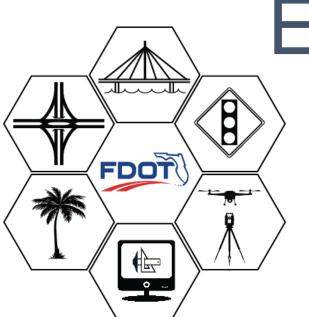
2022 Construction Academy



Errors & Omissions

Procedure 375-020-010

Approved.

Effective Reviewed.
Resolution OF ERRORS, OMISSIONS, AND
CONTRACTUAL BREACHES BY PROFESSIONAL ENGINEERS
ON DEPARTMENT CONTRACTS

AUTHORITY:
Sections 20.23 (3)(a), and 334 048(3), Florida Statutes (F.S.)
REFERENCES:

(a) Procedure No. 359.0409.303. Accounts Receivable
(b) Procedure No. 359.0409.303. Receipt Processing
(c) Procedure No. 359.0409.303. Receipt Processing
(c) Procedure No. 359.0409.303. Receipt Processing
(d) Procedure No. 359.0409.303. Receipt Processing
(e) Procedure No. 359.0409.303. Receipt Processing
(e) Procedure No. 359.0409.303. Receipt Processing
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(f) Procedure No. 359.0409.303. Receipt Processing
(f) Procedure No. 359.0409.303. Receipt Processing
(g) Procedure No. 359.0409.303. Receipt Processing
(g) Procedure No. 359.0409.303. Receipt Processing
(g) Procedure No. 359.0409.303. Receipt Reviewed.
(g) Procedure No. 359.0409.303. Receipt Processing
(g) Procedure No. 359.0409.303. Receipt Reviewed.
(g) Procedure No. 359.0409.303. Receipt Revi

Rob Quigley, P.E. (State Project Management Engineer)

Learning Objectives

- ☐ Errors & Omissions
- Procedure
- ☐ Issue Types (EOR & CEI)
- ☐ Tracking Issues & Recovery
- Best Practices





Errory & Omissions

Errors and Omissions (E&O): Acts of negligence committed by the EOR in the performance of engineering design service or creative work, and acts of negligence committed by CEI in the performance of construction engineering inspection services.

The term "E&O" includes professional malpractice, negligence and contractual breaches.



Why Do We Pursue Recovery?





Because It's the Law!

Florida Statute §337.015 –

"...Legislature hereby determines and declares that:

(3) To protect the public interest, the department shall *vigorously* pursue claims against contractors and consultants for time overruns and substandard work products."



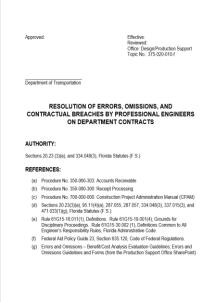


FDOT's E&O Procedure

Topic No. 375-020-010

Resolution of Errors, Omissions, and Contractual Breaches by Professional Engineers on Department Contracts

- ☐ Identify, Investigate, Document
- Assess Consultant Responsibility
- Pursue Recovery for Damages





Procedure Updates

2021 Complete rewrite of E&O Procedure

- Updated & Streamlined Procedure
- Reduced from 47 → 18 pages
- Reduced from 29 → 9 Sections
- Removed Letters & Flowcharts
- Removed non-procedural guidance
- Developed companion *E&O Guidelines* document
- Clarified Discovery & Notification

- Clarified Chief Engineer role
- Allows *DocuSign* alternative to Certified Mail
- Eliminated Sending Funds to Cashier's Office Letter
- Eliminated Early Notification Letter
 - (same info conveyed via email)
- Added Closeout Letter requirement



Rule 61G15-30.002 (1), F.A.C.:

Engineer of Record (EOR): "A Florida professional engineer who is in responsible charge for the preparation, signing, dating, sealing and issuing of any engineering document(s) for any engineering service or creative work."

For this procedure, the EOR is a professional consulting engineer retained by the Department to provide said services.



Consultant CEI: A consulting engineering firm, holding a certificate of qualification, and retained by the Department to perform construction engineering and inspection services on a project or a series of projects.

For this procedure, all references to CEI is a professional consulting engineer retained by the Department to provide CEI services



Rule 61G15-19.001(4), F.A.C.:

Negligence: "A professional engineer shall not be negligent in the practice of engineering. The term negligence set forth in Section 471.033(1)(g), F.S., is herein defined as the failure by a professional engineer to utilize due care in performing in an engineering capacity or failing to have due regard for acceptable standards of engineering principles."



Premium Costs: The additional cost of a contract change that would not have been incurred if the work had been included in the original contract. More specifically, premium costs are dollar amounts paid for non-value-added work. Delays, inefficiencies, rework, or extra work, other than those caused by the Department, the contractor, subcontractors or suppliers, will be considered non-value-added work.



Premium Costs (cont.): Non-value-added work can occur in three distinct situations:

(1) Work delays or inefficiencies. The premium costs are the total delay/inefficiency damages paid to the contractor.



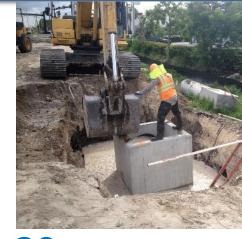
Premium Costs (cont.): Non-value-added work can occur in three distinct situations:

(2) Rework. The premium costs are the dollar amount of the original items of work that must be removed

and the costs to remove these items.



Premium Costs (cont.): Non-value-added work can occur in three distinct situations:



(3) Extra work. The premium costs are computed as the net difference between the final agreed prices paid to the contractor and the Engineer's Estimate — what the cost would have been had the extra work been included in the original bid at letting.



