Guardrail End Treatment, Type MS, Spare Parts Package, Stage 1 .....EACH  
601-08436 Guardrail End Treatment, Type MS, Spare Parts Package, Stage 2 .....EACH  
601-08433 Guardrail End Treatment, Type OS, Spare Parts Package, Stage 1 .....EACH  
601-08434 Guardrail End Treatment, Type OS, Spare Parts Package, Stage 2 .....EACH

alu:dls

Attachments

SPARE PARTS PACKAGE FOR GUARDRAIL END TREATMENT

The Standard Specifications are revised as follows:

SECTION 601, AFTER LINE 123, INSERT AS FOLLOWS:

*\_\_\_\_\_ stage 1 spare parts package(s) and \_\_\_\_\_ stage 2 spare parts package(s) shall be supplied for each type of guardrail end treatment installed. The spare parts package(s) shall be in accordance with the replacement parts list shown in the Contract Information Book.*

*The spare parts package(s) shall be delivered to the following address.*

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SECTION 601, AFTER LINE 157, INSERT AS FOLLOWS:

*Guardrail end treatment spare parts package will be measured per each for the type of guardrail end treatment for which it is specified and per the stage specified.*

SECTION 601, AFTER LINE 167, INSERT AS FOLLOWS:

*Guardrail end treatment spare parts package will be paid for at the contract unit price per each for the type of guardrail end treatment for which it is specified and per the stage specified.*

SECTION 601, AFTER LINE 183, INSERT AS FOLLOWS:

<i>Guardrail End Treatment, _____,</i>	<i>Spare Parts Package, _____</i>	<i>..... EACH</i>
<i>type</i>	<i>stage</i>	



**Spare Parts Packages**  
**for INDOT Approved Guardrail End Treatments OS**  
 May, 2005

Unit	Type	Manufacturer	Stage 1 Spare Parts Package			Stage 2 Spare Parts Package		
			Option	Qty	Item	Option	Qty	Item
ET Plus	Guardrail End Treatment, OS	Trinity Industries, Inc.	All Options	1	1x25' 12 gauge deep beam guardrail (1st rail section)	All Options	1	1x25' 12 gauge deep beam guardrail (1st rail section)
SKT 350	Guardrail End Treatment, OS	Road Systems, Inc.		1	Strut Assembly		1	Strut Assembly
				1	Front Anchor Cable		1	Front Anchor Cable
				1	Cable Anchor		1	Cable Anchor
			Wood Post Option in Foundation Tube	4	Wood Post	Wood Post Option in Foundation Tube	8	Wood Post
				2	Blockout		6	Blockout
			Steel Hinged Post Option	1	Post #1 Top	Steel Hinged Post Option	1	Post #1 Top
				1	Post #2 Top		1	Post #2 Top
				2	Post #3-#4 Top		2	Post #3-#8 Top
				2	Blockout		2	Blockout
			Steel Post Option in Foundation Tube	4	Post	Steel Post Option in Foundation Tube	8	Post
				2	Blockout		6	Blockout

**Note:** 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.

**Spare Parts Packages  
for INDOT Approved Guardrail End Treatments MS**

May, 2005

			Stage 1 Spare Parts Package	Stage 2 Spare Parts Package
CAT 350	Guardrail End Treatment, MS	Trinity Industries, Inc.	2 12 gauge slotted guardrail section 1 Nose plate 2 Side plates (nose) 1 Restraint rod 1 Spacer channel 1 Strut assembly 1 Front anchor cable 1 Plate sleeve (post #1) 1 Wood post #1 2 Wood post #2-#3 2 Blockout post #1 4 Blockout post #2-#3	2 12 gauge slotted guardrail section 2 10 gauge slotted guardrail section 1 Nose plate 2 Side plates (nose) 2 Knockout tube sleeve 2 Restraint rod 1 Spacer channel 1 Strut assembly 1 Front anchor cable 2 Post plate (post #4) 1 Plate sleeve (post #1) 1 Wood post #1 5 Wood post #2-#6
<p><b>Notes:</b> 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.</p>				

**Spare Parts Packages  
for INDOT Approved Guardrail End Treatments MS Continued**

May, 2005

			<b>Stage 1 Spare Parts Package</b>	<b>Stage 2 Spare Parts Package</b>
FLEAT MT	Guardrail End Treatment, MS	Road Systems, Inc.	1 W-Beam guardrail end section, 12 ga 12'-6" 1 W-Beam guardrail, 12 ga 12'-6" (pre bent) 1 Bearing Plate 1 BCT Cable Anchor Assembly 1 Ground Strut 3 Wood Post (Posts #1-#3) 1 Blockout (Post #3) 1 Post Breaker 1 Pipe Sleeve	2 W-Beam guardrail end section, 12 ga 12'-6" 1 W-Beam guardrail, 12 ga 12'-6" (pre bent) 1 W-Beam guardrail, 12 ga 12'-6" 1 W-Beam guardrail, 12 ga 6'-3" 2 Bearing Plate 2 BCT Cable Anchor Assembly 1 Ground Strut 7 Wood Post (Posts #1-#7) 9 Blockout (Post #3-#7) 1 Post Breaker 2 Pipe Sleeve 1 Deflector Box 1 3/8" Wire 20'-0"
<b>Notes:</b> 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.				