



Quality and Materials in the Design-Build Program

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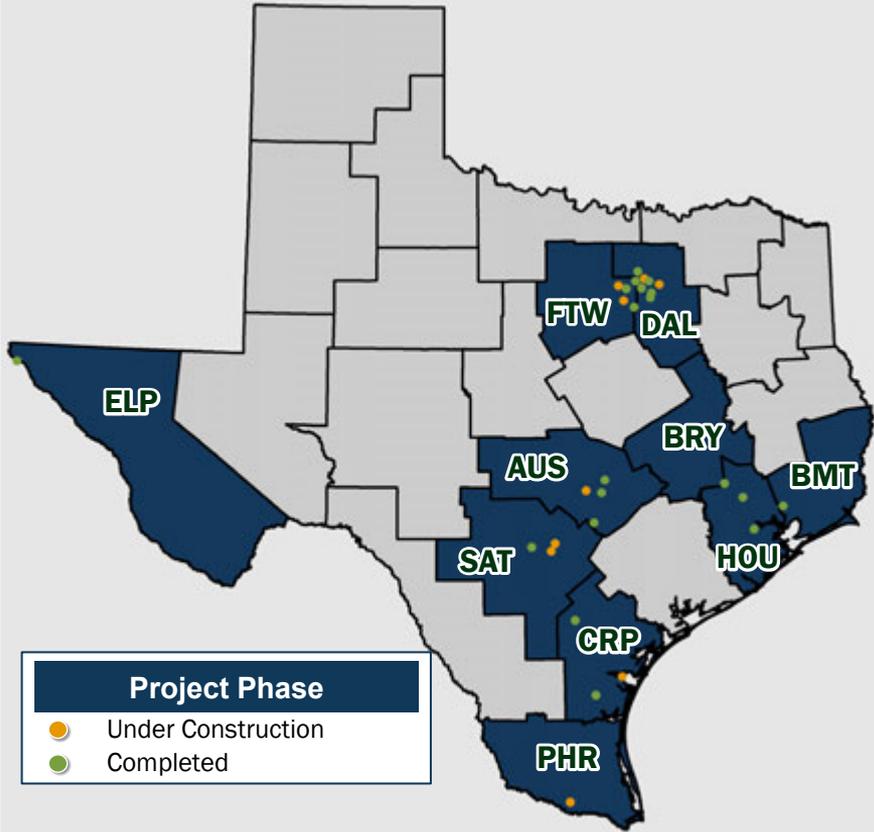
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Alternative vs. Traditional Project Delivery

TxDOT's Alternative Delivery Program – QUICK FACTS



TxDOT's Alternative Delivery Program has a portfolio of 28 projects* with a current Project Cost of \$26.4 Billion



