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 Facilities
(8) Soil Survey
(9) Report of Core Borings
(10) Selective Clearing and Grubbing
(11) Mitigation Plan
(12) Traffic Plan (S&PM, 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 of Production 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~~URL~~ 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 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 facility delineation with side slopes, dimensions, and elevations
Stormwater 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