ON-LINE GUIDE
TO LUMINAIRE SUPPORTS

Data Submission Guide

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October 31, 2012
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**Introduction**

The On-Line Guide to Luminaire Supports is a content management system for luminaire support systems that was developed through a pooled-fund project championed by the Wyoming DOT. The web utility allows full viewing, submission, management, and reporting services to its users (e.g., State DOT personnel and construction contractors). The On-Line Guide to Luminaire Supports is one of six on-line guides maintained by the AASHTO-AGC-ARTBA Joint Committee on New Highway Materials Task Force 13 (TF13). AASHTO-ARTBA-AGC Task Force 13 (TF13) has been a strong force in the roadside safety industry for over 30 years. TF13 has accomplished its mission primarily by developing and publishing Guides that essentially serve as catalogs for all types of roadside hardware including guardrails, guardrail terminals, crash cushions, small sign supports, luminaire supports, bridge railings and transitions (http://guides.roadsafelc.com/). The homepage for the On-Line Guides is shown in Figure 1.

![Figure 1. Homepage for the AASHTO-AGC-ARTBA Task Force 13 On-Line Guides to Highway Products.](image)

The luminaire support systems included in the On-Line Guide have been successfully crash tested according to *NCHRP Report 350* or the Manual for Assessing Safety Hardware (*MASH*) and comply with the AASHTO Standard Specification for Structural Supports for Highway Signs, Luminaires and Traffic Signals [Ross03; AASHTO09; AASHTO85] As such, all luminaire support system configurations included in the Guide are eligible for use on federally funded highways. A link to the appropriate FHWA Eligibility Letter (sometimes referred to as Acceptance Letter or Approval Letter) is included in the index listing for each system, but users may want to refer to the [FHWA website](https://www.fhwa.dot.gov) for the most current information on a particular system.
The FHWA acceptance letters for luminaires generally cover a range of particular luminaire configurations. For example, a manufacturer might test with the smallest and largest bolt circle and the shortest and tallest luminaire support. The FHWA letter, then generally applies to the breakaway functionality of the base for a specific range of pole dimensions and overall mass properties of the luminaire system. The FHWA letter, therefore, can often effectively cover a dozen or more particular luminaire configurations.

The luminaire support systems in the On-Line Guide are defined in a similar manner. That is, each luminaire support system in the On-Line Guide corresponds to a general system of luminaire support configurations that satisfy the requirements of a particular FHWA eligibility letter. However, if two or more luminaire support manufacturers market a system, which corresponds to the same FHWA eligibility letter, then a separate general system name will be generated for each manufacturer. This creates some redundancy in the Guide, but is necessary since each manufacturer will generally have some variation of arm and/or pole components. For example, Valmont Industries markets a luminaire support corresponding to FHWA eligibility letter LS-15 (i.e., SLT07). This system uses a transformer base manufactured by Akron Foundry (e.g., LBT07). If another manufacturer markets luminaire supports using this same base (i.e., FHWA eligibility letter LS-15), then a separate general system name will be created for that manufacturer (e.g., SLT99).

This document is serves as a Guide for gathering and submitting data for inclusion into the On-Line Guide. It provides a checklist for the submittal process; guidance for entering data into the Data Entry Form; guidance for submitting data, drawings and photos for components; and guidance for creating and submitting drawings and photos for luminaire support systems. A key contact in submitting the data is the administrator for the guide. Using the usual Task Force 13 procedures, the administrator is one of the co-chairs of the subcommittee in charge of each guide; in this case the luminaire guide is managed by subcommittee #5, Support Hardware. The contact information for the current co-chairs can be found on the Task Force 13 website, http://www.aashtotf13.org.