Process...

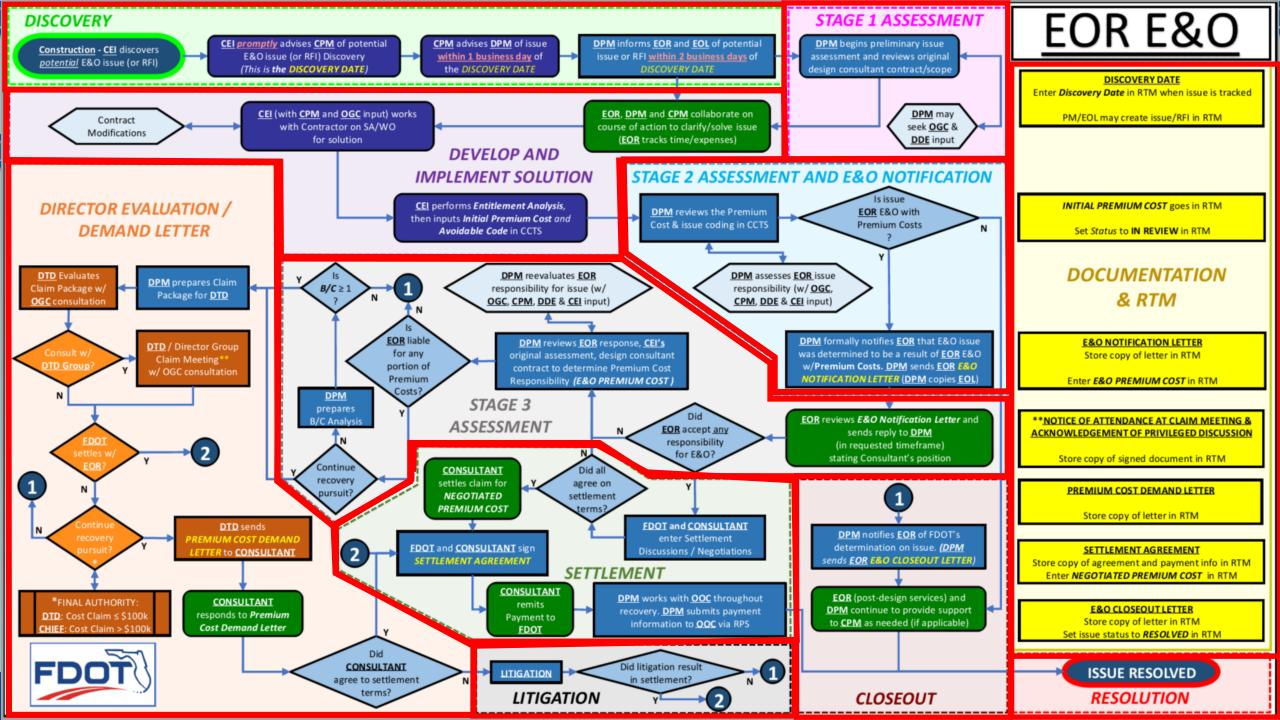
- Discovery
- Project Modification
- Assessment, Settlement, Recovery

Tracking, Documentation, Reporting Roles in both Design EOR Issues & Construction CEI Issues

EOR E&O







Discovery (EOR)

When a project issue is discovered, the CEI (or CPA) must <u>promptly</u> notify the CPM. The date the issue is discovered is the **Discovery Date**.

Verbal → In Writing!

The CPM must notify the DPM of the project issue discovery... and the DPM must notify the EOR & EOL of project issue discovery.

Timeliness Matters!





Discovery (EOR)

Early discovery notification provides the EOR an opportunity to minimize and mitigate any added project costs.

In addition, such discovery notification may prevent or minimize contractor claims against the Department.



Discovery (EOR)

The CEI, CPM, DPM, and EOR shall work together to identify, clarify, and evaluate a resolution of the project design issues.



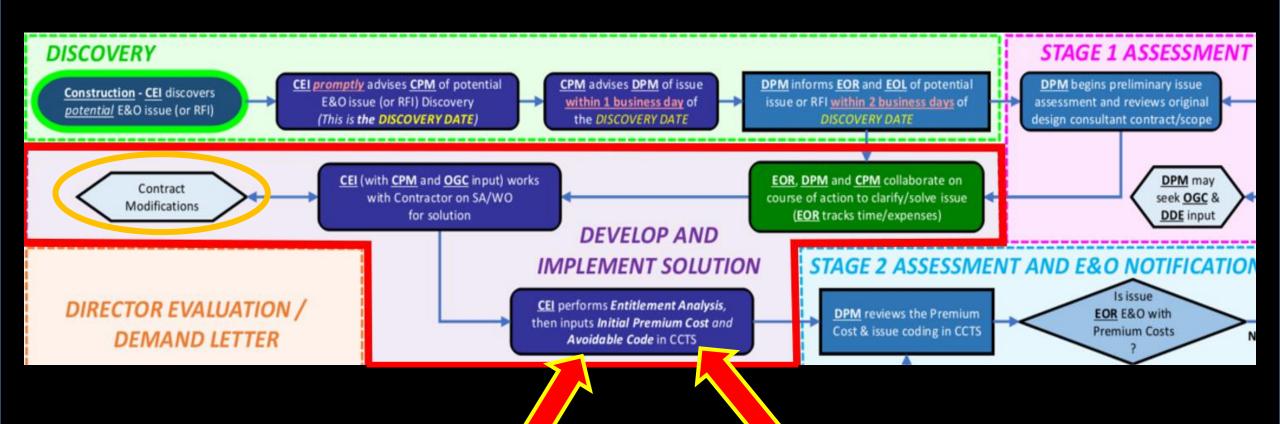


Project Modification (EOR)

The Department and EOR must continue to collaborate on the project issue, and the CPM and DPM must determine an appropriate course of action for the solution.

