



# CEI Contracts - Procurement and Management 2023 PEPS Conference

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December 6, 2023



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# What is CEI?



## CEI = Construction Engineering and Inspection

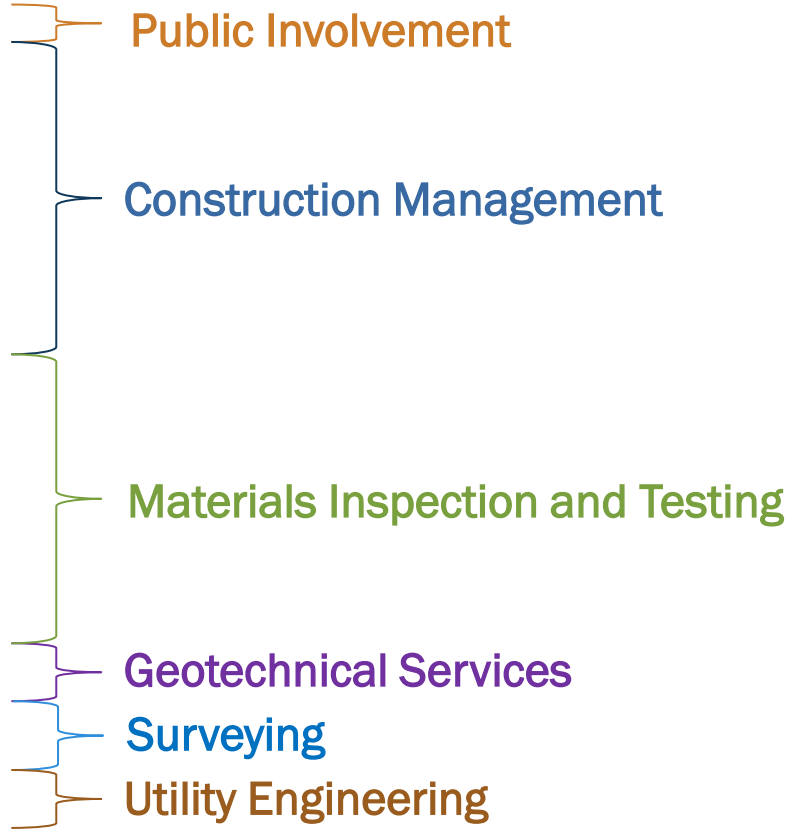
*Engineering and quality assurance oversight during the construction phase of a project: monitoring and verifying that construction is in accordance with the plans and providing Engineer Led Inspection Teams to perform various services.*



# Typical work categories in a CEI contract



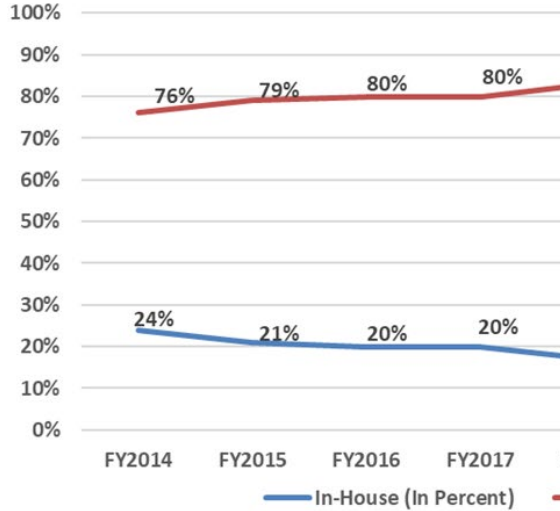
1.8.1	Public Involvement
11.1.1	Roadway Construction Management And Inspection
11.2.1	Bridge Construction Management And Inspection
11.3.1	Construction Superintendent
11.4.1	Environmental Inspections
11.5.1	Construction Scheduling Project Manager
11.6.1	Construction Schedule Support- General
11.8.1	Construction Schedule Support- Relating to Construction Management of Projects Including Bridges or Multi-level Interchanges
11.9.1	Railroad Coordination Management During Construction
11.10.1	Construction Record Keeper
12.1.1	Asphaltic Concrete Production
12.1.2	Portland Cement Concrete
12.1.3	Materials Engineering
12.1.4	Asphaltic Concrete Placement
12.1.5	Portland Cement Concrete Placement
12.1.6	Embankment/Subgrade/Backfill/Base Production
12.1.7	Embankment/Subgrade/Backfill/Base Placement
12.2.1	Concrete Plant Inspection And Testing
12.2.5	Hot Mix Asphalt (HMA) Plant Inspection and Testing
14.1.1	Soil Exploration
14.2.1	Geotechnical Testing
15.2.1	Design Survey
15.2.2	Construction Survey
18.2.1	Subsurface Utility Engineering (Utility Eng. Investigation)
18.5.1	Utility Construction Management and Verification



