Index 700-010 Single Column Ground Signs

Design Criteria

AASHTO LRFD Specifications for Structural Supports for Highway Signs, Luminaires and Traffic Signals (LRFDLTS-1); Structures Manual (SM), Volume 3, FDOT Modifications to LRFDLTS-1; Structures Manual (SM) Introduction, I.6 References; FDOT Design Manual (FDM)

Both fabricated and cast base assemblies were impact tested by the *Texas Transportation Institute (TTI)*, College station, TX on February 10, 2003, and both alternate assemblies were determined to be compliant with the performance recommendations of the *National Cooperative Highway Research Program (NCHRP) Report 350*.

Design Assumptions and Limitations

See notes on *Index 700-010*, *FDM 230*, *FDM 261*, and the *Structures Manual (SM)*, Volume 3.

Index 700-010 contains instructions for the contractor to select the appropriate post size given the sign dimensions in the Plans.

The rectangular unidirectional slip-base sign support system can be used with any single post up to a mass of 45 lb/ft.

Foundation designs are based on the following conservative soil criteria which cover the majority of soil types found in Florida:

Classification = Cohesionless (Fine Sand)

Friction Angle = 30 degrees

Unit Weight = 50 pcf (assumed submerged)

Plan Content Requirements

See the *FDM 325*.

Payment

| Item number | Item Description | Unit Measure |
|-------------|--------------------------------------|--------------|
| 700-1-1B | Single Post Sign (F&I, Ground Mount) | AS |

See the **BOE** and **Specification 700** for additional information on payment, pay item use and compensation.