Data Submittal Checklist

**Basic Process**

- Verify that your company’s contact information is listed in the Online Guide’s Manufacturers/Contacts page.
- If the contact information is not listed, then submit the following information to the administrator of the Online Guide at submissions@guides.roadsafellc.com:
  - Organization,
  - Contact name,
  - E-Mail address,
• Business address,
• Phone number, and
• Company website

• Verify that each component (i.e., base, shaft, and arm) of the luminaire support system being submitted is listed in the Online Guide to Components.
  o If a component is not listed: Submit component information to the Guide’s administrator and obtain AASHTO-AGC-ARTBA designator for the component, including:
    ▪ Component manufacturer,
    ▪ Contact Information for manufacturer,
    ▪ Component drawings,
    ▪ Component photos, and
    ▪ Any additional information you wish to be included (e.g., test reports, manufacturer’s drawings, brochure, etc.)

• Download and complete the Data-Entry-Form at http://guides.roadsafellc.com/luminaireGuide/DataEntryForm.xlsx and submit the file to the administrator of the Online Guide.

• Submit drawings and photos of the overall luminaire support system to the administrator of the Online Guide.

Guidance on Using the Data Entry Form

The data in the On-Line Guide includes: luminaire system manufacturer, luminaire base manufacturer, FHWA approval letter number, crash test specification, crash test level, material type, TF13 base component, base type, TF13 pole component, mounting height, pole dimensions, TF13 arm component, arm type, arm length, number of arms, and bolt-circle diameter. This data must be provided by the manufacturer and must be in the correct format. To aid in the data collection and submission effort, an Excel Workbook, named Data-Entry-Form.xlsx, can be downloaded from the following link: http://guides.roadsafellc.com/luminaireGuide/DataEntryForm.xlsx. The workbook serves as a template for data entry and contains some example content, which corresponds to a Valmont Industries luminaire support system. The data in the template file should be deleted (or over-written) and replaced with the new luminaire system data. Figures 2 through Figure 4 show the types of data that are to be provided in each column of the Data-Entry-Form. Each of these data entries are discussed in the following paragraphs.

Each row in the data file corresponds to a specific luminaire support configuration (i.e., pole, base and arm). For many data columns, only certain values are permissible for data entry. In those cases, a pull-down menu is provided for convenience and, more importantly, to ensure that the data entry is
valid. These columns are denoted in the data entry template by rose-colored cells, as shown in Figures 2 through Figure 4.

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<thead>
<tr>
<th>System Manufacturer</th>
<th>Manufacturer's Base Component Name</th>
<th>Manufacturer's Catalog Number for System</th>
<th>FHWA Letter No.</th>
<th>Test Specs</th>
<th>Crash Test Level</th>
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<td>L515</td>
<td>Report 350</td>
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<td>Report 350</td>
<td>3</td>
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</table>

Figure 2. Data-Entry-Form.xlsx – columns A through F.

<table>
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<th>OPTIONS</th>
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<td>N</td>
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<tr>
<td>O</td>
</tr>
</tbody>
</table>

Figure 3. Data-Entry-Form.xlsx – Columns G through O.
Figure 4. Data-Entry-Form.xlsx – Columns P through U.

**Column A – System Manufacturer**

Provide the name of the luminaire support manufacturer in column A on the data entry form for each luminaire support configuration, as shown in Figure 2. If the name of the manufacturer is already listed on the *Manufacturers/Contacts* page of the On-Line Guides, then type the name exactly as it currently exists; otherwise, provide the name of the luminaire support manufacturer and submit the following information along with the Data-Entry Template in a separate file:

- Organization:
- Contact name:
- E-Mail address:
- Business address:
- Phone number:
- Company website:

**Column B – Frangible Base Name per Manufacturer’s Listing (Optional)**

Provide the manufacturer’s name for the base component in column B on the data entry form, as shown in Figure 2. Only the AASHTO-AGC-ARTBA TF13 component name will be used in the Guide; however, the manufacturer’s name for the base component is useful for verifying that the base component name is correctly selected.
Column C – Catalog Number per Manufacturer’s Listing (Optional)

Provide the manufacturer’s catalog number in column C on the data entry form for each luminaire support configuration, as shown in Figure 2. This data entry is optional but, since it is listed on the website, it provides a convenient means for a user of the On-Line Guide to communicate the specific luminaire support configuration to the system manufacturer.

