

ROADSIDE TERRAIN FIGURE 1

* Roadside Slopes shown in Figure 1 are for Maintenance and FDOT Standard Roadside Slopes, refer to Volume 1, Chapter 2 of the
Plans Preparation Mantal Plans Preparation Manual.


## DEFINITIONS

Roadside Terrain includes all surfaces along the roadway adjacent to the
traveled way. For the purpose of establishing clear zones and horizontal learance traversa:
follows:
Clear Zone is the relatively flat unobstructed area that is to be provided
for safe sese by errant vehicles. and must be wide enough so that the sum
of all the recoverable terrain with in in is equal to of all the recoverable terrain within is equal to or greater than the valu
obtained in STEP 2. Recoverable terrain provided beyond nonrecoverable obrrain must be a minimum of 10 feet. Areas beyond nontraversable and
hazardous terrain cannot be used as recoverable or traversable
Horizontal Clear ance Requirements are shown in 7 able $C$ and are the
required offsets to an object from a specified point on the roadway. $\frac{\text { Recoverable }}{\text { flatter. }}$ when it is safely traversable and on a slope that is 1v:4h or Traversable when the slope is 1v:3h or flatter.

Traver sable Nonrecoverable when it is safely traversable and on a slope
that is steeper than IV:4h but not steeper than 1v:3h. $\frac{\text { Nontraver sable when it is not safely traversable or on a slope that is }}{\text { steeper than Iv: } 3 h \text {. }}$ Hazardous when a slope is steeper than 1v:3h and deeper than 6 feet as
shown in Figure 2.
process for determining horizontal clearance

| $\begin{gathered} \text { LAST } \\ \text { REVISION } \\ 07 / 01 / 13 \end{gathered}$ | \|r|ceren | (taOT 2014 | ROADS IDE OFFSETS |
| :---: | :---: | :---: | :---: |


|  | TABLE C |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| CATEGORY | ¢ $\begin{gathered}\text { Item } \\ \text { No. }\end{gathered}$ | OBJECTS, OBSTRUCTIONS OR CONDITIONS |  | HORIZONTAL CLEARANCE <br> Restricted (See Table B) | REQUIREMENTS ${ }_{\text {Nonrestricted }}$ |
| GENERAL | 1 | Above ground fixed hazards: All roadside objects, obstructions or conditions other than those listed below errant vehicles and vehicle occupants. |  | Locate as close to the Right of Way as practical and not less than 4 feet from face of curb. | Locate outside the clear zone as close to the Right of Way as practical. |
|  | 2 | Drop-off hazards: Any point along a roadside slope steeper than $1 v: 3 h$ that is deeper than 6 feet below the hinge point. See Figure 2. |  | Locate the point that is 6 feet below the hinge point no less than 22 feet from the edge of traveled way. | Treat as roadside slopes in accordance with Design Standard, Index 400. |
| ROADWAY | 3 | All FDOT approved guardrails, guardrail end terminals, crash cushions, and concrete barriers (temporary or permanent). |  | Locate as shown in the Design Standards. |  |
|  | 4 | Mailboxes | Design Standard, Index 532 | Locate in accordance with Design Standard, Index 532. |  |
|  | 5 |  | Not Shown in Design Standard, Index 532 | Not to be used. |  |
|  | 6 | Trees | Expected to become greater than 4 inches in diameter ground). | Outside roadways: Locate no less than 4 feet from face of curb in accordance with Design Standard, Index 546. <br> Inside medians: Locate no less than 6 feet from the edge of traffic lane and in accordance with Design Standard, Index 546. | Locate outside the clear zone as close to the Right Of Way as practical and in accordance with Design Standard, index 546. |
|  | 7 |  | Not expected to become greater than 4 inches in diameter measured 6 inches above the ground). | Locate in accordance with Design Standard, Index 546. |  |
|  | 8 | Canals | Behind guardrail. | Locate no less than 5 feet from the back of the guardrail post. |  |
|  | 9 |  | Unshielded | Locate as close to the Right of Way as practical and not less than 40 feet from the edge of traveled way. | Design Speeds of 50 mph and greater: Locate as close to the Right Of Way as practical and not less than <br> Design speeds less than 50 mph : Locate as close to the Right of Way as practical and not less than 50 feet from the edge of traveled way. |
| DRAINAGE | 10 | Culvert wing walls, walls and flared end sections | less than or equal 6 feet deep. | Locate no less than 4 feet from face of curb. | Locate outside the clear zone. |
|  | 11 |  | greater than 6 feet deep. | Treat as drop-off hazard; See Item No. 2. |  |
|  | 12 | mitered end sections. |  | Locate as shown in Design Standard, Index 273 and Index 273. |  |
| TRAFFIC CONTROLDEVICES | 13 | Frangible or breakaway sign supports. |  | Locate in accordance with Design Standard, Index 17302. |  |
|  | 14 | Overhead sign supports and other nonfrangible signs. |  | Locate no less than 4 feet from face of curb. | Locate outside the clear zone |
|  | 15 | Traffic infraction detectors, signal controller cabinets, signal poles, strain poles and mast arms |  | Locate no less than 4 feet from face of curb and not in medians. | Locate outside the clear zone and not in medians. |
| Lighting | 16 | Conventional lighting (frangible and nonfrangible). |  | Locate no less than 4 feet from face of curb and only on barrier walls in medians. | Locate 20 feet from travel lanes or 14 feet from auxiliary lanes. Not in medians. May be clear zone width when the clear zone is less than 20 feet. |
|  | 17 | Highmast lighting |  | Not applicable | Locate outside the clear zone. |
| Structures | 18 | Bridge piers and abutments: Above ground vertical structures. |  | Locate not less than 16 feet from edge of traveled | Locate outside the clear zone. |
| UTILITIES | 19 | Fire hydrants with bases no higher than 4 inches above ground. |  | Locate not less than 2 feet from face of curb. | Locate as close to the Right Of Way as practical. |
|  | 20 | Aboveground fixed Utilities (AFUS). |  | New AFUs placed no closer than 4 feet from the face of curb and as close to the R/W as practical | New AFUs are to be outside the Clear Zones established using Table A Recoverable Terrain and as close to the R/W line as practical |
| RAILROADS | 21 | Railroad crossing traffic control devices. |  | Locate in accordance with Design Standard, Index 17882. |  |

## GENERAL NOTES

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

## DROP-OFF HAZARDS

fIGURE 2

