



## Florida Department of Transportation

JEB BUSH  
GOVERNOR

605 Suwannee Street  
Tallahassee, FL 32399-0450  
MS-32

THOMAS F. BARRY, JR.  
SECRETARY

**DATE:** October 26, 2001

**TO:** Registered Plans Preparation Manual Holders

**FROM:** Brian Blanchard, P.E.  
State Roadway Design Engineer

**CC:** Billy Hattaway, William Nickas

**SUBJECT:** IMPLEMENTATION - PLANS PREPARATION MANUAL  
JANUARY 2002 UPDATES

The January 2002 Updates include:

1. Revisions to Plans Preparation Manual (PPM), Volume I English, January 2000.
2. Revisions to PPM, Volume II English, January 2000.
3. Revisions to PPM, Volume I Metric, January 1998 (To be sent at a later date).
4. Revisions to PPM, Volume II Metric, January 1999 (To be sent at a later date).

The revisions to the English and Metric manuals are nearly identical except for units of measure. The only other difference is that for the English updates, the chapters that were updated have been reformatted and the complete chapter has been reprinted. The Metric updates will consist of page inserts. The major changes in design requirements included in both the English and Metric revisions are to be implemented as follows:

### **Volume I, Chapter 1, Section 1.10 Public Involvement**

#### **SUMMARY OF CHANGE:**

This section has been added to support the Department's current policy on Public Involvement Opportunities by focusing on the design phase of a project. Corresponding language regarding public involvement has also been added to the bullets in Sections 13.2 and 25.3 of Volume I.

#### **IMPLEMENTATION:**

These changes support an existing Department policy and existing Community Awareness Plan (CAP) guidelines that have been previously developed by each District. These changes apply to both English and Metric projects.

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**Volume I Chapter 2, Section 2.0 General**

SUMMARY OF CHANGE:

Language has been added to address existing project features on reconstruction projects that were designed to meet minimum metric criteria but mathematically may be slightly less than the English equivalents, and that these features do not require design exceptions or variations. Corresponding language has been added to Section 25.4 of Volume I.

IMPLEMENTATION:

These changes are to be implemented on all applicable projects beginning immediately. These changes are addressed in the English PPM only.

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**Volume I Chapter 2, Section 2.0 General**

SUMMARY OF CHANGE:

Language has been added to address the Florida Greenbook as the source for design criteria for roads that are not on the State Highway System.

IMPLEMENTATION:

This change is to be implemented on all applicable projects beginning immediately. This change applies to English and Metric projects (although the Florida Greenbook does not contain Metric criteria).

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**Volume I Chapter 2, Section 2.1.5 Cross Slopes**

SUMMARY OF CHANGE:

Language has been added to this section to address maximum algebraic difference in cross slope at turning roadway terminals. These criteria are presented in the new Table 2.1.4.

IMPLEMENTATION:

This change is to be implemented on all applicable projects beginning design as of January 1, 2002. This change applies to English and Metric projects.

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**Volume I Chapter 2, Section 2.1.8 Number of Lanes on the State Highway System**

SUMMARY OF CHANGE:

This section has been revised because the Department Policy regarding the maximum number of lanes on the State Highway System has been rescinded. A new Department Procedure and Florida Statutes now govern the number of lanes on the State Highway System. The table that corresponded with the rescinded policy (the old Table 2.1.4) has been removed.

IMPLEMENTATION:

This change was implemented when the Policy was rescinded March 23, 2001. This change applies to English and Metric projects.

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**Volume I Chapter 2, Section 2.10.1 Vertical Clearance Over Water**

SUMMARY OF CHANGE:

This section has been revised to clarify the source of approval of structures that do not conform to the criteria for vertical clearance over water.

IMPLEMENTATION:

This change is to be implemented on all applicable projects beginning immediately. This change applies to English and Metric projects.

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**Volume I Chapter 2, Section 2.12 Bridge Railings and Separators**

SUMMARY OF CHANGE:

New language has been added to this section that references the Structures Design Guidelines and gives guidance on the disposition of existing bridge rails on reconstruction projects.

IMPLEMENTATION:

This change is to be implemented on all applicable projects beginning immediately. This change applies to both English and Metric projects.

