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TRAFFIC ENGINEERING AND OPERATIONS BULLETIN 23-01

DATE: November 1, 2023

TO: District Traffic Operations Engineers, District Design Engineers,

District Maintenance Engineers, District Program Management Engineers

and Administrators, District Safety Administrators

FROM: Rudy Powell, P.E.

Director, State Traffic Engineering and Operations Office

DocuSigned by:

COPIES: Will Watts, Dan Hurtado, Tim Lattner, Michael Shepard, Lance Grace,

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SUBJECT: Release of the 2024 Traffic Engineering Manual

This bulletin announces the release of the *2024 Traffic Engineering Manual (TEM)*, which is available on the State Traffic Engineering and Operations website: https://www.fdot.gov/traffic/TrafficServices/Studies/TEM/TEM.shtm

SUMMARY OF REVISIONS

The TEM as a whole has received updates to links for outdated references and cross-referencing for tables and figures. Chapters 3, 4, and 5 have been completely rewritten to follow the Federal Plain Language Guidelines along with receiving an updated format. The following updates are also included in this release.

Chapter 3: Signals

- All Sections: Updated terminology to be consistent with current practices. Updated references to match current Florida Traffic Plans sign numbering.
- Section 3.1.3 –FLASHING MODE APPLICATIONS: Added guidance on when to choose redred vs. yellow-red flashing mode. Updated language to include all turn arrow indications.
- Section 3.1.6 INTERSECTION CONTROL BEACONS INSTALLATION AND OPERATION REQUIREMENTS: Updated guidance to clarify the requirements for new beacons.

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- Section 3.2 GUIDELINES FOR LEFT TURN TREATMENT: Added Variable Left-Turn Mode definition and display guidance.
- Section 3.3 SCHEDULING INTERSECTION CONTROL EVALUATIONS AND FUNDING ARRANGEMENTS: Updated Traffic Signal Maintenance and Compensation Agreement procedure to match current practice.
- Section 3.4.4 EMERGENCY SIGNAL CONFIGURATION AND OPERATION: Updated Figure 3.4-1 to match written guidance.
- Section 3.5 TRAFFIC SIGNAL MAST ARM SUPPORT BOUNDARIES: Updated boundary map description.
- Section 3.7.4 APS REQUEST REVIEW PROCESS: Clarified District Traffic Operations Engineer approval on Accessible Pedestrian Signals being required for intersection and midblock signals on the State Highway System.
- Section 3.9 INSTALLING RETROREFLECTIVE SIGNAL BACKPLATES ON EXISTING STRUCTURES: Updated procedure for use of Flexible Retroreflective Backplates on existing mast arm and span wire structures.
- Section 3.10 FLASHING YELLOW ARROW SIGNAL APPLICATION: Included background information on Flashing Red Arrow Signal Application. Clarified installation guidance on replacing a five-section signal head with a four-section Flashing Yellow Arrow signal head.

Chapter 4: Markings

- Section 4.1 CROSSWALKS IN HEAVY PEDESTRIAN CONCENTRATION AREAS: Updated crosswalk width to 10 feet for midblock locations per Standard Plan Index 711 001
- **Section 4.1.2. END OF PEDESTRIAN CROSSING** sign updated from 8x3 to 8x4 per Standard Plan Index 700-102 and Speed Zoning Manual.
- Section 4.2 PAVEMENT WORD, SYMBOL, AND ARROW MARKINGS: Clarified steps to complete a Request to Experiment for non-standard word or symbol pavement markings.
- Section 4.2.3 ROUTE SHIELD PAVEMENT MARKINGS: Clarified District Traffic Operations Engineer approval responsibility regarding route shield applications.
- Section 4.2.4 ROUTE SHIELDS FOR WRONG WAY TREATMENT: Updated section name to Route Shields for Interchange Access. Updated language description and images related to the E Bearss Avenue and I-275 interchange with current markings.
- **Section 4.5 EXPRESS LANE MARKINGS:** Updated definitions for clarity.
- Section 4.6 USE OF INTERNALLY ILLUMINATED RAISED PAVEMENT MARKERS: Included additional name of Internally Illuminated Raised Pavement Markers to improve cross-referencing between manuals.

Chapter 5: Specialized Operational Topics

- Section 5.1 GOLF CART CROSSING AND OPERATION ON THE STATE HIGHWAY SYSTEM: Revised the definition of State Roadway.
- **Section 5.2.7.1 PAVEMENT MARKINGS:** Additional guidance on the placement of W11-2 pavement markings.
- Section 5.2.7.2 SIGNS: Updated coordination language for new Traffic Control Device installations.
- Section 5.2.8 TREATMENT OPTIONS SELECTION MATRIX: Revised Midblock Crosswalk and Unsignalized Intersection Selection Guidance Matrix (Figure 5.2-13) to clarify treatment applications.

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COMMENTARY

All revisions in this bulletin ensure accurate and consistent implementation.

IMPLEMENTATION

These changes are effective on projects beginning design on or after January 1, 2024, and on projects currently in the design phase where implementation will not adversely impact production schedules.

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