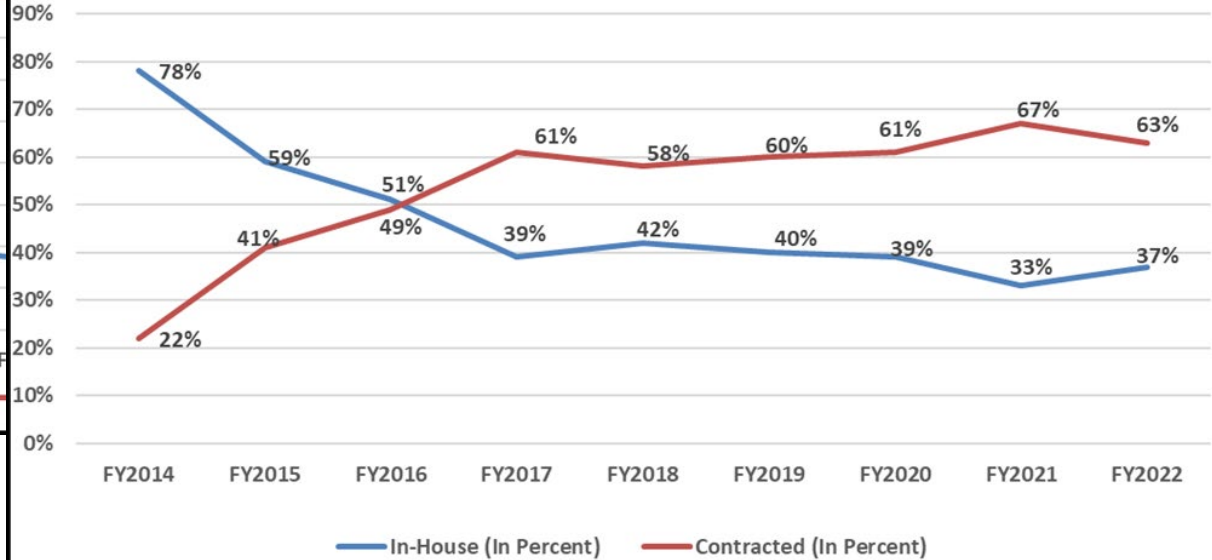




## PRELIMINARY ENGINEERING



## CONSTRUCTION ENGINEERING



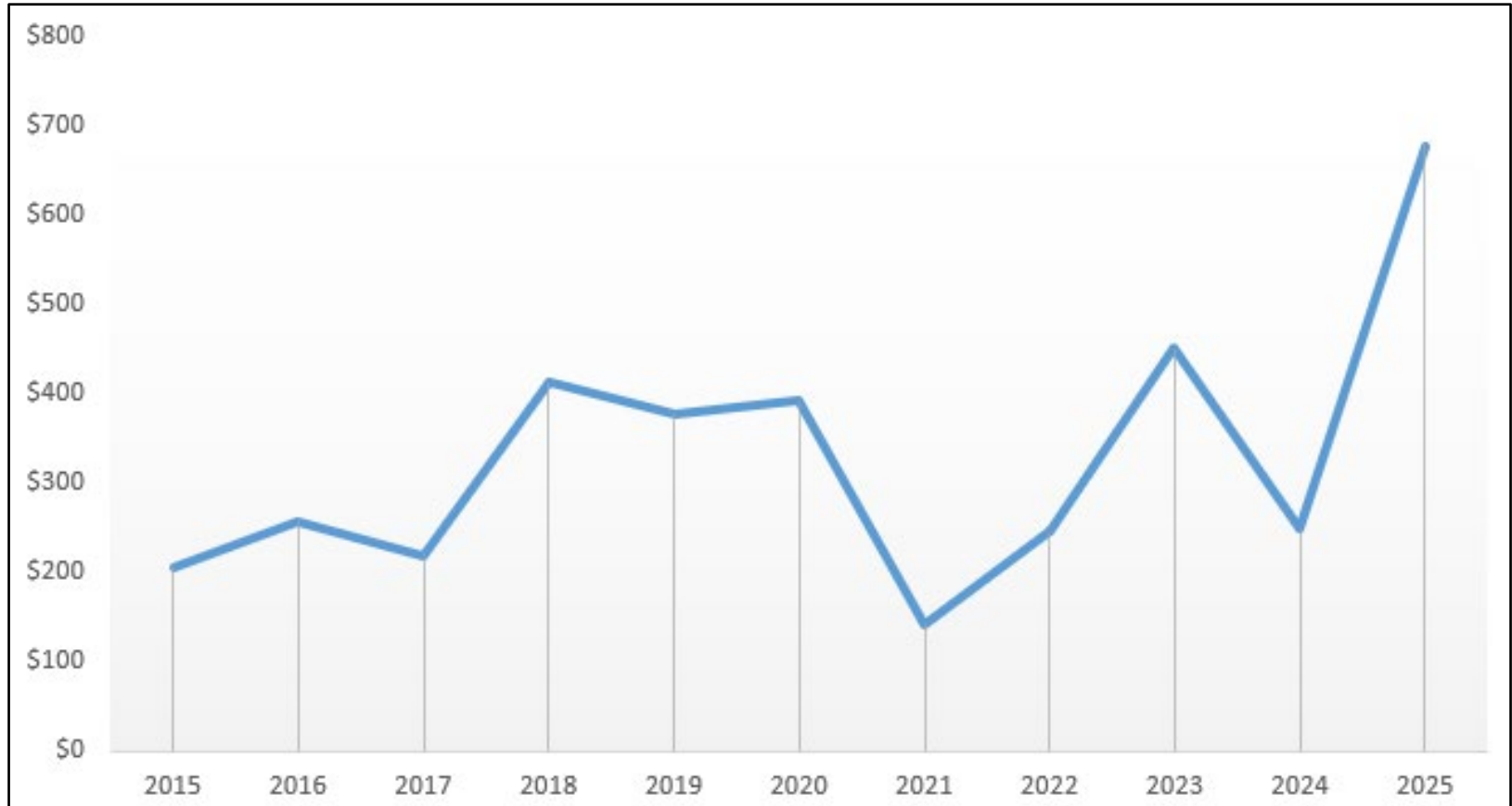
# Annual Procurement Plan

FY	CEI Procurements		All Procurements	
	Contracts	Estimated Value (Million)	Contracts	Estimated Value (Million)
2015	43	\$206	253	\$889
2016	57	\$257	415	\$1,489
