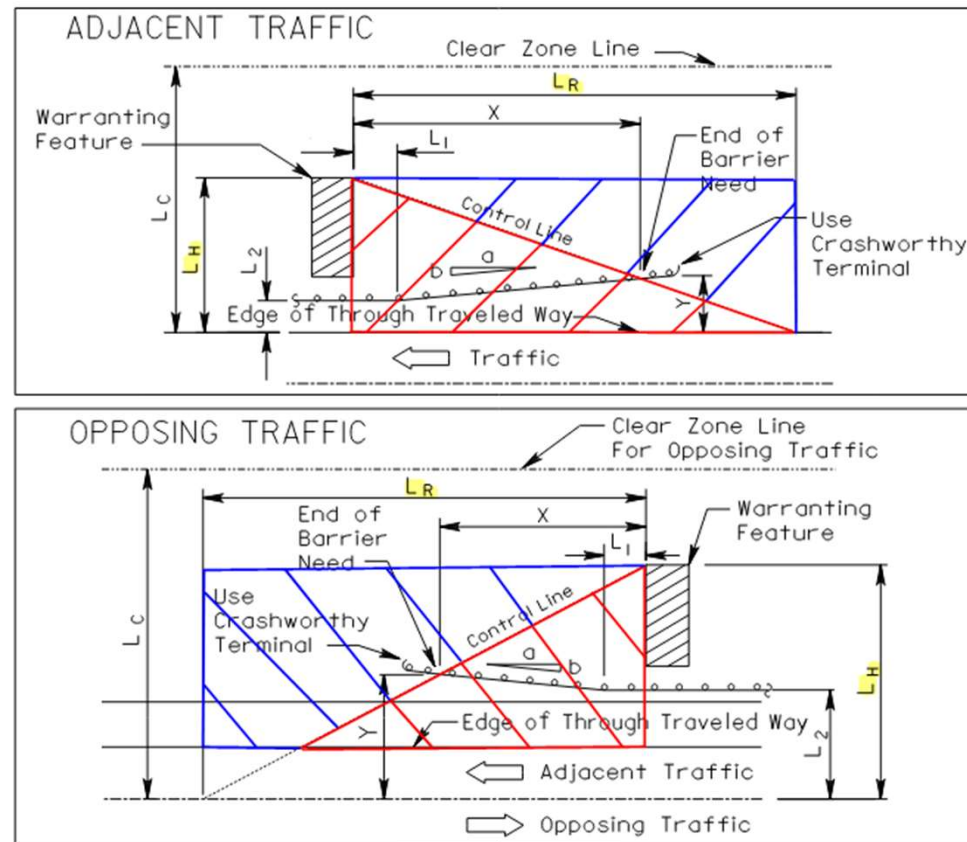


307.2.2 Slope Transitions

When clear zone grading is used to eliminate the need for barrier protection of a fixed object, the clear zone grading shall extend (at a minimum) longitudinally for the distance of the Runout Length ("LR") for the fixed object as determined from [Figure 602-1](#). ~~length of slope transition should be determined using the length of need concept described in [Section 602.1](#)~~. The clear zone measurement should be used for the Lateral Extent of the Hazard ("LH"), which is the minimum lateral limit that clear zone grading is required for the elimination of barrier. The clear zone grading is required throughout the entire rectangular "box" created by the LR and LH on each side of the fixed object. Clear Zone grading should not be utilized unless the required lane and shoulder widths are present.

As shown in these conditions, Clear Zone grading is desirable throughout a roadway corridor. It does little to increase the safety of a roadway if Clear Zone grading is only done on spot projects such as culvert replacements, if the rest of the corridor will be maintained with common grading.

PROPOSED GUIDANCE



If $L_H > L_C$: Substitute L_C in the above formulas.

L&D1 Figure 602-1 (marked up)