



U.S. Department  
of Transportation  
**Federal Highway  
Administration**

1200 New Jersey Ave., SE  
Washington, D.C. 20590

March 16, 2016

In Reply Refer To:  
HSST-1/WZ-56A

Ms. Beth Novak  
Eastern Metal of Elmira, Inc.  
1430 Sullivan Street  
Elmira, NY 14901

Dear Ms. Novak:

This letter is in response to your November 24, 2014 request for the Federal Highway Administration (FHWA) to review a roadside safety device, hardware, or system for eligibility for reimbursement under the Federal-aid highway program. This FHWA letter of eligibility is assigned FHWA control number WZ-56A and is valid until a subsequent letter is issued by FHWA that expressly references this device.

### **Decision**

The following devices are eligible, with details provided in the form which is attached as an integral part of this letter:

- Eastern Metal Sign Stand C-601

### **Scope of this Letter**

To be found eligible for Federal-aid funding, modified roadside safety devices should meet the crash test and evaluation criteria contained in the National Cooperative Highway Research Program (NCHRP) Report 350. However, the FHWA, the Department of Transportation, and the United States Government do not regulate the manufacture of roadside safety devices. Eligibility for reimbursement under the Federal-aid highway program does not establish approval, certification or endorsement of the device for any particular purpose or use.

This letter is not a determination by the FHWA, the Department of Transportation, or the United States Government that a vehicle crash involving the device will result in any particular outcome, nor is it a guarantee of the in-service performance of this device. Proper manufacturing, installation, and maintenance are required in order for this device to function as tested.

This finding of eligibility is limited to the crashworthiness of the system and does not cover other structural features, nor conformity with the Manual on Uniform Traffic Control Devices.

### **Eligibility for Reimbursement**

FHWA previously issued an eligibility letter for the roadside safety system described in your pending request. Your pending request now identifies a modification to that roadside safety system.

The original roadside safety device information is provided here:

Name of system: Eastern Metal Sign Stand C-601  
Type of system: Work Zone Sign Stand  
Date of original request: July 24, 2000  
Date of original FHWA eligibility letter: October 12, 2000  
FHWA Control number: WZ-56

The pending modification(s) consists of the following changes:

1. Name change from C-842 to C-601

FHWA concurs with the changes as stated within the attached form.

### **Full Description of the Eligible Device**

The device and supporting documentation, including reports of the crash tests or other testing done, videos of any crash testing, and/or drawings of the device, are described in the attached form.

### **Notice**

If a manufacturer makes any modification to any of their roadside safety hardware that has an existing eligibility letter from FHWA, the manufacturer must notify FHWA of such modification with a request for continued eligibility for reimbursement. The notice of all modifications to a device must be accompanied by:

- o Significant modifications – For these modifications, crash test results must be submitted with accompanying documentation and videos.
- o Non-signification modifications – For these modifications, a statement from the crash test laboratory on the potential effect of the modification on the ability of the device to meet the relevant crash test criteria.

FHWA's determination of continued eligibility for the modified hardware will be based on whether the modified hardware will continue to meet the relevant crash test criteria.

You are expected to supply potential users with sufficient information on design, installation and maintenance requirements to ensure proper performance.

You are expected to certify to potential users that the hardware furnished has the same chemistry, mechanical properties, and geometry as that submitted for review, and that it will meet the test and evaluation criteria of the NCHRP Report 350.

Issuance of this letter does not convey property rights of any sort or any exclusive privilege. This letter is based on the premise that information and reports submitted by you are accurate and correct. We reserve the right to modify or revoke this letter if: (1) there are any inaccuracies in the information submitted in support of your request for this letter, (2) the qualification testing was flawed, (3) in-service performance or other information reveals safety problems, (4) the system is significantly different from the version that was crash tested, or (5) any other information indicates that the letter was issued in error or otherwise does not reflect full and complete information about the crashworthiness of the system.

### Standard Provisions

- To prevent misunderstanding by others, this letter of eligibility designated as FHWA control number WZ-56A shall not be reproduced except in full. This letter and the test documentation upon which it is based are public information. All such letters and documentation may be reviewed upon request.
- This letter shall not be construed as authorization or consent by the FHWA to use, manufacture, or sell any patented system for which the applicant is not the patent holder.
- If the subject device is a patented product it may be considered to be proprietary. If proprietary systems are specified by a highway agency for use on Federal-aid projects: (a) they must be supplied through competitive bidding with equally suitable unpatented items; (b) the highway agency must certify that they are essential for synchronization with the existing highway facilities or that no equally suitable alternative exists; or (c) they must be used for research or for a distinctive type of construction on relatively short sections of road for experimental purposes. Our regulations concerning proprietary products are contained in Title 23, Code of Federal Regulations, Section 635.411.