9
PROJECTS
Under Construction



\$10.3 BIL
Project cost

1,200+
Total lane miles



19
PROJECTS
Completed



\$16.1 BIL
Project Cost

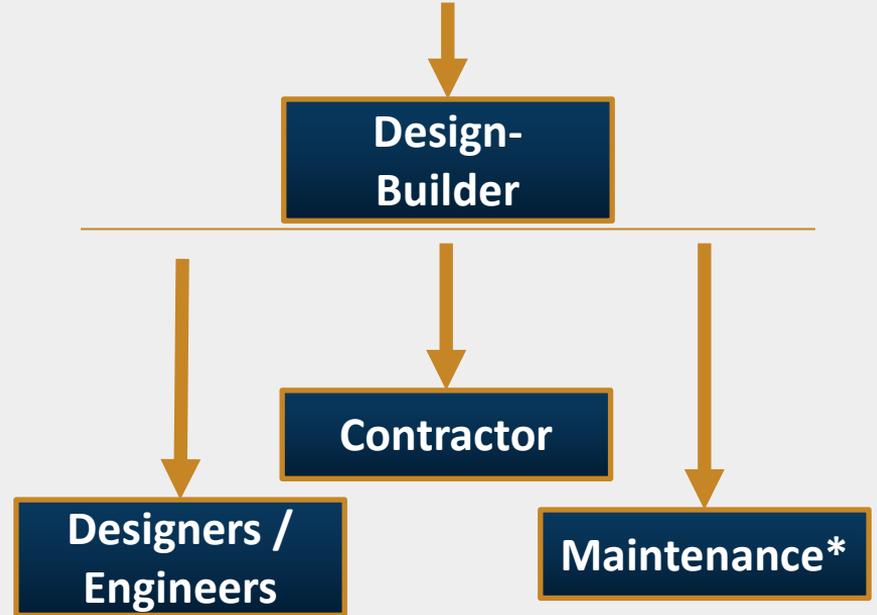
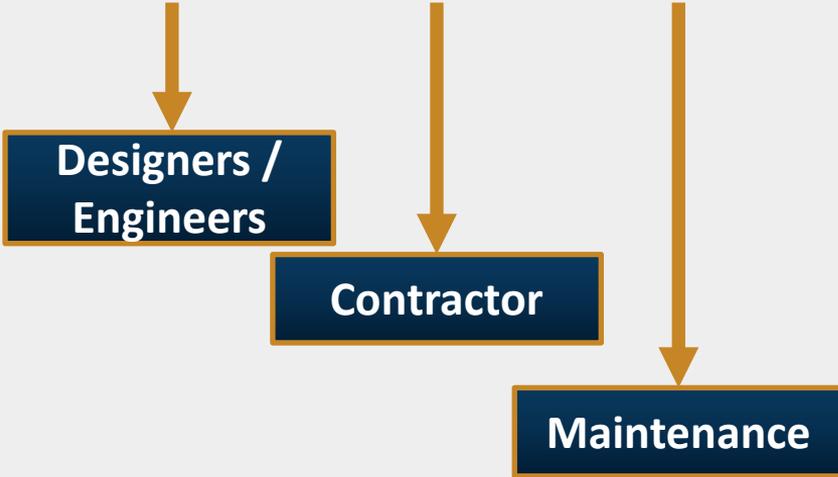
2,900+
Total lane miles

*Includes Public-Private Partnership projects

Traditional (Design-Bid-Build)

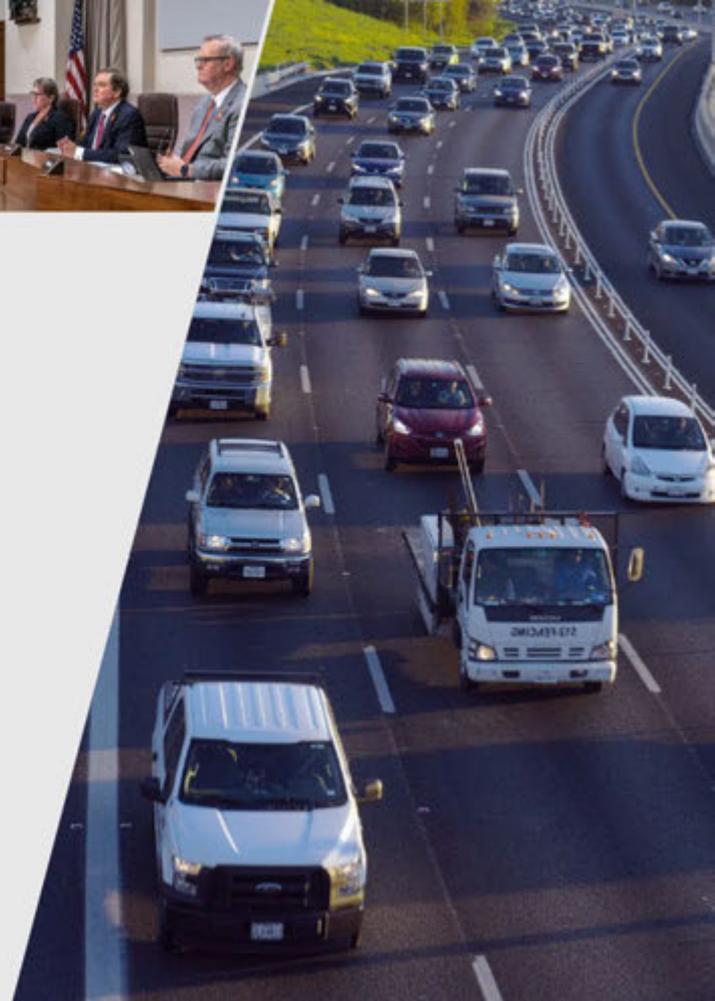
VS.

