

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

Inter-Departmental Memorandum

TO: Design Squad Leaders

DATE: October 17, 1996

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

SUBJECT OR PROJECT NO: General

INFORMATION COPY TO:

COUNTY:

Roadway Design Division Engineer
Irving Harris
John Pickering
Ray Ballentine
Section Leaders
File

The following information deals with present policy and recent policy changes. Please review this memo and incorporate the policies into your projects. Advise your squad members so that they will be aware of any changes. If you have any questions concerning the material shown on this memo or any other questions, please come to my office to discuss them.

PRECAST CONCRETE BARRIERS

When used in work zones the taper rate shall be a minimum of 8:1.

The offset to the exposed end shall be a minimum of 12 ft. (3.65 m).

See memo dated Sept. 23, 1996 and related drawings attached.

DESIGN SPEEDS

The design speed has now been raised to 65 mph on 4-lane highways. All squads need to check any projects still in the right-of-way stage to determine if any sections do not meet the controlling 3R criteria for 65 mph.

LEGIBILITY

Please check plan-profile sheets developed in CADD for legibility. Too many sheets are being placed in projects with the topo notes, plan views, details, etc. overlapping one another.

SUMMARY OF QUANTITY SHEETS

Leave a few blank spaces on S.Q. sheets to allow for additional pay items.

All pay items need to be grouped under the appropriate title and should be placed in numerical order.

METRIC DESIGN SHEETS

Any new metric design sheet that you or your squad develop and may be used on other projects needs to be included in the metric design file drawer in the Quality Control office. This will keep other squads from duplicating work that has been done and add consistency to Roadway Design Plans.

page 2

TITLE SHEET

The miles in the length data should be truncated to 3 decimal places, not rounded. (ex.: 6520 ft = 1.23484 mi. use 1.234 mi.).

DRAINAGE

Always use arrows to indicate the direction of flow in pipes and box culverts shown on plan profile sheets.

TRAFFIC CONTROL SHEETS

Always indicate the direction of traffic on Traffic Control sheets to help eliminate any confusion.

PAVEMENT MARKING

Starting with the January 1997 letting, all projects with concrete surfaces (roadway and/or bridges) and with an ADT greater than or equal to 2000 will use the following types of Permanent Pavement Markings.

Preformed High Performance Cold Plastic Pavement Marking tape will be required for all pavement markings on bridges and bridge end pavement. Concrete roadway pavement will be marked with Preformed High Performance Cold Plastic Pavement Marking tape on centerlines and lane lines, edge lines on concrete roadway pavement will be marked with water born traffic paint.

For those projects with concrete pavements and an ADT less than 2000, water born traffic paint will be used for all pavement markings on concrete surfaces (both roadway and bridges).

Pay item numbers and descriptions will be issued to you as soon as we receive them from Construction Division.

If you have any questions, please come by my office.

SWR/swr

Zack Stewart
Northern District Commissioner

Wayne O. Burkes
Central District Commissioner

Ronnie Shows
Southern District Commissioner



Dr. Robert L. Robinson
Executive Director

Kenneth I. Warren
Deputy Executive Director/
Chief Engineer

Mississippi Department of Transportation / P.O. Box 1850 / Jackson, Mississippi 39215-1850 / FAX (601) 359-7110

INTEROFFICE MEMORANDUM:

TO: All District Engineers
All Division Heads
Assistant Chief Engineers

DATE: September 23, 1996

SUBJECT: Precast Concrete Median
Barrier

FROM: 
Kenneth I. Warren
Chief Engineer

As of this date, MDOT will use the following criteria for precast concrete median barrier in work zones.

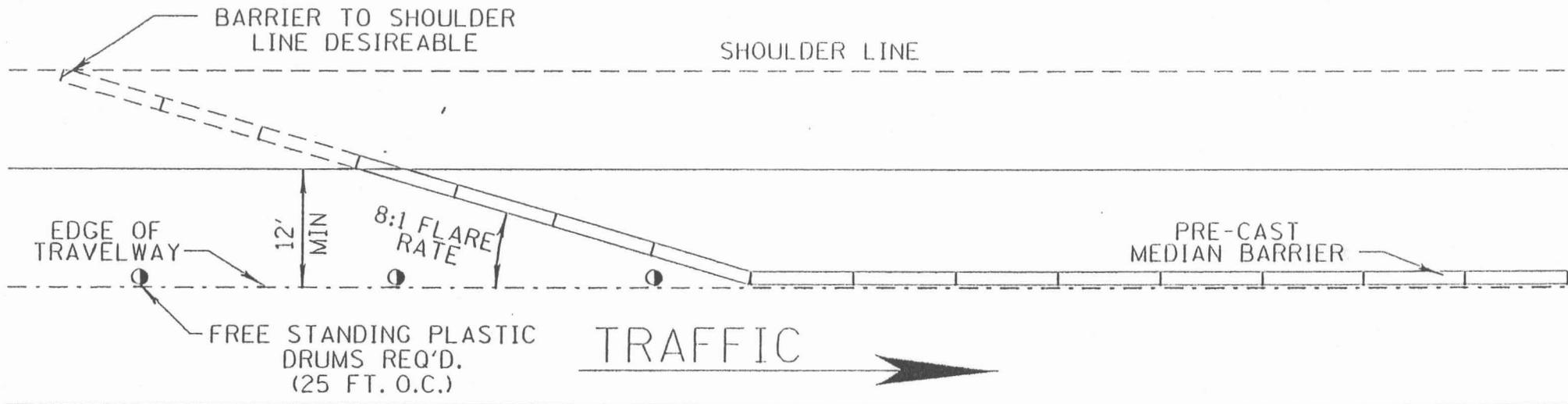
- Flare Rates on the approach taper shall be a minimum of 8:1 as described in subsection 9.1.1.1 of the 1996 Roadside Design Guide;
- The offset to the flared exposed end shall be a minimum of 12 ft. (3.65 m), which is the edge of the clear zone appropriate for construction traffic (see subsection 9.1.1.4 of the 1996 Roadside Design Guide).