2017	31	\$219	350	\$1,619
2018	50	\$412	335	\$1,923
2019	46	\$377	348	\$2,027
2020	41	\$391	336	\$2,051
2021	15	\$142	140	\$814
2022	20	\$245	93	\$954
2023	44	\$450	309	\$2,487
2024	29	\$248*	308	\$2,326*
2025	40	\$676*	251	\$1,968*

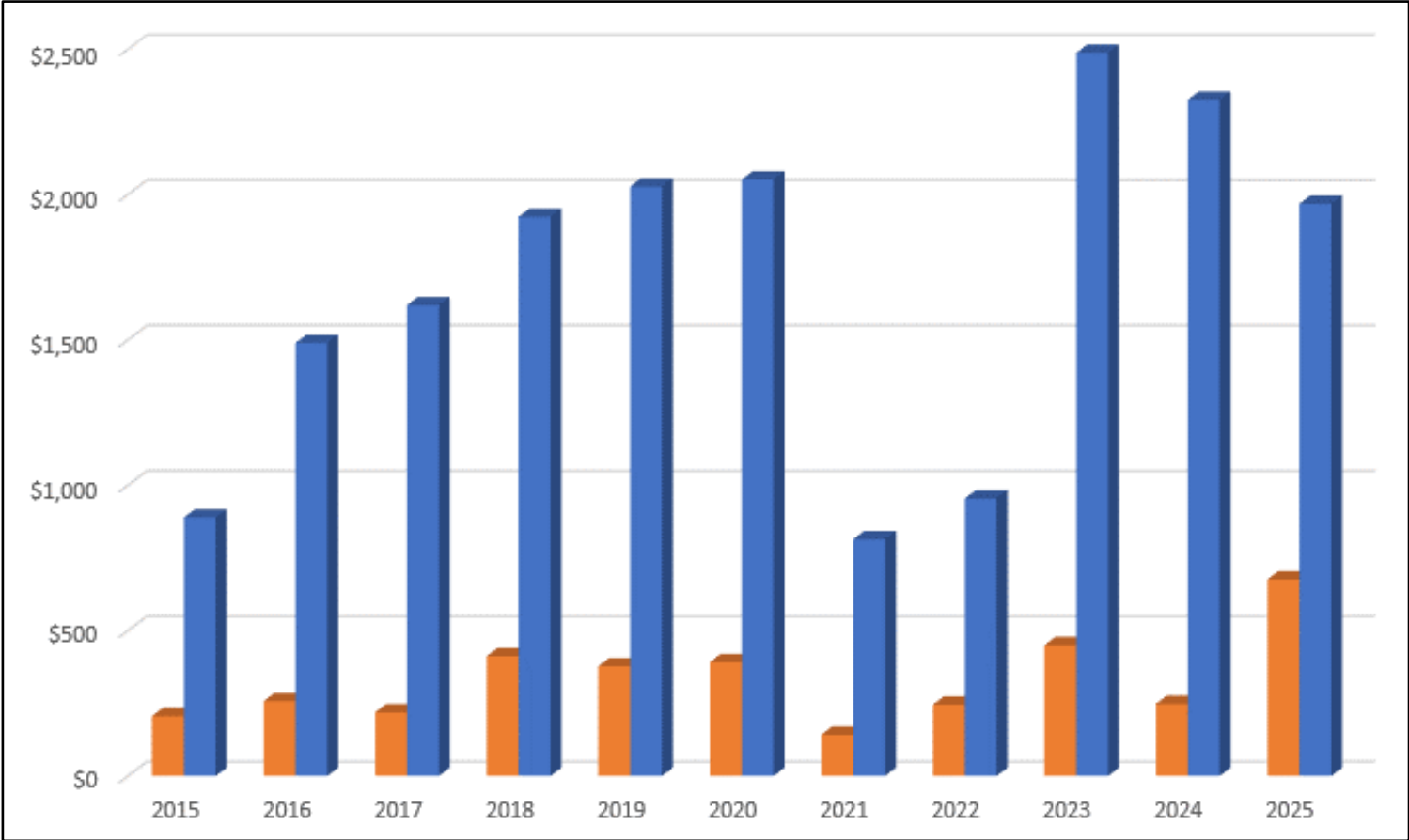
\* Approximate or projected value (incomplete fiscal year)



