

Design-Build & Specifications



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Outline

- ◆ Introductions
- ◆ Why FDOT uses Design-Build
- ◆ Design-Build Specifications Packages
- ◆ Design-Build “Boiler Plate” – How it is put together
- ◆ Design-Build Specifications
 - ✓ Design-Build Pick-List
 - ✓ Design-Build Attachments to RFP
- ◆ Using TSPs on Design-Build

Introductions

- ◆ Daniel Scheer, P.E. – State Specifications Engineer
 - ✓ 11 Years in Private Industry – Segmental Concrete Bridge Design
 - ✓ 2 Years in State Structures Design Office
 - ✓ Spring 2013 – State Specifications Engineer
 - ✓ US Navy Reserve Civil Engineer Corps Officer

- ◆ Alan Autry – State Construction Administration Specialist
 - ✓ 17 Years Transportation Industry Experience
 - 4 Years Private Industry – Consultant CEI
 - 8 Years District
 - 5 Years State Construction Office

Design-Build Specifications Packages

- ◆ Specification packages for Design Build projects are developed by the Design-Build Firm using the implemented specifications applicable for the date the Bid Price Proposals are due (letting).
- ◆ The Division I specifications are developed by the Department using a boilerplate provided by the State Specifications Office posted on the web at the following url: <http://www.dot.state.fl.us/specificationsoffice/Implemented/DesignBuild/Default.shtm>
- ◆ Certain Special Provisions that may be applicable for Design Build projects are also posted on the web site and may be inserted into the boilerplate as necessary.
- ◆ The completed Division I specification along with any Division II Special Provisions, Developmental Specification, or Modified Special Provisions required by the Department are attached to the Request for Proposal.

Design-Build Specifications Packages

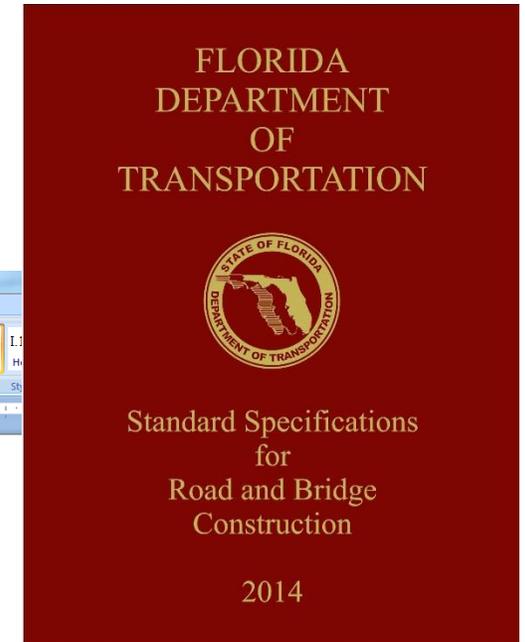
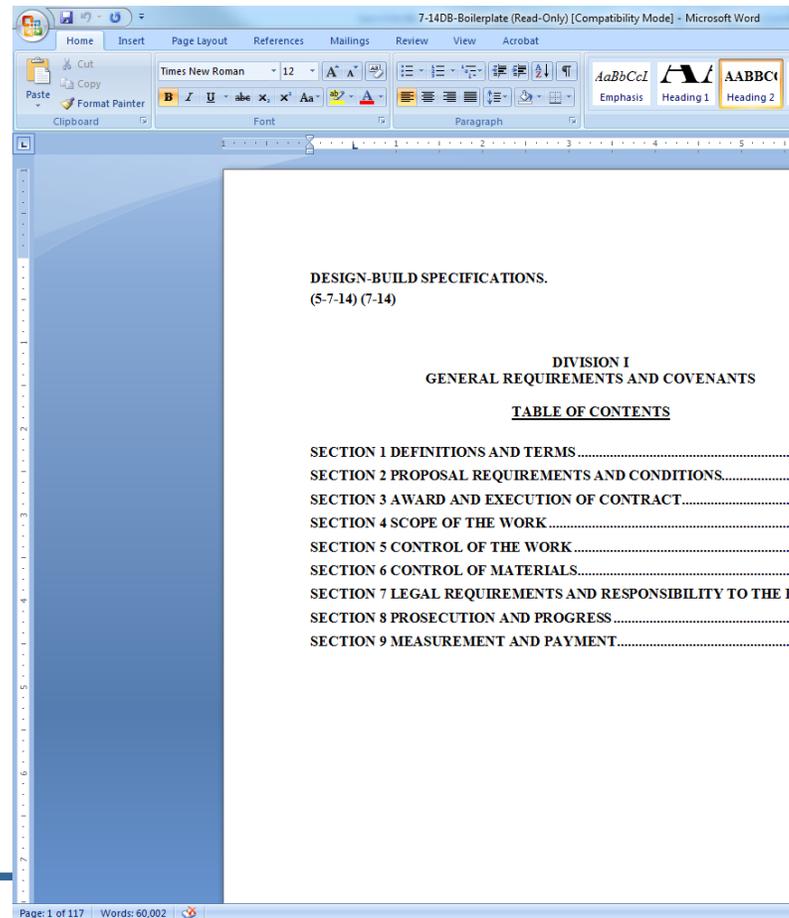
- ◆ The Division II and III specifications are required to be incorporated into Specifications Package to be stamped “Released for Construction” prior to the Design-Build beginning work on any item governed by the applicable Division II or III specification.
- ◆ Any changes to the Specifications Package that are within the scope of the original work will be added by Supplemental Specifications Package. Any changes to the Specifications Package that are outside of the original scope of work will be added by Supplemental Agreement or Work Order.
- ◆ More information regarding Design Build may be found on the Construction web site: <http://www.dot.state.fl.us/construction/DesignBuild/Design-Build.shtm>

