

305.00 EARTH SHOULDER CONSTRUCTION (SSHC Section 304)**305.01 DESCRIPTION**

Shoulder construction when included in the plans and contract shall be constructed in accordance with *SSHC Section 304*. Very often there are also special provisions included in the contract that pertain to specific problems anticipated in the shoulder construction of the project. The inspector and Project Manager should be certain that the special provision requirements are followed.

305.02 CONSTRUCTION METHODS

- I. Signs, delineators, mailboxes and guardrail will usually need to be removed from the areas where the contractor is required to perform this item of work. Department maintenance forces may be required to move the signs, delineators, and guardrail. There generally will be instructions in the contract stating the disposition of the delineators and guardrail and who is responsible for the relocation. The mailboxes should be moved by the owner. It is a good policy to discuss the anticipated conflicts affecting mail deliveries with the postmaster for the area before actual construction begins. The Project Manager or inspector will have to contact the mailbox owners and coordinate the relocation of these mailboxes so that inconveniences will be held to a minimum for all parties involved. The Department's or contractor's employees should not move these mailboxes except with the permission of the owners. If the owners will not cooperate, the postmaster for the area should be contacted.
- II. Safety and protection of the highway user is a prime concern. The Standard Plans require plastic barrels if the drop-off at the edge of the traveled way is more than 50 mm (2 inches).

Certified flaggers are required when the normal flow of traffic must be interrupted. All slow equipment as defined in the Nebraska Rules of the Road shall display the slow moving vehicle emblem and have strobe or flashing yellow beacons. The contractor must erect and maintain all the required signs and barricades in the correct positions to protect and warn the motorists. The Project Manager should take photographs and video tape the construction zone to document conditions.

- III. The inspector shall take sufficient measurements and make sufficient observations to confirm that the shoulders have been constructed in reasonably close conformity with the typical section and the material requirements specified. These conforming checks shall be recorded in a bound field notebook. One check per 1.0 km (1/2 mile) highway centerline distance shall be the minimum number of checks required.

- IV. The time limitations imposed by the Specifications in Table 304 and Subsection 304.03 on placing the shoulders should be enforced. The tally of days (internal) charged against the shouldering must be shown on the weekly working day report.

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305.03 METHOD OF MEASUREMENT

Plan stationing may be used for computing shoulder construction except in cases where apparent errors in stationing are discovered and the correct stationing is to be used.

Calibration of water measuring equipment is discussed in the *SSHC Section 205*.

Note in the *SSHC Subsection 304.04* that shoulders are measured by the station and each shoulder is measured separately without regard to width and depth.