# CEI Procurements (Millions)



# CEI versus Total Procurements (Millions)





# Changes in Procurement Process



Prior to  
2019

- Federal Management contract
- Federal Selection Process with Interviews
- FHWA reviewed all scopes

2019 to  
2023

- Federal Management contract
- Federal Selection Process with Interviews
- No FHWA review

July 2023

- No longer considered Federal Management contracts
- Federal Selection Process with or without Interviews
- Interviews required for ID contracts > \$10 Million

November  
2023

- ID: State funding, Non-Federal Selection Process (HUB goal)
- SD: Federal funding, Federal Selection Process (DBE goal)
- Interviews for ID contracts > \$10 Million, SD contracts > \$5 million

A large-scale construction site for a bridge or railway overpass. Several long, brown concrete girders are being hoisted into place by large lattice-boom cranes. The girders are supported by concrete pillars. In the foreground, there are railway tracks and construction equipment. The scene is set against a clear blue sky.

# Scope Updates



## Joint Workgroup

- Composed of TxDOT and ACEC members
- Cooperative effort by subject matter experts



## Purpose of Changes

- Reduce overhead costs
- Potentially limit liability, where possible on CEI contracts



## Result

- Revised scope language was agreed to by all
- Concerns from General Counsel and Contract Services Divisions were addressed



## Significant Change:

Section 1.4 Legal Relations and Responsibilities

Was revised to include the following statement:

“As a representative of TxDOT, the Engineer shall notify the State and the contractor of the contractor’s failure to comply with the construction plans, standard specifications, special specifications, and special provisions. The Engineer is obligated to notify the State and contractor of compliance issues. The Engineer does not have the authority to direct the contractor’s operations.”



## December 2022

- Piloted updated CEI scope in FY 23, Wave 2

## March 2023 – Reorganized scope to:

- Place General Requirements section at the top and renumber it to 1.1 through 1.15
- Place Contract Administration section after General Requirements and renumber to 2.1 through 2.7
- Renumber Legal Relations & Responsibilities from 1.4 to 2.4





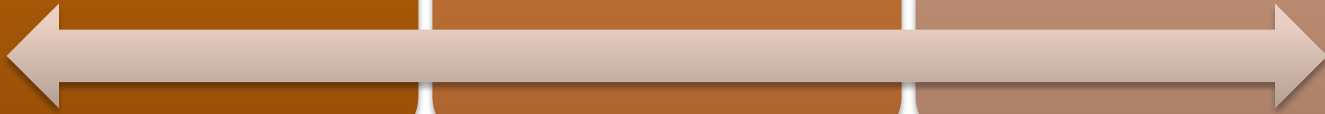
Function Code 135 has been created for Utility Engineering Investigation



This includes SUE Services A,B,C,D as well as utility adjustment coordination



These services were part of function code 130 Right of Way Data





The change is occurring distinguish between ROW and Utility Engineering

- FC 130 ROW – Survey
- FC 135 ROW – Utility Activities



This change will allow for better financial allocation and analysis of Utility Engineering Investigation services being performed in each contract discipline by assigning the new function code

A background image of a construction site featuring a large concrete structure under construction, orange traffic barrels, and a worker in a high-visibility vest. A large blue rounded rectangle is overlaid on the image, containing the text.