Why FDOT uses Design-Build

- ◆ Offers the Department the ability to more rapidly advance a project.
- ◆ Promotes Innovation from the Contractor & Designer Team
- ◆ Promotes Win-Win and Partnership between the Contractor & Design Team
- ◆ Is a Cost-Effective delivery method that achieves required Technical Competence
- ◆ Department recognizes that D/B is not the best solution for all projects, but is a good project delivery method when applied to the right project.

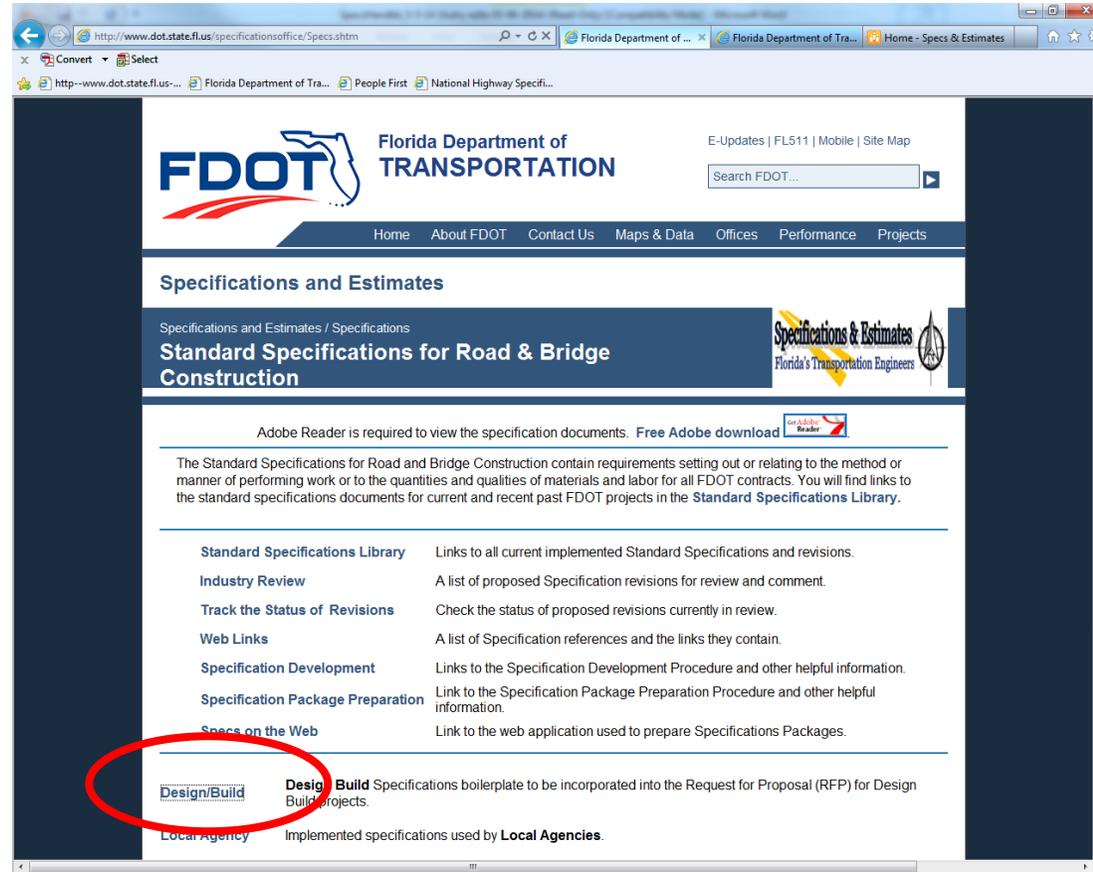
Design-Build “Boiler Plate” – How it is put together