Column D – FHWA Letter Number

Provide the FHWA Eligibility Letter Number in column D on the data entry form, as shown in Figure 2. All luminaire supports in the On-Line Guide must be associated with an FHWA Eligibility letter which indicates that it is eligible for use on Federally funded projects. When entering the eligibility number, omit the hyphen in the name. For example, LS-15 should be entered as LS15.

Column E – Test Specifications

Provide the test specifications which were used to qualify the system for FHWA eligibility in column E on the data entry form, as shown in Figure 2. All roadside safety devices, including luminaire supports, installed on Federal-Aid Projects are required to meet the current crash test requirements adopted by the FHWA. The first crash test procedures were documented in the 1985 AASHTO Standard Specifications for Structural Supports for Highway Signs, Luminaires, and Traffic Signals. [AASHTO85] The test criteria for luminaire supports were essentially unchanged in the 1993 NCHRP Report 350 crash test procedures [Ross03] and thus all luminaire testing done between 1985 and 1993 was considered acceptable under NCHRP Report 350. The current crash test guidelines were published in the AASHTO 2009 Manual for Assessing Safety Hardware (MASH). [AASHTO09]

Two options are permissible for data entry: (1) Report 350 and (2) MASH; where, Report 350 corresponds to NCHRP Report 350 procedures and MASH corresponds to the Manual for Assessing Safety Hardware procedures. A pull-down menu in those data cells is provided for convenience and, more importantly, to ensure that the data entry is valid. If a non-valid data entry is made, Excel will show a message window with instructions on how to correct the error, as shown in Figure 5.
Column F – Test Level

Provide the test level for which the system was tested in column F, as shown in Figure 2. Three data entry options are permissible: 1, 2 or 3, corresponding to test level 1, test level 2 and test level 3, respectively. A pull down menu is provided for this data entry for convenience and to ensure that data entry is valid.

Column G - Material

Provide the type of material that luminaire support is manufactured from in column G on the data entry form, as shown in Figure 3. Three data entry options are permissible: (1) Aluminum, (2) Steel, (3) Composite and (4) other. A pull down menu is provided for this data entry for convenience and to ensure that data entry is valid.

Column H – AASHTO-AGC-ARTBA Base Designator

Provide the AASHTO-ARG-ARTBA TF13 component name for the base in column H on the data entry form, as shown in Figure 3. If the base component does not currently exist in the On-Line Guide to Components (e.g., search for luminaire base components here), then please submit component information to the Component Guide’s “gatekeeper” for inclusion in the Guide (refer to the next section for instructions on submitting materials for components). The new base component will be created in the Guide and the corresponding component designator will be provided to you.

Column I – Luminaire Base Type

Provide the type of luminaire base in column I on the data entry form for each luminaire support configuration, as shown in Figure 3. As mentioned previously, all luminaire supports systems in the On-Line Guide must be eligible for use on federally funded projects, which means that they must “readily” breakaway at the base during impacts with passenger vehicles. Seven data entry options are
permissible: (1) Slip, (2) Transformer, (3) Shoe, (4) Coupling, (5) Direct Buried, (6) Breakaway Joint and (7) Other. A pull down menu is provided for this data entry for convenience and to ensure that data entry is valid.

**Column J – AASHTO-AGC-ARTBA Pole/Shaft Designator**

Provide the AASHTO-ARG-ARTBA TF13 component name for the pole/shaft in column J on the data entry form, as shown in Figure 3. Note that only the first five characters of the component name (i.e., general component name) are to be entered. If the shaft component does not currently exist in the On-Line Guide to Components (e.g., search for luminaire base components here), please submit component information to the Guide’s “gatekeeper” for inclusion in the Guide (refer to the next section for instructions on submitting materials for components). The new shaft component will be created in the Guide and the corresponding component designator will be provided to you.

**Column K – Fixture Mounting Height**

Provide the mounting height of the luminaire fixture in column K on the data entry form for each luminaire support configuration. There are thirteen permissible data entry options for mounting height, as shown in Figure 3, with values ranging from 12 to 50 feet. A pull down menu is provided for this data entry for convenience and to ensure that data entry is valid. The mounting height must be entered in units of feet.

