# Index 102-100 Series - Temporary Barrier

## Design Criteria

***Manual on Uniform Traffic Control Devices* (*MUTCD*); *Standard Plans***, *Index 102-600*; ***FDOT Design Manual (FDM)***; ***AASHTO Roadside Design Guide (AASHTO RDG)***, *4th Edition*; ***AASHTO Manual for Assessing Safety Hardware***, *2016 Edition* (***MASH***)

## Design Assumptions and Limitations

A. General:

For the use of Temporary Barrier, see ***Specification 102***, ***Standard Plans, Index 102-600*** and ***FDM 215***.

***Index 102-100*** provides requirements that are applicable to all types of Temporary Barrier (i.e., concrete, steel, and water-filled), except Low Profile Barrier. For Low Profile Barrier, see ***Index 102-120***.

Trailer Mounted Barriers may be used to provide positive protection for workers within the work areas. APL drawings may be used as guide to develop project specific Temporary Traffic Control Plans that are signed and sealed by the Contractor's Engineer.

Based on project constraints, determine whether Temporary Barrier should be free-standing or anchored. This does not apply to Low Profile Barrier.

When calculating quantities for relocating Temporary Barrier, use free-standing or anchored according to the proposed condition of the Temporary Barrier. This does not apply to Low Profile Barrier.

B. Shielding Hazards - Determining Begin/End Temporary Barrier Stations:

The standard method of determining Temporary Barrier placement for shielding hazards is based on the Runout Length and the Length of Need calculation in the ***AASHTO RDG***.

See the FDOT 'Temporary Barrier Length of Need (LON)' program for additional information and assistance with determining Begin/End Temporary Barrier Stations for shielding various hazard configurations. The program is located under Design Tools on the ***Standard Plans*** website.

To ensure proper redirective capacity, include a minimum length of 200 feet of temporary barrier. Unless anchored, extend temporary barrier installations a minimum of 100 feet past the work zone or hazard. If constrained conditions are present, provide the maximum length possible, provided that any installations with a total length of barrier less than 200 feet is anchored.

## Plan Content Requirements

Designate location(s) where Temporary Barrier is to be used along with installation requirements (i.e., free-standing, anchored, or Low Profile Barrier).

Do not specify the type of Temporary Barrier (i.e., concrete, steel, or water-filled) or components thereof unless otherwise required by the ***Standard Plans*** or ***FDM*** (e.g., drop-off criteria, setback requirements, etc.).

In the Structures Plans:

Show and label Temporary Barrier on the Construction Sequence drawings and other sheets as required. Show offsets to drop-offs, above ground hazards and adjacent lanes as appropriate.

In the Roadway Plans:

Show and label Temporary Barrier on the Temporary Traffic Control Typical Plans and other sheets as required. Show offsets to drop-offs, above ground hazards and adjacent lanes as appropriate.

## Payment

| Item number | Item Description | Unit Measure |
|---|---|---|
| 102- 71- 13 | Temporary Barrier, F&I, Low Profile Concrete | LF |
| 102- 71- 15 | Temporary Barrier, F&I, Anchored | LF |
| 102- 71- 16 | Temporary Barrier, F&I, Free-Standing | LF |
| 102- 71- 23 | Temporary Barrier, Relocate, Low Profile Concrete | LF |
| 102- 71- 25 | Temporary Barrier, Relocate, Anchored | LF |
| 102- 71- 26 | Temporary Barrier, Relocate, Free-Standing | LF |

See the ***BOE*** and ***Specifications 102*** for additional information on payment, pay item use and compensation.