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| **Roadside Safety Pooled Fund Program** **Research Problem Statement** | State:  FHWA-87 |
| Title:  Test Level 2, 31” Guardrail in front of 2:1 slopes | |
| Problem Statement:  A recent test was conducted on a 31” high w-beam guardrail with 12’-6” post spacing. This system passed MASH TL-2 and provides a lower cost option for highways where TL-2 is acceptable. On many roads where this system might be desired, there may also be narrow or no shoulders and steep slopes which make placement difficult. A 31”w-beam guardrail that had 6’-3” post spacing was successfully tested with the post on a 2:1 slope and that face of the rail at the slope break point. Combining these 2 efforts, a system that has 12’-6” post pacing and with the posts on a 2:1 slope would provide more flexibility for improving safety on routes with low volumes and/or low speeds. | |
| Objectives of the Study:  Test a 31” guardrail with an 8” blockout at MASH TL-2 conditions with the post on a2:1 slope and the face of the rail at the break point. | |
| Expected Benefits:  The benefits of a rail system with fewer posts and that can be placed on 2:1 slopes is that it will be less expensive and therefore more cost effective on lower volume roads. This may allow barrier to be used where it was not considered practical in the past. | |
| Description of the Proposed Feature to be Tested: *(Be as detailed as possible. Include drawings and/or plans, if available.)*  The system to be tested would be the 31” guardrail with an 8” blockout and using 12’-6” post spacing with the face of rail at the slope break point. | |
| Estimated Cost *(of the feature per linear foot installed):* | Total Estimated Cost of Crash Test:  75,000 |
| Contact Person:  Dick Albin | Telephone:  303-550-8804 |