**Column L – Shaft Length (optional)**

Provide the length of the luminaire pole/shaft in column L on the data entry form for each luminaire support configuration, as shown in Figure 3. This entry is optional since it is not necessary in defining the overall luminaire support configuration. That is, the pole length can be determined based on the height of the base, the arm type and the mounting height of the luminaire fixture. The shaft length must be entered in units of feet.

**Column M – Diameter of the Butt-End of the Shaft**

Provide the outside diameter of the butt-end of the shaft in column M on the data entry form for each luminaire support configuration, as shown in Figure 3. The diameter must be entered in units of inches.

**Column N – Diameter of the Top-End of the Shaft**

Provide the outside diameter of the top-end of the shaft in column N on the data entry form for each luminaire support configuration, as shown in Figure 3. The diameter must be entered in units of inches.

**Column O – Wall-Thickness of Shaft**

Provide the wall-thickness of the pole/shaft in column O on the data entry form for each luminaire support configuration, as shown in Figure 3. The wall-thickness is defined in units of 1/32 inch; for example, an entry of 5 corresponds to 5/32-inch. There are sixteen permissible data entry options for
mounting height, as shown in Figure 3, with values ranging from 1 (i.e., 1/32 inch) to 16 (i.e., 1/2 inch). A pull down menu is provided for this data entry for convenience and to ensure that data entry is valid.

**Column P – AASHTO-AGC-ARTBA Arm Designator**

Provide the AASHTO-ARG-ARTBA TF13 component name for the arm in column P on the data entry form, as shown in Figure 4. Note that only the first five characters of the component name (i.e., general component name) are to be entered. If the arm component does not currently exist in the On-Line Guide to Components (e.g., search for luminaire base components [here]), please submit component information to the Guide’s “gatekeeper” for inclusion in the Guide (refer to the next section for instructions on submitting materials for components). The new arm component will be created in the Guide and the corresponding component designator will be provided to you.

**Column Q – Arm Type**

Provide the type of arm in column Q on the data entry form for each luminaire support configuration, as shown in Figure 4. Seven data entry options are permissible: (1) None, (2) Mast, (3) Truss, (4) Davit, (5) Cross, (6) Tenon and (7) Other. A pull down menu is provided for this data entry for convenience and to ensure that data entry is valid.

**Column R – Arm Length**

Provide the length of the arm in column R on the data entry form. This quantity must be an integer and must be entered in units of inches, as shown in Figure 4.

**Column S – Number of Arms**

Provide the number of arms for each luminaire support configuration in column S on the data entry form, as shown in Figure 4. Five data entry options are permissible: 0, 1, 2, 3, and 4. A pull down menu is provided for this data entry for convenience and to ensure that data entry is valid. Note that for a double cross-arm, the number of arms is 2; for a triple cross-arm, the number of arms is 3; and for a quad cross-arm, the number of arms is 4.

**Columns T and U – Bolt Circle Diameter**

Provide the minimum and maximum bolt-circle diameters that can be accommodated with the system in columns T and U, respectively, on the data entry form. The bolt circle diameter corresponds to the diameter of the bolt-hole pattern on the base of the system that mounts it to the “rigid” foundation.

**Guidance on Submitting Component Information**

In order for a component to be included in the On-Line Guide to Components, it must be associated with one or more of the highway products listed in the On-Line Guides (i.e., bridge rail, transition, sign support, luminaire support, or hardware systems). To request inclusion of a component, please submit the following information to the administrator of the Guides:
• Component manufacturer,
• Contact Information for manufacturer,
• Component drawings,
• Component photos, and
• Any additional information you wish to be included (e.g., test reports, manufacturer’s drawings, brochure, etc.)

A web-page for the component will be created and the component will be assigned a name based on AASHTO-AGC-ARTBA nomenclature. An example of a component web-page is shown in Figure 6. The component designator must be included on the Data-Entry-Form where specified.