The EOR may need to provide revised drawings, cost estimate, calculations, and specification changes to resolve the project issue.





Project Modification

Solutions often result in a construction contract modification through the execution of a:

- ☐ Supplemental Agreement (SA),
- Work Order (WO), or
- ☐ Unilateral Payment (UP).



Project Modification (EOR)

The CEI negotiates additional cost and time required to implement the proposed solution with the Contractor.

For each SA and WO, the CEI must determine the premium costs associated with resolving the project issue and perform an Entitlement Analysis.



Project Modification (EOR)

For each project modification, the CEI enters their *initial assessment* of responsibility (Avoidability Code), the primary reason (Reason Code), SA amount and premium costs into Construction's Tracking System

Avoidability Codes

```
\square 0 = Unavoidable; \square 3 = Consult CEI;
```

- \square 2 = FDOT EOR; \square 5 = 3rd Party





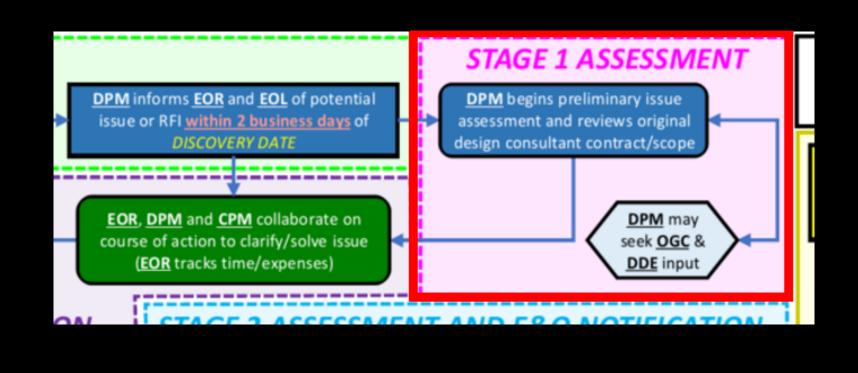
Assess, Settle, Recover

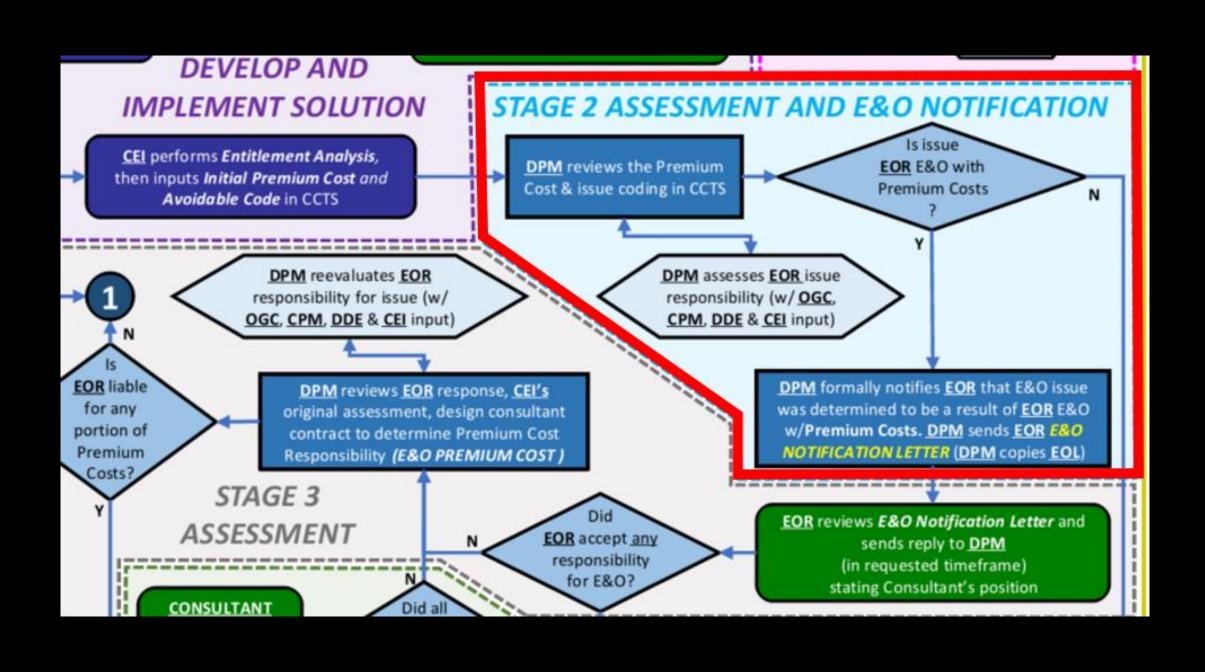
Each project modification identified as Avoidability Code 1 or 3 is further assessed by the PM.

