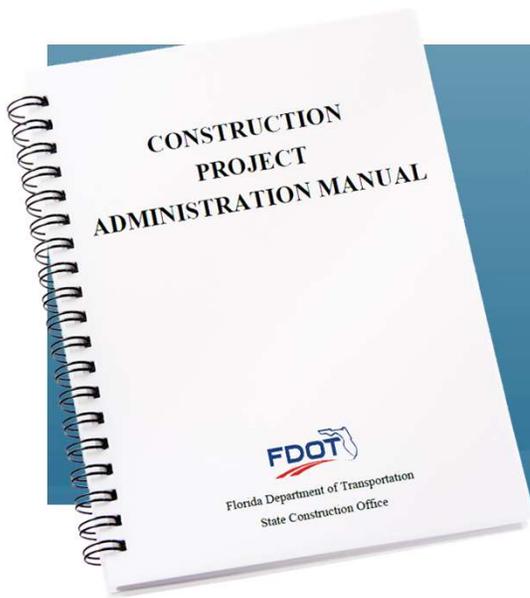


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# CONSTRUCTION PROJECT ADMINISTRATION MANUAL (CPAM)

TOPIC NO. 700-000-000



PRESENTED BY:

**MARLENE SANCHEZ**  
**TURNPIKE ENTERPRISE**  
**DISTRICT FINAL ESTIMATES MANAGER**



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## **TRAINING OBJECTIVE**

**This course will provide an introduction to the written instructions found in CPAM for administering an FDOT project**

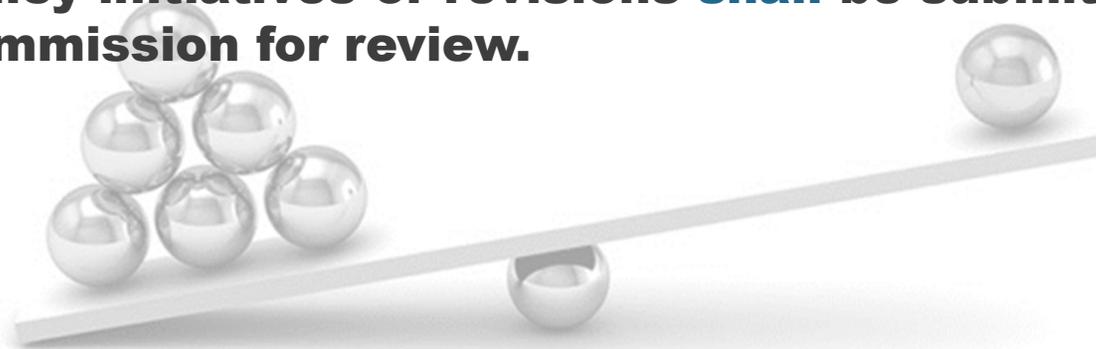


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## WHY HAVE A CPAM? — AUTHORITY

**Sections 20.23(3)(a), and 334.048(3), Florida Statutes (F.S.)**

**20.23(3)(a) The central office shall establish departmental policies, rules, procedures, and standards and shall monitor the implementation of such policies, rules, procedures, and standards in order to ensure uniform compliance and quality performance by the districts and central office units that implement transportation programs. Major transportation policy initiatives or revisions shall be submitted to the commission for review.**





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## PURPOSE OF CPAM?

