

STATE OF TENNESSEE

# DEPARTMENT OF TRANSPORTATION

(     )      -

## JOHN C. SCHROER BILL HASLAM

COMMISSIONER GOVERNOR

**TO**:      , Choose an item.

**FROM:** **,** Choose an item.

**DATE:**

**SUBJECT: DESIGN EXCEPTION REQUEST AND JUSTIFICATION**

|  |  |  |  |
| --- | --- | --- | --- |
| Project No. | |  | |
| PIN No. | |  | |
| Project Description: |  | |
| NHS | YES NO | |
| State Route | YES NO | |

**DESIGN CONTROLLING CRITERIA FOR WHICH EXCEPTION IS REQUESTED:**

**APPLICABLE FOR ALL NHS ROADWAYS**

Design Speed  Design Loading Structural Capacity

**APPLICABLE FOR NHS ROADWAYS WITH DESIGN SPEED ≥ 50 MPH**

Lane Width  Cross Slopes

Horizontal Curve Radius  Vertical Clearance

Stopping Sight Distance  Superelevation Rate

Shoulder Width   Maximum Grade

**DESCRIBE THE REASONING OF THE DESIGN EXCEPTION REQUEST:**

**PROJECT DESIGN DATA:**

|  |  |  |
| --- | --- | --- |
| Highway Functional Classification:  (Green Book 2011 Section 1.3) | | Principal Arterial  Arterial  Connector  Local road |
| Rural or Urban area: | |  |
| Roadway Design Standard Drawing: | |  |
| Existing Design Speed:  Existing Posted Speed: | |  |
| Proposed Design Speed:  Proposed Posted Speed: | |  |
| Type of Terrain: | | Level  Rolling  Mountainous |
|  | |  |
| Traffic Data: | ADT (20     ): | D: |
|  | ADT (20     ): | T: |
|  | DHV: | V: |

**GEOMETRIC DESIGN DATA FOR Location of the requested DESIGN EXCEPTION:**

**Standard Existing Proposed N/A**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Cross Slope (tangent section): | 2 % |  |  |  |  |  |  |
| Max. Superelevation Rate: |  |  |  |  |  |  |  |
| Minimum Radius of Curve: |  |  |  |  |  |  |  |
| Minimum Stopping Sight Distance: |  |  |  |  |  |  |  |
| Passing Sight Distance: |  |  |  |  |  |  |  |
| Crest Vertical Curve “K”: |  |  |  |  |  |  |  |
| Sag Vertical Curve K: |  |  |  |  |  |  |  |
| Maximum Grade: | 14% |  |  |  |  |  |  |
| Design Loading: |  |  |  |  |  |  |  |

**ROADWAY TYPICAL SECTION**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Lane Width: |  |  |  |  |  |  |  |
| Outside Shoulder width: |  |  |  |  |  |  |  |
| Inside Shoulder width: |  |  |  |  |  |  |  |
| Clear Zone width: |  |  |  |  |  |  |  |

**BRIDGE DESIGN FEATURES**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Traffic Lane Widths: |  |  |  |  |  |  |  |
| Outside Shoulder Widths: |  |  |  |  |  |  |  |
| Inside Shoulder Widths: |  |  |  |  |  |  |  |
| Sufficiency Rating: |  |  |  |  |  |  |  |
| Vertical Clearance |  |  |  |  |  |  |  |
| To Navigational Waterway: |  |  |  |  |  |  |  |
| To Other Highway: | 16.5 ft. |  |  |  |  |  |  |
| To Railroad: | 23 ft. |  |  |  |  |  |  |

**OTHER FACTORS CONSIDERED FOR THE EXCEPTION REQUEST:**

|  |  |  |  |
| --- | --- | --- | --- |
|  | **YES** | **NO** | **N/A** |
| **SAFETY** |  |  |  |
| Accident history data has been reviewed. |  |  |  |
| All roadway and roadside safety mitigation measures have been considered and provided. |  |  |  |
| The proposed variance from the minimum roadway design standards does not adversely affect the safety of the facility. |  |  |  |
| **The Highway Safety Manual is used to justify the design exception.** |  |  |  |
| **OPERATIONS** |  |  |  |
| The operation of the proposed typical cross-section is comparable with operation of the adjacent cross-sections. |  |  |  |
| The proposed design does not cause a reduction in capacity or adversely affect traffic flow of the facility. |  |  |  |
| The proposed design does not adversely effect long-term operations. |  |  |  |
| **ROADWAY DESIGN** |  |  |  |
| It is not feasible to meet the minimum roadway design standards due to right-of-way restrictions, environmental impacts, etc. |  |  |  |
| The proposed design maintains the same level of service compared to the design based on minimum roadway design standards. |  |  |  |
| The proposed design results in a significant cost savings compared to the design based on minimum roadway design standards. |  |  |  |
| The proposed design can meet minimum roadway design standards in the future. |  |  |  |

**JUSTIFICATION OF DESIGN EXCEPTION:**

**Please provide detailed justification for the each item checked NO above**

|  |
| --- |
|  |

Attachments

**DESIGN EXCEPTION IS REVIEWED AND RECOMMENDED**

**FOR APPROVAL BY:**

|  |  |  |
| --- | --- | --- |
|  |  |  |
| Choose an item. |  | **Date** |

Reviewer Comments Attached

**APPROVED BY:**

|  |  |  |
| --- | --- | --- |
|  |  |  |
| Choose an item. |  | **Date** |