- ☐ Assessment of the Issue
 - Premium cost responsibility,
 - Consultant scope,
 - Project specifics









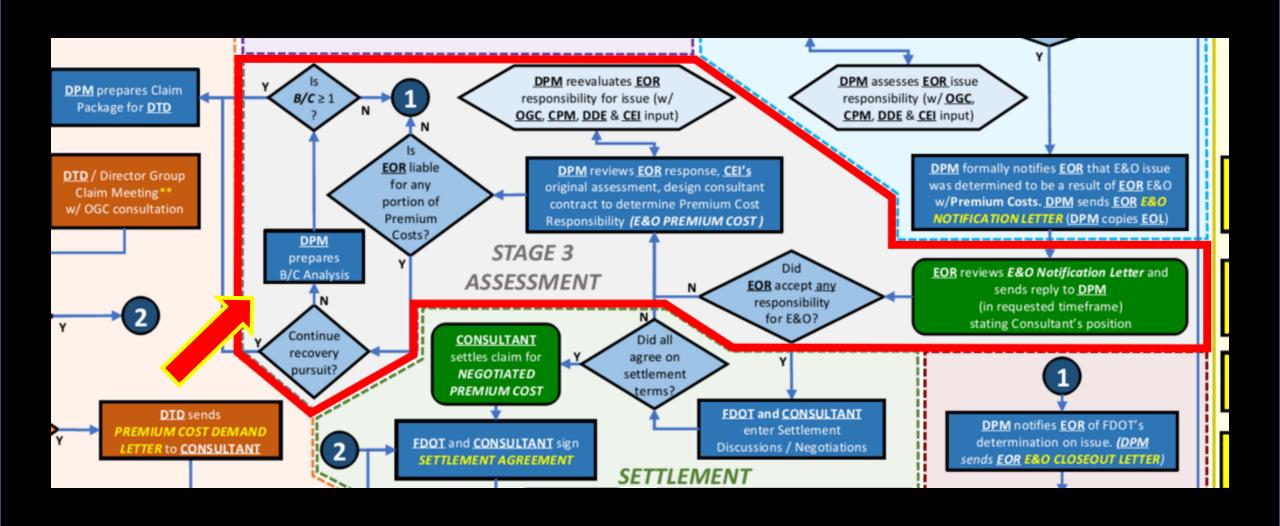
Assess, Settle, Recover

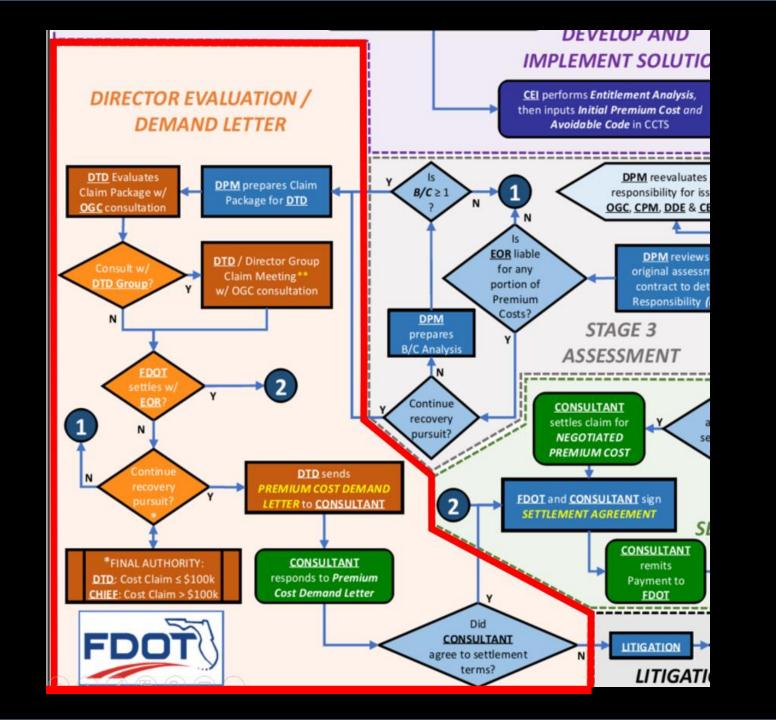
Each project issue determined to be an E&O issue will be managed according to the procedure through resolution, settlement and recovery.

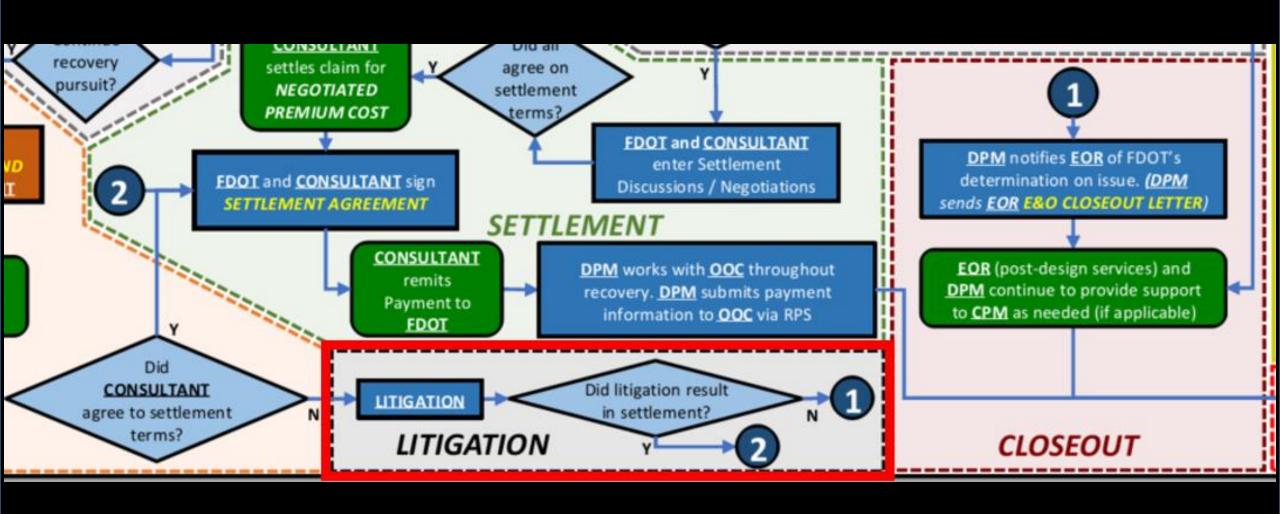
- Escalation Progression
 - Project Manager Level
 - Director Level
 - ☐ Chief Engineer (only if Cost Claim* is > \$100k)
 - Litigation