**CPAM contains instructions for administering Florida Department of Transportation construction contracts and...**

**...describes requirements and procedures for Final Estimate preparation associated with those contracts.**

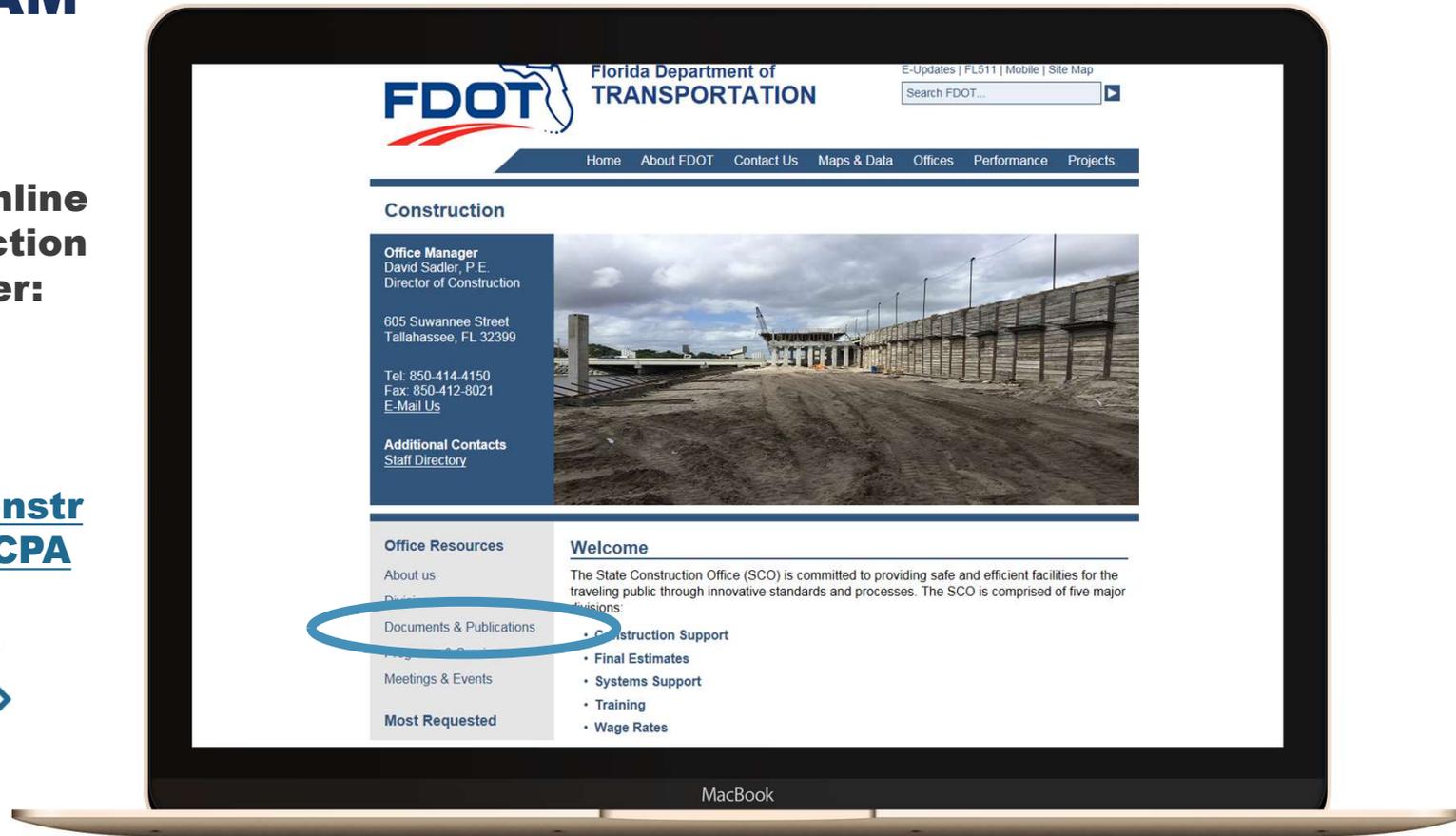
**VERY IMPORTANT** 

**CPAM shall be used in the administration of the project (FL Statute 20.23(3)(a)) but CPAM IS NOT part of the Contractor's contract and SHOULD NOT supersede Contract Documents**

# ONLINE CPAM

**CPAM can be found online on the State Construction Office website under:**  
**Documents and Publications**

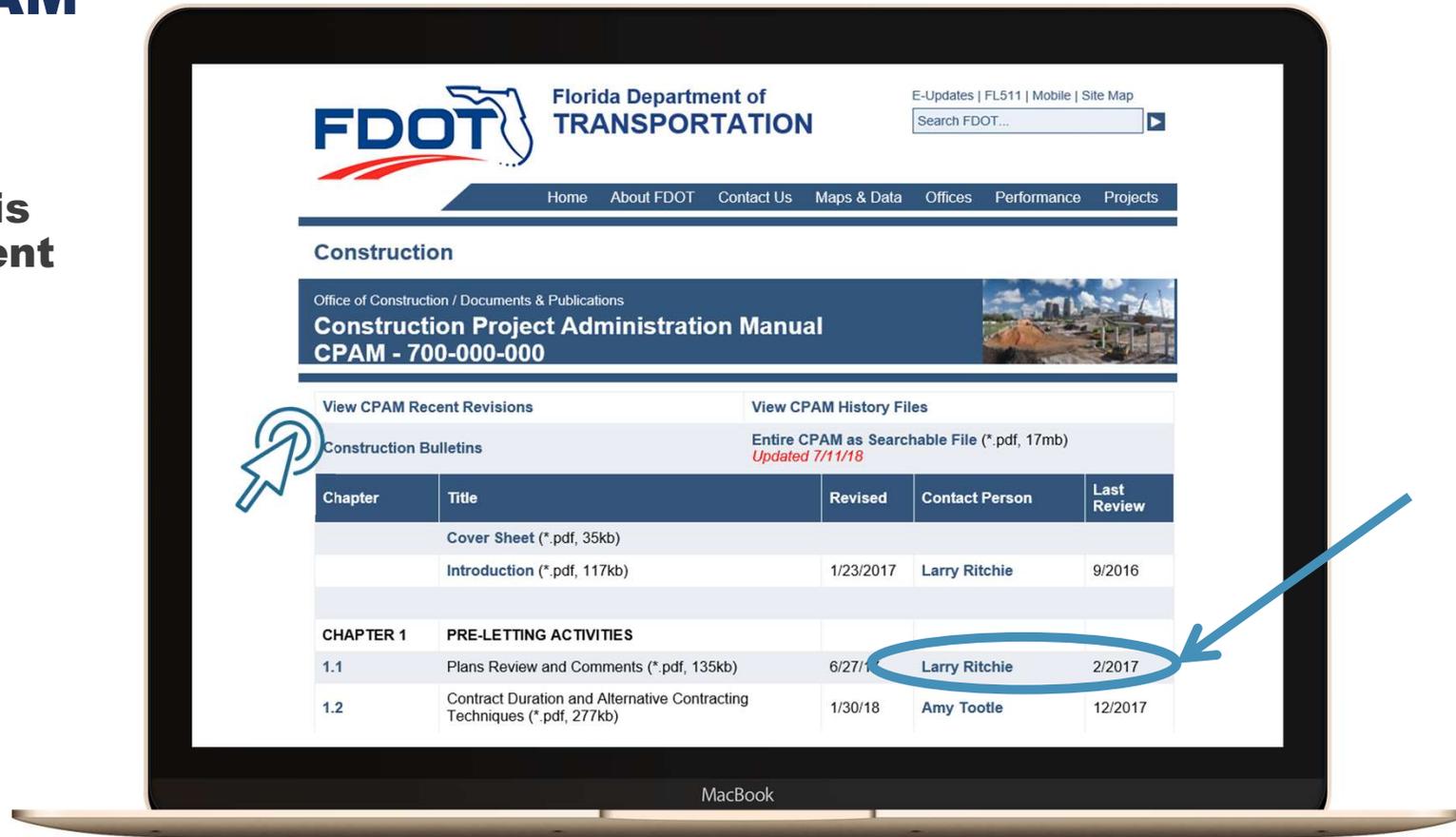
**<http://www.fdot.gov/construction/manuals/cpam/CPAMManual.shtm>**



# ONLINE CPAM

Contact person is identified adjacent to each section.

You can always view recent revisions by clicking on the **View Recent Revisions** link





# **CPAM CHAPTERS/SECTIONS**

- I. Introduction**
- II. Pre-Construction**
- III. Construction**
- IV. Project Closeout**
- V. Performance Ratings**



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## **CPAM CHAPTERS/SECTIONS**

**Each Section is broken out into sub-sections (including but not limited to):**

- ◇ **Purpose**
- ◇ **Authority (typically a Florida Statute)**
- ◇ **References**
- ◇ **Definitions**
- ◇ **General**
- ◇ **Addendums**
- ◇ **Guidance Documents / Flow Charts / Checklists**



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## **INTRODUCTION**

- **Contains an entire glossary of definitions used throughout CPAM**
- **Discusses how Revisions and Additions are made to CPAM**
- **Explains Guidance Documents, Construction Memos, etc.**



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# CHAPTER 1: PRE-LETTING ACTIVITIES

## Section 1.1 Plans Review and Comments

- **This section provides the opportunity for the District Construction Office to become involved in the design element of project development.**
  - **Phases of plans review**
    - Phase I Review (Roadway )
    - Phase II Review (Roadway) and Bridge Plan Reviews
    - Phase III Review and Constructability/Biddability Review
    - Phase IV Review - 100% Plans (Ensure all prior comments are resolved)
  - **Phase Review Checklist – Guidance Document 1-1-A**
  - **Includes “Stages” of Bridge plan development**



