

DATE: December 7, 2021
TO: Paul Zachary, Engineering Services Department Director
FROM: Henry Som de Cerff, Design Manager
SUBJECT: Standards and Specifications for Section 608 – Traffic Signs
Approved by Committee: August 10, 2021

The Specification Review Committee recommends and asks the Engineering Services Department Director to approve the following:

1. Modify Section 608 – Traffic Signs

Please call me at (918) 596-7355 if you have any questions.

Thank you.

APPROVED:

Paul Zachary
Paul Zachary, Director

12.28.21
Date

Cc: Engineering Services Department Specification Review Committee

DIVISION VI

TRAFFIC SPECIFICATIONS – MATERIALS

PART 608 – TRAFFIC SIGNS

608.1 GENERAL

- 608.1.1 This work shall consist of furnishing materials and installing traffic signs in accordance with these specifications and in reasonably close conformity with the location and dimensions shown on the Standards, Plans, or established by the Engineer.
- 608.1.2 Signs shall be designed in accordance with the 2009 Manual on Uniform Traffic Control Devices (MUTCD) with revisions and the 2004 FHWA Standard Highway Signs (2012 Supplement to the 2009 MUTCD).
- 608.1.3 Street name sign proofs shall be submitted to the Traffic Engineer for review and approval prior to fabrication.

608.2 MATERIALS

- 608.2.1 General: Signs shall be composed of aluminum metal sheeting overlaid with cut-out film and a reflective sheeting material. Mounting shall be with posts, hardware and brackets as specified.
- 608.2.2 Sheet Aluminum: Provide 0.080-ga sheet aluminum signs in accordance with ASTM B209, alloy 6061-T6 or alloy 5052-H38 with mill finish. Use the dimensions, filleted corners, and hole, filleted corners, and hole sizes and locations as shown on the sign standards, with the following exceptions: All holes shall be 3/8" diameter, and all corner radiuses shall be 1 1/2". Ensure panels are flat and straight within commercial tolerances. Treat sheet aluminum signs with a chromate type chemical conversion coating in accordance with ASTM B449, Class II.
- 608.2.3 Reflective Sheeting:
 - A) Post-Mounted Signs: Sheeting shall be High Intensity Prismatic meeting ASTM D4956 Type III / IV (3M 3930 or approved equal).
 - B) Mast-Arm Mounted Signs: Sheeting shall be Diamond Grade meeting ASTM D4956 Type XI (3M DG3 or approved equal).
 - C) All sheeting shall have a Class I adhesive backing.
- 608.2.4 Overlay: Electronic cuttable sign film designed for use with electronic sign plotters (3M ElectroCut Series 1170 Film or approved equal).
- 608.2.5 Mounting Hardware: Bolts, nuts, washers, brackets, and all other hardware needed for mounting shall be suitable for long-term outdoor use:

A) Bolts: 5/16" x 3", hex head

B) Nuts: Flanged, self-locking, size as needed

C) Washers: 3/4" O.D., maximum

D) Brackets: For mast-arm mounting, use a prefabricated mounting system (Pelco Structural Astro-Bracket® or approved equal). See City of Tulsa Standard Drawing 616.

608.2.6 Posts: Signposts shall be perforated square tube (Telespar® or approved equal). Signs shall be composed of new hot-rolled carbon sheet steel, structural quality, ASTM A1101. Provide a finish that is in-line, hot-dip galvanized zinc coating in accordance with AASHTO M 120, followed by a chromate conversion coating, and a clear organic exterior coating. Provide posts with 1/2" (± 1/16") diameter holes spaced 1" on center along the center of each of the four sides.

608.3 CONSTRUCTION METHODS

608.3.1 General: Construction methods shall involve fabrication and mounting of the sign to the appropriate type mount.

608.4 METHOD OF MEASUREMENT

608.4.1 Signs of the size and type specified will be measured by the square foot of area of the vertical front face with no deduction for rounded corners or bolt holes.

608.4.2 Posts of the size specified will be measured by the linear foot between the ends of the installed post.

608.5 BASIS OF PAYMENT

608.5.1 Accepted signs, measured as provided above, will be paid for at the contract unit price as follows:

608.5.2 Signs:

Ground Sign.....	SQUARE FOOT
Overhead Sign.....	SQUARE FOOT

Such payment shall be full compensation for furnishing all materials, equipment, labor, and incidentals required to complete the work as specified.

608.5.3 Posts:

1-1/2" Signpost.....	LINEAR FOOT
1-3/4" Signpost.....	LINEAR FOOT

2" Signpost.....LINEAR FOOT

Such payment shall be full compensation for furnishing all materials, equipment, labor, and incidentals required to complete the work as specified.