

CHAPTER 3 BARRIER SELECTION

3.1 BARRIER TYPES

There are a number of barrier types available for use by the Federal Lands Division, each with unique performance, cost, aesthetic and maintenance characteristics. Barriers discussed in this section are listed below. The data tables in Appendix B contain detailed information about each barrier system.

Table 3.1: Roadside Barrier Systems

System	Designation	Test Level
Three-Strand Cable	G1	TL-3
High-Tension Cable	HTC	TL-3
Weak Post W-Beam	G2	TL-2
Box Beam	G3	TL-3
Strong Post W-Beam	G4	TL-3
Thrie-Beam	G9	TL-3
Modified Thrie-Beam	G9M	TL-4
Concrete Safety Shape	CSS	TL-4
Steel-Backed Log Rail	SBL	TL-2
Steel-Backed Timber Rail	SBT	TL-3
Precast Concrete Guardwall, Type 1	PCG	TL-3
Stone Masonry Guardwall	SMG	TL-3
Random Rubble Cavity Wall	RCW	TL-1

TL-1 barriers are tested at 50 km/h (30 mph), TL-2 barriers are tested at 70 km/h (45 mph) and TL-3 barriers are tested at 100 km/h (62 mph). TL-4 barriers meet TL-3 conditions and are also tested with an 8000 kg (17,600 lb) single unit truck at 80 km/h (50 mph). All of the above barriers are crashworthy for the conditions that they were tested under.

Photographs of many of these systems follow.

Figure 3.1: Three-Strand Cable, G1

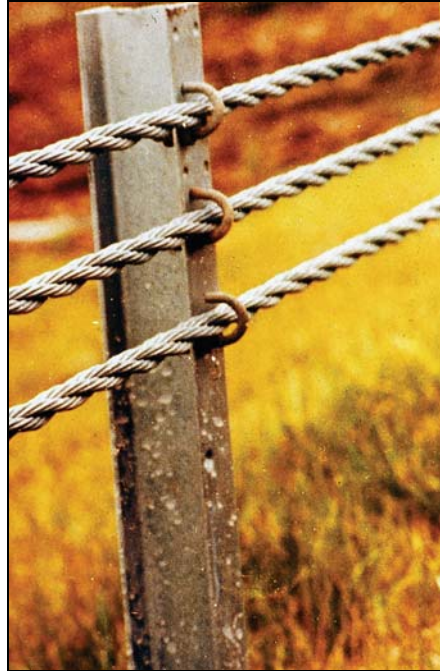


Figure 3.2: High-Tension Cable, HTC



Figure 3.3: Weak Post W-Beam, G2



Figure 3.4: Box Beam, G3

