

Scope of Services for Concurrent PD&E and Design Phases

USER'S QUICK GUIDE



PURPOSE

This Quick Guide helps Florida Department of Transportation (FDOT) Project Managers and staff from the District Design and Environmental Offices understand the Standard Scope of Services and Staff Hour Estimation Guidelines for projects with concurrent Project Development and Environment (PD&E) and Design phases. These projects have both phases procured under one contract as major work items. The intent of performing PD&E and Design phases concurrently is to streamline the project development process by realizing efficiencies from early identification of project scope and issues through cross-functional reviews and elimination of rework or redundant activities during PD&E and Design phases. A successful streamlining of the project development process requires effective integration of planning, engineering and environmental functions through continuous coordination between staff from Planning, Design, and Environmental offices. Through such collaboration, the development of the project can realize a balanced consideration of engineering and environmental issues.

Concurrent Project Delivery Process



APPLICABILITY

Typical projects that would combine PD&E and Design phases are those with fewer environmental issues and lesser degree of engineering complexity. Therefore, PD&E studies for some Type 2 Categorical Exclusions (CEs) or State Environmental Impact Reports (SEIRs) may be procured concurrently with the Design phase. The decision to overlap PD&E and Design phases must come from the Work Program Development process where both phases should be programmed and funded in the same year.

Type 2 CE and SEIR projects that MAY be scoped and procured with concurrent PD&E and Design phases are:

- ✓ Roadway projects where only one Build Alternative is evaluated against the No-Build Alternative
- ✓ Projects that do not involve complex interchange or intersection modifications
- ✓ Bridge replacement projects which do not involve segmental concrete bridge or movable span

Projects that ARE NOT scoped and procured with concurrent PD&E and Design phases:

- ✗ All projects involving segmental concrete bridge or movable span
- ✗ All projects which require preparation of Environmental Impact Statement (EIS) or Environmental Assessment (EA)

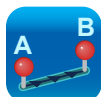
PROJECT MANAGER RESPONSIBILITIES

The Project Manager is responsible for developing the Scope of Services for the project as well as gathering information essential to scope the project. To clarify and focus the scope to the issues that are relevant to the project while achieving project goals, the Project Manager may modify (or customize) the scope language with project specific information. The Project Manager should pay close attention to work items that support both PD&E and Design activities to include data and analysis necessary for both phases and avoid repetition of work. Additionally, the Project Manager is responsible for identifying the project team members, conducting the scoping kickoff meeting, communicating with relevant offices concerning their scope of work, and reviewing the required budget and initial schedule to perform PD&E study and Design services concurrently.

FIRST THINGS FIRST

The Project Manager should use the scoping kickoff meeting to obtain a consensus on major items such as preliminary alternatives (including line and grade) and key environmental issues with a goal of eliminating or minimizing rework, scope creep, schedule slips, cost overruns and other risks by resolving or addressing issues before the development of the project begins. The scoping kickoff meeting should include staff from Design and Environmental offices, and other offices such as traffic operations, work program, right of way, construction, and planning that are essential for development of the project. Ideally, the scoping kickoff meeting would discuss the purpose and need, preliminary alternatives, design criteria, scope, and degree of engineering complexity of the project.

Specifically, before preparing the Scope of Services for concurrent PD&E and Design phases, the Project Manager should do the following:



Understand the Purpose and Need for the project and confirm the project limits.



Confirm both phases are funded concurrently in the Adopted Work Program.



Review the Efficient Transportation Decision Making (ETDM) Programming Screen Summary Report to become familiar with the environmental issues that the project will address.



Obtain and review previously completed planning studies.



Request data from Planning, Safety, Roadway, Structures, Survey, and Mapping, and other offices as appropriate.



Obtain and review project scoping or Statewide Acceleration Transformation (SWAT) meeting notes and recommendations.



Review the initial project schedule and budget, and adjust planned dates as needed.

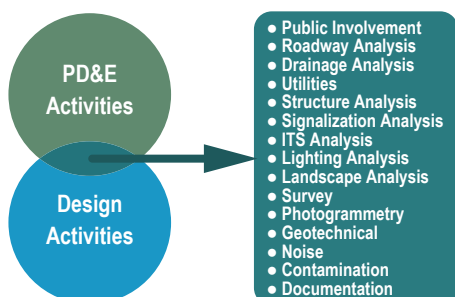


Identify potential project risks (both project development and construction).



Obtain input from subject matter experts on project issues that may affect the scope.

ACTIVITIES THAT OVERLAP PD&E AND DESIGN PHASES



Activities that overlap both phases are scoped in either PD&E Study or Design phase to allow for the most logical way of minimizing linear sequencing of tasks to expedite project development, reduce rework, eliminate redundancy, and shorten schedules.

STRUCTURE OF THE STANDARD SCOPE OF SERVICES

The Standard Scope of Services for Concurrent PD&E and Design Phases tracks the efforts for completing PD&E (Work Group 2.0) and Design (Work Group 3 and 4). Like the Standard Scope of Services for “standalone” Design Services, the Standard Scope of Services for Concurrent PD&E and Design Phases is organized into thirty-eight (38) sections that group tasks into major work activities. The activities from the Standard Scope of Services for PD&E Studies were merged into the Design Standard Scope of Services, with a reorganization of the first three sections to allow for a dedicated section of PD&E study activities.

MERGING PD&E ACTIVITIES INTO THE DESIGN SCOPE OF SERVICES

Activities from the Standard Scope of Services for PD&E Studies were merged into the Standard Scope of Services for Design services by creating new sections or modifying appropriate sections of the Design Scope.

