













Benesch-Services



Roadway/Bridges



Environmental



Municipal



Aviation



Buildings



Value Engineering



Railroad



Landscape Architecture



Water Services



Site Development



Geotechnical



Importance of Design Documents

- **Plans** original drawings approved by the Engineer, which are part of the contract and clearly show the following for the proposed work:
 - - Location Dimensions
 - Character Details
- **Specifications** FAA/GDOT required documents that provide instruction on:
- Project Intent Quality and Standards
 - Performance Installation
 - Construction
 Testing
- **Engineer's Report** relevant design information
 - Existing Conditions Calculations

- Historical Date Design Parameters



Design Plans

FAA AC 150/5300-13B

- Cover Sheet
- Index/Notes/Summary of Quantities
- Survey/Existing Conditions
- Construction Safety Phasing Plan
- Demolition/Removal
- Grading/Drainage
- Paving/Geometrics
- Marking
- Lighting/Signage
- Erosion and Sediment Control

Key Elements

- Representative of project goal
- Easy to understand
- Inclusion in design process
- Sufficient detail



Design Plans – Important Aspects

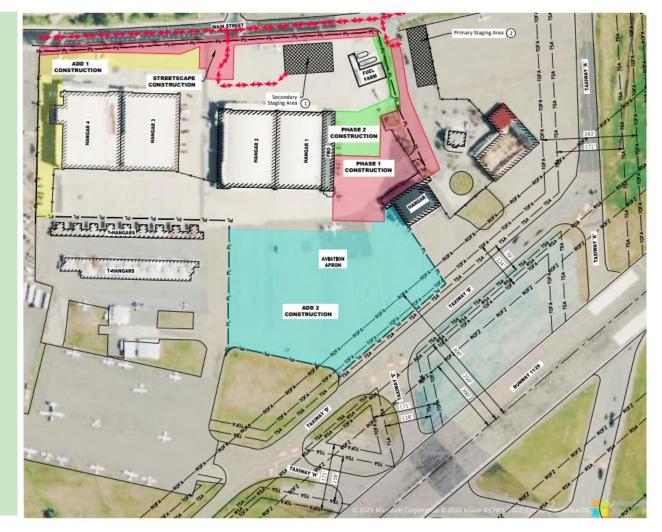
2 Important Plan Sheets

CSPP

- NOTAMs
- Closures
- Moratoriums
- Liquidated Damages
- Calendar Days

· 7460

- Temporary
- Permanent
- Review by GDOTC





Specifications

FAA AC 150/5370-10H GDOT STANDARD SPECIFICATIONS

- General Contract Provisions
 - DBE
 - Buy American
- Construction Items
 - General
 - Site work
 - Pavement
 - Drainage
 - Lighting
- Appendix
 - Geotechnical Report
 - Others

Key Elements

- GDOT vs FAA vs Consultant
- Modifications
- All items accounted for
- Sealed/Signed



Specifications – Important Aspects



Engineer's Report

- Project Scope
- Design Elements
 - Pavement
 - Drainage
 - Erosion
- Airport Safety
- DBE Participation
- Schedule
- Cost
- Meeting Minutes



- Adequately describe project
- Support the design
- Include alternatives/options

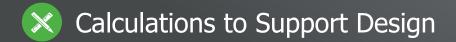


Engineer's Report – Important Aspects

- Applicable AIP Standards
- FAARfield Design
- Hydrology/Hydraulic Designs
- Erosion & Sediment Control BMPs
- Structural Design
- Electrical Calculations

Document





Design Elements & Procedure



Importance of Design Documents

- To develop an Engineered set of drawings that can be utilized to construct the proposed project to meet state and federal design requirements.
- To determine the state and federal standards upon which to build a quality project.
- To document the design and construction process for future development and improvement.



Questions?



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