



MTECC Procedure 7.10.10

Approved: _____

Interim Executive Director

Environmental, Design, Utility and Related Standards

Purpose:

The purpose of this procedure is to outline the procedure for the MTECC in following the appropriate standards for all MTECC projects as established in Federal law and regulations, Florida Statutes and rules, Department of Transportation manuals and procedures and local government requirements.

Authority:

Chapter 163 Interlocal Agency Agreement

Related to FDOT granted projects:

Sections 20.23(3)(a) and 334.048(3), Florida Statutes.

Various Project Grant Agreements

Scope:

This procedure provides guidance for the MTECC Executive Director and teams supporting the design and construction of projects being implemented by MTECC.

Procedure:

Standards and Procedures

The initial projects being considered by the MTECC are projects granted through the Florida Department of Transportation (FDOT) that are mostly through Federal funding for Federal eligible roads that are owned by local governments. This will require the application of FDOT standards and procedures late to the following areas. The MTECC Executive Director is responsible for ensuring that MTECC designs and constructs projects in accordance with the applicable standards and procedures.

Please note this list is intended to be representative and the MTECC Executive Director and experts shall determine the applicable standards, manuals, guidelines, and related items based on the project scope, location, and other key information specific to each project.

The below are from the Florida Department of Transportation.

Environmental:



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- Culture Resources Management Handbook
<https://www.fdot.gov/environment/pubs/cultmgmt/cultmgmt1.shtm>
- NPDES Stormwater - <https://www.fdot.gov/maintenance/npdes-stormwater.shtm>
- Mitigation Payment Handbook <https://www.fdot.gov/maintenance/npdes-stormwater.shtm>
- Public Involvement Handbook <https://www.fdot.gov/planning/policy/publicinvolvement/index>
- Protected Species and Habitats <https://www.fdot.gov/environment/protected-species-and-habitat>
- NEPA Assignment Program/Quality Assurance/Quality Control
https://fdotwww.blob.core.windows.net/sitefinity/docs/default-source/environment/pubs/approved-fdot-oem-qaqc-plan_2016-1222.pdf?sfvrsn=f95dcb67_0
- PD&E Manual <https://www.fdot.gov/environment/pubs/pdeman/pdeman-current>
- Federal section 4(f) de minimis process
[https://fdotwww.blob.core.windows.net/sitefinity/docs/default-source/environment/pubs/4\(f\)/final-de-minimis-procedure-for-fdot.pdf?sfvrsn=4d690fbb_6](https://fdotwww.blob.core.windows.net/sitefinity/docs/default-source/environment/pubs/4(f)/final-de-minimis-procedure-for-fdot.pdf?sfvrsn=4d690fbb_6)
- Section 106 process - https://fdotwww.blob.core.windows.net/sitefinity/docs/default-source/content/environment/pubs/etdm/amendments/executed-amendment-to-section-106-pa.pdf?sfvrsn=739b4aaf_0
- Traffic Noise Modeling - https://fdotwww.blob.core.windows.net/sitefinity/docs/default-source/environment/pubs/final-practitioners-handbook---december-2018-version.pdf?sfvrsn=95bb91d6_2
- FDOT Environmental Management Bulletins and Guidance -
<https://www.fdot.gov/environment/oem-bulletins.shtm>
- This list was not intended to be all inclusive as MTECC is not designed to be planning and environmental lead for projects – for additional information see
<https://www.fdot.gov/environment/publications.shtm>

Design:

- FDOT Design Manual <https://www.fdot.gov/roadway/fdm>
- FDOT Plans Preparation Manual and Standards
<https://www.fdot.gov/roadway/ppmmanual/ppm.shtm>
- Traditional Neighborhood Development Handbook
https://fdotwww.blob.core.windows.net/sitefinity/docs/default-source/roadway/floridagreenbook/tnd-handbook.pdf?sfvrsn=70cd8341_4
- Florida Greenbook <https://www.fdot.gov/roadway/floridagreenbook/fgb.shtm>
- Temporary Traffic Control (Maintenance of Traffic)
<https://www.fdot.gov/roadway/ttc/default.shtm>
- Drainage Manuals and Handbooks -
<https://www.fdot.gov/roadway/drainage/manualsandhandbooks.shtm>



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- Pavement Management <https://www.fdot.gov/roadway/pm/publications.shtm>
- Quality Assurance
 - Training <https://www.fdot.gov/roadway/qa/training.shtm>
 - Help Tools <https://www.fdot.gov/roadway/qa/tools.shtm>
 - Help Links <https://www.fdot.gov/roadway/qa/links.shtm>
- Accessibility/ADA <https://www.fdot.gov/roadway/ada/adaforms.shtm>
- Value Engineering
- CADD Manual <https://www.fdot.gov/cadd/downloads/publications/publications.shtm>
- Structures Manual
<https://www.fdot.gov/structures/structuresmanual/currentrelease/structuresmanual.shtm>
- Soils and Foundation Handbook
https://fdotwww.blob.core.windows.net/sitefinity/docs/default-source/structures/manuals/sfh.pdf?sfvrsn=e6e1db62_2
- Mechanically Stabilized Earth Wall (MSE) Handbook
https://fdotwww.blob.core.windows.net/sitefinity/docs/default-source/content/structures/manuals/mse.pdf?sfvrsn=fc159878_0
- Various Bulletins and Memoranda <https://www.fdot.gov/design/publicationslist.shtm>
- Basis of Estimates Manual
<https://www.fdot.gov/programmanagement/utilities/buyamerica.shtm>
- Standard Specifications for Road and Bridge Construction
<https://www.fdot.gov/programmanagement/specs.shtm>
- Design-Build Specifications
<https://www.fdot.gov/programmanagement/implemented/designbuild/default.shtm>
- Local Agency Program Specifications
<https://www.fdot.gov/programmanagement/implemented/lap/default.shtm>
- Push Button Specifications
<https://www.fdot.gov/programmanagement/otherfdotlinks/pushbutton/default.shtm>
- Surveying and Mapping Handbook
https://fdotwww.blob.core.windows.net/sitefinity/docs/default-source/geospatial/documentsandpubs/surveying-and-mapping-handbook.pdf?sfvrsn=593bb55c_18
- Geographic Information Systems
https://fdotwww.blob.core.windows.net/sitefinity/docs/default-source/content/it/oitmanual/chapter22gisinfotechnologyresourceusersmanual.pdf?sfvrsn=f01067ce_0



