# CHAPTER 4 BARRIER DESIGN AND PLACEMENT

#### 4.1 OVERVIEW OF THE AASHTO ROADSIDE DESIGN GUIDE DESIGN PROCESS

Chapter 5 of the AASHTO Roadside Design Guide (RDG) contains roadside barrier layout and design guidance. It is important to understand the philosophy behind the design process presented in the RDG. If a vehicle leaves the roadway at approximately 10 degrees in the vicinity of the upstream end of a roadside barrier and the driver then attempts to correct and return to the pavement, the vehicle could be traveling parallel and behind the barrier. This design process is intended to allow sufficient room for a vehicle to come to a stop before striking the hazard if it should get into this situation. An important part of the layout process is to allow a clear zone behind the barrier upstream of the hazard. This is also an important concept to remember in the construction and maintenance of the roadway.

#### 4.1.1 Design Variables

Figure 4.1 shows the variables that are considered in the RDG design process.

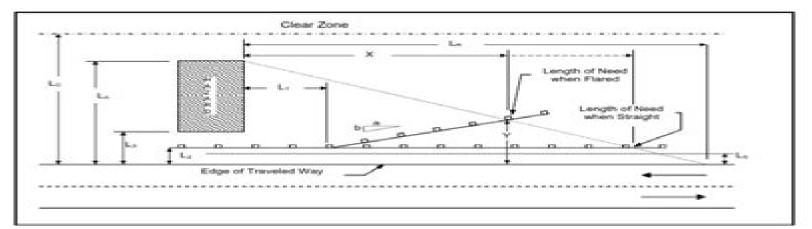


Figure 4.1: Barrier Design Variables

The variables used in the design process are defined below:

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