# Authorized Material List

for

Highway Safety Features

12/17/18

## Permanent Crush Cushions

<table>
<thead>
<tr>
<th>Product Name</th>
<th>Manufacturer</th>
<th>350/MASH</th>
<th>Re-Authorization</th>
</tr>
</thead>
<tbody>
<tr>
<td>QUADGUARD M10(TL-3) 24-inch</td>
<td>Energy Absorption Systems, Inc.</td>
<td>MASH</td>
<td>10/2020</td>
</tr>
<tr>
<td>SCI-100GM TL-3</td>
<td>SCI 100</td>
<td>MASH</td>
<td>10/2020</td>
</tr>
</tbody>
</table>

## Temporary Crash Cushions

<table>
<thead>
<tr>
<th>Product Name</th>
<th>Manufacturer</th>
<th>350/MASH</th>
<th>Re-Authorization</th>
</tr>
</thead>
<tbody>
<tr>
<td>ABSORB 350 TL-2, (5 element)</td>
<td>Barrier Systems, Inc.</td>
<td>350</td>
<td>10/2019</td>
</tr>
<tr>
<td>ABSORB 350 TL-3 (8 &amp; 9 Element) temporary use only</td>
<td>Energy Absorption Systems, Inc.</td>
<td>350</td>
<td>10/2019</td>
</tr>
<tr>
<td>ACZ-350 Anchorless Crash Cushion CZ System TL-3 temporary use only</td>
<td>Trinity Highway Products, LLC</td>
<td>350</td>
<td>10/2019</td>
</tr>
<tr>
<td>ADIEM II TL-3 temporary use only</td>
<td>Trinity Highway Products, LLC</td>
<td>350</td>
<td>10/2019</td>
</tr>
<tr>
<td>Crash Guard CC-48 Sand Barrels TL-2, TL-3 temporary use only</td>
<td>Plastic Safety Systems, Inc.</td>
<td>350</td>
<td>10/2019</td>
</tr>
<tr>
<td>ENERGITE 111 System TL-2, TL-3 temporary use only</td>
<td>Energy Absorption Systems, Inc.</td>
<td>350</td>
<td>10/2019</td>
</tr>
<tr>
<td>NEAT TL-2, NEAT 2B NEAT 2C temporary use only</td>
<td>Energy Absorption Systems, Inc.</td>
<td>350</td>
<td>10/2019</td>
</tr>
<tr>
<td>QUADGUARD II CZ on a plate 2-bay, 5-bay temporary use only</td>
<td>Energy Absorption Systems, Inc.</td>
<td>350</td>
<td>10/2019</td>
</tr>
<tr>
<td>QUADGUARD CZ 2-bay, 5-bay temporary use only</td>
<td>Energy Absorption Systems, Inc.</td>
<td>350</td>
<td>12/2019</td>
</tr>
<tr>
<td>SLED TL-2, TL-3 temporary use only</td>
<td>TrafFix Devices, Inc.</td>
<td>350</td>
<td>10/2019</td>
</tr>
<tr>
<td>TrafFix Barrels TL-2, TL-3 temporary use only</td>
<td>TrafFix Devices, Inc.</td>
<td>350</td>
<td>10/2019</td>
</tr>
</tbody>
</table>

## End treatments /Guardrail

<table>
<thead>
<tr>
<th>Product Name</th>
<th>Manufacturer</th>
<th>350/MASH</th>
<th>Re-Authorization</th>
</tr>
</thead>
<tbody>
<tr>
<td>Soft-Stop In-Line Guardrail Terminal TL-2, TL-3</td>
<td>Trinity Highway Products, LLC</td>
<td>MASH</td>
<td>10/2020</td>
</tr>
<tr>
<td>MASH Sequentially Kinking Terminal TL-3</td>
<td>Roads Systems, Inc. (RSI)</td>
<td>MASH</td>
<td>10/2020</td>
</tr>
<tr>
<td>MAX-Tension™ In-Line Guardrail Terminal TL-3</td>
<td>Barrier Systems, Inc.</td>
<td>MASH</td>
<td>10/2020</td>
</tr>
</tbody>
</table>
### Median Terminals

<table>
<thead>
<tr>
<th>Product Name</th>
<th>Manufacturer</th>
<th>350/MASH</th>
<th>Re-Authorization</th>
</tr>
</thead>
<tbody>
<tr>
<td>X-Tension Median</td>
<td>Barrier Systems, Inc.</td>
<td>350</td>
<td>10/2019</td>
</tr>
<tr>
<td>FLEAT – MT TL-3</td>
<td>Roads Systems, Inc. (RSI)</td>
<td>350</td>
<td>10/2019</td>
</tr>
<tr>
<td>CAT-350 TL-3 (median terminal)</td>
<td>Trinity Highway Products, LLC</td>
<td>350</td>
<td>10/2019</td>
</tr>
</tbody>
</table>