Alternative (Design-Build)





Quality Roles and Responsibilities

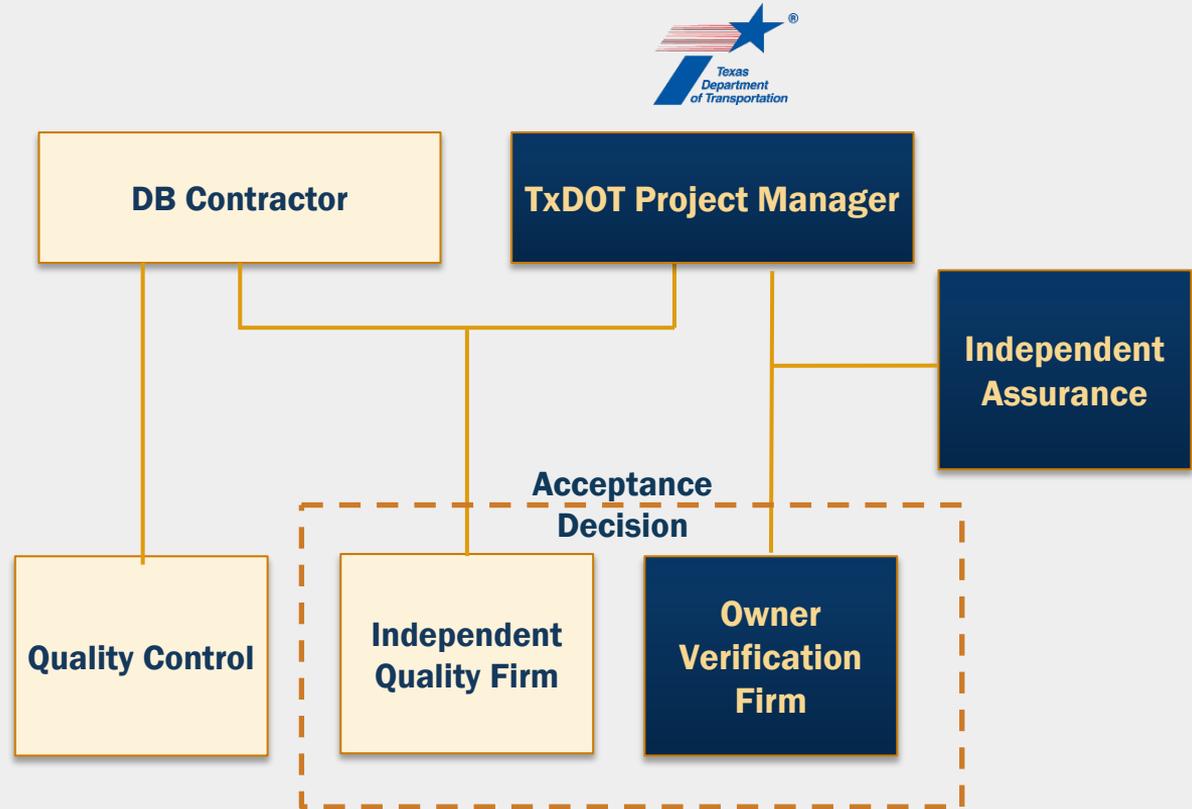




Quality Control DB Contractor

Quality Acceptance joint DB Contractor (IQF) and TxDOT (OVF)