- ◆ Modified Division I of the Standard Specifications for Road and Bridge Construction
- ◆ Utilize ‘Pre-Scoping’ Questions to Build the RFP Document



Design-Build “Boiler Plate” – How it is put together

◆ Step 1: Main Standard Specifications Website



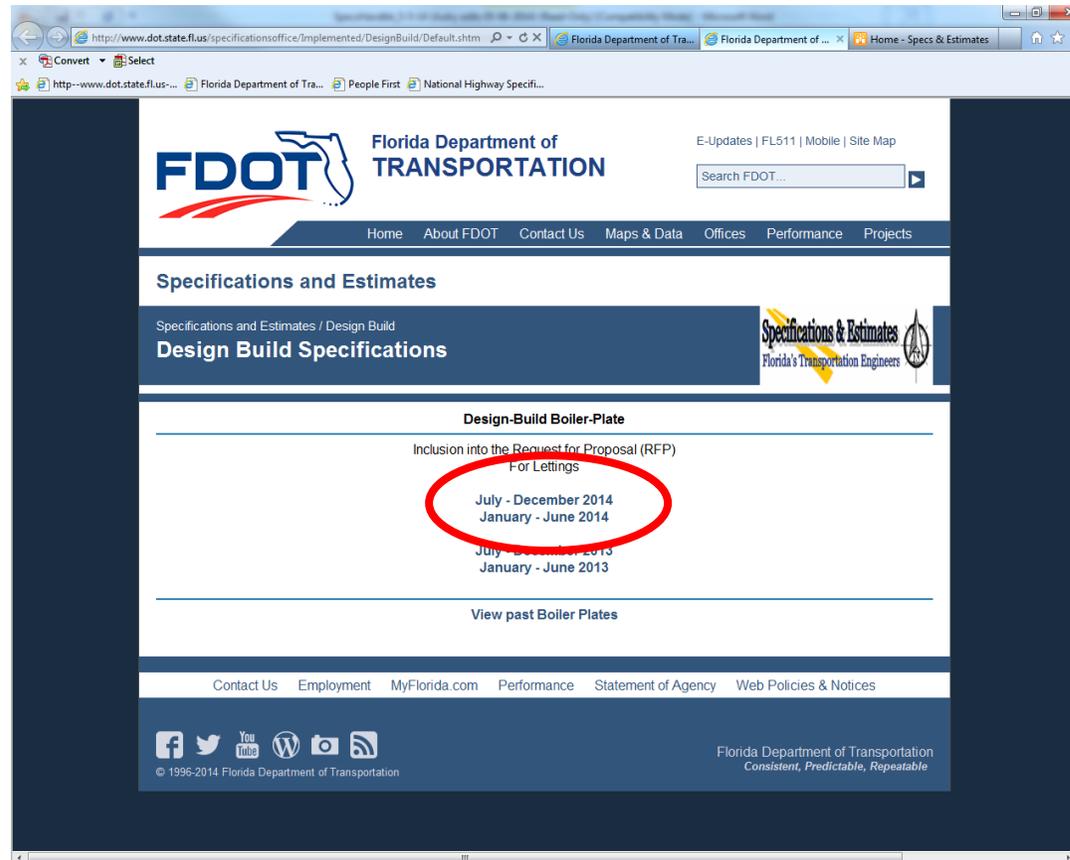
The screenshot shows the FDOT website's 'Specifications and Estimates' page. The header includes the FDOT logo and navigation links. The main content area is titled 'Standard Specifications for Road & Bridge Construction'. Below this, there is a section for 'Specs on the Web' with a red circle around the 'Design/Build' link. The page also features a search bar and a list of links for various specification-related activities.

