



**STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
Design Division
Nashville, Tennessee 37243-0348**

INSTRUCTIONAL BULLETIN NO 10-05

Regarding Pavement Design Request Submittal

Effective immediately, Section 3-125.00 Pavement Design Requests along with Figure 3-3 located in the Section 3, Chapter 1 of the Roadway Design Guidelines is revised as follows to provide guidance for email submission of pavement design requests.

3-125.00 PAVEMENT DESIGN REQUESTS (See 3-125.05)

The design of a pavement structure takes into consideration many forms of input. Several of these are traffic loadings, soil characteristics (C.B.R. tests), materials availability, construction requirements, past performance, quality control and departmental policy. Paving sections are analyzed for structural capacity and for life-cycle cost. Because of these factors, pavement designs will be set by the Pavement Design Section only. On field reviews, any comments relating to pavement sections shall be noted in the field review report and then brought to the attention of the Pavement Design Section. After reviewing the requested change with the designer, the Pavement Design Section will make the final decision on changes to be incorporated into the project plans relative to paving.

The Pavement Design Section will furnish pavement designs on projects where concrete pavement or plant mix asphalt pavement is required, except for state industrial access projects, metro-urban resurfacing projects, and 100% state resurfacing projects. For BRZE and BR-STP projects with an ADL (Average Daily Loading) of 150 or less, or an ADT (Average Daily Traffic) less than 1,000 and percent trucks less than seven, pavement sections shall be designed as in Section 3-125.05.

For all pavement design request submittals, a pavement design request packet should be e-mailed to TDOT.PavementDesign@tn.gov. The request shall be submitted at the same time plans are submitted for preliminary field review. For projects not requiring a preliminary field review, the request shall be submitted upon completion of setting the line and grade. Each person listed in the CC section of the request for pavement design form should be copied on the

email along with the design manager. The pavement design request packet shall consist of a single pdf file that contains the request for pavement design form shown in Figure 3-3, plan sheets (title, typical sections and proposed layout sheets), soils report, and a traffic report which includes an ADL for the mainline and any other major roads or streets within the limits of the project. This information is needed analyze the needs of side roads, overlays, pavement alternates and other pavement design features.

The naming convention for the pavement design request packet will include the PIN # and the Region #, XXXXXX-XX-PavementDesignRequest-RegX.pdf. If there are modifications, including submitting additional information, then the naming convention will be XXXXXX-XX-PavementDesign-RegX-Rev-00-00-00.pdf. Revised pavement design requests will contain the packet in its entirety - i.e. letter, plans, traffic report and soils report.

Example: 123456-00-PavementDesignRequest-Reg1.pdf

When assembling the pdf file, select small file size or default file size in Adobe Acrobat Standard in order to keep the pavement design request packet under the 15 MB email limit. If the file exceeds 15 MB, the designer should split the packet into multiple emails and add the Part 1, Part 2, etc. to the naming convention.

Example: 123456-00-PavementDesignRequest-Reg1-Part 1.pdf

For the Roadway Plans prepared by consultants, the pavement design request package should be prepared as described above and e-mailed to the Roadway Design Manager for review. Upon acceptance, the design manager will forward the package to TDOT.PavementDesign@tn.gov .

The pavement design request package should be resubmitted whenever major design revisions are made that could affect the pavement design as determined by the Design Manager.

Original signed by Jeff C. Jones
Jeff C. Jones, Civil Engineering Director
Design Division

June 29, 2010
JCJ:MA:ma
Attachment



STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
DESIGN DIVISION

PAVEMENT DESIGN SECTION
SUITE 1200, JAMES K. POLK BUILDING
Nashville, Tennessee 37243-0348

REQUEST FOR PAVEMENT DESIGN

DATE: _____ DESIGNER: _____
COUNTY: _____ ROUTE: _____
PROJECT NO. _____ PIN: _____
DESCRIPTION: _____

PROPOSED LETTING DATE: _____

PLEASE CHECK THE BOX FOR ALL DESIGN ITEMS THAT APPLY TO YOUR PROJECT.

- NEW ALIGNMENT
- WIDENING
- INTERSECTING RDS.
- RESURFACING
- DETOUR ROAD
- TRAFFIC TO BE MAINTAINED
- DURING CONSTRUCTION

OTHER COMMENTS: _____

ATTACHMENTS

DATE REQUESTED

- TRAFFIC REPORT W/ADL'S _____
- SOILS REPORT _____
- PDF OF PLANS (TITLE, TYPICAL SECTIONS, PROPOSED LAYOUT)

PLEASE EXPLAIN ANY MISSING ATTACHMENTS (include date requested for soils and traffic):_

cc: Design Manager

**Figure 3-3
Request for Pavement Design Form**