

# MISSISSIPPI DEPARTMENT OF TRANSPORTATION

## *Inter-Departmental Memorandum*

TO: Squad Leaders

DATE: September 4, 1997

FROM: Steven W. Reeves *SWR*  
Quality Control Engineer  
Roadway Design

SUBJECT OR PROJECT NO: Temporary Raised  
Markers

INFORMATION COPY TO:

COUNTY:

Roadway Design Division Engineer  
✓ John Pickering  
Ray Balentine  
Roadway Design Section Engineers  
Active Consultants  
Construction Division  
Traffic Engineering Division  
District Engineers  
File

Beginning immediately, all construction plans shall include pay items and estimated quantities for temporary raised markers. The raised pavement markers shall be placed on all hard surfaces where the traffic is to remain on that surface and in the same alignment at least three months. The spacing and location of the temporary markers shall be at the minimum as shown on the plans and Standard Drawings for placement of permanent raised markers. All temporary markers shall be removed prior to placing the next pavement course. The cost for the removal of temporary markers will be absorbed in the cost for the marker.

Please find attached the new policy and the special provisions for temporary raised markers. New pay items are included in the special provisions.

If you have any questions or comments, please call my office.

SWR/swr  
attachments

## Policy For Placing Raised Pavement Markers

Raised pavement markers shall be placed on all state maintained roads including sealed roads (SBST, DBST, slurry, etc.), except those sealed less than one year. For those roads sealed less than one year, the District shall inspect the surface to determine whether the markers will survive. If it is decided that satisfactory results can be obtained, then markers can also be placed on those roadways.

The implementation of this policy is:

### Replacement

The Districts will annually inventory by a visual estimation all roads and routes on which markers have been placed to determine the survival rate. Each mile will have two 500-foot counting zones, beginning at 3/10 and 7/10 of that mile. The survival rate will be recorded in 20% increments, i.e. 80-100%, 60-80%, 40-60%, etc. The inventory will be reported by March 1 of each year with the original filed in each District office and a copy submitted to the State Maintenance Engineer. (See attached example No. 1.)

On any routes or sections of highway where the inventory shows that the survival rate is less than 60%, all the markers will be removed and replaced by one of the following:

1. District forces where manpower and resources will allow.
2. Contract

It is intended each year to let a district wide replacement project with all counties to be considered. Therefore, each district will review the number of markers to be replaced and determine whether the replacement will be by district forces or by contract. If the contract method is recommended, the district will furnish the State Construction Engineer, by March 1 of each year, a set of county maps indicating markers to be placed/replaced. The set will include all counties in the district with each map indicating the number of markers to be placed/replaced. (See attached example No. 2.)

### Placement

#### **1. Temporary Markings**

Raised pavement markers shall be placed on all hard surfaces where the traffic is to remain on that surface and in the same alignment at least three months. This policy is applicable to all construction projects. The spacing of the temporary markers shall be at the minimum as shown on the plans and standard drawings for placement of permanent raised markers. All temporary markers shall be removed prior to placing the next pavement course.

2. Permanent Markings

Raised Pavement Markers shall be placed on all final pavement course on construction projects according to plans and specifications.

Markers

All raised pavement markers referenced above shall be high performance markers.

APPROVED: *Ronald W. Warden* 8/18/97  
Chief Engineer Date  
*Book 5, Page 74?*  
*ST*

## MISSISSIPPI DEPARTMENT OF TRANSPORTATION

SPECIAL PROVISION NO. 907-619-9

CODE: (IS)

DATE: 9/4/97

SUBJECT: Temporary Pavement Markings

Section 619, Traffic Control for Construction Zones, of the 1990 Edition of the Mississippi Standard Specifications for Road and Bridge Construction is hereby amended as follows:

907-619.03 -- Construction Requirements.

907-619.03.2 -- Temporary Stripe. Delete in toto Subsection 619.03.2 on page 619-4 and substitute the following:

Temporary stripes are pavement markings, temporary in nature, such as those used to direct traffic from its customary path or those to be removed from the pavement course under use for further temporary traffic control or those to be covered by the next pavement course and/or those to be replaced by permanent stripes. Temporary stripes shall be paint or preformed tape as designated on the plans or when not designated, the use of paint or tape will be at the Contractor's option. Temporary stripes on surface treatments shall be paint.

All temporary stripe shall be placed in accordance with the plans and the requirements set out in Section 625, except that alignment of temporary stripe placed on underlying courses shall have a tolerance of four inches in fifty (50) feet from true alignment for skip stripes and edge lines and one inch in fifty (50) feet from true alignment for no-passing stripes and lane lines. When preformed tape is used on the final pavement course for temporary traffic markings, it shall be removed at no additional cost to the State.

Temporary paint stripe requiring removal shall be removed by carefully controlled blast cleaning, approved grinding or other approved methods in such a manner that the surface to which the stripe was applied will not be unnecessarily marred or damaged. Preformed tape is to be removed in accordance with the manufacturer's recommendations.

Temporary paint stripe which has been placed on the final pavement course may be left in place and covered with permanent stripe of the same color provided the temporary stripe has been satisfactorily placed in the proper location. Under this condition, any remaining temporary paint stripe not covered by the permanent stripe shall be removed at no additional cost to the State.

All temporary pavement markings placed and measured for payment under this section shall include any required removal. Removal of all temporary stripe will not be measured for separate payment.

Existing pavement markings conflicting with temporary markings shall be removed. Removal of such materials (paint, tape, marker, etc.) will be measured and payment made under Section 202. When measuring removal of pavement markings for payment, the skips will not be included in the measurement.

907-619.03.3 -- Short-term Stripe. Delete in toto Subsection 619.03.3 on pages 619-4 and 619-5.

907-619.04 -- Method of Measurement. Delete the second full paragraph on page 619-7 and substitute the following:

Temporary stripe, completed and removed in accordance with the requirements of this Section, will be measured as provided for painted traffic markings in 625.04 or, in the case of legend stripe, in accordance with 907-626.04.

907-619.05 -- Basis of Payment. Add the "907" prefix to pay item numbers 619-A1, 619-A2, 619-A3, 619-A4, 619-A5 and 619-A6 in Subsection 619.05 on page numbers 619-7 and 619-8.

Delete in toto the pay item numbers, descriptions and units for pay item numbers 619-B1, 619-B2, 619-B3, 619-B4, 619-B5 and 619-B6 from Subsection 619.05 on page 619-8.

After pay item number 619-C5 on page 619-9 add the following:

- 907-619-C6: Red-Clear Reflective High Performance Raised Marker - per each
- 907-619-C7: Two-Way Yellow Reflective High Performance Raised Marker - per each
- 907-619-C8: One-Way Clear Reflective High Performance Raised Marker - per each
- 907-619-C9: One-Way Yellow Reflective High Performance Raised Marker - per each
- 907-619-C10: Yellow Clear Reflective High Performance Raised Marker - per each

Delete the last paragraph of Subsection 619.05 on page 619-10 and substitute the following:

\* The description for temporary traffic stripe will be shown as "paint" or "tape". In the case of "tape" the type will also be designated. When the description is not designated, the use of "paint" or "tape" will be at the Contractor's option.