

**Chapter Thirty-five**  
**PLAN PREPARATION**  
**(Safety Design)**

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## Chapter Thirty-five

# PLAN PREPARATION (Safety Design)

[Chapter Three](#) in Part I addresses issues applicable to all Traffic design units involved in the preparation of construction plans, including information on sheet sizes, drafting guidelines, computerized design, etc. Chapter Thirty-five presents procedures that are specific to the preparation of safety plans. Chapter Four of the [MDT Road Design Manual](#) presents the guidelines for the content of the plan sheets that are also applicable to safety design projects.

### 35.1 GENERAL GUIDELINES

#### 35.1.1 Example Safety Plans

When developing a set of construction plans, it is often useful to review an example set. The “[Typical Plan Sheets](#)” in [Part VII](#) of the [MDT Traffic Engineering Manual](#) provides a typical set of construction plans including safety plan sheets.

#### 35.1.2 CADD Standards for Safety Plans

The [MDT CADD Standards Manual](#) provides guidelines on CADD file management, file naming conventions, cell libraries, drafting symbols, etc., that should be used when preparing safety plans.

#### 35.1.3 MDT Detailed Drawings

The [MDT Detailed Drawings](#) provide information on design elements that are consistent from project to project. They typically are not included in the plan set but, rather, are referenced as needed on individual plan sheets. [Section 4.2.4](#) provides additional information on the [MDT Detailed Drawings](#).

## **35.1.4 Organization of Safety Plans**

### **35.1.4.1 Sheet Sequence**

For consistency from project to project, the construction plan sheets for safety design projects should be assembled in the sequence presented in [Section 3.1.2.1](#).

### **35.1.4.2 Sheet Numbers**

Consistently using the MDT sheet numbering convention is important. The Title Sheet will be considered as page one but will not be numbered. All other sheets within the plan set will be numbered according to the guidelines presented in [Section 3.1.2.2](#).

## **35.1.5 Drafting Guidelines**

The drafting of individual plan sheets will be performed using the MicroStation CADD and GEOPAK software packages. [Section 3.2](#) and [MDT CADD Standards Manual](#) provides specific drafting guidelines (e.g., plan abbreviations, stationing, levels, sheet breaks) that should be employed when preparing construction plans for safety design projects.

## **35.2 PLAN SHEET CONTENT**

Chapter Four of the MDT Road Design Manual presents guidelines on the content of plan sheets that are also applicable for safety design projects.

