

STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	472-85066	2014	226	388

ALUMINUM

GENERAL

DESIGN: AASHTO Standard Specifications for Structural Supports for Highway Signs, Luminaires and Traffic Signals, 2009 Edition with current interims.

SHOP DRAWINGS: Before any fabrication is begun under the Contract, the Contractor or Fabricator shall submit a set of complete shop drawings to the Engineer for approval. The Contractor shall be responsible for the correctness of his drawings, for shop fit-ups and field connections, after the drawings have been approved by the Engineer.

DIMENSIONAL TOLERANCE: All material, in addition to conforming to the appropriate ASTM requirements listed, shall not vary from the plan dimensions by more than +/-2%.

PIPE: Aluminum pipe for members ① & ② shall conform to ASTM B241, or B429, alloy 6061-T6. No pipes may be spliced except as noted below.

FIELD SPLICES: Member ①, in the truss and end supports may be spliced, only as necessary due to the limitations of standard stock lengths, handling or transportation requirements. These splices shall be made using Slip-On Aluminum Welding Flanges, 300 Lb. ASA, ASTM B247, alloy 6061-T6, flat faced or flanges made from aluminum plate ASTM B209, alloy 6061-T6.

PLATE: All aluminum plate shall conform to ASTM B209, alloy 6061-T6, T62, or T651.

CAP: Caps shall be Gustin-Bacon No. 70, or other approved flat cap. Flat aluminum caps may be used.

BOLTS: All high strength bolts, nuts, and washers shall conform to ASTM A325 and shall be hot-dip galvanized to meet the requirements of ASTM A153, Class C. One washer shall be used under the turned element. All miscellaneous fasteners necessary for sign mounting, walkway, and ladder shall conform to the "Standard Specifications for State Road and Bridge Construction" and shall be coated. Stainless steel bolts may be used in lieu of coated bolts. Bolts shall have single self-locking nuts or double nuts. Beveled washers shall be used where bearing faces have a slope of more than 1:20 with respect to a plane normal to the bolt axis. Beveled washers may be clipped.

DIRECT TENSION INDICATORS: DTIs are to comply with the requirements of the latest edition of ASTM F959 for the ASTM A325 bolts. The DTIs on the anchor rods are to comply with the requirements of the latest edition of ASTM F2437. Installation will adhere to the KDOT Standard Specifications.

WELDING AND FABRICATION: Welding and fabrication shall be in accordance with the latest edition of American Welding Society Specification D1.2 Structural Welding Code - Aluminum. Only ER5556 electrode filler metal shall be used, except for casting - utilize ER4043 for casting.

SIGN MOUNTING AND WALKWAY

ALUMINUM GRATE: Grate shall conform to ASTM B221, alloy 6061-T6 and shall be a pressure lock design. It shall have 1/2" x 3/16" bearing bars at 1 3/16" centers and 1/2" x 3/16" cross bars at 4" centers. Use of an equivalent reticulated grating system is an acceptable alternate.

ALUMINUM PIPE: Pipe shall conform to ASTM B241 or B429, alloy 6061-T6 or 6063-T6.

ALUMINUM SHAPES: Shapes shall conform to ASTM B308 or ASTM B221, alloy 6061-T6.

LADDER

ALUMINUM BARS AND RODS: Bars and rods shall conform to ASTM B211 or ASTM B221, alloy 6061-T6 or alloy 6063-T6.

ERECTION AND DEMOLITION

ERECTION PLANS: This is a Category A Structure. Submit detailed Erection Plans to the Field Engineer per KDOT Specifications. The seal of a Licensed Professional Engineer is not required.

DEMOLITION PLANS: This is a Category A Demolition. Submit detailed Demolition Plans to the Field Engineer per KDOT Specifications. No Demolition work will begin without approved Demolition Plans. The seal of a Licensed Professional Engineer is not required.

Std. Base File:
 Plotted By: cp
 File: A200909521\Overhead Signing - KDOT\EN35700\POS09.dgn
 Plot Date: 30-DEC-2013 16:22

2	5/11/11	Removed steel truss notes Update other notes	KMP	TLF
1	3-26-96	Changes to grating note	LES	KFH
NO.	DATE	REVISIONS	BY	APP'D

KANSAS DEPARTMENT OF TRANSPORTATION				
STANDARD STRUCTURAL SIGN SUPPORTS				
SPAN TYPE OVERHEAD				
GENERAL NOTES AND SPECIFICATIONS				
SL151A-01				
FHWA APPROVAL	6-9-2011	APP'D	Terry L. Fleck	
DESIGNED	BFM	DETAILED	RDH	QUANTITIES
DESIGN CK.	RDH	DETAIL CK.	LES	QUAN. CK.
CADD	BY	CADD	CK.	DCB