

907 RFP Concept Plans

907.1 General

This chapter provides minimum requirements for the development of Request for Proposal (RFP) Concept Plans that are included as an Attachment to RFP. The requirements of this chapter must be met for Adjusted Score Design-Build Projects and Low Bid Design-Build Projects.

The requirements provided in the **FDM 900 Series** and the **CADD Manual** form the basis for format and assembly of the plans.

Additional information regarding the Design-Build contracting method can be found at:
<https://www.fdot.gov/construction/designbuild/design-build.shtm>

907.2 Index of RFP Concept Plans

Place an index of sheets on the left side of the Key Sheet. Assemble the RFP Concept Plans in the following order:

- (1) Key Sheet (see **Exhibit 907-1**)
- (2) Drainage Map
- (3) Typical Section Details
- (4) Model Management
- (5) Project Control
- (6) Roadway Plan-Profile
- (7) Stormwater Management Facilities
- (8) Soil Survey
- (9) Report of Core Borings
- (10) Selective Clearing and Grubbing
- (11) Mitigation Plan
- (12) Traffic Plan (Signing and &Pavement Marking, Signalization, ITS, Lighting)
- (13) Landscape Plan
- (14) Architectural Plan
- (15) Structures Plan
- (16) Utility Work by Highway Contractor

907.3 RFP Concept Plans Development

Table 907.3.1 provides the minimum information that is to be shown on each sheet of the RFP Concept Plans. Written approval is required from the District Construction Engineer and the Chief Engineer when deviating from the minimum information set forth in **Table 907.3.1**.

Consider exceeding the minimum level of completion for higher risk elements.

Table 907.3.1 RFP Concept Plans Development

SHEET / CONTENT	
KEY SHEET	
Financial Project IDs	
(Federal Funds) notation, if applicable	
County Name and State Road	
Fiscal Year and sheet number	
Consultant's name, address, and contract number, if applicable	
Department Project Manager's name	
List of Component Plan Sets	
Project Location Map (if Lead Key Sheet) and Work Limits	
Index of Sheets including Developmental Standard Plans (when required in RFP)	
Contract plans and component plans list (lead component only)	
DRAINAGE MAP	
Photographic (aerial) base map	
Centerline of construction or baseline of survey and stationing	
North arrow and scale	
Street names and R/W lines	
Begin & end of project stations	
Begin & end of bridges stations	
Drainage areas and flow directions	
Drainage divides and ground elevations	
Highwater information	

Existing structures and pipes with relevant information
State, federal, and county highway numbers
Label existing waterbodies (e.g., lakes, rivers)
Proposed drainage structures with structure numbers
Proposed cross drains with pipe sizes and structure numbers
Flow arrows along proposed ditches
Retention and detention ponds, pond number and area size
Bridges and bridge culverts with begin & end stations
Flood Data Summary (if applicable)
TYPICAL SECTION DETAILS
Project-specific details
MODEL MANAGEMENT
Proposed roadway design and R/W Lines
Baselines
Model information
PROJECT CONTROL
Benchmarks, Reference Points, Control Points

Table 907.3.1 RFP Concept Plans Development (cont.)

SHEET / CONTENT	
ROADWAY PLAN-PROFILE	
Plan View	
Existing topography including utilities	
North arrow and scale	
Centerline of construction or baseline of survey	
Equations and exceptions	
Curve data	
Existing R/W lines	
Begin & end project stations	
Begin & end bridge stations	
Proposed drainage structures with pipes	
Proposed R/W lines	
Proposed side drain pipes	
Proposed geometrics	
Limits of wetlands	
Profile View	
Scale	
Equations	
Existing ground line	
Begin & end project stations	
Begin & end bridge stations	
Highwater elevations	
Final profile grades and vertical curve data	
Nonstandard superelevation transition details	
Highwater elevations	

Table 907.3.1 RFP Concept Plans Development (cont.)

SHEET / CONTENT	
STORMWATER <u>MANAGEMENT</u> FACILITIES	
	North arrow and scale
	Centerline of construction or baseline of survey
	Existing topography, drainage structures, and utilities
	R/W lines
	Soil boring locations
	Fence and gate locations
	Drainage structures with structure and pipe labeling
	Stormwater <u>management</u> facility delineation with side slopes, dimensions, and elevations
	Stormwater <u>management</u> facility section views
	Outlet structure details and notes
	100-year floodplain boundaries and elevations
	Contamination sites, delineated wetlands, and sinkholes and depressions
SOIL SURVEY & REPORT OF CORE BORINGS	
	Soil data

Table 907.3.1 RFP Concept Plans Development (cont.)

SHEET / CONTENT	
TEMPORARY TRAFFIC CONTROL PLAN	
	Typical section for each phase
	Description of the phasing sequence and work involved
	Other worksheets as necessary to convey concept and scope
	Detour plans with off-site detour routing
UTILITY ADJUSTMENTS	
	All existing utilities highlighted with dispositions
	Develop conflict matrix
	General Notes sheet including any work restrictions stipulated by UAOs and limitations on relocations, protections, or adjustments
	Verified utility locations (SUE data)
SELECTIVE CLEARING AND GRUBBING	
	Existing vegetation to be protected, relocated, or removed
	Project-specific notes and details
MITIGATION PLANS	
	Project-specific
TRAFFIC PLAN	
	North arrow and scale
	Basic roadway geometrics
	Begin & end stations and exceptions
	Station equations
	Conflicting utilities, lighting, and drainage
	Guide sign locations with panel legends depicted
	Pavement markings including stop bars and crosswalks
	Signal pole locations shown at correct station location and offset
	Signal head locations
	ITS device locations shown at correct station location and offset
	Light pole symbols shown at correct station location and offset

LANDSCAPE PLAN
Contents are project-specific
ARCHITECTURAL PLAN
Contents are project-specific

Table 907.3.1 RFP Concept Plans Development (cont.)

SHEET / CONTENT	
STRUCTURES PLAN	
Plan and Elevation	
Substructures: For end bents, piers, or intermediate bents, show substructure elements and sizes including all deviations from the typical dimensions, foundation type including element spacing and the arrangement of piles or drilled shafts	
Superstructure: Include cross section showing lanes, shoulders, railings, slab thickness, beam type and spacing and web depth for steel girders. If applicable, show geometric changes in shapes of various components. Also show construction phases and maintenance of traffic data, outline of the existing structure and portions to be removed, and utilities (existing and proposed as available)	
Retaining walls: 1) Submit preliminary control drawings when proprietary or standard cast-in-place walls are proposed 2) Control drawings for critical temporary walls	
Bridge Hydraulics Recommendation Sheet	
Report of core borings	
Proposed construction sequence and methods indicate construction easements and methods of construction access	
Aesthetic details	
Post-tensioning layouts	
Foundation layouts and pile/shaft data table	
Sidewalks: If provided, show preliminary accessible elements	
Special details required by the Engineer or details which are not normally used on Department projects	
UTILITY WORK BY HIGHWAY CONTRACTOR	
Key Sheet	
Mainline plan-profile showing proposed utility horizontal and vertical locations	
Summary of Quantities Sheet	

907.4 RFP Concept Plans Delivery

After the RFP Concept Plans have been reviewed, District comments addressed, and plans updated, submit the following:

- (1) Final RFP Concept Plans
- (2) CADD.zip file
- (3) Typical Section Package
- (4) Toll Siting Technical Memorandum in accordance with the GTR, when applicable

Exhibit 907-1: RFP Concept Plans