

**OKLAHOMA DEPARTMENT OF TRANSPORTATION
SPECIAL PROVISIONS
FOR
CONSTRUCTION ZONE PAVEMENT MARKINGS**

These Special Provisions revise, amend, and where in conflict, supersede applicable sections of the 2009 Standard Specifications for Highway Construction, English and Metric.

857.01 DESCRIPTION *(Add the following:)*

This work consists of removing pavement markings along with other debris from asphalt concrete and Portland cement concrete pavement surfaces.

857.02 MATERIALS *(Add the following:)*

Provide potable water. Lake or river water will not be allowed. Use of chemicals, abrasive materials, grinders, detergents or salt water will not be allowed.

857.03 EQUIPMENT *(Revise as follows:)*

A. General

Apply pavement markings in accordance with the manufacturer's recommendations. Use a paint machine and a bead dispenser in accordance with Subsection 854.03, "Equipment," to apply the painted construction traffic stripe. Use equipment for removing pavement markings that will not damage the pavement surface or pavement material texture.

(Add the following:)

B. Hydroblasting Equipment

Use cleaning or pavement marking removal equipment capable of removing 100% of the pavement marking using high-pressure water. Ensure the equipment is capable of maintaining 36,000 psi water pressure at a maximum flow rate of 16 gpm. Provide a self-propelled vehicle with all functions programmable and repeatable for long lines of road marking removal. The removal head must be capable of rotating at a minimum of 1,500 rpm. Ensure the equipment is capable of removing a minimum of 1,200 linear feet of 4 inch strip per hour.

Use trolley mounted water jetting equipment to remove pavement markings in areas inaccessible to the truck mounted equipment such as hatched areas, words, arrows and symbols. Ensure the equipment is capable of maintaining 36,000 psi water pressure. The removal head must be capable of rotating at a minimum of 1,500 rpm.

Use equipment capable of removing the traffic stripe from the surface, including cracks, to thoroughly remove all dust, dirt, and other foreign materials without causing damage to the surface by etching or exposing coarse aggregate. Use a wet vacuum in conjunction with the removal head to remove all debris to a secure holding tank on the truck. After removal of the pavement markings leave the surface clean and ready to accept the new road marking once drying has occurred.

Operate all equipment in the same direction as traffic flow.

Ensure all equipment meets applicable OSHA requirements.

857.04 CONSTRUCTION METHODS

D. Removal (*Replace with the following :*)

If a detour or permanent pavement markings conflict with the permanent pavement markings of the next traffic control phase, remove as approved by the Engineer before switching traffic. Remove existing pavement markings and replace with temporary markings before roadway opens to traffic. Remove temporary pavement markings before installing final striping.

When additional pavement marking is necessary due to overlays, redirection of traffic, restoration, or Engineer direction, start the pavement marking within 24 hr of notification from the Engineer.

Remove the removable pavement marking and adhesive, as directed by the Engineer. Install additional pavement markings according to traffic conditions, as approved by the Engineer. Immediately dispose of removed pavement marking tape and pavement markers.

Remove pavement markings without damaging the pavement surface, or pavement material texture. Pavement material texture will be considered damaged if more than 5 mils are removed below the original stripe. Repair any damage to the pavement surface and joints caused by the Contractor's operation at no additional cost to the Department. Obtain the Engineer's approval of the proposed method of repair prior to performing the repair.

The Department will not allow painting over or blotting out the existing pavement markings. When removing pavement markings, immediately remove the residue using a vacuum attachment operated concurrently with the operation, or by other methods approved by the Engineer.

When the method of Hydro-blasting is utilized, the work shall be performed at locations shown on the plans or as directed by the Engineer. Thoroughly remove the specified pavement markings such that the markings are no longer visible to highway users, and/or to the satisfaction of the Engineer.

Operation of the ultra-high pressure water jets shall be performed and supervised by qualified personnel certified by the equipment manufacture. Do not perform work unless the ambient temperature and pavement temperature is a minimum of 34 degrees Fahrenheit.

Use collection systems to prevent the escape of debris. If spills or releases occur, immediately cease operations, clean up the debris, and take appropriate corrective actions to prevent similar releases from occurring.

Properly dispose of wastes generated during the pavement marking removal, in compliance with all applicable federal, state and local laws, regulations, and rules.

Ensure the work site is clear of visible debris at the end of each work day.

857.05 METHOD OF MEASUREMENT (*Add the following:*)

Pavement Marking Removal (Traffic Stripe) will be measured by linear foot of four inch wide traffic stripe where a narrower or wider stripe is to be removed, that is, prorated to a four inch strip. Count each unit of arrows, words or symbols to be removed.