**Component Drawings**

Drawings for the component must be submitted in AASHTO-AGC-ARTBA Task Force 13 format, and must be submitted as a PDF file type. The dimensions in the drawings must be provided in both inches and millimeters, with the millimeter measurement in brackets. For example, a height of 30 inches (762 millimeters) is labeled as 30 [760]. Unit conversions and rounding conform to the recommendations in the “Guide to Metric Conversions” [AASHTO93].

All text, with the exception of the title block text, should be 3/32 inch (2.4 mm) high and in a Roman font. Borders should be drawn around the drawing pages as shown in Table 1.

<table>
<thead>
<tr>
<th>Table 1. Drawing margins</th>
</tr>
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<tbody>
<tr>
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</tr>
<tr>
<td><strong>Top</strong></td>
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<tr>
<td><strong>Bottom</strong></td>
</tr>
</tbody>
</table>

Table 2 lists the acceptable abbreviations that may be used in the drawings. The abbreviations shall be stand-alone without any period.

<table>
<thead>
<tr>
<th>Table 2. Acceptable abbreviations in drawings</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>CLR</strong></td>
</tr>
</tbody>
</table>

10
A title block shall be located at the bottom of the drawing page. This title block is approximately 6-1/2 inches wide (the entire width of the drawing) and 1-1/4 inches high. It is divided into three sections, each with a 3/64-inch border:

- The top box, which is 6-1/2 inches wide and 3/8 inches high, contains a descriptive name for the component (e.g., Decorative Fluted Pole) in a 3/8-inch Roman font.
- The lower left box, which is 1-11/16 inches wide and 15/16 inches high, may contain a manufacturer's logo if desired.
- The lower right box, which is 1-7/8 inches wide and 15/16 inches high, contains the component designator, a sheet number and total number of sheets (both drawing and specification pages), and the date of the latest revision of the drawing. The designator should be in a 1/4-inch Roman font, and the other items should be in a 3/32-inch Roman font.

In the lower left corner of the drawing, above the title block, the year that the component first entered the Guide should also be placed in a 3/32-inch Roman font.

For proprietary systems, the drawings are generally “generic” but must provide sufficient information to describe the component. Content for components and systems in the Online Guides consists of drawings on the facing sheets (i.e., the odd-numbered pages) and design specifications, intended use of the component/product and manufacturer contact information listed on the back sheets (i.e., the even-numbered pages). Generally, content for components consists of a one-page
drawing and a one-page specification; in exceptional cases it may be acceptable to have multiple sheets for a single component. For systems, often all the material cannot be contained on a single front-and-back sheet so multiple sheets may be used. For both components and systems, if multiple sheets are needed, drawing content should always be on the facing sheets and specification text should always be on the back. Blank sheets may be inserted to facilitate this arrangement.

An example drawing for a luminaire shaft component is provided in Figure 7, Figure 8, Figure 9 and Figure 10; and an example drawing for a luminaire base component is provided in Figure 11, Figure 12, Figure 13 and Figure 14. CAD drawings with dimensions should be placed on odd numbered pages of the drawing file, while even numbered pages should contain information related to drawing specifications, intended use of the component/product and manufacturer contact information. For components such as luminaire shafts and arms, which may have varying dimensions, the corresponding variables (e.g., diameter of shaft) may be labeled with a letter designator, as shown in Figure 7; the optional values for the variable dimension would then be provided in a table included on the drawing file, as shown in Figure 9.
Online Guide To Components

Navigation
- Components Home
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- Search Components
- Contacts
- About
- Links

Other Guides
- Bridge Rail Systems
- Transition Systems
- Sign Support Systems
- Luminaire Support Systems
- Hardware Systems
- Components

Decorative - Hapco Fluted Pole (LPA02)

<table>
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<td>Type</td>
<td>Aluminum (A)</td>
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<tr>
<td>Manufacturer</td>
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<td>Contact</td>
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<td>Last Updated</td>
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![Image of Hapco Fluted Pole]