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# CHAPTER 1: PRE-LETTING ACTIVITIES

## Section 1.1 Plans Review and Comments

### WHY IT IS IMPORTANT TO YOU?



- ✓ **Common yet impactful conflicts/ ambiguities/ issues can be caught and rectified – You may be called upon to review plans**
- ✓ **Plan Notes (Not dictate means & methods, clear/concise, not conflicting with Specifications and plan details)**
- ✓ **Pay Items (Missing or incorrect)**
- ✓ **Biddability (Can it be constructed?)**



# CHAPTER 1: PRE-LETTING ACTIVITIES

## Section 1.2 Contract Duration and Alternative Contracting Techniques

- **Initiating Specification/Alternative Contracting Techniques**

- ✓ Flextime
- ✓ Special Working Hours & Periods
- ✓ Special Events
- ✓ Schedule
- ✓ Compressed Time or Time Priority
- ✓ Incentive/Disincentive
- ✓ No Excuse Bonus
- ✓ Time plus Money (A+B)
- ✓ Lane Rental
- ✓ Liquidated Savings
- ✓ Damage Recovery and ITS Damage Recovery
- ✓ Special Notices/Directions to Contractor

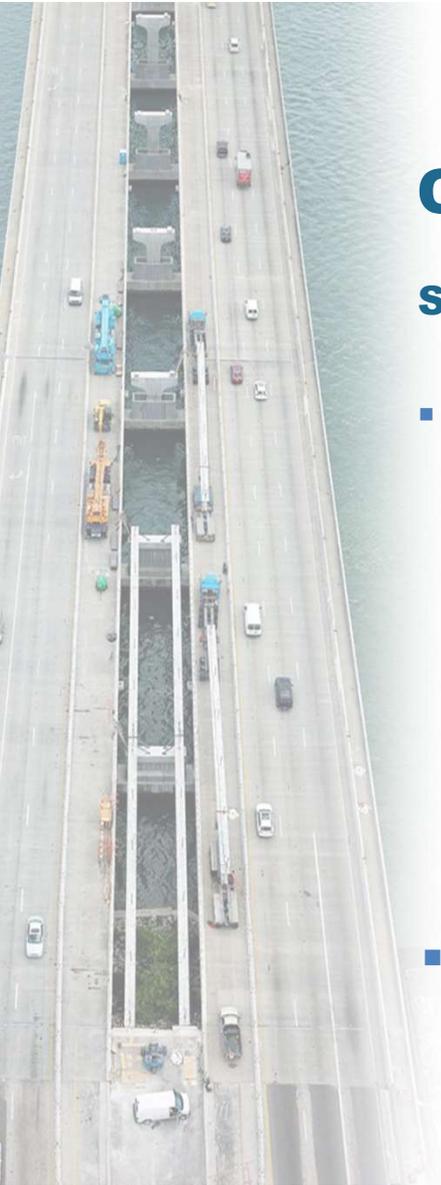
FLORIDA DEPARTMENT OF TRANSPORTATION



GUIDANCE FOR ESTABLISHING  
CONSTRUCTION CONTRACT DURATION

DECEMBER 2021





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# CHAPTER 1: PRE-LETTING ACTIVITIES

## Section 1.3 Pre-Bid Questions and Answers

- **Effort to improve the quality and interpretation of the contract plans by providing clarification and **NOT** to correct errors**
  - **Portal for all pre-bid questions and/or clarification requests**  
<https://fdotwp1.dot.state.fl.us/BidQuestionsAndAnswers/Proposal.aspx/SearchProposal>
  - **District Construction Office is responsible for administration of the Pre-Bid Question and Answer website on the District level**
  - **DCO staff responsible for receiving, coordinating, developing, and then reviewing and approving all proposed responses and all subsequent revisions to previously posted responses**
  
- **BECOMES PART OF CONTRACT DOCUMENTS**





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## CHAPTER 2: OFFICE PREPARATION

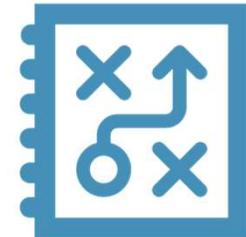
### Section 2.1 Project Scheduling

- **Contractor's Schedule – what is required**
- **Schedule Distribution**
- **Schedule Revision – what constitutes a revision**
- **Withholding Progress Payments**



### Section 2.2 Final Estimates Pre-Planning

- **Plan for documenting final pay quantities**
- **Be familiar with specifications, methods of measurement and payment for each item on project**
- **Final Estimates Kick-off Meeting**





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# CHAPTER 3: PRECONSTRUCTION ACTIVITIES

## Section 3.1 Preconstruction Conference

- **All affected parties should be invited**
- **Scheduling the Conference**
  - After receipt of Notice of Award and prior to any work beginning
- **Up-front planning prior to Conference**
  - Contractor's required information prior to conference (EEO documents, SWPPP, MOT plan, etc.)
- **Agenda & Minutes required**
  - Guidance Document 3-1-A
- **Pre-pave meeting, utility meeting, EEO/DBE meeting set-up/ coordination**



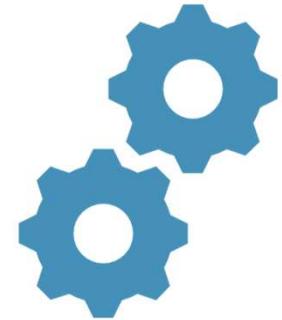


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# CHAPTER 3: PRECONSTRUCTION ACTIVITIES

## Section 3.2 Quality Assurance And Quality Control of Field Operations

- **Explains the Quality Assurance (QA) and Quality Control (QC) process for construction operations**
- **Training Requirements**
  - MUST have completed training directly related to the operation being inspected
- **Documentation**
  - Become familiar with Contract Documents
  - Know what is required and how the finished product is evaluated
  - Know how payment will be made
- **Preparation for Inspection**
  - Pre-Operations Meeting
  - Record-keeping preparation
  - Equipment Preparation
- **Documenting the Inspection**
  - Daily Work Report
- **Understand the provisions for suspending work**





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# CHAPTER 3: PRECONSTRUCTION ACTIVITIES

## Section 3.3 Contractor's Quality Control Plan

### Why have it?



- **Contractor responsible for QC on Department projects. FHWA 23 CFR 637**
- **Section describes the review and approval process of the Contractor's Quality Control Plan (QCP)**
  - Checklist for items to be included in the QC Plan
  - Describes process for suspending Contractor work due to inadequate QC Operations



