

ROADSIDE TERRAIN FIGURE 1

* Roadside Slopes shown in Figure 1 are for Maintenance and Permitting purposes when establishing Clear Zone requirements. For FDOT Standard Roadside Slopes, refer to Volume 1, Chapter 2 of the Plans Preparation Manual.

TABLE A MINIMUM RECOVERABLE TERRAIN (ft)

Design Speed (mph)	Travel Lanes & Multilane Ramps	Auxiliary Lanes & Single Lane Ramps
<45	18	10
45	24	14
50	24	14
55	30	18
>55	36	24

TABLE B RESTRICTING CONDITIONS

- The facility is an urban facility.
- The facility's design speed is 45 mph or less. The facility is predominantly a curbed facility.
- The distance from the traveled way to the R/W line is less than the value obtained in STEP 2.

DEFINITIONS

<u>Roadside Terrain</u> includes all surfaces along the roadway adjacent to the traveled way. For the purpose of establishing clear zones and horizontal clearance requirements, roadside terrain is defined as recoverable, traversable, traversable nonrecoverable, nontraversable, and hazardous as

<u>Clear Zone</u> is the relatively flat unobstructed area that is to be provided for safe use by errant vehicles, and must be wide enough so that the sum of all the recoverable terrain within is equal to or greater than the value obtained in STEP 2. Recoverable terrain provided beyond nonrecoverable terrain must be a minimum of 10 feet. Areas beyond nontraversable and hazardous terrain cannot be used as recoverable or traversable nonrecoverable terrain.

Horizontal Clearance Requirements are shown in Table C and are the required offsets to an object from a specified point on the roadway.

Recoverable when it is safely traversable and on a slope that is 1v:4h or

Traversable when the slope is 1v:3h or flatter.

Traversable Nonrecoverable when it is safely traversable and on a slope that is steeper than 1v:4h but not steeper than 1v:3h.

<u>Nontraversable</u> when it is not safely traversable or on a slope that is steeper than 1v:3h.

<u>Hazardous</u> when a slope is steeper than 1v:3h and deeper than 6 feet as shown in Figure 2.

PROCESS FOR DETERMINING HORIZONTAL CLEARANCE

LAST **REVISION** 07/01/13

DESCRIPTION:

2016 **DESIGN STANDARDS**

INDEX NO. 700

SHEET NO. 1 of 2

TABLE C

OBJECTS, OBSTRUCTIONS OR CONDITIONS

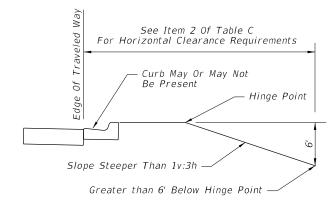
HORIZONTAL CLEARANCE REQUIREMENTS

Nonrestricted

Restricted (See Table B)

GENERAL NOTES

- When shielding an object and sidewalks are present, an unobstructed sidewalk width of at least 4 feet must be provided.
- 2. When site specific conditions prohibit meeting the horizontal clearance requirements in TABLE C, the object, obstruction or condition must be crashworthy or mitigated, possibly by shielding. Otherwise, see the Plans Preparation Manual, Volume 1, Chapters 2, 4, 21, 23 and 25.



DROP-OFF HAZARDS FIGURE 2

LAST 07/01/14

DESCRIPTION:

CATEGORY

No.

