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 soil criteria which results in foundation depths consistent with past performance:

Classification = Cohesionless (Fine Sand)

Friction Angle = 30 degrees

Unit Weight = 115 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.