<table>
<thead>
<tr>
<th>Drawings</th>
<th>Other Documents</th>
<th>Images</th>
<th>Systems</th>
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| LPA02.pdf  | No files found. | Thumbnail Gallery | Luminaire Systems
|             |                 |                 | - SLT03
|             |                 |                 | - SLT06
|             |                 |                 | - SLT04
|             |                 |                 | - SLT01
|             |                 |                 | Sign Systems
|             |                 |                 | - None
|             |                 |                 | Transitions
|             |                 |                 | - None

Figure 6. Example of a component web page in the On-Line Guide.
Figure 7. Example drawing of luminaire shaft component (page 1 of 4).
SPECIFICATIONS

The shaft shall be a one piece round tapered or straight fluted tube of 6063 aluminum alloy and shall be full-length heat-treated to T6 temper after welding on the base. Shaft shall be free of longitudinal welds. Pole shaft cap, when required, shall be of cast aluminum of 443 or 356F aluminum alloy and attached utilizing stainless steel hardware. The pole shall be designed for a minimum design life of 50 years in accordance with "Standard Specifications for Structural Supports for Highway Signs, Luminaires and Traffic Signals "AASHTO 2001", 4th Edition.

Dimensional tolerances not shown or implied are intended to be those consistent with the proper functioning of the part, including its appearance and accepted manufacturing practices.

INTENDED USE

This pole is designed for use with HAPCO luminaire support systems SLT01, SLT03, SLT04, SLT05, and SLT06.

CONTACT INFORMATION

Hapco Aluminum Pole Products
26252 Hillman Highway
Abingdon, VA 24210
Phone: 1-800-368-7171
Email: joe.bowman@hapco.com
Website: www.hapco.com

HAPCO DECORATIVE FLUTED POLES

LPA02

<table>
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</tbody>
</table>

**Figure 9.** Example drawing of luminaire shaft component (page 3 of 4).
Figure 10. Example drawing of luminaire shaft component (page 4 of 4).
Figure 11. Example drawing of luminaire base component (page 1 of 4).
INTENDED USE

Transpo's Pole-Safe® 4000 Series coupling base is an omni-directional breakaway support system for a wide variety of light poles and other elements located within roadside clear zones or other locations vulnerable to vehicular impacts. The primary component of the system is a high-strength coupling, designed to break away quickly and cleanly upon impact, thus saving lives and reducing property damage costs. Pole-Safe® has been vehicle crash-tested in accordance with NCHRP Report 350 Test Level 3, and is approved for use on all FHWA-funded projects.

In addition to superior safety performance, Pole-Safe® provides high structural load-carrying capacity. Extensive finite-element analysis and simulated wind-load testing has been used to optimize the system for maximum loading conditions.

The Pole-Safe® 4000 Series consists of four (4) models of different coupling sizes to cover a wide range of pole sizes and configurations, up to and including the heaviest pole mass allowed (992 lbs [450 kg]) in the AASHTO Standard Specifications for Structural Supports for Highway Signs, Luminaires and Traffic Signals.

Below are the Pole-Safe® 4000 Series Models with corresponding standard anchor bolt size:
- Pole-Safe® Model 4125 for use with 1 1/4” [32] Anchor Bolts.

Each model is a complete base system that contains four (4) Pole-Safe® breakaway couplings, and all related hardware shown. The reinforced concrete foundation, pole, and base plate are not included.

REFERENCES


CONTACT INFORMATION

Transpo Industries, Inc.
20 Jones Street, New Rochelle, NY 10801
Phone: (914) 636-1000
Fax: (914) 636-1282
Email: info@transpo.com
Web: www.transpo.com

POLE-SAFE® 4000 SERIES COUPLING BASE

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Figure 12. Example drawing of luminaire base component (page 2 of 4).
Figure 13. Example drawing of luminaire base component (page 3 of 4).
INTENDED USE

Transpo’s Pole-Safe® 4000 Series coupling base is an omni-directional breakaway support system for a wide variety of light poles and other elements located within roadside clear zones or other locations vulnerable to vehicular impacts. The primary component of the system is a high-strength coupling, designed to break away quickly and cleanly upon impact, thus saving lives and reducing property damage costs. Pole-Safe® has been vehicle crash-tested in accordance with NCHRP Report 350 Test Level 3, and is approved for use on all FHWA-funded projects.