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# CHAPTER 3: PRECONSTRUCTION ACTIVITIES

## Section 3.4 Dispute Review Board

- **Provide for the use of Dispute Review Board (DRB)**
- **Project Specific and Regional DRB**
  - Member Selection
  - Three Party Agreement
  - Meeting
  - Use of the DRB
  - Payment
- **Request for Hearing**
- **Preparation for Hearing**
- **Recommendation of the Board**





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# CHAPTER 3: PRECONSTRUCTION ACTIVITIES

## Section 3.5 Final Estimates Quality Reviews

- **To provide consistent and quality practices statewide, section provides guidelines for checking and monitoring Final Estimates Process**
  - **Quality Assurance Reviews (QAR) – Performed by Resident office**
  - **Quality Control Reviews (QC)- Performed by District Final Estimates Office (DFEO)**
    - Used to determine effectiveness of Districts QC Plan
- **Process Reviews - Performed by State Final Estimates Office (SFEO)**
  - **Address findings during the progress of the project; clarifies procedures when necessary**
- **Provides Final Estimates Guidelist**
- **Defines frequency of reviews**



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## CHAPTER 4: CONSULTANT CEI MANAGEMENT

### Section 4.1 Administration of Consultant CEI Contracts

- **Role of Consultant CEI**
  - The authority of the CCEI's lead person, such as the Senior Project Engineer, and the Project Administrator shall be identical to the Department's Resident Engineer and Project Administrator respectively and shall be interpreted as such.
  
- **Describes Pre-Service Phase through Final Evaluation**



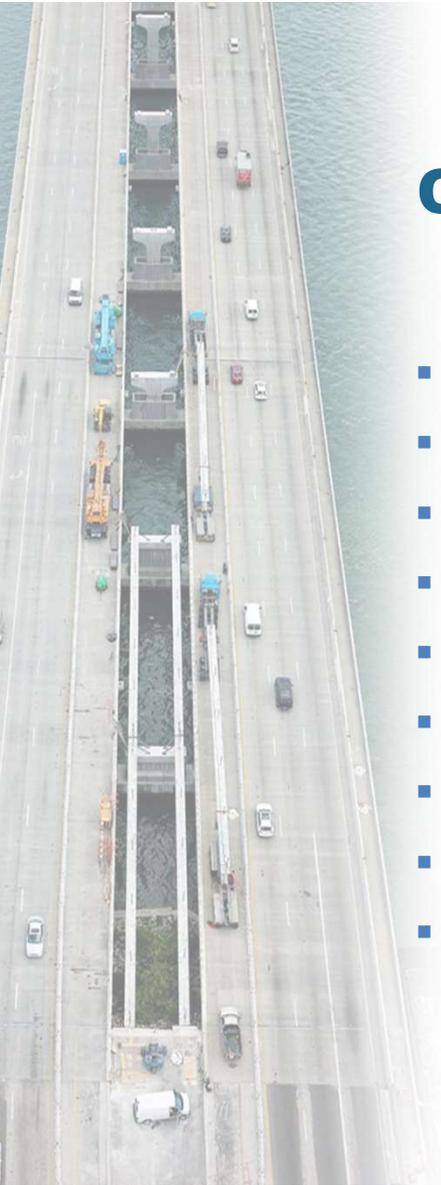
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## CHAPTER 4: CONSULTANT CEI MANAGEMENT

### Section 4.2 Consultant CEI Accountability

- **Establishes procedures for the assignment of responsibility for CEI errors, omissions, or contractual breaches.**
- **Corrective actions for deficiencies**
  - Consultant contract termination





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## CHAPTER 5: PROJECT DOCUMENTATION

- **Project Diary**
- **Contractor Vehicle Registration**
- **Subletting of Contract**
- **Contract Wage Requirements**
- **Equipment Rental**
- **Utility Work**
- **Federal Aid Project Requirements**
- **Control of Materials**
- **Process Review of Construction Engineering & Inspection**
- **Verification Inspection & Testing**
  - W/ Flowchart
- **Final Estimates Documents**
- **Final As-Built Plans Process**
- **Plan Summary Boxes**
- **Field Records and Contractor's Certifications**
- **Final Measurements**
- **Earthwork Notes & Documentation**



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## CHAPTER 5: PROJECT DOCUMENTATION

### Section 5.1 Project Diary

- **Daily Work Reports (Technicians)**
  - Lists items to be included each day
  - One report per inspector, per day
  - Be detailed and accurate – Can be looked at years later to help settle disputes
  
- **Diary (Project Administrators/Project Oversight)**
  - Become familiar with Contract Documents
  - Used to review and approve DWR each day
  - Know what is required and how the finished product is evaluated
  - Know how payment will be made





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## CHAPTER 5: PROJECT DOCUMENTATION

### Section 5.4 Contract Wage Requirements



- **Required on all Federally Funded Projects over \$2,000.**
- **Provides uniform process for reviewing and processing contractor payroll submittals, conducting labor interviews, issuing violations, and adding wage classifications to the contract**
- **Certified Payrolls must be submitted by Contractor**
  - Must include [Statement of Compliance](#)
- **EEO Interviews must be completed – based on \$ amount of contract**
  - Guidance Documents are included in this Section
- **Failure to Submit Required Records may result in withholding payments**



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## CHAPTER 5: PROJECT DOCUMENTATION

### Section 5.5 Equipment Rental

- **Notification to PA in writing of intent to use rental equipment via Form No. 700-010-11**
- **Technician **MUST** note any rental equipment on DWR under equipment and personnel**
  - Does not include delivery equipment used by material suppliers when included in the cost of the material
  - Not a substitute for subcontractor agreements
- **PA will cross check any Notices of Rental Agreement with DWR for equipment/operator information**



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## CHAPTER 5: PROJECT DOCUMENTATION

### Section 5.6 Utility Work

- **Monitoring, documenting and managing the installation and/or adjustments of utilities within construction projects (Design-Bid-Build)**
- **When Utility Work is performed by the Contractor**
  - Technician will oversee the work
  - Technician will indicate the date work began and ended on a DWR and detailed notes regarding potential or found conflicting facilities
- **When Utility Work is performed by the Others**
  - Required to follow FDOT Standards
  - Technician will document that the Utility Agency is performing work on the project and identify the location on his/her DWR.
    - Utilities required to follow Utility Accommodation Manual & Permit

