



Florida Department of
TRANSPORTATION



Typical Section Package

**Guidance for Scoping, Preparing, & Reviewing Typical
Section Packages for Florida's Turnpike Enterprise**

Updated April 2023

Purpose

FDOT Design Manual (FDM) – Section 120.2.3

- Typical section package purpose is to establish and document:
 - Project Controls
 - Cross Sectional Elements
 - Traffic Data
 - Potential Design Exceptions and Variations related to typical sections
- Prepare typical section package for:
 - Projects that alter cross section elements
 - Resurfacing projects

Approval Process

FDOT Design Manual (FDM) – Section 120.2.3.1

- PD&E
 - Preparation & coordination prior to preferred alternative selection
 - Approval signatures after the preferred alternative selected
- No PD&E
 - Preparation & coordination completed during initial engineering process (*FDM 110*)
 - Approval signatures prior to the final engineering process (*FDM 111*)

Approval Process

- Submittal requirements (*Turnpike Best Practices*)
 - DRAFT package must be submitted to Turnpike for review prior to 45% traffic control plan workshop and plans submittal
 - FINAL package must be signed by the Turnpike Design Engineer before Phase II plans will be accepted for review
- Concurrence signatures must be obtained using DocuSign prior to package signing & sealing (*FDM 120.2.3.1*)
 - EOR submits final package without signing & sealing as required to achieve concurrence signatures through DocuSign
 - After package has received signatures, Turnpike PM will provide signed package to the EOR to sign & seal

Approval Process

- Local Agency Concurrence (*Turnpike Best Practices*)
 - For changes to local roadways due to proposed improvements, typical sections for the crossroad(s) must be included in the package
 - EOR and Turnpike PM must coordinate with owning/maintaining agency to assure proposed sections meets agency requirements
 - Determine which local agency staff person(s) is responsible for signing the typical section package
 - When possible, include local agency staff in the package review
 - EOR can choose to prepare separate package for the crossroads
 - Turnpike PM coordinates the distribution of the typical section package through DocuSign for local agency concurrence

What Warrants a Section

FDOT Design Manual (FDM) – Section 120.2.3.3

- Roadway and bridges within project limits that include:
 - Change in the number of lanes or Project Controls
 - Change in facility type (e.g., flush shoulder to curbed roadway)
 - Intersecting roadways when significant work length is required
 - Toll sites (ramp and mainline) representing 100' under toll gantry
 - New, widened, or modified bridges
- If major changes planned after initial construction, include ultimate configuration in sections (*Turnpike Best Practices & General Tolling Requirements (GTR) 201.1(2) for all toll sites*)

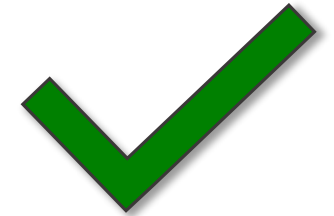
What Does NOT Warrant a Section

- Changes in traffic lanes such as turn lanes and auxiliary lanes
- Changes in construction type (new construction, resurfacing)
- Changes in end condition type (shoulder gutter w/ guardrail, barrier wall, traffic railing on retaining wall)
- Transitions between typical sections
- Temporary MOT conditions (both roadway and bridges)
- Direction of traffic for ramps
- Short roadway and bridge sections that are non-typical
- Changes in pavement designs

What Information is Required

FDOT Design Manual (FDM) – Section 120.2.3.3

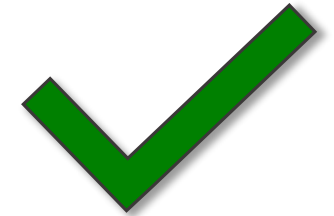
- All required information is available during PD&E and Initial Engineering Process
- Major elements to include:
 - Project Controls (Context Classification, Functional Classification, Highway System, Access Classification)
 - Design Criteria (Indicate the type of construction)
 - Anticipated Design Exceptions and Variations related to typical sections
 - Traffic Data



What Information is Required

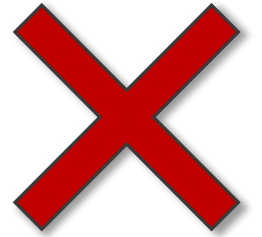
FDOT Design Manual (FDM) – Section 120.2.3.3

- Major elements to include (cont.):
 - Roadway, Toll Site, and Bridge Cross Sectional Elements
 - R/W, Border Width, and Clear Zone
 - Lane width, shoulder width, and cross slopes
 - Managed lane buffers (*Turnpike Best Practices*)
 - Curb & gutter, barriers, and median
 - Front/back slopes, and ditches
 - Sidewalks and shared used paths
 - Toll equipment building and gantries, etc.
 - Florida Gas Transmission (FGT) lines and specified width
 - Minimum vertical clearance for bridge sections (*Turnpike Best Practices*)



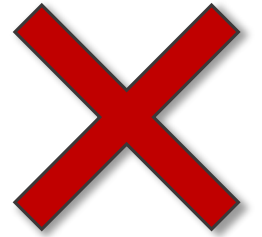
What Information is NOT Required

- Construction labels/info such as:
 - Standard clearing & grubbing
 - Saw cut, widening, milling & resurfacing, friction course
 - Sod, fence, limits of construction, etc.
- Directions to the contractor such as:
 - “Existing”, “To Remain”, “To Be Removed”
 - “Proposed”, “Construct”, “Install”, “Replace”, etc.
- For bridges - showing beams



What Information is NOT Required

- Defining roadside end conditions such as:
 - Shoulder gutter w/ guardrail, shoulder barrier
 - Traffic railing on retaining wall
 - Superelevated roadway sections
 - Traffic lanes (turn lanes/aux. lanes), etc.
- Duplicating typical section info such as:
 - Showing mainline typical section along with the ramp typical section when the mainline is defined elsewhere
 - Providing multiple ramp typical sections for each interchange quadrant



Scoping, Preparing & Reviewing Tips

- Only scope and prepare typical sections required by FDM
- Only include the information required by the FDM
- Construction plans include additional sections and details for various construction activities and end conditions – Do NOT include these in the typical section package
- Goal of typical section package is to minimize number of typical sections and document predominant roadway conditions (number of lanes; lane, shoulder & median width)

Scoping, Preparing & Reviewing Tips

- Avoid construction labels, info, and directions to contractor
- If the info is not available during PD&E or initial engineering process, then it does NOT belong in typical section package
- Department reviewers should NOT request sections that aren't included in the scope or request info to be added not required by FDM
- Consultant EORs should NOT prepare sections that aren't included in the scope, required by FDM, or that duplicate other sections already developed

Scoping, Preparing & Reviewing Tips

- Include the *Typical Section Package Checklist* found on the [Turnpike Design Website/Roadway](#) with the submittal - requires signatures from the Consultant EOR and Project Quality Manager

Please Send any Questions or
Comments to

Turnpike Design

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