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Email: info@transpo.com
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POLE-SAFE® 4000 SERIES COUPLING BASE

LBC02a-d

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Figure 14. Example drawing of luminaire base component (page 4 of 4).
Component Photos

Photos of the component should also be provided as part of the data submission. One photo may be selected for display on the component web-page, as shown in Figure 6. This photo must be named “Photo-01.jpg,” as the On-Line Guide automatically displays the photo with that name on the component web-page. Additional photos may also be submitted, which will be included in on a separate web-page accessed by clicking the link for “Thumbnail Gallery” as shown in Figure 6.

Guidance on Submitting Luminaire Support System Drawings and Photos

The format and procedures for submitting drawings and photos for luminaire support systems are the same as those for luminaire components, described in the previous section. A web-page for the luminaire support system will be created and the system will be assigned a name based on AASHTO-AGC-ARTBA nomenclature. An example of a luminaire support system web-page is shown in Figure 15. The component designator must be included on the Data-Entry-Form where specified.

System Drawings

A single drawing file for each general system shall be submitted to the administrator of the Online Guide. The drawing should include all variations of base, pole and arm component configurations corresponding to that general system. An example drawing file for a luminaire support is provided in Figure 16 and Figure 17.

System Photos

Photos of the general system should also be provided as part of the data submission. One photo may be selected for display on the luminaire support system web-page, as shown in Figure 15. This photo must be named “Photo-01.jpg,” since the On-Line Guide automatically displays the photo with that name on the component web-page. It is suggested that multiple system configurations be included in Photo-01.jpg, as illustrated in Figure 15, as it will provide a more descriptive indication of the various configurations available for the system. Additional photos may also be submitted, which will be included in on a separate web-page accessed by clicking the link for “Thumbnail Gallery” as shown in Figure 15.
### SLH01: General System

This page provides only general information about this system. To view the specific configurations of this system, use the search criteria at the bottom of this page. To search through specific configurations of all systems, please use the Search Luminaires Supports page.

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<tr>
<td>Contact:</td>
<td>Mr. Joe Bowman (Click for details)</td>
</tr>
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</table>

**Figure 15. Example of a luminaire support system web page in the On-Line Guide.**
Figure 16. Example drawing of luminaire support system (page 1 of 2).
SPECIFICATIONS

This system is available in mounting heights [A] of 20, 25 and 30 ft. It is qualified for use on the National Highway System via FHWA Acceptance Letter LS-27. Pole (shaft) dimensions vary depending on system mounting height, type of arm, fixture weight, and desired EPA values. The system is available with the following finishes: Satin ground or powder coat: black, white, dark bronze, green, and grey.

Dimensional tolerances not shown or implied are intended to be those consistent with the proper functioning of the part, including its appearance and accepted manufacturing practices.

Warning: Do not install system without luminaire.

INTENDED USE

This aluminum luminaire support system has been crash-tested and satisfies the criteria for NCHRP Report 350 test level 3. This is a proprietary product and its use on Federal-aid projects must adhere to the regulations contained in Title 23, Code of Federal Regulations, Section 635.411.

CONTACT INFORMATION

Hapco Aluminum Pole Products
26252 Hillman Highway
Abingdon, VA 24210

Phone: 800-368-7171

e-mail: joe.bowman@hapco.com

Figure 17. Example drawing of luminaire support system (page 2 of 2).
Summary

The information provided in this document serves as a tutorial for gathering and submitting data for inclusion into the On-Line Guide to Luminaire Supports. It provides a checklist for the submittal process; guidance for entering data into the Data Entry Form; guidance for submitting data, drawings and photos for components; and guidance for creating and submitting drawings and photos for luminaire support systems.

Note: the On-Line Guide for Luminaire Supports contains only luminaire support systems that are eligible for use on Federally funded projects and comply with the AASHTO Standard Specification for Structural Supports for Highway Signs, Luminaires and Traffic Signals.