**If conflict arises that impacts operations, notify the PA immediately**





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## CHAPTER 5: PROJECT DOCUMENTATION

### Section 5.8 Control of Materials

- **Job Guide Schedule**
- **Methods of Acceptance**
  - Certification/ visual inspection/ sampling & testing
- **Defective Materials**
  - Review Article 6-4 of the Standard Specifications
  - Provide detailed notes on your DWR as to the deficiency
  - Materials Acceptance Resolution (MAR) in Materials Acceptance and Certification (MAC)
  - Engineering Analysis Report (EAR) guidance and flowchart



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## CHAPTER 5: PROJECT DOCUMENTATION

### Section 5.11 Final Estimates Documents

- **This procedure provides a uniform standard for processing progress and final estimates for payment**
  - Follow established cutoff dates and timetable associated with them
  - Preparation of Estimate
  - Retainage
  - Liquidated Damages
- **Provides guidance on the necessary Forms, Affidavits, and Records**
  - NTP, Construction Diary, Monthly Certifications, Final Plans, etc.
- **Explanations of Overruns and Underruns**
- **Documenting contract changes**
- **Partial payments**



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## CHAPTER 5: PROJECT DOCUMENTATION

### Section 5.12 Final As-Built Plans Process

- **A complete set of original digitally signed Contract Plans shall be maintained as the Final “As-Built” Plans for each project**
  - Includes all revisions, both design and construction, notes, etc.
- **Changes after Contract Award must be documented on the Final As-Built Signature Sheet(s) along with the digital /electronic signature**
- **Digital Signing, Sealing and Certifying for As-Built Plans**
- **Change to the Construction Contract**
  - All plan revisions must be incorporated into the Contract by change order
  - Minor revisions can be incorporated via Work Order, Section 7.4
  - Major changes require a Supplemental Agreement, Section 7.3
- **Marking Conventions have changed – make sure you review this Section to maintain compliance**
- **Examples of minimum requirements and Final “As-Built” Plans Flowchart available**



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## **CHAPTER 5: PROJECT DOCUMENTATION**

### **Section 5.13 Plan Summary Boxes**

- **The Plan Summary Boxes provide a method of documenting and substantiating final pay item quantities shown in Final Estimates**
- **Replaced the Computation Book**
- **The EOR is to provide quantities for the pay items shown in the Plan Summary Boxes with .DGN or .DWG files for reference to support all quantities**
- **All backup documentation for each pay item within a Summary Box will be submitted with the Final As-Built Plans**
- **Describes minor versus major changes to be made in summary boxes**



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## CHAPTER 5: PROJECT DOCUMENTATION

### Section 5.15 Final Measurements

- **Requirements and techniques for Final Measured, Plan Quantity, and Lump Sum documentation**
- **Final Measured**
  - Area Measurement Pay Items
  - Linear Measurement Pay Items
  - Volumetric Measurement Pay Items
  - Per Each Measurement Pay Items
- **Lump Sum with estimated quantity**
  - Adjusted if significant increase/decrease in quantity



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## CHAPTER 6: CONTRACT PAYMENTS

### Section 6.1 Unpaid Bills Processing

- **Certification Disbursement of Previous Periodic Payments to Subcontractors, Form No. 700-010-38**
- **Notice of Non-payment from Subcontractor or Supplier**
  - Send a letter as shown in Guidance Documents to the Prime
  - Does not apply to second, third, etc. tier subcontractors
- **Processing for Falsification of Payment to Certification**
- **“Good Cause” must be determined**



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## **CHAPTER 6: CONTRACT PAYMENTS**

### **Section 6.2 Alternative Contracts**

- **Lane Rental Fees**
- **Damage Recovery (in addition to Lane Rental Fees)**
- **A+B Bidding**
- **No Excuse Bonus**
- **Liquidated Savings Contracts**
- **Design-Build**
- **Lump Sum**
- **Incentive/Disincentive**
- **Push-Button**



# CHAPTER 7: CONTRACT MODIFICATIONS

## Section 7.2 Time Extensions

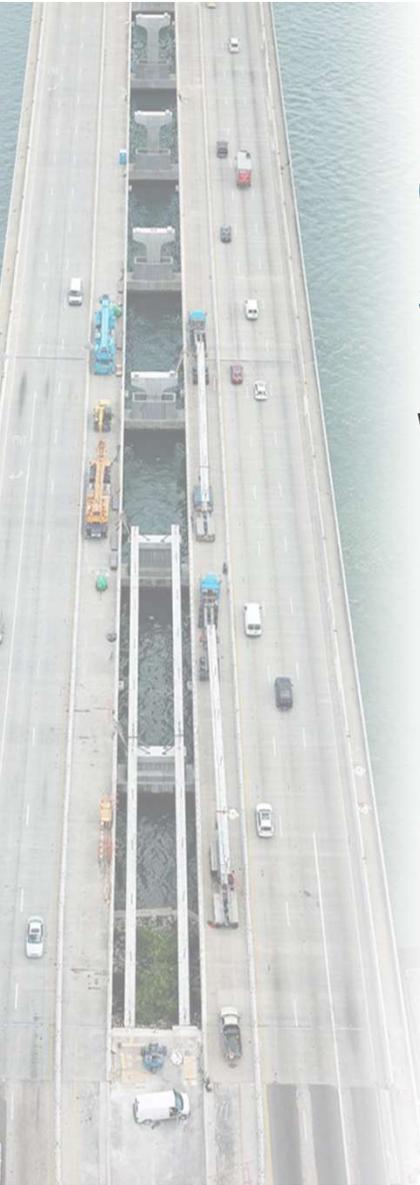
### Two Main Groups:

#### 7.2.4 Weather/Holiday/Special Event Related (relies on DWR)

- **DWR MUST support the weather event and duration**
- **DWR MUST support the duration of the weather event**
- **DWR MUST support the duration of recovery days due to weather**
- **DWR MUST itemize the Controlling Items of Work affected**

#### 7.2.5 Other Reasons

- **Additional Work**
- **Added by Supplemental Agreement, work order, time extension letter**



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# CHAPTER 7: CONTRACT MODIFICATIONS

## Section 7.2 Time Extensions (continued)

### Weather Days

- **Controlling Items of Work must be delayed 50% or more of the day**
- **Based on Work Plan or CPM Schedule**
  - Contractor does NOT have to mobilize/show up
- **Work has started on the project**
- **The PA is directly responsible for accurately documenting weather data for each project**

### Other Time Extensions

- **The critical path must be negatively affected**
- **Sample Letters at the end of Section 7.2**
- **Contractor's Time Extension Request, Form No. 700-010-56**



