# Detailed Engineer's Estimate and Cost Breakdown by Countermeasure

**For Construction Items Only**

**Application ID:** Trinity County-03  
**Prepared by:** Alex Mattson  
**Date:** 4/26/2013

**Project Description:** R32: Install chevron signs and curve warning signs

**Project Location:** Throughout Trinity County

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### Item No. | Item Description | Quantity | Units | Unit Cost | Total | % | $ | % | $ | % | $ | % | $
---|---|---|---|---|---|---|---|---|---|---|---|---|---|
1 | Roadside Sign - One Post | 161 | ea | $340.00 | $54,740 | 78.882 | $43,180 | 21.118 | $11,560 |
2 | Install roadside sign | 161 | ea | $1,740.00 | $280,140 | 78.882 | $220,980 | 21.118 | $59,160 |
3 | Mobilization | 1 | ls | $33,886.48 | $33,886 | 100 | $33,886 |
4 | Traffic Control | 40 | hr | $99.00 | $3,985 | 100 | $3,985 |
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16 |  |  |  |  |  |  |  |  |  |
17 |  |  |  |  |  |  |  |  |  |

**Sub Total of Construction Items:** $372,751 | $264,160 | $70,720 | $37,871

**% of "Construction Items only" Cost per Countermeasure**  
(Yellow fields - To be entered in TIMS B/C Calculator)  
71% | CM #1 | 19% | CM #2 | CM #3 | Other Safety | 10% | Non Safety

**Construction Item Contingencies (% of Con Items):**  
Enter in the cell to the right  
20.00% | 74,550

**Total (Construction Items & Contingencies):** 447,400  
(Rounded up to the nearest hundreds)

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7/26/2013
<table>
<thead>
<tr>
<th>Cost Breakdown</th>
<th>Safety-Related Costs</th>
<th>Non Safety-Related Costs</th>
</tr>
</thead>
<tbody>
<tr>
<td>Countermeasure #1</td>
<td>Countermeasure #2</td>
<td>Countermeasure #3</td>
</tr>
</tbody>
</table>

**Engineer's Estimate (for Construction Items Only)**

- **Maximum "HSIP/Total" percentage allowed for Construction**: 90%