

North Carolina Department of Transportation

Transportation Systems Management and Operations (TSMO) Unit Design Manual



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Introduction

The North Carolina Department of Transportation's Transportation Systems Management and Operations (TSMO) Unit has prepared and updated this Design Manual as a medium for the presentation of commonly used design practices. It also serves as a format to present new design standards and practices, and to ensure more uniformity in the design of traffic signal plans, electrical and programming details, and signal communication plans prepared for the NCDOT.

The intent of this Manual is not to provide an explanation or solution to every design problem encountered. This Manual is not a substitute for sound engineering judgment, experience, or knowledge, nor does it prohibit the application of new ideas and innovations or concepts that are not shown or discussed in the Manual. It is intended as a resource for preferred practices in common situations, but is not a book of required standards intended to incorporate all designs or every situation.

This Manual is based on established practices and is supplemented by recent research. It presents valuable information in an understandable format that will provide the designer with many years of practical use. This Manual will require adjustments, additions, and deletions to keep abreast of improved technology resulting from continuing research and experience.

TRANSPORTATION SYSTEMS MANAGEMENT AND OPERATIONS UNIT TRANSPORTATION MOBILITY AND SAFETY DIVISION NORTH CAROLINA DEPARTMENT OF TRANSPORTATION

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