When completing a collision report form for a collision, it is essential that the "Location" information be collected as accurately as possible. All required data should be provided as outlined in the Crash Report Instruction Manual provided by the North Carolina Division of Motor Vehicles. Failure to provide complete and accurate information can result in inaccurate crash data which is likely to affect the identification of locations in need of safety improvements as well as project funding decisions.

It is also imperative that the investigating agency submit all completed reports to the North Carolina Division of Motor Vehicles within 10 days of the collision as required by North Carolina General Statute 10-166.1.

For more information, call us toll free at 1-877-DOT-4-YOU, or visit our web site at www.ncdot.org

Download the latest version of this brochure at: http://www.doh.dot.state.nc.us/preconstruct/traffic/Safety/reports/Comp/Devices.pdf
**Overview**
This reference guide has been produced by the North Carolina Department of Transportation (NCDOT) to provide law enforcement officials with a more accurate method of assessing actual damages and repair/replacement costs to roadside safety devices to be included on the DMV-349, North Carolina Collision Report form.

By providing a more accurate estimate of actual damages, law enforcement officials can greatly assist the NCDOT in its efforts to recuperate these costs from the appropriate parties.

*All costs included in this guide contain mobilization, traffic control and any other incidental costs associated with making the specified repairs.*

**General Notes**
This reference guide provides general repair and/or replacement cost estimates for common roadside safety devices. However, if damage to a device listed in the guide exceeds or does not match any of the descriptions, please contact the appropriate NCDOT District Engineer†. Your county’s District Engineer can also assign a repair or replacement cost for items not identified in this guide such as damage to a bridge, culvert, signal controller, etc.

**Disclaimer**
This brochure is intended only as a reference guide to provide law enforcement and others with general pricing information for Roadside Safety Devices. Actual repair/replacement cost may vary based upon current pricing at the time of damage.

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**Median Barrier Systems**
There are many different guardrail systems that can be utilized for median barrier protection. These include variations of single faced W-Beam guardrail, 1 double faced W-Beam guardrail 2 and cable guardrail 3. Shown below are representative pictures of each type of median barrier along with cost estimates for repairing/replacing each type.

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**Typical Median Barrier Examples**
1Single Faced W-Beam
2Double Faced W-Beam
3Cable Guardrail

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**Median Barrier Repair Costs**

<table>
<thead>
<tr>
<th>Barier Type</th>
<th>Estimated Cost</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>Single Faced W-Beam</td>
<td>$900 / 25 ft. section</td>
<td>Must be replaced in increments of 25 foot sections (see cost table).</td>
</tr>
<tr>
<td>Double Faced W-Beam</td>
<td>$1,800 / 25 ft. section</td>
<td>Must be replaced in increments of 25 foot sections (see cost table).</td>
</tr>
<tr>
<td>Cable Guardrail</td>
<td>$125 / post</td>
<td>Count the total number of posts damaged and multiply by $125.</td>
</tr>
<tr>
<td>Concrete Jersey Barrier</td>
<td>$2,200 / hit</td>
<td>Cost figure to be used when repair work will be required.</td>
</tr>
</tbody>
</table>

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**Standard Shoulder Guardrail**
For typical guardrail (normally located on the outside shoulders) the repair costs are as follows:

**Guardrail End Treatments & Crash Attenuators**
Guardrail end treatments are located at both the beginning and the end of a section of guardrail and come in many different configurations. Crash attenuators are located at the approaches to bridges or other structures. Replacement costs range from $1,500 to more than $5,000 per end treatment. For the purposes of this guide, $4,000 per end treatment/attenuator will be used as an average cost.

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**Sign Replacement**
Estimated replacement costs for roadway signs are given in the table below and include the cost for both the signs and the posts.

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†To determine which NCDOT District Engineer to call, locate your county on the NCDOT Division Map on the other side of this guide. Cross reference the Division number from the map to the NCDOT District Engineer’s Office Contact list. Locate your county and the appropriate District office.