Introduction

The North Carolina Department of Transportation's Traffic Management and Signal Systems Unit has prepared 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 details, and communications cable routing plans prepared for the NCDOT.

The intention 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.

This Manual is based on established practices and is supplemented by recent research. This Manual will require adjustments, additions, and deletions to keep abreast of improved technology resulting from continuing research and experience.

I hope this Manual presents valuable information in an understandable format that will provide the designer with many years of practical use.

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