

## Construction Document Progress Submittal (70%)

Based on FAA approval of the Design Development Documents (including any adjustments), the Design Team shall prepare for FAA approval, a set of construction documents. These documents shall include drawings and specifications that define in detail all of the requirements for the construction of the Project. The drawings and specifications shall incorporate all of the previously approved fixed and defined components of the Project with regard to the civil, structural, architectural, mechanical, electrical, and other systems, materials, detailed (CSI format) estimates of construction costs, and a design and construction schedule.

The elements of this submission shall reflect the progress of a product that is seventy (70%) percent completed. This submission shall, at a minimum, consist of the following:

### 1. Basis of Design Narrative

The narrative shall include the items discussed in the Design Development submission that are now finalized, or which have been altered due to review comments or modification of the design presented in the previous submittal.

### 2. Schedule for Design and Construction

- A current schedule shall be provided.

### 3. Calculations

The design calculations shall be updated to reflect any changes in the design.

Civil: Completed comprehensive civil calculations.

Structural: Completed comprehensive structural calculations.

Architectural: Completed comprehensive architectural information including Summary Code Analysis on the cover sheet of the documents.

Mechanical: Completed comprehensive mechanical calculations. Completed mechanical layout including placement for lessor provided thermostats.

Electrical: Completed comprehensive electrical calculations.

- Final lighting level calculations identifying for typical areas and site lighting that the design levels have been achieved (Cut sheets of all fixtures shall be provided)
- Final load and short circuit and voltage drop calculations
- Final electrical loads, indicating the sizing of systems using code defined branch circuit, feeder and service calculation methods
- Final Lightning Protection Risk Assessment Value calculation and proposed conclusion
- Final Energy calculations verifying compliance with 10CFR435- 110

#### 4. Construction Documents Progress Drawings

The Design Team shall provide a title sheet and all drawings that will be included in the final construction documents. While not all of these drawings will be completed, there should be enough detail to allow the reviewer to ascertain what plans, elevations, sections, details, diagrams and schedules will make up the final package.

Civil: The civil drawings shall include:

- Erosion and sediment control details
- Details of all non-standard items, such as drop manholes, meter pits, pump stations, etc.
- Additional sheets as needed to provide for a complete graphic depiction of the civil aspects of the project

Structural: The structural drawings shall include:

- Additional sheets as needed to provide for a complete graphic depiction of the structural aspects of the project

Architectural: The architectural drawings shall include:

- Completed floor plans and elevations
- Additional sheets as needed to provide for a complete graphic depiction of the architectural aspects of the project

Mechanical: The mechanical drawings shall include:

- Additional sheets as needed to provide for a complete graphic depiction of the mechanical aspects of the project

Electrical: The electrical drawings shall include:

- Additional sheets as needed to provide for a complete graphic depiction of the electrical aspects of the project

Other Disciplines (if required): These drawings shall include:

- Additional sheets as needed to provide for a complete graphic depiction of that discipline, developed to a level similar to that required of the other major disciplines

#### 5. Specifications

- Include all divisions and subdivisions designated in the outline from the previous submission (Provide sufficient information about labor and materials to enable a thorough overall technical review of the project. Identify the type and quality of all products to be used.)
- Identify intended bid format and supplement the drawings with adequate technical information to fully describe types, sizes, capacities,

workmanship, finishes and other characteristics for all labor, materials and equipment.

- Provide all sections in Microsoft Word format with Track Changes Turned On.
- Specifications shall include: Cover and Title Sheet, Table of Contents, various special conditions to the project (portions of Division 1) including construction phasing, and all technical sections.
- Incorporate the FAA-furnished Division 01
- Develop all divisions and subdivisions toward a completed document that reflects all elements of the project

#### 6. Permitting and Licensing Documentation

The Subcontractor is required to provide and coordinate all required permitting and/or licensing with the local AHJ and provide documentation thereof to the Parsons PM upon request.

#### 7. Electronic Media

Incorporate all drawings into an “AutoCAD”- (version 14 or later) compatible file on a CD-R disc or a thumb drive in addition to the drawing/specification sets required by the Scope of Work. All narrative documentation including a complete progress specification shall also be furnished on a CD-R disc or a thumb drive as a “Word” (Microsoft Office) file.

#### 8. Interior Architectural Finishes/Colors

If the project scope entails Administration/office building, the following is required:

- The DESIGN TEAM shall be required to present the finishes and colors for approval.
- Submit three sets of the final interior solution. Finish Boards shall be of a manageable size, no larger than 20"x30". Samples should be of a reasonable size. Reference each sample to the finish schedule. Carpet samples shall be no smaller than 6"x6".
- The submittal shall include details, lighting cut sheets, enlarged plans of typical sleeping rooms (including furniture), and product specific finish schedules.
- An additional loose blue line copy of the floor plans and finish schedules shall also be provided.
- FAA will review the submittal presented, and will provide comments and approval of the color selections.
- Design Team will confirm the availability of all architectural finish items that are a part of the construction bid package.
- The finishes and colors will not change once they are approved at this submission.