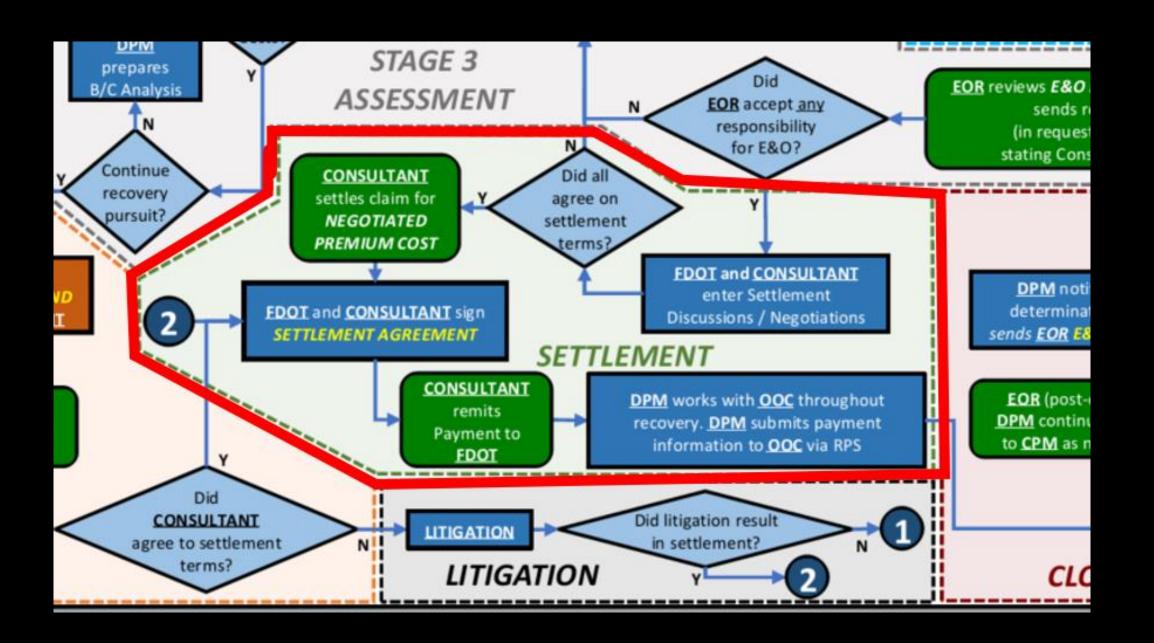
*Cost Claim is not the same as Initial Premium Cost











stating Consultant's position

1

<u>DPM</u> notifies <u>EOR</u> of FDOT's determination on issue. (<u>DPM</u> sends <u>EOR</u> <u>E&O</u> CLOSEOUT LETTER)

EOR (post-design services) and **DPM** continue to provide support to **CPM** as needed (if applicable)

CLOSEOUT

Store copy of signed document in RTM

PREMIUM COST DEMAND LETTER

Store copy of letter in RTM

SETTLEMENT AGREEMENT

Store copy of agreement and payment info in RTM Enter **NEGOTIATED PREMIUM COST** in RTM

E&O CLOSEOUT LETTER

Store copy of letter in RTM
Set issue status to **RESOLVED** in RTM

ISSUE RESOLVED

RESOLUTION

stating Consultant's position



<u>DPM</u> notifies <u>EOR</u> of FDOT's determination on issue. (<u>DPM</u> sends <u>EOR</u> <u>E&O</u> CLOSEOUT LETTER)

EOR (post-design services) and **DPM** continue to provide support to **CPM** as needed (if applicable)

CLOSEOUT

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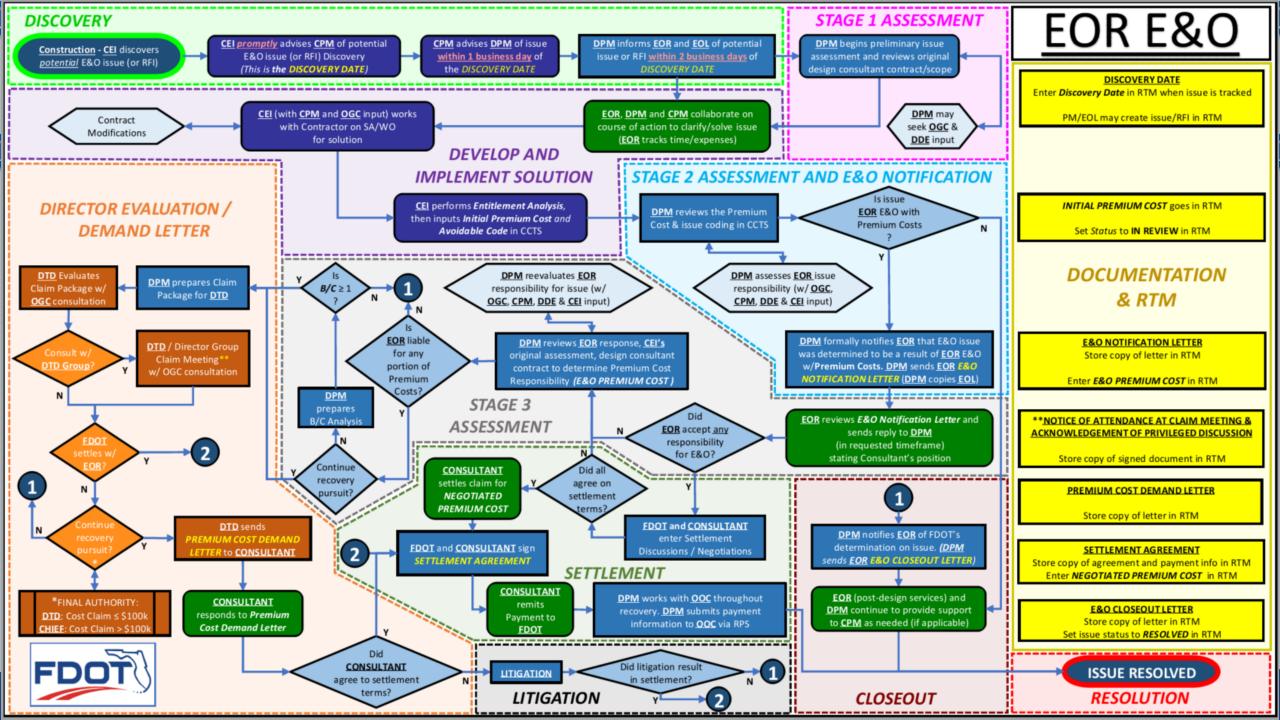
SETTLEMENT AGREEMENT