Link	Description
Standard Specifications Library	Links to all current implemented Standard Specifications and revisions.
Industry Review	A list of proposed Specification revisions for review and comment.
Track the Status of Revisions	Check the status of proposed revisions currently in review.
Web Links	A list of Specification references and the links they contain.
Specification Development	Links to the Specification Development Procedure and other helpful information.
Specification Package Preparation	Link to the Specification Package Preparation Procedure and other helpful information.
Specs on the Web	Link to the web application used to prepare Specifications Packages.
Design/Build	Design/Build Specifications boilerplate to be incorporated into the Request for Proposal (RFP) for Design/Build projects.
Local Agency	Implemented specifications used by Local Agencies.

– <http://www.dot.state.fl.us/specificationsoffice/specs.shtm>

Design-Build “Boiler Plate” – How it is put together

◆ Step 2: Design-Build Boiler-Plate Website



– <http://www.dot.state.fl.us/specificationsoffice/Implemented/DesignBuild/Default.shtm>

Design-Build “Boiler Plate” – How it is put together

◆ Step 3: Design-Build Pick-List Website



The screenshot shows the FDOT website with the following content:

- Header: FDOT Florida Department of TRANSPORTATION. Search FDOT... E-Updates | FL511 | Mobile | Site Map
- Navigation: Home About FDOT Contact Us Maps & Data Offices Performance Projects
- Section: Specifications and Estimates
- Sub-section: Specifications and Estimates / Design Build
- Page Title: Design Build Specifications - July - December 2014
- Section: Design-Build Boiler-Plate July - December 2014
- Text: The Design-Build Boilerplate* is the Division I Master Document to be used in the Request for Proposal (RFP) for Design-Build projects.
- Section: Design Build Pick-List
- Note: NOTE: The files below contain optional text which may be incorporated into the Design-Build Boilerplate for inclusion into the RFP, to create specific Contract language.
- Table:

File	Title	Usage Notes
To Change Award and Execution Time		
SP0030200	Award and Execution of Contract	When necessary to change standard "Award and Execution"
Design Build Finance		
SP0030600DBF	Execution of Contract and Bond	Use on Design Build Finance projects
Structures Over 1500 Feet in Length (over water)		
SP0050901	Inspection	Long bridge jobs (1500 feet or longer); modify to suit
Preference to State Residents		
SP0072700	Preference to State Residents	All Non-Federal Aid Projects
Legal Requirements and Responsibility to the Public - Title VI Assurance - DOT 1050.2, Appendix A		
Toll Facility (Turnpike Enterprise Only)		

– <http://www.dot.state.fl.us/specificationsoffice/Implemented/DesignBuild/HistoryDB/July14/Default.shtm>

Design-Build Specifications

◆ Design-Build Pick-List

- ✓ Special Provisions that **MAY** be incorporated by the Department into the D/B Boilerplate
- ✓ Creates more specific Contract Language
- ✓ Boilerplate and D/B SPs are on the Department Website for viewing – Complete Transparency.

Design Build Pick-List

NOTE: The files below contain optional text which may be incorporated into the Design-Build Boilerplate for inclusion into the RFP, to create specific Contract language.

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To Change Award and Execution Time		
SP0030200	Award and Execution of Contract	When necessary to change standard "Award and Execution"
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Preference to State Residents		
SP0072700	Preference to State Residents	All Non-Federal Aid Projects
Legal Requirements and Responsibility to the Public - Title VI Assurance - DOT 1050.2, Appendix A		
Toll Facility (Turnpike Enterprise Only)		
SP0070201TP-711	Permits and Licenses (No free passes will be issued to the Contractor for use on the Toll Facility)	All Turnpike Enterprise Jobs.
Operations Within Railroad Right-of-Way		
SP0071104	Operations within CSX Railroad Right-of-Way	Use on Projects involving CSX Transportation.
Partnering		
SP0080306	Prosecution of Work - Partnering	999-16
Disputes Review Board		
SP0080307RDRB	Regional Disputes Review Board	Jobs without Pay Item No. 999-20
Jobs with Lighting		
SP0080409	Contaminated Material - Mercury-Containing Devices and Lamps	Jobs with lighting.
Damage Recovery		
SP0081300	Damage Recovery	Use when requested by the District Construction Engineer. (Do not use with Lane Rental.)
Alternative Bidding		

Design-Build Specifications

- ◆ Design-Build Attachments
 - ✓ Special Provisions that **MAY** be ADDED by the Department to the D/B Contract
 - ✓ Replace Standard Specifications in eBook
 - ✓ D/B Value Added Specs Included
 - ✓ Attachment SPs are on the Department Website for viewing – Complete Transparency.