Sincerely yours,



Michael S. Griffith  
Director, Office of Safety Technologies  
Office of Safety

Enclosures

## Request for Federal Aid Reimbursement Eligibility of Highway Safety Hardware

<b>Submitter</b>	<b>Date of Request:</b>	November 24, 2015	<input type="radio"/> New <input checked="" type="radio"/> Resubmission
	<b>Name:</b>	Beth Novak	
	<b>Company:</b>	Eastern Metal of Elmira, Inc.	
	<b>Address:</b>	1430 Sullivan St., Elmira NY 14901	
	<b>Country:</b>	United States	
	<b>To:</b>	Michael S. Griffith, Director FHWA, Office of Safety Technologies	

I request the following devices be considered eligible for reimbursement under the Federal-aid highway program.

System Type	Submission Type	Device Name / Variant	Testing Criterion	Test Level
'WZ': Crash Worthy Work Zone Traffic Control Devices	<input type="radio"/> Physical Crash Testing <input checked="" type="radio"/> Engineering Analysis	Eastern Metal Sign Stand C-601	NCHRP Report 350	TL3

By submitting this request for review and evaluation by the Federal Highway Administration, I certify that the product(s) was (were) tested in conformity with the NCHRP Report 350 (Report 350) and that the evaluation results meet the appropriate evaluation criteria in the Report 350.

Identification of the individual or organization responsible for the product:

<b>Contact Name:</b>	Beth Novak	Same as Submitter <input checked="" type="checkbox"/>
<b>Company Name:</b>	Eastern Metal of Elmira, Inc.	Same as Submitter <input checked="" type="checkbox"/>
<b>Address:</b>	1430 Sullivan St., Elmira NY 14901	Same as Submitter <input checked="" type="checkbox"/>
<b>Country:</b>	United States	Same as Submitter <input checked="" type="checkbox"/>
Enter below all disclosures of financial interests as required by the FHWA 'Federal-Aid Reimbursement Eligibility Process for Safety Hardware Devices' document.		
There are no patent, royalties, or other financial interest related to the design of this stand.		

## PRODUCT DESCRIPTION

<input type="radio"/> New Hardware or Significant Modification	<input checked="" type="radio"/> Modification to Existing Hardware	<input type="radio"/> Non-Significant
The Eastern Metal C-601 is a compact work zone sign stand that is made from steel and aluminum tubing that forms an X base of aluminum legs, with a steel mast that supports 4' by 4' roll-up sign. Only change to the product is the name, from C-842 to C-601. All pieces and parts from the original stand have remained the same. FHWA Eligibility Letter WZ-56 was issued on 10/10/2000 for the device as an NCHRP 350 TL-3 work zone device but at the time, Eastern Metal of Elmira Inc. referred to it as the C842. The C-601 is the same design as the C-842. Since there are no physical change in the design, FHWA agreed (3/4/2016) that a lab certification was not needed for the change in name process.		

## CRASH TESTING

A brief description of each crash test and its result:

Required Test Number	Narrative Description	Evaluation Results

Full Scale Crash Testing was done in compliance with NCHRP Report 350 by the following accredited crash test Laboratory. By signature below, the Laboratory agrees in support of this submission that all critical and relevant crash tests for the device listed above were conducted. (cite the laboratory's accreditation status as noted in the crash test reports.):

Testing Laboratory's signature concurs that these modifications are considered Non-Significant.		
Laboratory Name:		
Laboratory Signature:		
Address:		Same as Submitter <input type="checkbox"/>
Country:		Same as Submitter <input type="checkbox"/>
Accreditation Certificate Number and Dates of current Accreditation period :	Based on discussion with FHWA on March 3rd, 2016 It was determined that a lab certification was not required for a name change.	