Store copy of agreement and payment info in RTM Enter **NEGOTIATED PREMIUM COST** in RTM

E&O CLOSEOUT LETTER

Store copy of letter in RTM
Set issue status to *RESOLVED* in RTM

RESOLUTION



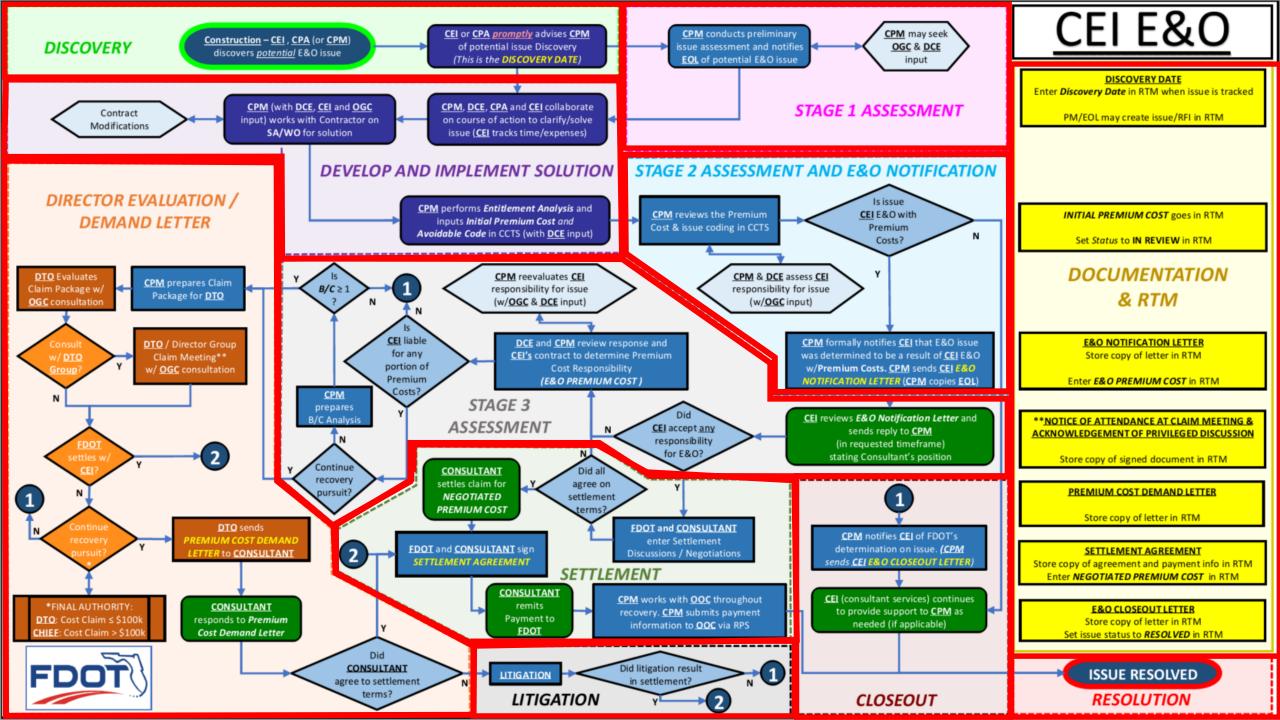
CEI E&O Differences



- CEI E&O Process Differences:
 - Discovery
 - Develop & Implement Solutions
 - DCE Involvement in Assessments

Note: Very few CEI E&O issues have occurred per RTM Data -16 issues since 2012; \$105k recovered of \$470k Initial PC