### Barriers

<table>
<thead>
<tr>
<th>Product Name</th>
<th>Manufacturer</th>
<th>350/MASH</th>
<th>Re-Authorization</th>
</tr>
</thead>
<tbody>
<tr>
<td>ArmourGuard Steel Barrier Gate System TL-3</td>
<td>Barrier Systems, Inc.</td>
<td>350</td>
<td>10/2019</td>
</tr>
<tr>
<td>ArmourGuard Steel Barrier Link System TL-3, 8 m segments</td>
<td>Barrier Systems, Inc.</td>
<td>350</td>
<td>10/2019</td>
</tr>
<tr>
<td>Barrier Gate TL-3, BG1.5</td>
<td>Energy Absorption Systems, Inc.</td>
<td>350</td>
<td>10/2019</td>
</tr>
<tr>
<td>Barrier Guard 800</td>
<td>Highway Care</td>
<td>350</td>
<td>10/2019</td>
</tr>
<tr>
<td>Brifen Wire Rope Safety Fence System (TL-3) 3-rope, 10.5-ft post spacing and 8-ft post spacing</td>
<td>Brifen U.S.A., Inc.</td>
<td>350</td>
<td>10/2019</td>
</tr>
<tr>
<td>Brifen Wire Rope Safety Fence System 4-rope, 10.5-ft post spacing</td>
<td>Brifen U.S.A., Inc.</td>
<td>350</td>
<td>10/2019</td>
</tr>
<tr>
<td>Brifen Wire rope Safety Fence System (TL-4) 4-rope, 21-ft. post spacing</td>
<td>Brifen U.S.A., Inc.</td>
<td>350</td>
<td>10/2019</td>
</tr>
<tr>
<td>Bullnose Non Proprietary TL-3</td>
<td>Barrier Median</td>
<td>350</td>
<td>10/2019</td>
</tr>
<tr>
<td>CASS and Cable Terminal System (TL-3) 3-rope, 10-ft. post spacing, 16-ft post spacing</td>
<td>Trinity Highway Products, LLC</td>
<td>350</td>
<td>10/2019</td>
</tr>
<tr>
<td>CASS S3 4:1 4-rope, 10.5-ft. post spacing TL-3, TL-4</td>
<td>Trinity Highway Products, LLC</td>
<td>350</td>
<td>10/2019</td>
</tr>
<tr>
<td>CASS TL-4 Cable Barrier System 3-rope, 20-ft. post spacing</td>
<td>Trinity Highway Products, LLC</td>
<td>350</td>
<td>10/2019</td>
</tr>
<tr>
<td>Concrete Reactive Tension system (CRTS) TL-3</td>
<td>Barrier Systems, Inc.</td>
<td>350</td>
<td>10/2019</td>
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<tr>
<td>GPLINK portable barrier railing TL-3</td>
<td>Gunnar Prefab AB</td>
<td>350</td>
<td>10/2019</td>
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### Barriers Continued

<table>
<thead>
<tr>
<th>Product Name</th>
<th>Manufacturer</th>
<th>350/MASH</th>
<th>Re-Authorization</th>
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</thead>
<tbody>
<tr>
<td>Guardian Safety Barrier TL-2</td>
<td>Armorcast Products, CO.</td>
<td>350</td>
<td>10/2019</td>
</tr>
<tr>
<td>Nucor Nu-Cable 4-Cable TL-3, TL-4 terminal NOT APPROVED</td>
<td>Nucor Steel Marion, Inc.</td>
<td>350</td>
<td>10/2019</td>
</tr>
<tr>
<td>Safence II Median Barrier (TL-3) 4-rope, 8-ft-2-in. post spacing</td>
<td>Gregory Industries</td>
<td>350</td>
<td>10/2019</td>
</tr>
<tr>
<td>SAFENCE Cable Guardrail (TL-3) 4-cable, 8.2-ft. post spacing</td>
<td>Impact Absorption Inc.</td>
<td>350</td>
<td>10/2019</td>
</tr>
<tr>
<td>Steel Reactive Tension System (SRTS) TL-3</td>
<td>Barrier Systems, Inc.</td>
<td>350</td>
<td>10/2019</td>
</tr>
<tr>
<td>Low-Profile Concrete Road Barrier and End-Treatment Non Proprietary TL-2</td>
<td>Licensed by Texas Transportation Institute</td>
<td>350</td>
<td>10/2019</td>
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<tr>
<td>Portable Concrete Barrier 60K Non Proprietary TL-3</td>
<td>MASH</td>
<td>10/2019</td>
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</tr>
<tr>
<td>ZoneGuard Standard and Minimum Deflection Systems TL-3, TL-4</td>
<td>Hill and Smith, Inc.</td>
<td>350</td>
<td>10/2019</td>
</tr>
</tbody>
</table>
### Truck Mounted Attenuators

