

**CHAPTER 2: ENGINEERING CONCEPTS / GUIDANCE**

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**2.1 “MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES” (MUTCD)**

The MUTCD addresses the need to provide basic principles to govern the design and use of traffic control devices for all streets and highways open to the traveling public. It provides guidance for the size, shape, color and messages to produce a clear meaning for the traveling public. Traffic control devices need to be located so that the legibility of the device is such that the road user has adequate time to see and comprehend the message for the proper response in both night and daytime conditions. Uniformity in design and placement of the control devices is most important to maintain respect from the motorists using the roadway facility.

**2.2 “STANDARD HIGHWAY SIGNS” (FEDERAL MANUAL)**

This Federal Highway Administration manual establishes standards in sign design including shape, color, dimensions, legends and illumination or reflectorization. The intent of the manual is to promote uniformity throughout the United States in accordance with Title 23, U.S. Code, Section 109(b), 109(d) and 402(a), and Highway Safety Program Standard 13, “Traffic Engineering Services.” and as stated in Section 2A-9 of the “MUTCD”.

**2.3 “GUIDESIGNS” (PART I, II & III) AASHTO PUBLICATION FOR CONTROL CITIES/F-GSGL**

This publication provides a listing of control cities in each state which are referenced when determining destination cities for guide signing on sign plans.

**2.4 “VIRGINIA DEPARTMENT OF TRANSPORTATION “ROAD AND BRIDGE SPECIFICATIONS” (LATEST EDITION)**

This publication is used in the development of construction design plans and the specifications cover general construction items, methods, and procedures common to traffic control devices.

**2.5 TRAFFIC ENGINEERING DIVISION (TED) MEMORANDUM**

Traffic Engineering Division memoranda should be obtained from the VDOT Intranet site, tedpublic on '0501 coitd 1'(P:), or by contacting TED for any electronic copy of the memoranda.

**2.6 VIRGINIA DEPARTMENT OF TRANSPORTATION “ROAD AND BRIDGE STANDARDS” (LATEST EDITION)**

This publication is used during construction. The Standards cover general construction items, methods, and procedures common to traffic control devices.

**2.7 THE VIRGINIA SUPPLEMENT TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS**

The purpose of the Virginia Supplement is to promulgate any State Standards for traffic control devices that exceed minimum federal requirements and to present any pertinent traffic control device design, installation and operation details not covered in the Manual on Uniform Traffic Control Devices.

## **2.8 EISENHOWER INTERSTATE SYSTEM (EIS) SIGN GUIDELINES**

VDOT has adopted a recommended method for installing EIS signs along the interstate system in Virginia. A copy of the memorandum and guidelines is provided in [Appendix IIB-49](#).