

**WEST VIRGINIA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
DESIGN DIRECTIVE**

<p>608 MEDIAN AND OUTSIDE SLOPES, OVERLAY PROJECTS <i>April 1, 2004</i></p>

Final cross slope to a median or outside ditch on overlay projects will be 4:1 or flatter. This will be shown on the typical sections of the project plans.

During field review the Designer is to check existing slopes, inlet elevations, etc. Proper bid items and quantities will be included in the project plans to bring the completed project into the 4:1 or flatter slope requirements.

If it is determined that the scope of grading required to achieve the 4:1 minimum slope is such that the median or outside ditch must be completely rebuilt, the Designer shall determine the existing roadway departure accident rate at the location in question. The existing roadway departure accident rate for the location in question will then be compared to the statewide average roadway departure accident rate for other similar roadways.

On projects where both the scope of grading to achieve 4:1 slopes requires reconstruction of the median or outside ditch and there exists a high roadway departure accident rate the Designer shall grade the cross slope to a preferred 6:1 slope with 5:1 as the minimum slope. If the above two conditions exist and the improved cross slopes cannot be obtained the Designer shall provide justification to and obtain approval from the Deputy State Highway Engineer Development for utilizing 4:1 cross slopes.