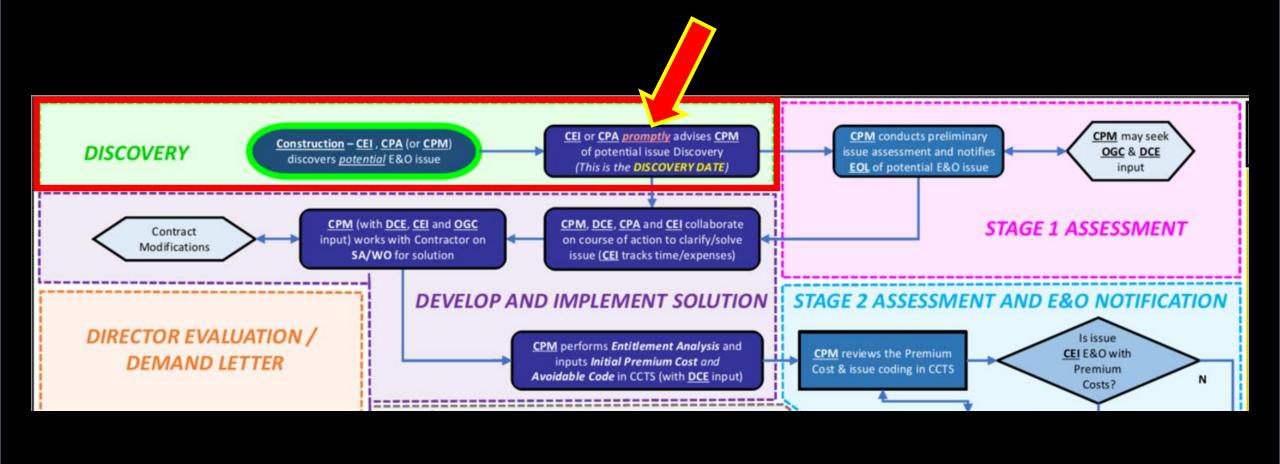
Discovery (CEI)

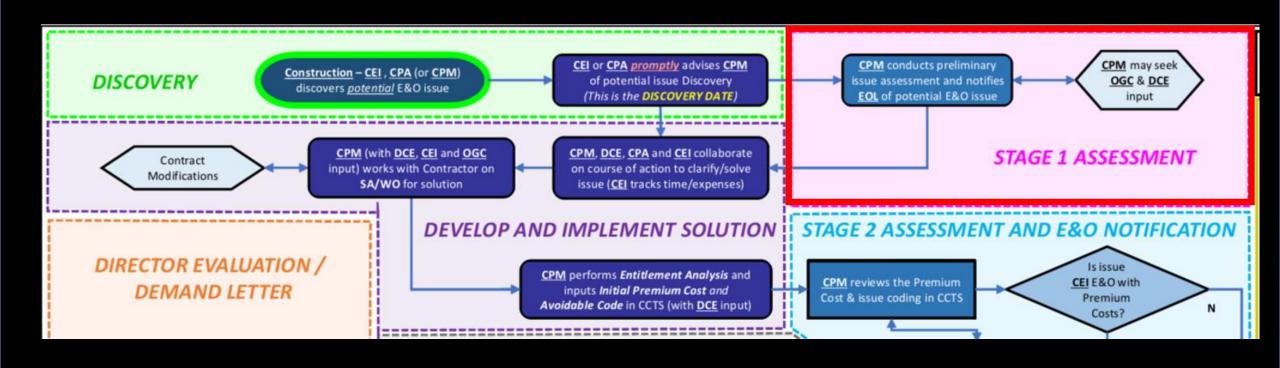
When a project issue is discovered, the CEI (or CPA) must <u>promptly</u> notify the CPM. The date the issue is discovered is the **Discovery Date**.

Verbal -> In Writing!

The CPM must notify the DCE of the project issue discovery... and the CPM must also notify the EOL of project issue discovery. Timeliness Matters!





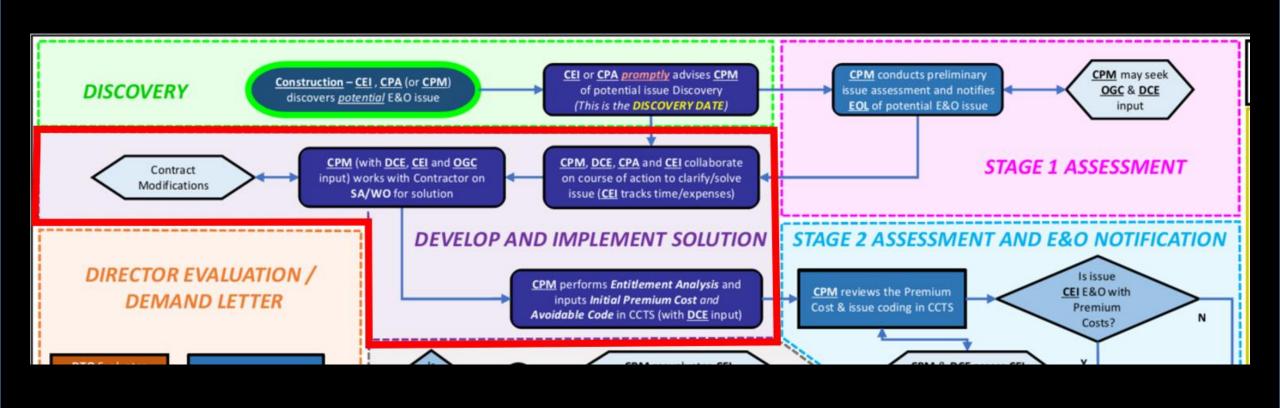


Discovery (CEI)

The CPA, CPM, DCE, and CEI shall work together to identify, clarify, and evaluate a resolution of the project issues.







