

## CHAPTER 4 BARRIER DESIGN AND PLACEMENT

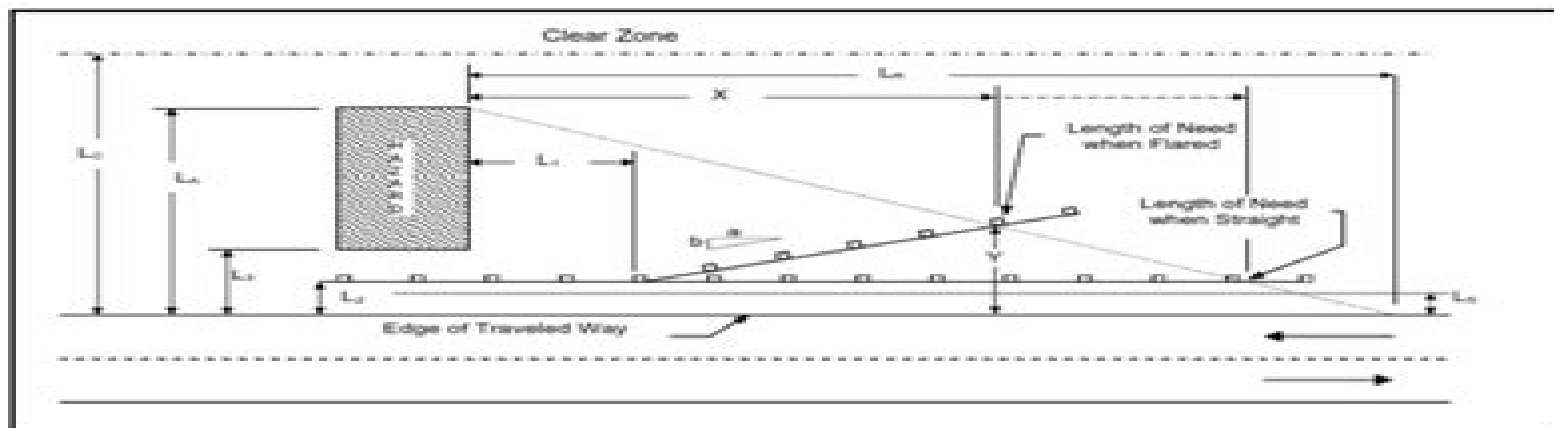
### 4.1 OVERVIEW OF THE AASHTO ROADSIDE DESIGN GUIDE DESIGN PROCESS

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:

# Aashto Roadside Design Guide For Barriers

**Christian Drosten**



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## **Table of Contents Aashto Roadside Design Guide For Barriers**

1. Understanding the eBook Aashto Roadside Design Guide For Barriers
  - The Rise of Digital Reading Aashto Roadside Design Guide For Barriers
  - Advantages of eBooks Over Traditional Books
2. Identifying Aashto Roadside Design Guide For Barriers
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Aashto Roadside Design Guide For Barriers
  - User-Friendly Interface
4. Exploring eBook Recommendations from Aashto Roadside Design Guide For Barriers
  - Personalized Recommendations
  - Aashto Roadside Design Guide For Barriers User Reviews and Ratings
  - Aashto Roadside Design Guide For Barriers and Bestseller Lists

5. Accessing Aashto Roadside Design Guide For Barriers Free and Paid eBooks
  - Aashto Roadside Design Guide For Barriers Public Domain eBooks
  - Aashto Roadside Design Guide For Barriers eBook Subscription Services
  - Aashto Roadside Design Guide For Barriers Budget-Friendly Options
6. Navigating Aashto Roadside Design Guide For Barriers eBook Formats
  - ePub, PDF, MOBI, and More
  - Aashto Roadside Design Guide For Barriers Compatibility with Devices
  - Aashto Roadside Design Guide For Barriers Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Aashto Roadside Design Guide For Barriers
  - Highlighting and Note-Taking Aashto Roadside Design Guide For Barriers
  - Interactive Elements Aashto Roadside Design Guide For Barriers
8. Staying Engaged with Aashto Roadside Design Guide For Barriers
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Aashto Roadside Design Guide For Barriers
9. Balancing eBooks and Physical Books Aashto Roadside Design Guide For Barriers
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Aashto Roadside Design Guide For Barriers
10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine Aashto Roadside Design Guide For Barriers
  - Setting Reading Goals Aashto Roadside Design Guide For Barriers
  - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Aashto Roadside Design Guide For Barriers
  - Fact-Checking eBook Content of Aashto Roadside Design Guide For Barriers
  - Distinguishing Credible Sources
13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
- Exploring Educational eBooks

### 14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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