



MEMORANDUM

TO: All District Engineers

DATE: September 23, 2008

FROM: Carlos A. Lopez, P.E. *Carlos A. Lopez, P.E.*

SUBJECT: Typical Sign Requirements (TSR) and Sign Mounting Details (SMD) Standard Sheets

The Traffic Operations Division (TRF) has revised the Typical Sign Requirements (TSR) and Sign Mounting Detail (SMD) standard sheets. The revisions were necessary to bring the standard sheets up to date with current practice. The revised sheets should be used starting with the January 2009 letting.

A summary of the revisions are listed below:

TSR (1)-08

- Black Legend and Borders material option of vinyl changed to acrylic non reflective material.
- Added DMS 8305 Fiberglass Interlocking Sign Substrate.
- Removed DMS 7100 Plywood Sign Blanks as a substrate.
- Removed requirement that Type D Sheeting be Type VIII or IX only.
- Updated web links.
- Clarified border and radii note.
- Removed duplicate set of general notes.

TSR (2)-08

- Black Legend and Borders material option of vinyl changed to acrylic non-reflective material.
- Parent sign face attachments should be direct applied unless otherwise noted; this includes yellow exit style attachments.
- Removed DMS 7100 Plywood Sign Blanks as a substrate.
- Removed requirement that Type D Sheeting be Type VIII or IX only.
- Added a note clarifying placement of routing plaques on parent sign.
- Updated web links.
- Changed sheeting requirements for exit only and left exit panels to Type E.

TSR (3)-08

- Condensed TSR (3)-03, TSR (4)-03, and TSR (5)-03 to 2 sheets: TSR (3)-08 and TSR (4)-08.
- Removed DMS 7100 Plywood Sign Blanks as a substrate.
- Added DMS 8305 Fiberglass Interlocking Sign Substrate.
- Added blue and brown series guide signs to green guide sign requirements.
- Added note requiring that white legend and borders for large ground mount and brown and blue small roadside guide signs shall be cut-out white sheeting applied to colored background. Green small roadside signs already follow this requirement.
- Removed requirement that Type D Sheeting be Type VIII or IX only.

- Added note addressing rounded corners on D and I series signs.
- Clarified border and radii note.
- Updated web links.

TSR (4)-08

- Black Legend and Borders material option of vinyl changed to acrylic non-reflective material.
- Removed DMS 7100 Plywood Sign Blanks as a substrate.
- Removed requirement that Type D Sheeting be Type VIII or IX only.
- Clarified warning sign note regarding colored legend and symbols.
- Added typical sign requirements for school signs.

TSR (5)-08

- Renamed TSR (6)-03 to TSR (5)-08.
- Modified arrow details for 8" letters.
- Added reference note for minimum blank thickness intended for attachments.
- Added note that direct applied sign attachments are subsidiary to "aluminum signs" or "fiberglass signs".
- Added note to furnish Type A aluminum sign attachments only when specified in plans.
- Added punch/mounting details for exit only style attachments.

SMD (GEN)-08

- Split Anchor Type WA into WS for steel or WP for High Density Polypropylene (HDPE).
- Modified median detail to include curb and gutter.
- Added drawing illustrating reference markers mounted below 7 feet.

SMD (SLIP-1)-08

- Triangular slipbase is shown as generic with reference to the Material Producer List.
- Relocated extension details to SMD (SLIP-2)-08.
- Removed locking collar and roll pin options.
- Added note to follow manufacturers' installation procedures.
- Added multidirectional note.
- Require 7" x ½" rod for base and included dimensions.
- Clarified hand mixed concrete note.
- Added note requiring 4 day cure time unless Engineer directs otherwise.

SMD (SLIP-2)-08

- Added the sign post extension and connecting details from SMD (SLIP-1)-03.
- Added friction cap detail and note.
- Removed plywood option.
- Clarified note 6 to pertain to flat aluminum.

SMD (SLIP-3)-08

- Added sign post extension and connecting details.
- Removed spliced sign details.
- Added extruded aluminum mounting details for U and T supports.

- Removed plywood option.
- Clarified note 6 to pertain to flat aluminum.
- Added additional stiffener note for signs greater than 10 feet.
- Added note requiring friction caps on all open ended supports and extensions.

SMD (TWT)-08

- Added the High Density Polypropylene (HDPE), Socket System drawing.
- Removed splice plate details.
- Removed T extension details.
- Added hand mixed concrete note.
- Added note requiring 4 day cure time unless Engineer directs otherwise.
- Updated web links.

SMD (FRP)-08

- Added note for friction cap.
- Added hand mixed concrete note.
- Added note requiring 4 day cure time unless Engineer directs otherwise.
- Updated web links.

SMD (2-1)-08

- Removed plywood wind beam tables.
- Added flat washers for connecting extruded aluminum panels together.
- Added note to follow manufacturer's recommendations when installing fiberglass signs.

SMD (2-2)-08

- Added note to contact Traffic Operations Division for approved alternative fuse plates.

SMD (2-3)-08

- Added sign plaque mounting detail.
- Clarified installation and location notes to address maximum sign heights.
- Added optional note to cope detail.
- Modified 6 inch extrusion placement note to allow placement on top or bottom of sign.
- Changed minimum clearance for signs mounted behind guardrail from 2 feet to 5 feet.
- Added note to follow manufacturer's recommendations when installing fiberglass signs.

SMD (2-4)-08

- Added sign plaque mounting detail.
- Modified 6 inch extrusion placement note to allow placement on top or bottom of sign.
- Added note to follow manufacturer's recommendations when installing fiberglass signs.

SUMMARY OF SMALL SIGNS

- Removed plywood column.
- Added HDPE socket option.
- Removed columns for background and legend sheeting. This is fabrication information and is found on the TSR sheets.

SUMMARY OF LARGE SIGNS

- Removed plywood option.
- Added note for optional Aluminum (Type A) attachments as required by Engineer. The Plaques and Other Attachments column was split to designate Type A aluminum (pay item) or direct apply (subsidiary).
- Removed columns for background and legend sheeting. This is fabrication information and is found on the TSR sheets.
- Added sign type designation descriptions for the Type of Mount column. Zero (0) designates aluminum or fiberglass. Zero (0) will be used to allow the contractor to provide either sign substrate. One (1) designates aluminum and two (2) designates fiberglass. If designation two (2) is used, a sole source justification will need to be submitted. This will allow the district to specify fiberglass signs if they are encountering a theft problem.

SMD (CODES)-02

- Removed sheet and will not replace.

SMD (TY-G)-08

- Updated sign nomenclature.

SMD (8W1)-08

- Modified sign type designation descriptions to include fiberglass and remove plywood.
- Clarified concrete footings note.
- Modified sheet title.

SMD (8W2)-08

- Modified sheet title.

The revised standard sheets have been attached for your reference and can be found at the following web address:

<http://www.dot.state.tx.us/insdtdot/orgchart/cmd/cserve/standard/toc.htm>

If you have any questions or comments concerning the revised standards, please contact Michael Chacon at (512) 416-3120 or me at (512) 416-3200.

Attachments

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