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Construction and Inspection:

- Construction Project Administration Manual
<https://www.fdot.gov/construction/manuals/cpam/cpammanual.shtm>
- Construction Training & Qualification Manual
<https://www.fdot.gov/construction/manuals/ctqm/ctqm.shtm>
- Review and Administration Manual
<https://www.fdot.gov/construction/manuals/ctqm/ctqm.shtm>
- QA/QC Guidelines <https://www.fdot.gov/construction/constadm/guidelist/guideindex.shtm>
- Fuel & Bituminous Average Price Index <https://www.fdot.gov/construction/fuel-bit/fuel-bit.shtm>
- Materials Price Adjustment (MPA) Index <https://www.fdot.gov/construction/material-price-adjustment>
- Basis of Estimates Manual
<https://www.fdot.gov/programmanagement/utilities/buyamerica.shtm>
- Cost Trends Reports
<https://www.fdot.gov/programmanagement/estimates/documents/costtrendreports>
- Monthly Estimates <https://www.fdot.gov/construction/estimates/ftpeestimates.shtm>
- Final Estimates <https://www.fdot.gov/construction/finalestimates/fehome.shtm>
- Wage Rates <https://www.fdot.gov/construction/wage.shtm>
- Suspended Contractors List <https://www.fdot.gov/construction/legal/newsuspension.shtm>
- Prequalified Contractors List (search)
<https://fdotwp1.dot.state.fl.us/contractorprequalification/public/PrequalifiedVendorSearch.aspx>
- Approved Products List <https://fdotwp1.dot.state.fl.us/ApprovedProductList/Specifications>
- Innovative Products List
<https://fdotwp1.dot.state.fl.us/ApprovedProductList/Specifications?IsDevSpec=True>
- Program Office Bulletins <https://www.fdot.gov/programmanagement/publications.shtm>
- FDOT Materials Office (materials testing and approved sites) <https://www.fdot.gov/materials>

Utilities:

- Utility Accommodation Manual https://fdotwww.blob.core.windows.net/sitefinity/docs/default-source/programmanagement/programmanagement/utilities/docs/uam/uam2017.pdf?sfvrsn=d97fd3dd_0
- Utility Procedures Manual https://fdotwww.blob.core.windows.net/sitefinity/docs/default-source/programmanagement/utilities/docs/uam/700-030-001-adopted.pdf?sfvrsn=5c101b2c_14



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- Wireless Facilities https://fdotwww.blob.core.windows.net/sitefinity/docs/default-source/programmanagement/utilities/docs/general/wireless-rule-14-46-005-f-a-c1766235796.pdf?sfvrsn=8435a7ca_4
- Buy American Guidance for Utilities <https://www.fdot.gov/programmanagement/utilities/buyamerica.shtm>

Traffic Engineering and Operations:

- Florida Highway Guide Sign Program <https://www.flrules.org/gateway/ChapterHome.asp?Chapter=14-51>
- Guide to Highway Vulnerability Assessment for Critical Asset Identification and Protection <https://trid.trb.org/view/718608>
- Manual on Intersection Control Evaluation <https://www.fdot.gov/traffic/trafficservices/intersection-operations.shtm>
- Manual on Uniform Traffic Control Devices (MUTCD) <https://www.fdot.gov/traffic/trafficservices/mutcd.shtm>
- Manual on Uniform Traffic Studies <https://www.fdot.gov/traffic/trafficservices/studies/muts/muts.shtm>
- Roundabouts: An Informational Guide https://fdotwww.blob.core.windows.net/sitefinity/docs/default-source/content/traffic/doc_library/pdf/nchrp_rpt_672.pdf?sfvrsn=7220b035_0
- Speed Zoning for Highways, Roads, and Streets in Florida <https://www.fdot.gov/traffic/speedzone/Speed-Zone-Manual.shtm>
- Traffic Engineering Manual <https://www.fdot.gov/traffic/trafficservices/studies/tem/tem.shtm>
- Leading Pedestrian Interval Programming https://fdotwww.blob.core.windows.net/sitefinity/docs/default-source/traffic/doc_library/leading-pedestrian-interval-programming-version-1-0.pdf?sfvrsn=d03e7395_2
- ITS Integration Guidebook https://fdotwww.blob.core.windows.net/sitefinity/docs/default-source/traffic/traffic/doc_library/pdf/its_integration_guidebook.pdf?sfvrsn=6ab3abe_0
- Connected & Automated Vehicles, Arterial Management, Wrong-Way Driving, and Managed Lanes <https://www.fdot.gov/traffic/doc-library/doc-library.shtm>