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 maximum sign width is 60 inches to prevent sign flutter during wind events.

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 940***.

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.