Independent Assurance TxDOT

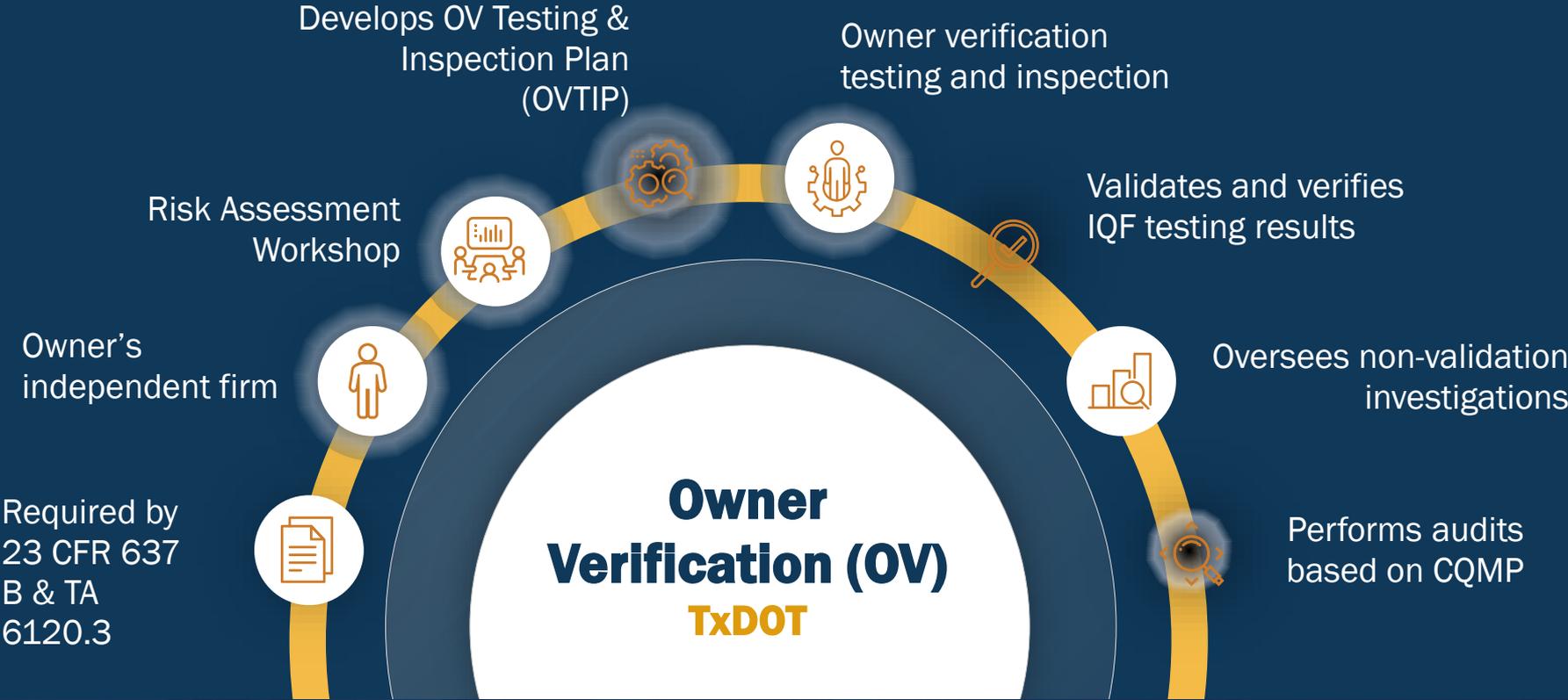




IQF-Quality Responsibilities



OV-Quality Responsibilities



IA-Quality Responsibilities



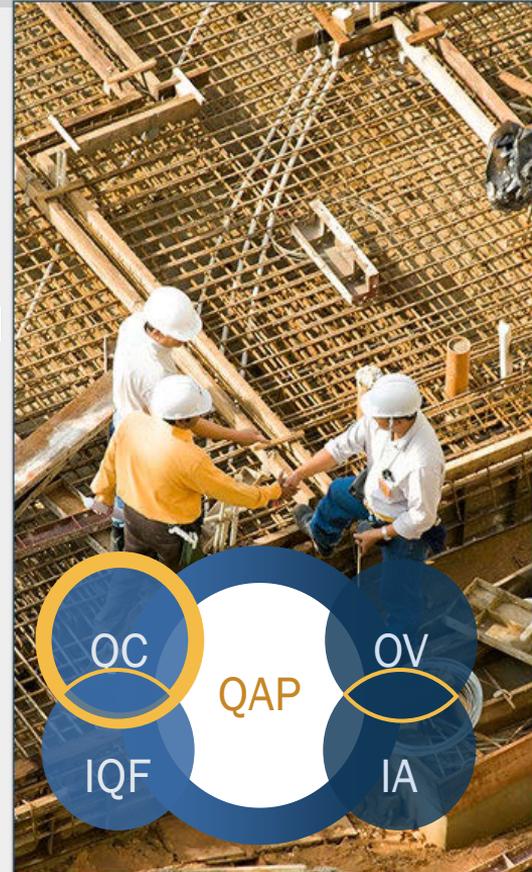


Proposed Updates to TxDOT's Quality Assurance Program

DB Contractor's QC Requirements



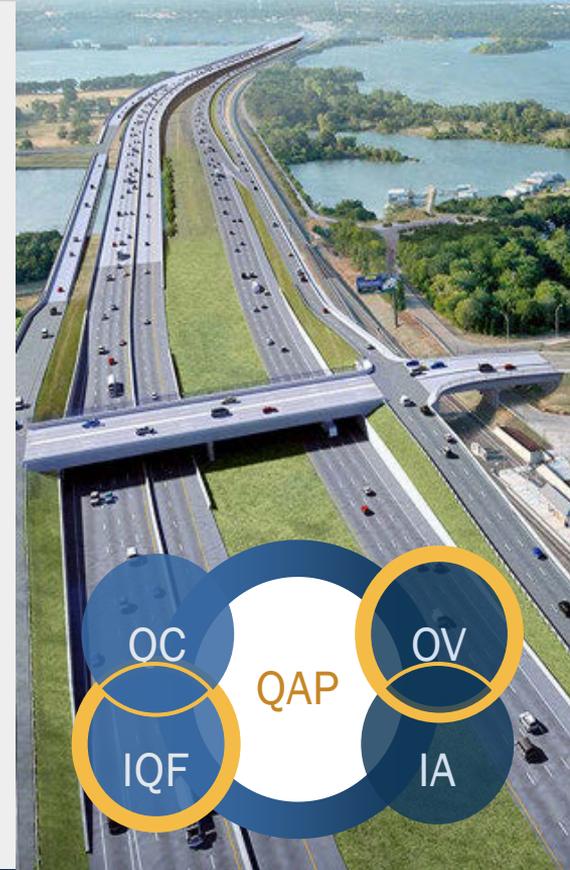
- Clarifies all materials (permanent and temporary) used on the project shall meet the Contract Documents, (including quality process requirements).
- Allows concrete mix designs to be approved by personnel qualified in TxDOT Concrete Mix Design Review/Approval Certification (MTD202 and HCCMXDES14).
- QC results are either submitted to TxDOT's system or the DB Contractor will provide TxDOT with access to their system.



DB Contractor's IQF and TxDOT OV Requirements

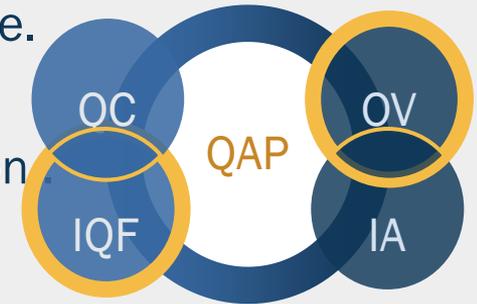


- DB Guide Schedule testing frequency shall be met for each material category (permanent and temporary).
- The IQF shall coordinate with the OV and incorporate any OV traffic control inspections into a single Form 599.