# Best Practices in Contract Management



## TOTAL

The consultant selected will provide a scope of services that incorporates every aspect of project management, including, but not limited to project management, inspection, record keeping, schedule review, materials testing, and engineering support.

## HYBRID

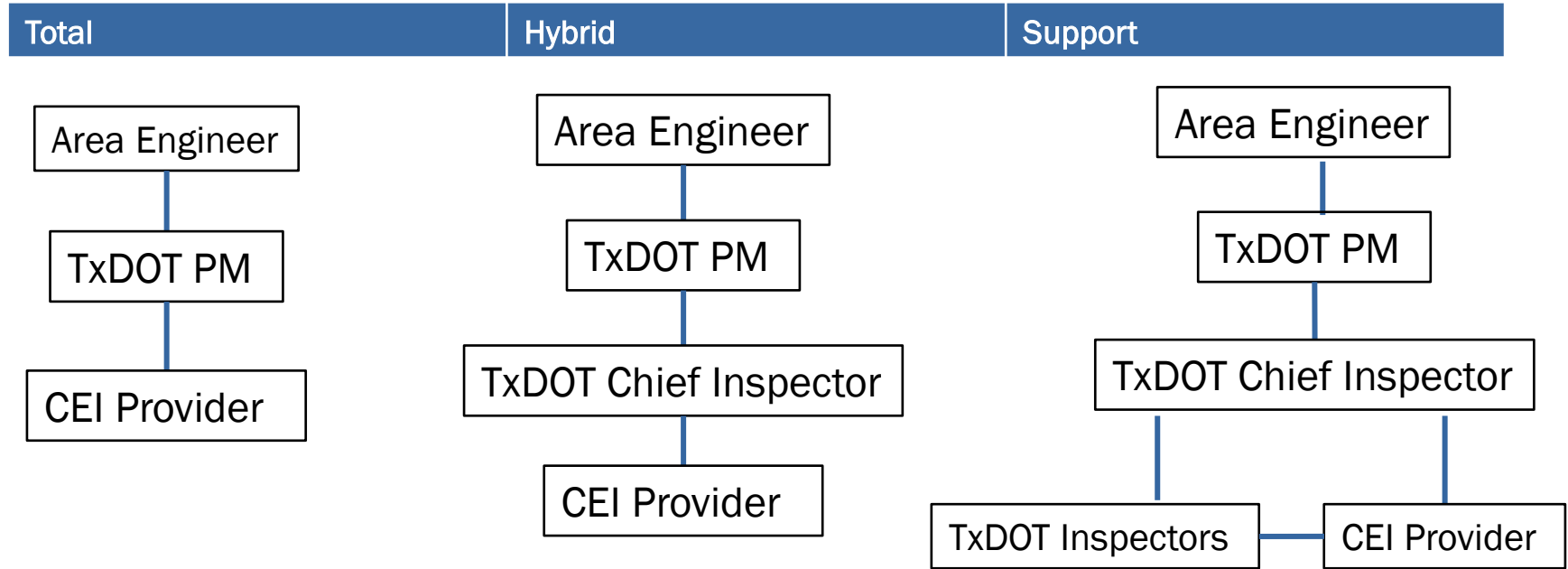
The consultant selected will provide a scope of services that works under TxDOT project staff. TxDOT assigns an internal PM and Chief Inspector to manage the CEI staff.

## SUPPORT

The consultant selected will provide a limited scope of services, generally for field engineering and inspection only to support and supplement TxDOT project staff.



Make sure you chose the right management style





## The PS&E team should meet with the Area/Office

- Will the PS&E TxDOT PM remain in charge of construction phase services on the contract or WA?
- Will the TxDOT Construction PM take over the services?



## Establish Roles and Responsibilities

- Establish a communication plan to filter correspondences and Request for Information (RFI)
- Who will be taking the lead on managing the correspondence?
- Who will approve and review shop drawing and RFIs?



TxDOT PM should review invoicing and prime provider evaluations with the CEI



TxDOT PM and CEI should know procedures when it comes to partnering and escalation



TxDOT PM and CEI should also know the procedures for Errors and Omissions

# Questions and Discussion





# HELP #EndTheStreakTX

End the streak of daily deaths on Texas roadways.

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



#EndTheStreakTX Toolkit






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