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**Volume I Chapter 2, Figure 2.0.4 Bridge Section**

SUMMARY OF CHANGE:

Language has been revised to address the bridge shoulder width and to clarify traffic barrier and pedestrian railing placement.

IMPLEMENTATION:

These changes are to be implemented on all applicable projects beginning design as of January 1, 2002. These changes apply to English and Metric projects.

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**Volume I Chapter 2, Table 2.3.1 Shoulder Widths and Slopes - Freeways**

SUMMARY OF CHANGE:

The outside shoulder width for Auxiliary Lane Mainline Terminal (1-Lane Ramp) has been revised to match the Mainline outside shoulder width.

IMPLEMENTATION:

This change is to be implemented on all applicable projects beginning design as of January 1, 2002. This change applies to English and Metric projects.

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**Volume I Chapter 4, Section 4.5.2 Selection**

SUMMARY OF CHANGE:

The list of standardized crash cushions has been removed and been replaced by a reference to the Design Standards.

IMPLEMENTATION:

This change is to be implemented on all applicable projects beginning immediately. This change applies to both English and Metric projects.

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**Volume I Chapter 7, Section 7.3.8 Grounding**

SUMMARY OF CHANGE:

This section has been added to provide new grounding requirements for lighting systems. The method of payment has also been revised (see the Basis of Estimates (BOE) cover letter dated October 1, 2001 for details).

IMPLEMENTATION:

This change is to be implemented on all applicable projects beginning with the July 2002 letting. This change applies to both English and Metric projects.

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**Volume I Chapter 7, Section 7.4.1 Design Criteria**

SUMMARY OF CHANGE:

Language regarding the horizontal clearance to signal poles and controller cabinets for signals has been added. Corresponding changes have been made to Tables 2.11.4, 23.4.13, and 25.4.14.5 of Volume I.

IMPLEMENTATION:

These changes are to be implemented on all applicable projects beginning design as of January 2002. These changes apply to English and Metric projects.

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**Volume I Chapter 7, Section 7.4.9 Grounding and Electrical Bonding**

SUMMARY OF CHANGE:

This section has been added to provide new grounding requirements for traffic signal components. The method of payment has also been revised (see the BOE cover letter dated October 1, 2001 for details).

IMPLEMENTATION:

This change is to be implemented on all applicable projects beginning with the July 2002 letting. This change applies to both English and Metric projects.

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**Volume I Chapter 8, Section 8.4.1 Bicycle Lanes (Designated)**

SUMMARY OF CHANGE:

This section has been revised to clarify requirements on bicycle lane width and location. Corresponding language was revised Section 8.4.2 of Volume I.

IMPLEMENTATION:

These changes are to be implemented on all applicable projects beginning design as of January 1, 2002. These changes applies to both Metric and English projects.

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**Volume I Chapter 10, Section 10.4 Traffic Control Plans (TCP)**

SUMMARY OF CHANGE:

Language regarding temporary actuation of traffic signals (number 8 on list) was revised. A corresponding revision has been made to Section 10.10.4 of Volume I. For further information, see the BOE cover letter dated April 1, 2001.

IMPLEMENTATION:

These changes are to be implemented on applicable projects beginning with the January 2002 letting. These changes apply to both English and Metric projects.

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**Volume I Chapter 10, Section 10.7.2 Training Requirements**

SUMMARY OF CHANGE:

This section has been revised to include the Department's new requirements for work zone traffic control training.

IMPLEMENTATION:

Persons requiring training must be trained prior to January 2002.

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**Volume I Chapter 10, Section 10.13.6 Temporary Curb**

SUMMARY OF CHANGE:

A note has been added regarding the discontinuation of the use of temporary curb. For further information, see the BOE cover letter dated October 1, 2001.

IMPLEMENTATION:

This change is to be implemented on all applicable projects beginning with the October 2002 letting. This change applies to both English and Metric projects.

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### **Volume I Chapter 11, Section 11.1 General**

**SUMMARY OF CHANGE:**

The language regarding Storm Water Pollution Prevention Plan (SWPPP) requirements and applicable permits has been revised. A corresponding revision has been made to Section 11.2.3 of Volume I.

