

Bracketed section numbers refer to the 2006 *Standard Specifications*.

Section 82 Markers and Delineators

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4-8201 General

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This section describes the work for providing and installing markers and delineators at locations shown on the plans or where the engineer directs. Object markers are used to mark obstructions within or adjacent to the roadbed, including paved shoulders. Delineators are reflective devices installed in a series at the side of the roadway to indicate the roadway alignment.

4-8202 Before Work Begins

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Before work begins, take the following steps:

- Review the marker and delineator lists shown on the plans, and inform the contractor of any changes, preferably before material is ordered or information is stenciled on the markers. The *California Manual of Uniform Traffic Control Devices (California MUTCD)*, Part 3, provides design details for markers and delineators.
- Verify that Form CEM-3101, “Notice of Materials to Be Used,” includes markers and delineators. All materials listed on Form CEM-3101 must be on the authorized materials list for signing and delineation materials. Refer to Section 6-202, “Responsibilities for Acceptance of Manufactured or Fabricated Materials and Products,” of this manual for additional information.
- Examine markers and delineators to ensure they meet specification. Verify that they match the materials shown on Form CEM-3101 and that a correctly prepared certificate of compliance accompanies the material.
- Provide the contractor with a list of post mile values to be stenciled on highway post markers.
- Order and obtain the Department-furnished material identified in the special provisions.

4-8203 During the Course of Work

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Inspect the materials and method of installation according to the *Standard Specifications* and special provisions. This inspection will include, but is not limited to, the following steps:

- Ensure that the contractor’s layout work conforms to the plans.
- Document and approve minor deviations from the plans.
- Before the material is incorporated, inspect material either by collecting the inspection tags or matching the material against information in the certificate of compliance.

- Ensure that the contractor follows the method of placement specified in the *Standard Specifications* and the special provisions.
- During the installations of target plates, check that the contractor has used washers and installed nuts and rivets properly.
- After installation, check for any damage to the installed material; document any rejections.
- Do a night inspection to check and document the reflectivity of the installed material. If you encounter any problems, notify the contractor immediately so the contractor can make corrections.

**4-8204
Measurement and
Payment**

4-8204 Measurement and Payment

Count markers and delineators, and record the counts to support partial and final payments.