Project Modification (CEI)

For each project modification, the **CPM** enters their *initial assessment* of responsibility (Avoidability Code), the primary reason (Reason Code), SA amount and premium costs into Construction's Tracking System

Avoidability Codes

```
□ 0 = Unavoidable; □ 3 = Consult CEI;
```

- \square 1 = Consult EOR; \square 4 = FDOT CEI;
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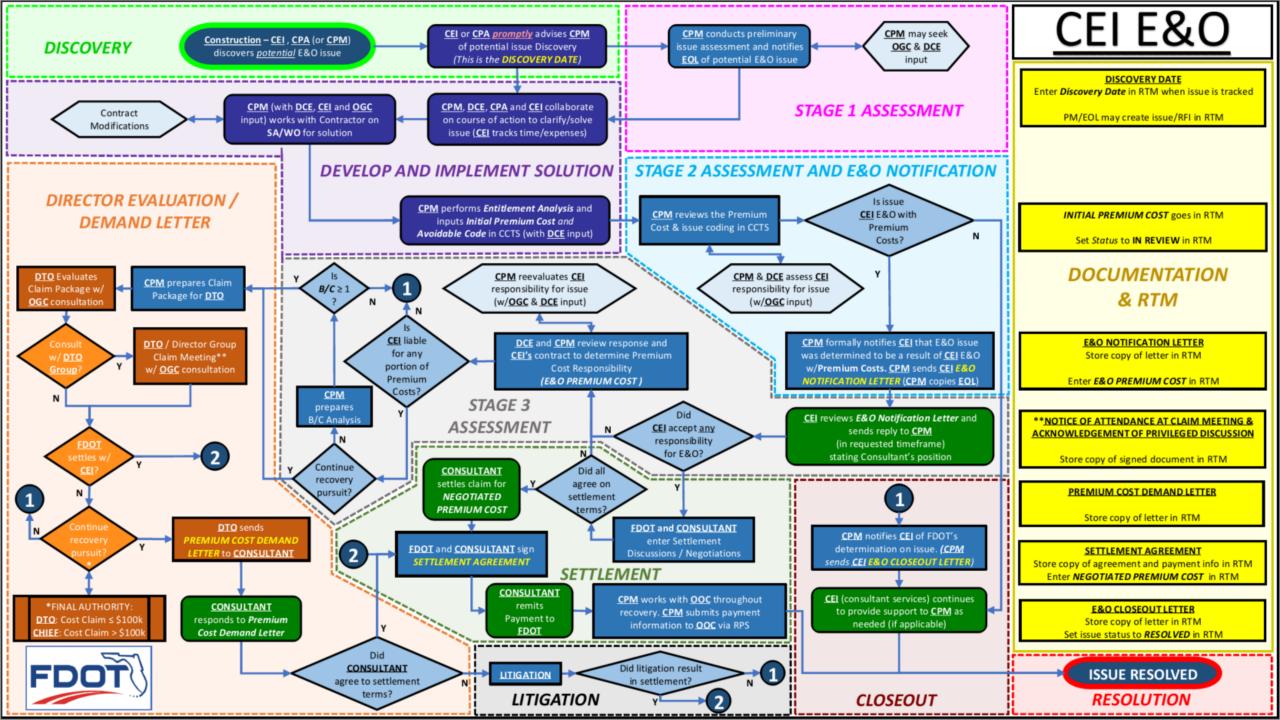


Project Modification (CEI)

The **CPM** negotiates additional cost and time required to implement the proposed solution with the Contractor.

For each SA and WO, the **CPM** must determine the premium costs associated with resolving the project issue and perform an Entitlement Analysis with **DCE** input.





Track, Document, Report

- E&O Tracking and Documentation managed by:
 - Project Managers
 - District E&O Liaisons
- ☐ Tracking System(s)
 - ☐ Resolution Tracking Module (RTM) in PSEE
 - ☐ Receipt Processing System (RPS) Cashier's Office
- Central Office Reporting
 - Monthly to EOL / Annually to Executive Board





DISCOVERY DATE

Enter *Discovery Date* in RTM when issue is tracked

PM/EOL may create issue/RFI in RTM

INITIAL PREMIUM COST goes in RTM

Set Status to IN REVIEW in RTM

DOCUMENTATION & RTM

E&O NOTIFICATION LETTER

Store copy of letter in RTM

Enter **E&O PREMIUM COST** in RTM

**NOTICE OF ATTENDANCE AT CLAIM MEETING & ACKNOWLEDGEMENT OF PRIVILEGED DISCUSSION

Store copy of signed document in RTM

PREMIUM COST DEMAND LETTER

Store copy of letter in RTM

SETTLEMENT AGREEMENT

Store copy of agreement and payment info in RTM Enter **NEGOTIATED PREMIUM COST** in RTM

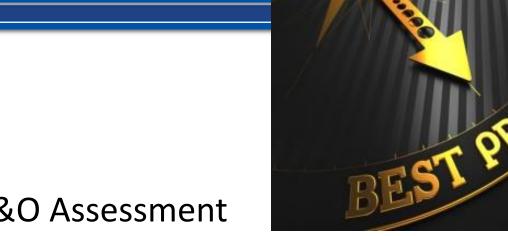
E&O CLOSEOUT LETTER

Store copy of letter in RTM

Set issue status to RESOLVED in RTM

E&O Best Practices

- Prompt Notification & Clear Communication
 - Contractor to CEI
 - CEI to CPM
 - CPM to DPM
 - DPM to EOR
 - Early coordination with Legal & EOL
- Detailed Documentation
 - RFIs
 - Notifications
 - Letters
 - Tracking in PSEE/RTM



- E&O Assessment
 - Thorough assessment of issue & responsibility
 - There are no \$ thresholds for when to pursue
- Monitor Open Issues Regularly
 - Observe Performance Metrics & Statute of Limitations



Questions?

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Brad Bradley

Project Management Support Engineer

Brad.Bradley@dot.state.fl.us

850-414-4295



NO text. NO call.

NOTHING



is worth losing a life over.