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## CHAPTER 7: CONTRACT MODIFICATIONS

### Section 7.3 Supplemental Agreements And Unilateral Payments

- Clarify Plans/ Specifications
- Used for Extra or Unforeseen Work
- Used to settle Disputes or Claims
- Quantity Overruns
- Project Limit Extensions
- Requires Certification of Funds from Comptroller
- Detailed DWR or is VITAL to settle disputes /claims





# CHAPTER 7: CONTRACT MODIFICATIONS

## Daily Record of Extra Work Site Source Record Form No. 700-050-58



**Complete in duplicate and give one copy to the Contractor at the end of each day**

Labor

Equipment

Material

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION  
CONSTRUCTION 2017  
700-050-58

**DAILY RECORD OF EXTRA WORK  
SITE SOURCE RECORD**

Date \_\_\_\_\_

Financial Project ID No. \_\_\_\_\_ Work Order No. \_\_\_\_\_

Road No. \_\_\_\_\_

NOTE: Report Prime, Sub, and Subordinate Sub work effort on separate sheets.  
 Prime     Subcontractor     Subordinate Subcontractor

Description of Work Done this Date:  
 \_\_\_\_\_

LABOR			
NO.	POSITION	TOTAL HOURS	RATE

EQUIPMENT			
NO. UNITS	KIND	TOTAL HOURS	RATE

MATERIAL USED		
QUANTITY	KIND	RATE

Inspector \_\_\_\_\_ Signature \_\_\_\_\_

Foreman \_\_\_\_\_ Signature \_\_\_\_\_

NOTE: This record to be made in duplicate, one copy to be retained by the Contractor and one copy attached to the Cost Estimate for Increase, Decrease or Alteration in the Work (Form 700-050-58) for each Work Order.





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## CHAPTER 7: CONTRACT MODIFICATIONS

### Section 7.3 Supplemental Agreements and Unilateral Payments

- **Funds must be encumbered prior to a Notice to Proceed for work is given to the Contractor- SA does not need to be executed**
  
- **HB 1681 - No need for SA on quantity overruns**
  - **Original Contract Amount of \$5 million or less – 2.5% Allowable Unencumbered Overruns Amount (still good practice to encumber prior to exceeding contract amount)**
  - **Original Contract Amount over \$5 million requires encumbrance of funds necessary to cover overruns of that work that would cause the contract to overrun**
  - **Requires diligent “book-keeping”**



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# CHAPTER 7: CONTRACT MODIFICATIONS

## Section 7.3 Supplemental Agreements and Unilateral Payments

- **Supporting documentation for “SA’s” and “Unilaterals”**
  - **Entitlement Analysis and Engineer’s Estimate**
    - see Guidance Document 7-3-A
  - **Daily Work Reports**
  - **Letters**
  - **Statewide Averages / Invoices / Quotes**
  - **Blue Book Rental Rate sheet(s)**
  - **Certified Payrolls for labor rates**
  - **Letter indicating Contractor’s Labor Burden percentage**
  - **Project Schedule**
  - **Contract documents**

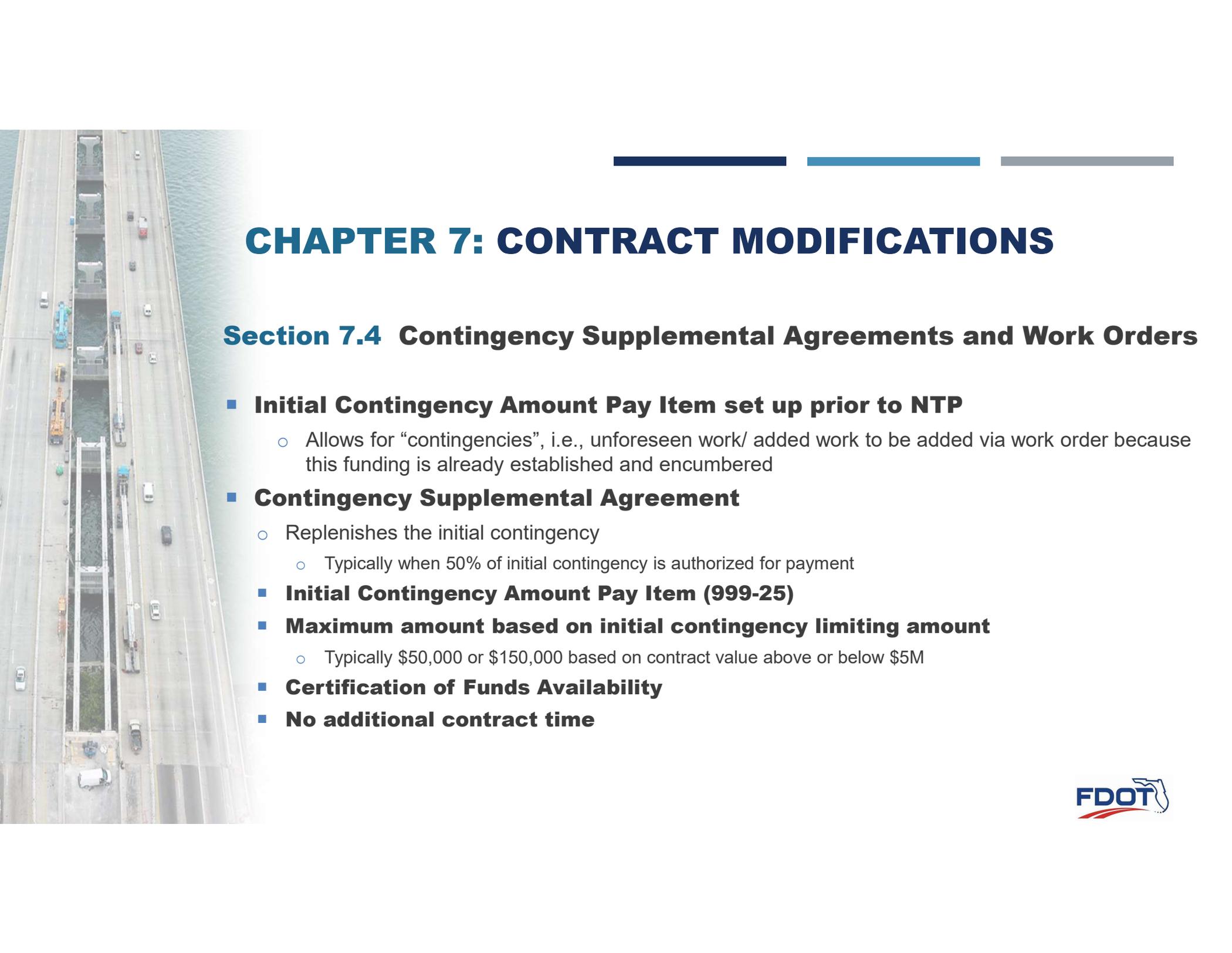


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# CHAPTER 7: CONTRACT MODIFICATIONS