- Removed laboratory requirements for: Tex-113-E and Tex-117-E to be a qualified laboratory from TxDOT MPL.
- Added laboratory requirement: Tex-248-F to be a qualified laboratory from TxDOT MPL.
- IA laboratory to monitor the IQF and OV laboratory's accreditation status / performance.
- 10-year calibration record retention



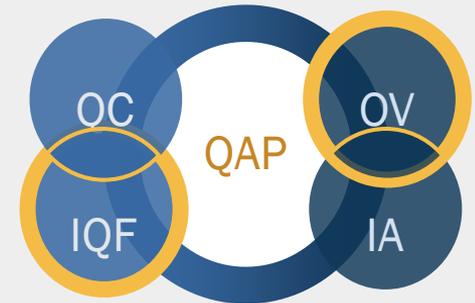


TxDOT Qualification – Concrete Mix Design
Review/Approval:

- MTD202 (Non-TxDOT) – ClassMarker Concrete Mix Design Reviewer; and
- HCCMXDES14 – ClassMarker Hydraulic Cement Concrete Mix Design and Control Certification

Provisional Certifications:

- Valid for one month after the HMAC or ACI examinations dates.



Qualification Documents by the IA Laboratory

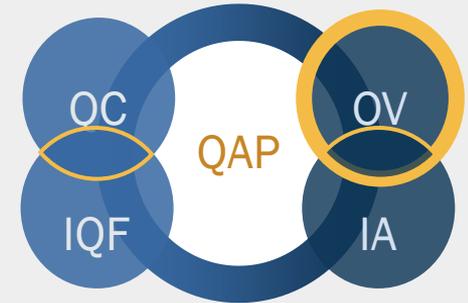


- Form 2687, “Examinee’s Certification Acknowledgment,”
- Form 2682, “Quality System Inspection – Commercial Laboratory”
- “Visual Inspection Equipment Checklist”





- Added Tex-115-E, “Moisture Content”, as a Level 2
- Added compressive strength of grouts, Tex-442-A (cubes) and Tex-418-A (cylinders), as a Level 2.
- Concrete table: Added Tex-423-A, Part III “Depth of Saw Cut” as a Level 2.
- HMA Table: Added Tex-248-F, “Overlay Test” as a Level 3.

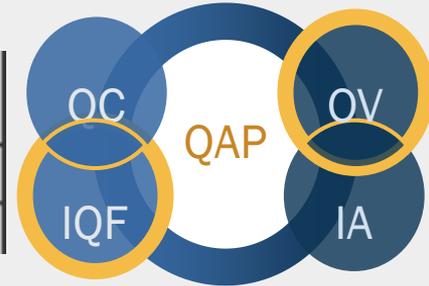


Appendices L & M – New Templates for use on Projects



Appendix L - IQF/OVF Engineering Judgment Logs

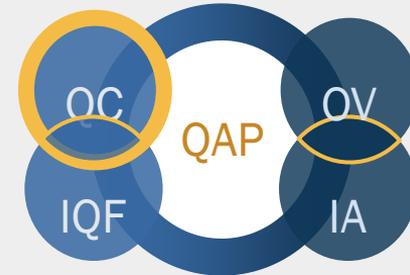
EJ No.	Date Issued	Discipline	Location	Specification Requirement	Description and Magnitude of Deviation	Engineering Judgment Justification	Engineering Judgment By	Status (Open or Closed)	Date Closed



Appendix M - Nonconformance Report Log

NON-CONFORMANCE LOG
 [PROJECT NAME] 20##, Quarter #

NCR No.	Date Issued	Discipline	Originator	Description of NCR	Location	Description of Solution to the NCR	Disposition	EOR Review/ Approval Date	TxDOT Concurrence Date	Corrective Action Complete Date	Status (Open / Closed)	Date Closed	Non-Compliance Points Assessed (Yes/No)