Final Design activities (beyond Phase II Plans) for federal projects **MUST NOT** proceed until NEPA document is approved.

Existing PD&E Scope of Services Activity	Concurrent PD&E and Design Scope of Services Activity
1 Scope of Services Purpose	1 Purpose and Project Description
2 Project Description and Objectives	
3 Public Involvement	2b Public Involvement
	3a Preliminary Engineering Analysis
4 Engineering Analysis and Considerations	4 Roadway Analysis
	6a Drainage Analysis
	7 Utilities and Railroads
	10 Structures - Bridge Development Report
5 Environmental Analysis and Report	3b Environmental Analysis and Report
	32 Noise Analysis and Noise Barrier Design
6 Environmental Document	3c Environmental Document

OUTLINE OF THE STANDARD SCOPE OF SERVICES FOR CONCURRENT PD&E AND DESIGN PHASES

The outline of the Standard Scope of Services for concurrent PD&E and Design phases includes major changes in the first three sections as follows:

- Section 2 of the “standalone” Scope of Services for Design Services is merged with Section 1.
- Section 3 is retitled Section 2 and is broken into Section 2a. Project Common and General Tasks and Section 2b. Public Involvement.
- Section 3 is repurposed for PD&E tasks with three subsections: 3a. Preliminary Engineering Analysis, 3b. Environmental Analysis and Report, and 3c. Environmental Document.

Additionally, Section 8 includes only tasks to prepare environmental permits. Environmental clearance and re-evaluation are merged into Section 3c.

Except for Sections 7, 8, and 32, titles for Sections 4 through 38 did not change.

Existing Design Scope of Services	Concurrent PD&E and Design Scope of Services
1 Purpose	1 Purpose and Project Description
2 Project Description	2a Project Common and Project General Tasks
3 Project Common and Project General Tasks	2b Public Involvement
4 Roadway Analysis	3a Preliminary Engineering Analysis
5 Roadway Plans	3b Environmental Analysis and Reports
6a Drainage Analysis	3c Environmental Document
6b Drainage Plans	4 Roadway Analysis
7 Utilities	5 Roadway Plans
8 Environmental Permits, Compliance, and Environmental Clearances	6a Drainage Analysis
9 Structures - Summary and Miscellaneous Tasks and Drawings	6b Drainage Plans
10 Structures - Bridge Development Report	7 Utilities and Railroads
11 Structures - Temporary Bridge	8 Environmental Permits
12 Structures - Short Span Concrete Bridge	9 Structures - Summary and Miscellaneous Tasks and Drawings
13 Structures - Medium Span Concrete Bridge	10 Structures - Bridge Development Report
14 Structures - Structural Steel Bridge	11 Structures - Temporary Bridge
15 Structures - Segmental Concrete Bridge	12 Structures - Short Span Concrete Bridge
	13 Structures - Medium Span Concrete Bridge
	14 Structures - Structural Steel Bridge
	15 Structures - Segmental Concrete Bridge

MODIFIED DESIGN ACTIVITIES IN THE SCOPE FOR CONCURRENT PHASES

Existing Design Scope of Services Activity	Description of Change into Concurrent PD&E and Design Scope of Services
1 Purpose	Combined with Project Description
2 Project Description	Added PD&E related information
3 Project Common and Project General Tasks	Broken into 2a. Project Common and Project General Tasks and 2b. Public Involvement
4 Roadway Analysis	Added preliminary engineering tasks
6a Drainage Analysis	Added preliminary engineering tasks
8 Environmental Permits	Moved environmental clearance to PD&E task
10 Structures - Bridge Development Report	Added preliminary engineering tasks
15 Structures - Segmental Concrete Bridge	NOT APPLICABLE for Concurrent PD&E and Design Scope
16 Structures - Movable Span	NOT APPLICABLE for Concurrent PD&E and Design Scope
32 Noise Analysis and Noise Barrier Design	Added PD&E noise analysis

The Standard Scope of Services for concurrent PD&E and Design phases follows the outline of the Scope of Services for Design Services where some PD&E activities were merged or combined with design activities to the extent practical and redundancies removed as appropriate.

STAFF HOUR ESTIMATION GUIDELINES

Staff Hour Estimation Guidelines and Forms for projects with concurrent PD&E and Design phases have been updated to reflect activities and tasks from the Standard Scope of Services. Ranges of staff hours and their descriptions include efforts for combined PD&E and Design activities while removing potential redundancies on merged activities. As such, ranges of staff hours for some activities have either increased or decreased from their corresponding hours of standalone PD&E study or Design services.

An Example of Modifications to Staff Hour Estimation Guidelines

2b. Public Involvement				
Task No.	Task	Units	Staff Hour Range	Basis for Staff Hour Range
2b	PD&E and Design Public Involvement	LS	See Basis for Staff Hour Range	Itemized tasks in this activity cover effort to support both PD&E and Final Design
2b	Public Involvement Plan	LS	24 32 to 80 112	This task involves the research and coordination necessary to complete the public involvement plan as per Part 1, Chapter 11 of the PD&E Manual and Public Involvement Handbook, and also incorporates the requirements of the Community Awareness Plan per the FDOT Design Manual in the project. Issues such as how information will be disseminated and gathered from the public are to be considered. This does not include website development and updating. Range depends on project length, number of jurisdictions, nearby properties, stakeholders, and controversy potential.

RESOURCES

The Standard Scope of Services and Staff Hour Estimates for projects with concurrent PD&E and Design phases can be found on the FDOT Scope of Services and Staff Hour Estimation page.

<https://www.fdot.gov/designsupport/Scope/default.shtm>