## Section 7.3 Supplemental Agreements and Unilateral Payments

- **Sources of information**
  - **Certified Labor Burden**
  - **Certified Equipment List**
  - **Notice of Intent to file Claim**
  - **DRB recommendation**
  - **Statewide averages**
  
- **Guidance Documents and sample letters at the end of Section 7.3**



# CHAPTER 7: CONTRACT MODIFICATIONS

## Section 7.4 Contingency Supplemental Agreements and Work Orders

- **Initial Contingency Amount Pay Item set up prior to NTP**
  - Allows for “contingencies”, i.e., unforeseen work/ added work to be added via work order because this funding is already established and encumbered
- **Contingency Supplemental Agreement**
  - Replenishes the initial contingency
    - Typically when 50% of initial contingency is authorized for payment
  - **Initial Contingency Amount Pay Item (999-25)**
  - **Maximum amount based on initial contingency limiting amount**
    - Typically \$50,000 or \$150,000 based on contract value above or below \$5M
  - **Certification of Funds Availability**
  - **No additional contract time**



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## CHAPTER 7: CONTRACT MODIFICATIONS

### Section 7.4 Contingency Supplemental Agreements and Work Orders

- **Work Orders**
  - **Justification similar to Supplemental Agreement**
    - Description and Reason
    - Entitlement Analysis and Engineer's Estimate
  - **Cannot be executed prior to fund encumbrance set up through initial contingency/contingency supplemental agreement**
  - **Negative Work Orders - document against LS pay item**
  - **Cannot Extend Project Limits –other limitations exist**
  - **Can be executed at project level**



# **CHAPTER 7: CONTRACT MODIFICATIONS**

## **Section 7.5 Construction Contract Claims**

- **Recognition**
- **Claims involving a Utility**
- **Documentation**
- **Claim File**
- **Analysis of Claim Package**
- **Entitlement Analysis**
- **Extent of Compensation**
- **Claim Settlement**
- **Claim Denial/Appeal**

**Guidance Documents and Sample Letters at the end of section 7.5**



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# CHAPTER 7: CONTRACT MODIFICATIONS

## Section 7.6 Contracting for Governor Declared Emergencies

- **Emergency Contracts**

- H-Contract
- Form 375-040-61, SA, Unilateral Payment, Work Order

- **Governor Declared Emergencies**

- Damages
- Time Extensions
- Modification of a No Excuse Completion/Milestone/Incentive contract



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## **CHAPTER 7: CONTRACT MODIFICATIONS**

### **Section 7.7 Payment and Recovery of Property Damage Costs**

- **Repair Costs associated with damage to existing property or newly installed materials caused by known or unknown third parties**
  - Articles 4-4, 7-11, 7-14 of Standard Specs identify determination of cost
  
- **Recovery of Property Damage Claims**
  - Initiated by the Resident Engineer / Ops Center Engineer
  - Procedure 225-085-002, Submission and Recovery of Property Damage Claims



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## CHAPTER 8: ADMINISTRATIVE REQUIREMENTS

- **Environmental Permit Compliance**
- **Operation Within Railroad Right-of-Way**
- **Shop & Erection Drawing Process**
- **Contract Delinquency**
- **Contract Default**
- **Contractor Non-Responsibility For Construction Contract**
- **State Arbitration Board**
- **Contract Termination**
- **Noise & Vibration Abatement**
- **Contractor Initiated Submittals**
- **Locally Funded Agreements**
- **Pipe Inspection, Evaluation & Repair**
- **Value Added Features**



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## **CHAPTER 8: ADMINISTRATIVE REQUIREMENTS**

### **Section 8.2 Environmental Permit Compliance**

- **To ensure effective compliance within all areas of environmental concern during construction projects**
- **Early coordination with District Environmental Administrator and staff.....KNOW the permit requirements!**
- **Know the proper reporting and forms used**
- **Accurately document non-compliance issues in detail on the DWR**



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## **CHAPTER 8: ADMINISTRATIVE REQUIREMENTS**

### **Section 8.3 Operation Within Railroad Right Of Way**

- **Advanced notification for work within rail ROW (72 hours) and to announce flagman services no longer needed (24 hours)**
- **Liability insurance – Section 7-13 of Standard Specifications**
- **Reporting**
  - **Rail operations & flagman services on DWR – weekly to Rail office**
  - **Notice of Utility Construction Work, Form No. 700-010-48 (Work by railroad forces & their contractors on reimbursable terms)**



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# CHAPTER 8: ADMINISTRATIVE REQUIREMENTS

## Section 8.10 Noise and Vibration Abatement

- **Involvement by Technician, PA and RE**
- **Technician uses Inspection QA Guidelist**
- **Early coordination and plan of action to adhere to Section 108 of the Standard Specifications**
  - Weekly noise report submittals
  - Vibration monitoring advanced discussions and monitoring placement
- ✓ **REVIEW YOUR CONTRACT**
- ✓ **Be aware of local ordinances**
- ✓ **Know time limitations in the project and the nature of activities that might generate noise and/or vibration**
- ✓ **Discuss complaints with your PA**
- ✓ **Document the nature of the complaint, name/address of person complaining, area affected by the problem and type of operation generating noise and/or vibration on your DWR**



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## CHAPTER 8: ADMINISTRATIVE REQUIREMENTS

### Section 8.13 Pipe Inspection, Evaluation And Repair

- **Standard procedures for consistent review of all post-installation pipe inspections**
- **PA is responsible for report evaluation and this section provides clear areas of non-compliance or defects to look for**
  - **Contractor to provide certification statement that laser profiling and measurement technology is in compliance with Department's calibration criteria**
  - **Contractor to provide Department with video images that are clear, easy to review and correctly identified**
  - **Repair guidance for cracks, joints, defects**
    - Pipe Repair Matrix contains acceptable repair methods



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## **CHAPTER 9: MAINTENANCE OF TRAFFIC**

### **Section 9.1 Maintenance Of Traffic**

**Establishes a uniform standard for inspection and review of Maintenance of Traffic (MOT) operations used in Construction Projects**