<table>
<thead>
<tr>
<th>Product Name</th>
<th>Manufacturer</th>
<th>350/MASH</th>
<th>Re-Authorization</th>
</tr>
</thead>
<tbody>
<tr>
<td>Alpha 70K (TMA) TL-2 16, 100-26, 400</td>
<td>Energy Absorption Systems, Inc.</td>
<td>350</td>
<td>10/2019</td>
</tr>
<tr>
<td>MPS-350- Truck Mounted Attenuator - (TMA) TL-3, 16, 100-21,000**</td>
<td>Trinity Highway Products, LLC</td>
<td>350</td>
<td>10/2019</td>
</tr>
<tr>
<td>RENCO Rengard 815 TL-2 16,100 - 26,400</td>
<td>Renco Inc., Texas</td>
<td>350</td>
<td>10/2019</td>
</tr>
<tr>
<td>Safe-Stop Mounted Attenuator TL-3 16,100 - 21,000</td>
<td>Energy Absorption Systems, Inc.</td>
<td>350</td>
<td>10/2019</td>
</tr>
<tr>
<td>Safe-Stop Trailer-Mounted Attenuator TL-3 16,100 - 54,000</td>
<td>Energy Absorption Systems, Inc.</td>
<td>350</td>
<td>10/2019</td>
</tr>
<tr>
<td>Scorpion 10,000 A TL-2 16,100 - 26,400</td>
<td>TrafFix Devices, Inc.</td>
<td>350</td>
<td>10/2019</td>
</tr>
<tr>
<td>Scorpion 10,000 B TL-3, 16,100 -54,000</td>
<td>TrafFix Devices, Inc.</td>
<td>350</td>
<td>10/2019</td>
</tr>
<tr>
<td>Scorpion 10,000 C TL-3, 16,100 -54,000</td>
<td>TrafFix Devices, Inc.</td>
<td>350</td>
<td>10/2019</td>
</tr>
<tr>
<td>Scorpion Trailer-Mounted Attenuator TL-3 16,100 - 54,000</td>
<td>TrafFix Devices, Inc.</td>
<td>350</td>
<td>10/2019</td>
</tr>
<tr>
<td>TTMA100 Trailer Mounted Attenuator (TMA) TL-3, 16,100 - 54,000</td>
<td>Gregory Highway Products</td>
<td>350</td>
<td>10/2019</td>
</tr>
<tr>
<td>Vorteq Trailer Truck Mounted Attenuator (TMA) TL-3, 16,100-54,000</td>
<td>Energy Absorption Systems, Inc.</td>
<td>350</td>
<td>10/2019</td>
</tr>
</tbody>
</table>
## Miscellaneous

<table>
<thead>
<tr>
<th>Product Name</th>
<th>Manufacturer</th>
<th>350/MASH</th>
<th>Re-Authorization</th>
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</thead>
<tbody>
<tr>
<td>Ericsson Concrete Signpost Foundation for square tubular signposts</td>
<td>Ericsson Manufacturing</td>
<td>10/2019</td>
<td></td>
</tr>
<tr>
<td>King King Block Terminal Post Thrie beam</td>
<td>Trinity Highway Products, LLC</td>
<td>10/2020</td>
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<tr>
<td>Modified King Block 8-in block</td>
<td>Trinity Highway Products, LLC</td>
<td>10/2020</td>
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<tr>
<td>Mondo Block 8-in block</td>
<td>Mondo Polymer Technologies</td>
<td>04/2020</td>
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<tr>
<td>Mondo Block Model MGS14SH 12-in block</td>
<td>Mondo Polymer Technologies</td>
<td>04/2020</td>
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<tr>
<td>Mondo Blocks Models TB 215, TB21U Thrie beam block</td>
<td>Mondo Polymer Technologies</td>
<td>04/2020</td>
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<tr>
<td>P-Block 8-inch Guardrail Block</td>
<td>Monroeville Industrial Molding</td>
<td>04/2020</td>
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<tr>
<td>P-Block MGS 12-in Guardrail Block</td>
<td>Monroeville Industrial Molding</td>
<td>04/2020</td>
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</tr>
<tr>
<td>Pole-Safe Coupler Breakaway 4000 series 5000 series</td>
<td>Transpo Industries, Inc.</td>
<td>10/2019</td>
<td></td>
</tr>
<tr>
<td>Redi-Torque Slip Base System, Model 280 Breakaway</td>
<td>Xcessories Squared Development &amp; Mfg., Inc.</td>
<td>10/2019</td>
<td></td>
</tr>
<tr>
<td>Break-Safe Sign Support System</td>
<td>Transpo Industries, Inc.</td>
<td>10/2019</td>
<td></td>
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<tr>
<td>Model B525 without Hinge Point</td>
<td>Transpo Industries, Inc.</td>
<td>10/2019</td>
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<tr>
<td>Type B call box</td>
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<td>10/2019</td>
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</tr>
<tr>
<td>Type F call box</td>
<td></td>
<td>10/2019</td>
<td></td>
</tr>
<tr>
<td>V-Loc sign &amp; Mailbox Anchoring Sys Breakaway</td>
<td>TAPCO</td>
<td>10/2019</td>
<td></td>
</tr>
</tbody>
</table>

Bridge Rails REFER TO STANDARD PLANS