



STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
DESIGN DIVISION
NASHVILLE, TENNESSEE 37243-0348

INSTRUCTIONAL BULLETIN NO. 11-02

Regarding Revised Design Exception Request and Justification Form

Effective immediately, Figure 3-1, Design Exception Request and Justification Form located in the Section 3, Chapter 1 of the Roadway Design Guidelines is revised as shown on the attached sheet.

Carolyn Stonecipher

Carolyn Stonecipher, Civil Engineering Director
Design Division

January 7, 2011
CS:ARH



STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
NASHVILLE, TENNESSEE 37243-1402

DESIGN EXCEPTION REQUEST AND JUSTIFICATION FORM

TO: _____, Division Administrator, FHWA (Exceptions requiring FHWA approval)
Director, Design Division, TDOT (All other exceptions)

FROM: _____, Director, Design Division, TDOT (Exceptions requiring FHWA approval)
Design Manager, Design Division, TDOT
Highest Local Official Responsible for the Project, Title (Locally Developed Projects)

DATE: _____

SUBJECT: Design Exception Request
Project No. _____
Pin No. _____
Project Description: _____

CONTROLLING CRITERIA FOR WHICH EXCEPTION IS REQUESTED:

- | | | | | | | | |
|---|--------------------------|--------------------|--------------------------|---------------------|--------------------------|--------|--------------------------|
| Design Speed | <input type="checkbox"/> | Lane Width | <input type="checkbox"/> | Shoulder Width | <input type="checkbox"/> | Grades | <input type="checkbox"/> |
| Horizontal Alignment | <input type="checkbox"/> | Vertical Alignment | <input type="checkbox"/> | Cross Slopes | <input type="checkbox"/> | | |
| Stopping Sight Distance | <input type="checkbox"/> | Superelevation | <input type="checkbox"/> | Bridge Width | <input type="checkbox"/> | | |
| Horizontal Clearance
(other than clear zone) | <input type="checkbox"/> | Vertical Clearance | <input type="checkbox"/> | Structural Capacity | <input type="checkbox"/> | | |

DESIGN EXCEPTION REQUESTED:

(Note: List location and controlling element of the feature an exception is requested.
Example: 1) Station 4+50, 30 mph horizontal curve 2) Station 10+00 to 13+00, 11ft. lane width instead of 12ft. 3) 20 mph vertical alignment (Sag K=24) instead of 40 mph)

Figure 3-1
Design Exception and Justification Form

TDOT - ROADWAY DESIGN GUIDELINES

English

Revised: 01/07/2011

DESIGN DATA:

Highway Functional Classification: _____
 Standard for the Above Classification: _____
 Existing Posted Speed: _____
 Proposed Posted Speed: _____
 Type of Terrain: _____
 Rural or Urban Area: _____
 Traffic Data: ADT (20_____): _____ D: _____
 ADT (20_____): _____ T: _____
 DHV: _____ V: _____

DESIGN FEATURES:

	Standard	Existing	Proposed	N/A
Cross Slope:	_____	_____	_____	_____
Superelevation:	_____	_____	_____	_____
Minimum Radius of Curve:	_____	_____	_____	_____
Minimum Stopping Sight Distance:	_____	_____	_____	_____
Minimum "K" Value for Crest Vertical Curve:	_____	_____	_____	_____
Minimum "K" Value for Sag Vertical Curve:	_____	_____	_____	_____
Maximum Grade:	_____	_____	_____	_____

ROADWAY TYPICAL SECTION:

	Standard	Existing	Proposed	N/A
Horizontal Clearance: (other than the clear zone)	_____	_____	_____	_____
Shoulder Widths:	_____	_____	_____	_____
Outside Shoulders:	_____	_____	_____	_____
Inside Shoulders:	_____	_____	_____	_____
Lane Width:	_____	_____	_____	_____

BRIDGE FEATURES:

	Standard	Existing	Proposed	N/A
Traffic Lane Widths:	_____	_____	_____	_____
Outside Shoulder Widths:	_____	_____	_____	_____
Inside Shoulder Widths:	_____	_____	_____	_____
Load Capacity or Sufficiency Rating:	_____	_____	_____	_____
Vertical Clearance:	_____	_____	_____	_____
To Waterway:	_____	_____	_____	_____
To Other Highway:	_____	_____	_____	_____
To Railroad:	_____	_____	_____	_____

**Figure 3-1 (Continued)
 Design Exception and Justification Form**

TDOT - ROADWAY DESIGN GUIDELINES

English

Revised: 01/07/2011

FACTORS CONSIDERED:

(Note: Each of the following factors shall be addressed in narrative form. If a factor is not applicable, or data is not available, only the appropriate box needs to be checked. For factors that are not a consideration, justification should be included.)

1) Accident experience or data

Data Available No Data Available Not Applicable

2) Effect of the variance from the design standards on safety and operation of the facility

Effect considered No effect on the facility Not Applicable

3) Safety mitigation measures considered and provided

Measures provided Measures not justified Not Applicable

4) Compatibility of the design and operation with adjacent sections

Considered Not a Consideration Not Applicable

5) Comparative cost of the full standard versus the lower design proposed

Considered Not a Consideration Not Applicable

6) Long term effect of the reduced design as compared to the full standard

Considered Not a Consideration Not Applicable

7) Difficulty obtaining the full standard such as right-of-way restriction, environmental impacts, etc.

Considered Not a Consideration Not Applicable

8) Capacity reductions or operational reductions caused by the design

Considered Not a Consideration Not Applicable

9) Level of service for the full standard versus the proposed design

Considered Not a Consideration Not Applicable

10) Cumulative effect of more than one standard that is being reduced

Considered Not a Consideration Not Applicable

11) Possibility of improving or achieving the full standard feature in the future

Applicable Not Applicable Not on the state highway system

Figure 3-1 (Continued) Design Exception and Justification Form

TDOT - ROADWAY DESIGN GUIDELINES

English

Revised: 01/07/2011

DESIGN EXCEPTION AND JUSTIFICATION:

(Note: This section shall include a narrative description of the design exception request and includes a recommendation for approval)

ATTACHMENTS:

(Note: Include appropriate items such as plan prints, accident data, estimates, sketches, photos, etc.)

DESIGN EXCEPTION REVIEW COMMITTEE RECOMMENDATION FOR APPROVAL:

_____, Assistant Director, Design Div., Region 1 and 2

_____, Assistant Director, Design Div., Region 3 and 4

_____, Assistant Director, Design Div., Consultant Management

_____, Assistant Director, Design Div., ITS, Traffic, & Standards

_____, Assistant Director, Design Division, Design Support

Comments Attached

APPROVED: _____
Division Administrator, FHWA
(Director, Design Division, TDOT)

Date

cc: Quality Assurance Section

Figure 3-1 (continued)
Design Exception and Justification Form