KIW/raw

Attachments

pc: Files





DRUM SPACING OF 25' TO BE USED IN TAPER LENGTH OF MEDIAN BARRIER. FOR NORMAL DRUM PLACEMENT SEE SHEET TCP-1 OR TCP-2

DETAIL FOR PLACEMENT OF PRECAST MEDIAN BARRIER IN WORK ZONE

Zack Stewart
Northern District Commissioner

Gene O. Burkes
Central District Commissioner

Ronnie Shows
Southern District Commissioner



Dr. Robert L. Robinson
Executive Director

Kenneth I. Warren
Deputy Executive Director/
Chief Engineer

Mississippi Department of Transportation / P.O. Box 1850 / Jackson, Mississippi 39215-1850 / FAX (601) 359-7110

INTEROFFICE MEMORANDUM:

TO: All District Engineers

DATE: September 23, 1996

FROM: Kenneth I. Warren

SUBJECT: Design Speed

Chief Engineer

A handwritten signature in cursive script, appearing to read "Kenneth I. Warren", is written over the typed name and title.

The speed limits on Mississippi roadways were changed by Commission Order in April, 1996. The regulated speed on some roadways was raised from 55 mph (88.5 kph) to 65 mph (104.6 kph).

Since the design speed establishes the most critical design criteria, the impact on projects in the right-of-way stage and construction phase is significant. Our policy on 3R projects has been to evaluate the vertical alignment of the existing roadway to determine whether or not to regrade the existing roadway. Any sections of the existing roadway that did not meet 3R controlling criteria for 55 mph required regrading to meet 3R criteria for 65 mph design speed.

Since the design speed has now been raised to 65 mph on 4-lane highways, sections that do not meet 3R criteria for 65 mph will be regraded to meet the 3R criteria. The only difference being that now we will check for 65 mph (3R) instead of 55 mph (3R).

Roadway Design Division is going back and looking at projects in the right-of-way stage to determine if any sections do not meet the controlling 3R criteria for 65 mph. It is your responsibility to evaluate rehabilitation projects currently in the construction phase to determine if any sections do not meet 3R criteria for 65 mph or the anticipated posted speed. Any sections that do not meet criteria are to be evaluated to determine the practicality of bringing the sections into compliance.

Please submit a report of your evaluation, along with recommended action. If required, Roadway Design Division staff will be available to assist in the evaluation.

Should additional information or assistance be deemed necessary, please advise.



83-01

Zack Stewart
Northern District Commissioner

Wayne O. Burkes
Central District Commissioner

Ronnie Shows
Southern District Commissioner



Dr. Robert L. Robinson
Executive Director

Kenneth I. Warren
Deputy Executive Director/
Chief Engineer

DIR. ENG. ✓
ASST. DIR. ENG. ✓

Mississippi Department of Transportation / P.O. Box 1850 / Jackson, Mississippi 39215-1850 / FAX (601) 359-7110

October 4, 1996

MEMORANDUM

TO: All District Engineers
All Division Heads
Assistant Chief Engineers

FROM: For Kenneth I. Warren
Chief Engineer

Subject: Permanent Pavement Marking Policy for Concrete Surfaces

DIR. ENG. ✓
ASST. DIR. ENG. ✓
CHIEF ENGINEER ✓
PHOTO ENG. ✓
AREA 1 ENG. ✓
AREA 2 ENG. ✓
AREA 3 ENG. ✓
AREA 4 ENG. ✓
AREA 5 ENG. ✓
AREA 6 ENG. ✓
AREA 7 ENG. ✓
OFFICE MANAGER ✓
STEVE
PLU

RECEIVED
OCT 07 1996

ROADWAY DESIGN

Effective January 1, 1997, all projects with concrete surfaces, (roadways and/or bridges), with ADT ≥ 2000 will receive the following types of permanent pavement markings.

Preformed High Performance Cold Plastic Pavement Marking tape will be required for all pavement markings on bridges and bridge end pavements. Concrete roadway pavements will be marked with preformed high performance cold plastic pavement marking tape on centerline and lane lines, while edge lines will be marked with water born traffic paint. The edge line policy for concrete roadways is subject to change as new tapes are developed and evaluated.

For those projects with ADT < 2000, water born traffic paint may be used for all pavement markings placed on concrete surfaces, (both roadway and bridges).

slr