Appendix N – New Templates for use on Projects



Inspection Report Form - Sample

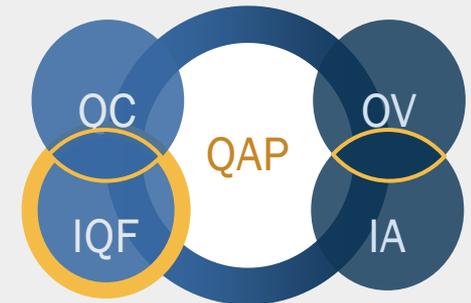
Project Name		Inspection Report No.	
Controlling CSJ #		Inspected Date	
		Inspection Type	
Weather		Temperature	
Section		Spec Item	
Feature		Roadway	
Alignment		Direction	
Station From		Station To	
GPS Longitude		GPS Latitude	
Element #		Location Description	
RFC Sheet #(s)		Related CDR(s)	
Related NCR(s)		Related RFI(s)	
Sample/Test ID(s)		Previous Fail Inspection Report No.	

Inspection Observations

Conversation Log

Inspection Result		Inspector Submitted Date	
Inspector		Supervisor Reviewed Date	
Supervisor			

- Appendix N - Inspection Report Form



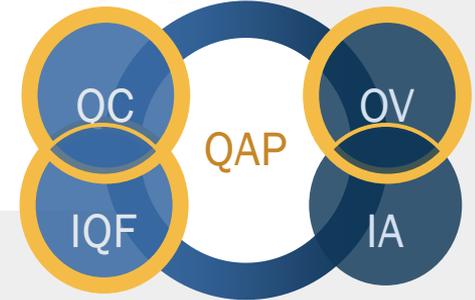
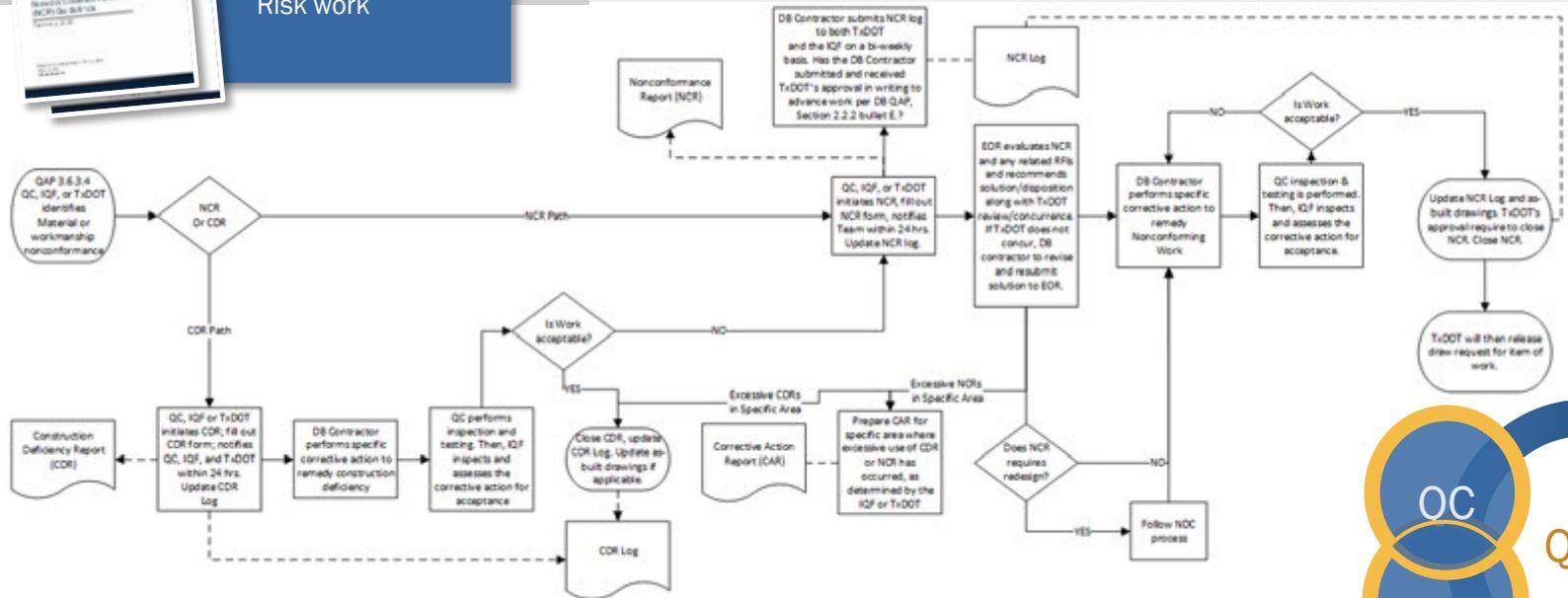
Appendix O - NCR Process Flowchart