Submitter Signature\*: *Bud M Novak*

Submit Form

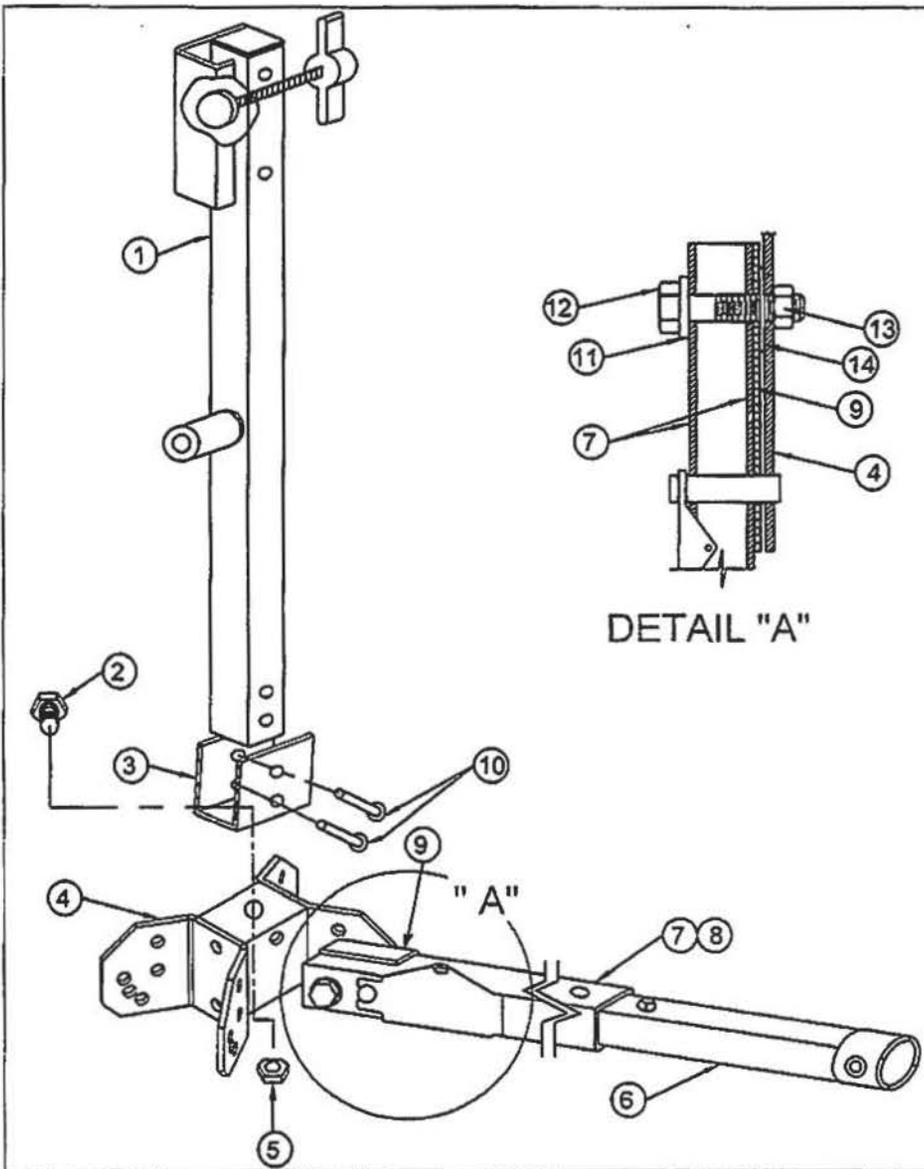
## ATTACHMENTS

Attach to this form:

- 1) Additional disclosures of related financial interest as indicated above.
- 2) A copy of the full test report, video, and a Test Data Summary Sheet for each test conducted in support of this request.
- 3) A drawing or drawings of the device(s) that conform to the Task Force-13 Drawing Specifications [Hardware Guide Drawing Standards]. For proprietary products, a single isometric line drawing is usually acceptable to illustrate the product, with detailed specifications, intended use, and contact information provided on the reverse. Additional drawings (not in TF-13 format) showing details that are relevant to understanding the dimensions and performance of the device should also be submitted to facilitate our review.

**FHWA Official Business Only:**

Eligibility Letter		AASHTO TF13	
Number	Date	Designator	Key Words



NO.	QTY.	INVOICE NO.
1	1	0230-00705 RIGID C-601 SH MAST ASY
2	1	0140-72043 1/2-13X 1-1/2 HEX BOLT
3	1	0220-03991 C-STD CENTER CHANNEL
4	1	0223-02703 C-STAND BASE ASY
5	1	0140-52065 1/2-13 STOVER NUT
6	4	0230-00444 C-STD SHORT OUTRIGGER ASY
7	2	0228-09574 AL C-STD LT LEG SHORT ASY
8	2	0228-09574 AL C-STD RT LEG SHORT ASY
9	4	0226-04950 C-STD LSB SM BASE
10	2	0140-68009 1/4x1.710x7/16 RIVET
11	4	0140-88020 7/8 OD WASHER
12	4	0140-04011 3/8-16X2-1/4 HEX BOLT
13	4	0140-52063 NUT 3/8-16 STOVER
14	4	0140-88070 1-3/8 OD WASHER

DETAIL "A"

CONTROLLED DOCUMENT

NO.	DATE	REVISIONS	BY
<b>EASTERN METAL USA-SIGN</b>			
1430 SULLIVAN ST. ELMIRA, NY 14901			
DO NOT SCALE PAPER		TOLERANCES: ANG OR X : .00	PREPARED BY: RLH
DATE: 12/3/14		ANG : .01	REV
		ANGLES : .2	
C-601-S-KLSH			
SEE BOM		PART NO: C-601-S-KLSH	