DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

SUPPLEMENTAL SPECIFICATION

Section 638—Structural Supports for Overhead Signs

Delete Subsection 638.1.01 and substitute the following:

638.1.01 Definitions

Structural supports for overhead signs are defined generally as follows:

Type	Description
I	A SIGN BRIDGE type structure that spans the roadway with more than two horizontal chords supported by two columns, one at each end. Each column shall have at least two braced vertical members.
II	A CANTILEVER type structure with two or more horizontal chords supported by a single column at one end.
III	A BUTTERFLY type structure with two or more horizontal chords extending an equal distance in opposite directions from a single column.
IV	A COMBINATION (Bridge-Cantilever) type structure with more than two horizontal chords supported by two columns, only one at one end and one at an intermediate point. Each column shall have at least two braced vertical members.
V	A CANTILEVER type structure with a maximum of two horizontal chords supported by a single column at one end.
VI	A SIGN BRIDGE type structure that spans the roadway with a maximum of two horizontal chords supported by two columns, one at each end.
VII	A BRIDGE MOUNTED (attached to a highway bridge) structural frame.
VIII	A BUTTERFLY type structure with a maximum of two horizontal chords extending an equal distance in opposite directions from a single column.

Type II and V structures' maximum horizontal dimension shall be 32 ft (9.75 m). The horizontal dimension is measured from the column's centerline to the furthest point of the structure or sign.

Type III and VIII structures' maximum horizontal dimension shall be 25 ft (7.6 m). The horizontal dimension is measured from the furthest point of the structure or sign on one side to the furthest point of the structure or sign on the other side. Place the sign(s) on the structure to create a slightly unbalanced condition about the column's centerline during wind loads.

Types V, VI, and VIII structural supports shall be used with flat sheet aluminum signs. If the vertical dimension of the largest sign is 42 in (1050 mm) or less, one horizontal chord may be used.

A walkway is required only when called for on the signing plans.

Delete the introductory paragraphs under Subsection 638.1.03, Submittals, and substitute the following:

Submit to the Engineer 6 sets of shop drawings [(12 in x 18 in (305 x 457 mm)] half size plan sheets) and 2 sets of design calculations [8.5 in x 11 in (216 x 297 mm)] sheets, neatly bound and indexed] for the Structural Supports, anchor bolt assemblies, and foundations for review and approval. Also send a copy of your transmittal letter to the State Traffic Safety & Design Engineer.

Detail the shop drawings to permit replacement of all members and include all dimensions, construction tolerances, elevations at top and bottom of foundations, and sizes of members. The shop drawings shall include the material designations of the structure and of the hardware for attaching the sign, the lane delineation of the roadway under the structure, and the walkway (when required by the signing plans). See Figure 1, Figure 2, and Figure 3.

Delete Subsection 638.1.03.B and substitute the following:

B. Walkways

When walkways are required by the signing plans, place walkways in front of the signs and extend them at least 1 ft (300 mm) outside of the edge of all overhead signs and at least 2 ft (600 mm) outside of the right edge of paving, or as directed by the Engineer. Provide walkways in front of the lower front chord, and do not locate a portion higher than the lowest part of any sign. Make the walkway continuous from end to end with a railing along the front side that can be folded down flush with the walkway when not in use.

Delete Subsection 638.2.D and substitute the following:

D. Concrete Foundations

Class A concrete shall comply with Section 500.

Reinforcement steel shall comply with Section 853, Grade 60 (420).