Clarifies the NCR process and At-Risk work

QAP 3.6.3.4

Nonconformance and Construction Deficiency Process Updates





Availability

TxDOT MTD-provided inspection and testing services at MPL approved plants is performed on a case-by-case basis.

Timeline

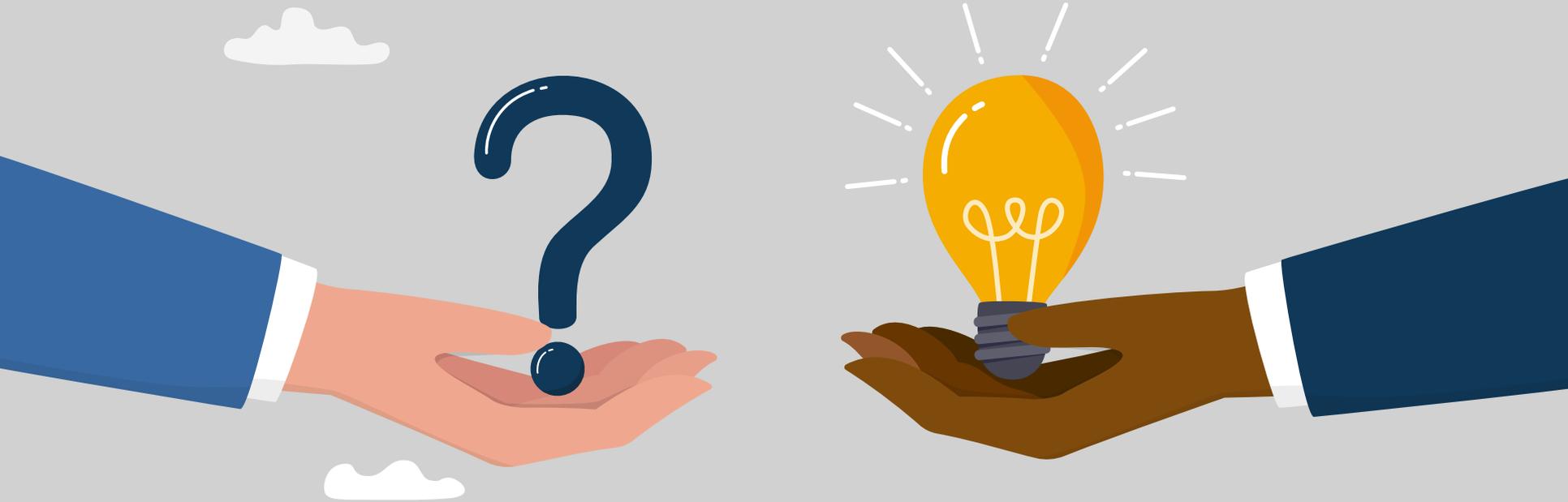
Required notice to TxDOT MTD when requesting inspection of prefabricated products.

Alternative

Procedures when using Supplier's QC, IQF, and/or OVF to perform inspection and testing.



Questions & Discussion



HELP

#EndTheStreakTX

End the streak of daily deaths on Texas roadways.

[TxDOT.gov](https://www.txdot.gov) (Keyword: #EndTheStreakTX)



#EndTheStreakTX Toolkit