# CHAPTER 9: MAINTENANCE OF TRAFFIC

## Section 9.1 Maintenance of Traffic

- **Departments Traffic Control Plan. STUDY IT PRIOR TO NTP**
  - ✓ **At Pre-Con Contractor must furnish a letter stating he will be utilizing the Department's plan or substituting an alternate TCP**
  - ✓ **Discuss at the Pre-Con**
    - Selection of Traffic Control Plan
    - Traffic Safety
    - Work Site Traffic Supervisor (WTS) responsibilities
    - Contractor's work notification to the Engineer
    - Changes to the TCP
    - Independent Channelizing Device Supplier
    - Sign installations and removal/covering of existing signs
    - Installation and removal of pavement markings
    - Crash reporting
    - Night Work
    - Motorist Awareness System
    - Flaggers
    - Work zone clearances
    - Inactive Work Zones
    - Portable, changeable message boards
    - Proper use of Traffic Control Law Enforcement Officers
    - Proper use of Speed Control Law Enforcement Officers
    - Pedestrian and ADA accommodations – including proper closure of sidewalks in a construction area



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## CHAPTER 9: MAINTENANCE OF TRAFFIC

### Section 9.1 Maintenance Of Traffic

- **Alternate Traffic Control Plans**
  - **Contractor may not start work until that Alternate plan is approved by Resident Engineer and added to the contract by SA**
  - **Must be signed and sealed by a Florida PE**



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## **CHAPTER 9: MAINTENANCE OF TRAFFIC**

### **Section 9.3 Work Zone Traffic Incident Evaluation and Reporting**

- **Any traffic crash occurring in the Work Zone is reported to the PA**
- **Form No. 700-010-64, Engineers MOT Evaluation at Crash Site is completed by the PA or delegate**
- **If MOT devices may have contributed to the crash, Contractor makes changes needed**
- **PA and RE must approve changes to traffic patterns due to proposed changes to the Traffic Control Plans**



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## CHAPTER 10: STRUCTURES

- **Piles**
- **Prestressed/ Precast Concrete Components**
- **Concrete Construction**
- **Paint & Asbestos Removal, Handling & Disposal**
- **Drilled Shafts**
- **Underwater Bridge Construction Inspection**
- **Post Tensioned Bridges**
- **Auger Cast Piles**
- **Structural Steel & Miscellaneous Metal Components**
- **Bridge Construction Issues that Must Involve Office of Construction Staff**
- **General Structures Construction Issues**
- **Foundations on Design-Build Projects**





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# CHAPTER 11: ASPHALT

## Section 11.1 Asphalt LOT Documentation

- Guidelines for asphalt LOT documentation related to the daily measurement and documentation of bituminous quantities

## Section 11.2 Asphalt Mix Temperature Control

- This Section provides a uniform procedure for acceptance of asphalt mix, based on temperature, for both the Plant and Paving Technician on projects

## Section 11.3 Categorizing Asphalt and Other Base Courses

- This describes how asphalt and base courses are categorized; i.e. Superpave types, tonnage pay items, square yard pay items, cubic yard pay item, friction courses, composite base, optional base (limerock)





# CHAPTER 11: ASPHALT

## Section 11.4 Adjustments

- This establishes uniform instructions for keeping accurate records of final Asphalt Pay Items that include Composite Pay Factor (CPF) adjustments, thickness and spread rate and Bituminous adjustments.
- Very important to work with CSS, SFEO, PA, and inspectors prior to operations

## Section 11.5 Testing and Correcting Asphalt Pavement Surface Deficiencies

- This Section provides a procedure for ensuring the last structural layer meets applicable straightedge requirements before friction course application

## Section 11.6 Documentation for Multi-Fin Projects, Under One Contract

- How to calculate and document quantities of the same pay item that appear on multiple FM numbers under one contract for DBB, DB, and lump sum projects





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## CHAPTER 11: ASPHALT



### **Section 11.7 Asphalt Construction Information for CQC**

- Department's role when reviewing contractor CQC, waste asphalt quantities, and processing Resolution Reports for Asphalt Concrete, Gradation, and Density Cores

### **Section 11.9 Salvage of Materials**

- The documentation requirements for excess or salvaged material delivered to the project and delivered to a Maintenance yard



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# CHAPTER 12: PROJECT CLOSEOUT

## Section 12.1 Project Acceptance

- **FINAL INSPECTION (per Section 5-10 of Standard Specifications)**
  - Include maintaining unit / agency
  - If bridge structures are included, coordinate with the District Structures Maintenance Engineer
  - A list of remedial work will be furnished to the Contractor and must be completed before final acceptance
  
- **FINAL ACCEPTANCE**
  - Constructability Grade – Coordinate with Design PM throughout project



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# CHAPTER 13: PERFORMANCE RATINGS

## Section 13.1 Contractor's Past Performance Rating

- **Key Items – 9 Categories**
- **Maximum Capacity Rating – Admin Rule 14-12 F.A.C.**
- **Provide a copy of criteria to the Contractor at the Pre-con**
- **Interim performance ratings**
- **Explains the use of DWL and DL**
- **Communication is key (Discuss use of VW)**
- **DCE has the final say if appealed by the contractor- No DRB**

*Sample letters and Flow Chart at the end of section*



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# CHAPTER 13: PERFORMANCE RATINGS

## Section 13.2 Constructability Grades

### Collaborate with design partners

#### ■ **Consultant Designed Projects**

- Professional Services Consultant Work Performance Evaluation, Procedure No. 375-030-007
- Constructability Evaluation, Form No. 375-030-08Z

#### ■ **In-House Designs**

- Constructability Evaluation, Form No. 375-030-08Z

#### ■ **Design-Build Projects – Upload in coordination with District Office/CO**

- Professional Services Consultant Work Performance Evaluation, Procedure No. 375-030-007
- Design-Build Performance Evaluation Form No. 700-011-30



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## CHAPTER 13: PERFORMANCE RATINGS

### Section 13.3 Contractor Survey



Project Administrator will email a copy of the Contractor Survey with the Offer Letter **ON ALL CONSTRUCTION PROJECTS!**

<http://www.fdot.gov/construction/download/ContractorLetterwithSurvey.pdf>





**MARLENE SANCHEZ  
TURNPIKE ENTERPRISE  
DISTRICT FINAL ESTIMATES MANAGER**

[marlene.sanchez@dot.state.fl.us](mailto:marlene.sanchez@dot.state.fl.us)  
**954-934-1151**

**THANK YOU!**