Design Build Attachments to the RFP
NOTE: The files below may be added to the RFP as attachments, when required.

DIVISION I CHANGES		
SP0073000	Title VI Assurance	All Federal Aid Projects (Mandatory # 1 - 3/14 Implementation)
DIVISION II CHANGES		
SP1050813DB	Contractor Quality Control General Requirements	Use when Geotechnical Services are required for the project.
SP4550000DB	Structures Foundations	Use when Geotechnical Services are required for the project.
VALUE ADDED DEVELOPMENTAL SPECS		
DEV475	Value Added Bridge Components	Use when requested and approved by the District Construction Engineer.
DEV725	Value Added Highway Lighting System	Use when requested and approved by the District Construction Engineer.

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Consistent, Predictable, Repeatable

Using TSPs on Design-Build

- ◆ A TSP must complement the plans, specifications, and other contract documents and not create any conflicts.
- ◆ A TSP must describe the work to be performed, identify the material requirements, describe the construction or installation requirements, and state how the item will be measured and paid.
- ◆ All TSPs are project specific so any previous TSPs used as references should be reviewed in detail before incorporation.

Using TSPs on Design-Build

- ◆ District Specifications Office Responsibilities:
 - ✓ **Shall** review all TSPs for compliance with Department requirements for specification development and format and for potential conflicts with the plans and specifications.
 - ✓ Performed in accordance with the District Quality Control Plan.
 - ✓ Shall coordinate the legal review with the Office of General Counsel.

- ◆ Central Office - The State Specifications and Estimates Office Responsibilities:
 - ✓ **May** assist the districts with the review or coordinating the review of a TSP when requested.
 - ✓ **Will** perform post-letting reviews and maintain a list of TSPs to track usage so frequently used TSPs can be identified for potential further development and implementation.

Using TSPs on Design-Build

◆ Guidelines:

- ✓ Do not use a TSP to override an implemented specification
- ✓ Do not use a TSP to modify Sections 1 thru 9 of an implemented specifications
- ✓ Do not use statements such as, "if a conflict exists, the more stringent requirement prevails."
- ✓ Avoid special requirements for the material or construction of concrete
- ✓ Use performance criteria
- ✓ Do not use sketches, pictures or drawings in a TSP

Using TSPs on Design-Build

◆ Guidelines:

- ✓ Do not reference the Approved Products List
- ✓ Do not specify a contractor's warranty or increase the time period of a standard manufacturer's warranty. Standard manufacturer's warranties should be transferable to the Department at final acceptance
- ✓ Do not require bidders to submit documents or data with the bid or include forms that may imply that they be returned with the bid
- ✓ Do not include cost estimates, summary of quantities, traffic control phasing, work schedules, or names of suppliers

Using TSPs on Design-Build Proprietary Products

- ◆ Provide justification if a patented or proprietary product or process is required. Refer to the Guidance for Approval of Proprietary Products on the State Specifications and Estimates Office website and the Construction Program Guide- Patented and Proprietary Products on the FHWA website at the following URLs:

<http://www.fhwa.dot.gov/construction/cqit/propriet.cfm>

- ◆ Guidance for Approval of Proprietary Products

<http://www.dot.state.fl.us/specificationsoffice/PackagePreparation/WritingAids/Default.shtm>

Using TSPs on Design-Build Proprietary Products

- ◆ Do not require a patented or proprietary product or process with the term “or equal.”
- ◆ Use either of the following methods for traffic signals which must be compatible with a countywide computerized traffic control system:
 - (a) Add a note on the plans stating "Must be compatible with (Broward, etc.) County Traffic Control System."
 - (b) Add a TSP with the details required instead of using a plan note.

Tell Us What's On Your Mind...



QUESTIONS

Dan Scheer & Alan Autry

Central Office, Tallahassee, FL