**IMPLEMENTATION:**

These changes are to be implemented on all applicable projects beginning immediately. Further implementation requirements are given within the revised language. These changes apply to both English and Metric projects.

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### **Volume I Chapter 17, Engineering Design Estimate Process**

**SUMMARY OF CHANGE:**

This chapter has been revised to include the use of TRNS\*PORT for contract estimating. Corresponding changes have been included in Chapter 4 of Volume II.

**IMPLEMENTATION:**

Migration to TRNS\*PORT is to be effective on all applicable projects beginning with the October 2002 letting. See the BOE Cover Letter dated October 1, 2001 for further implementation requirements. This change applies to both English and Metric projects.

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### **Volume I Chapter 17, Section 17.4.1.1 Plan Quantity / Section 17.4.1.2 Final Measurement Concept**

**SUMMARY OF CHANGE:**

These sections have been added to give clarification on plan quantity and final measure items. Corresponding changes have been made to Section 17.5 of Volume I.

**IMPLEMENTATION:**

These changes have previously been implemented. See the BOE cover letter dated April 1, 2001. These changes apply to both English and Metric projects.

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### **Volume I Chapter 22, Lump Sum Project Guidelines**

**SUMMARY OF CHANGE:**

This is a new chapter that contains the Lump Sum Project Guidelines that were contained in Department Directive 625-010-030.

**IMPLEMENTATION:**

The guidelines contained in this chapter become effective on February 1, 2002. The current Directive (625-010-030) may be used on all applicable projects until it expires on January 31, 2002. These changes apply to both English and Metric projects.

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**Volume I Chapter 23, Section 23.1 General**

SUMMARY OF CHANGE:

Language regarding design exception and design variation requirements on safety improvement projects has been added as a clarification to existing requirements.

IMPLEMENTATION:

This change is based on a FHWA letter to the State Highway Engineer dated June 1, 2000 regarding the use of Hazard Elimination Funds. As a result, this change is to be implemented on all applicable projects beginning immediately. This change applies to both English and Metric projects.

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**Volume I Chapter 23, Section 23.2 Justification and Documentation**

SUMMARY OF CHANGE:

The discount rate to be utilized in a benefit/cost analysis has been reduced to 5%.

IMPLEMENTATION:

This change is to be effective on any benefit/cost analyses completed on January 1, 2002 or thereafter. This change applies to both English and Metric projects.

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**Volume II Chapter 3, Section 3.2.1 Financial Project ID, Federal Funds, County Name and State Road Number**

SUMMARY OF CHANGE:

Language has been added regarding the proper way to show the Financial Project ID's on plans that have multiple Financial Project ID's.

IMPLEMENTATION:

This change is to be implemented on all applicable projects beginning with the July 2002 letting. This change applies to both English and Metric projects.

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**Volume II Chapter 3, Section 3.3 Project Location Map**

SUMMARY OF CHANGE:

This section has been revised to include language regarding the availability of county maps in Raster format on the Internet or on CD.

IMPLEMENTATION:

This change is to be effective immediately as the county maps are now available in Raster format. This change applies to both English and Metric projects.

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**Volume II Chapter 6, Section 6.2 Mandatory Information**

SUMMARY OF CHANGE:

This section has been revised to include language regarding including a detail for an asphalt curb pad on the typical section of projects that call for Asphalt Base, Type 12.5 only. Corresponding changes have been made in Volume II to Exhibit TYP-6A and Exhibit 7-1, Sheet 1 of 3.

IMPLEMENTATION:

These changes may be used on all applicable projects beginning immediately. These changes apply to both English and Metric projects.

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**Volume II Chapter 7, Exhibit SQ-2 Summary of Quantities**

SUMMARY OF CHANGE:

The Summary of Guardrail summary box has been modified. Columns have been added so that the locations of Pedestrian Safety Treatment and Rub Rail can be identified

IMPLEMENTATION:

This change is to be implemented on all applicable projects beginning with the July 2002 letting, however the new guardrail summary box may be utilized immediately. These changes apply to both English and Metric projects.

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All other changes in the January, 2002 Plans Preparation Manual updates package primarily consist of minor editing for clarification and/or error corrections.

If you have any questions please contact this office, 850-414-4318, Suncom 994-4318.