

ASIG

Texas Ancillary Structures Interest Group

Welcome to the annual meeting



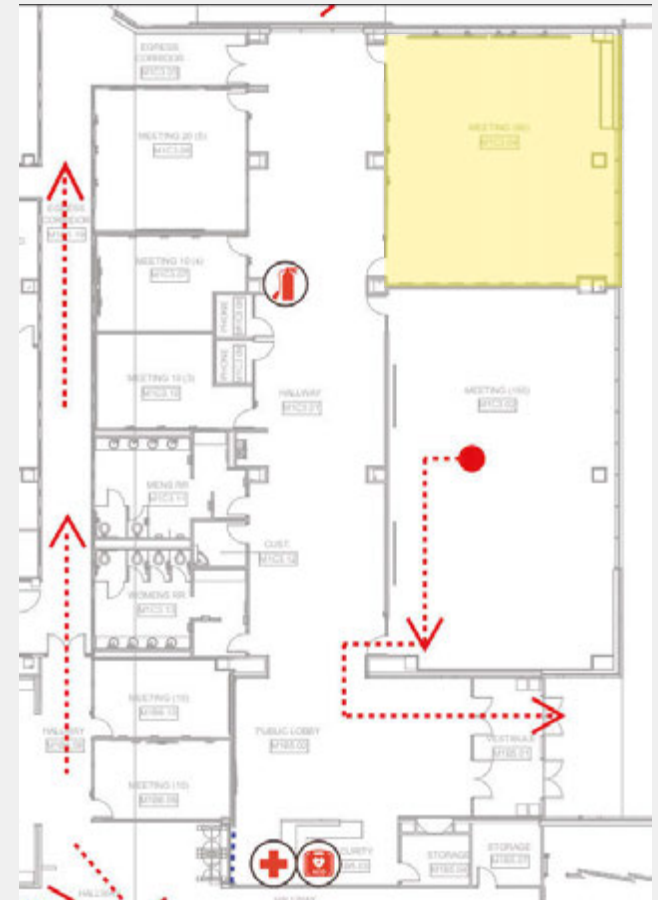
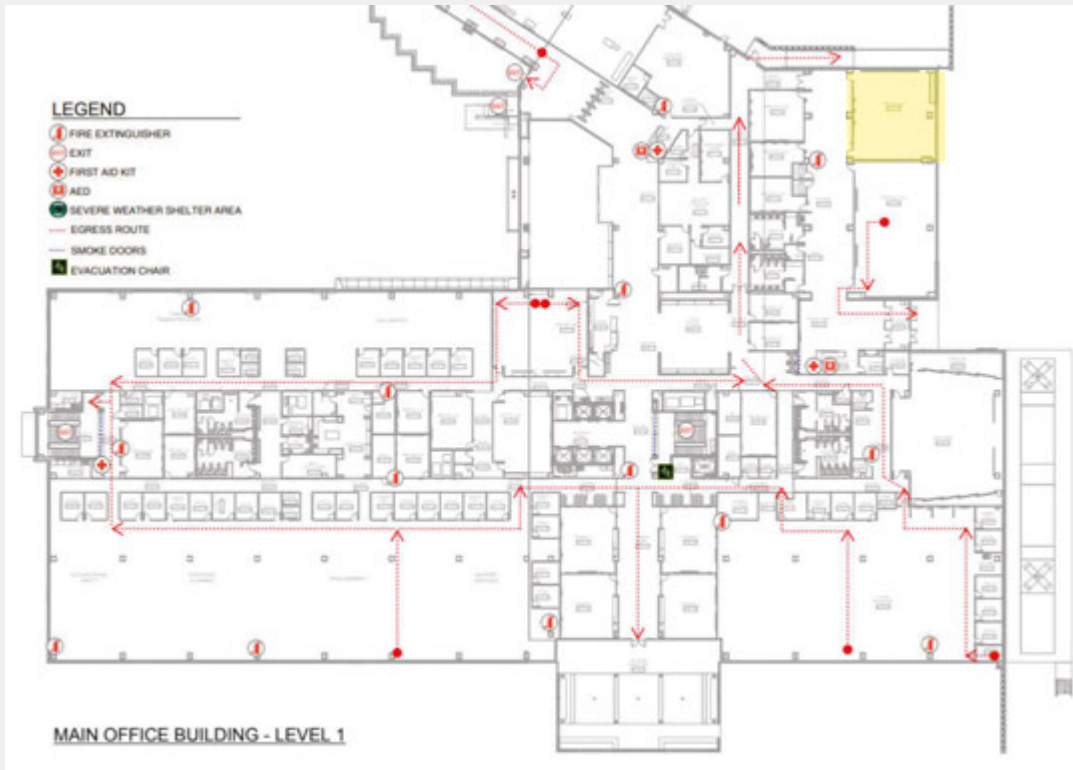
August 15, 2025

Housekeeping

- **Virtual attendees** are muted. Submit a message in the Q&A if you have a question.
- **In-person attendees**, please make sure that you've registered (helps with planning)
- Coffee bar – Need to get badge from security desk
- Lunch is off-site
- Restrooms

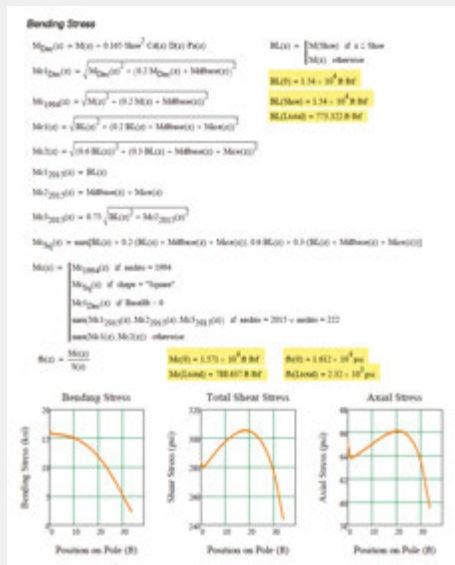


Building Safety

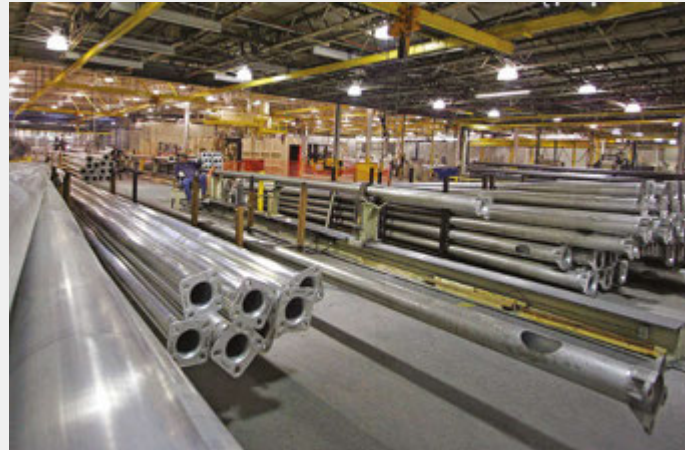


Texas Ancillary Structures Interest Group (TASIG)

Overview: This is a joint owner-industry forum aimed at guiding, advancing and improving ancillary structure aspects such as:



Design



Fabrication



Construction

Texas Ancillary Structures Interest Group (TASIG)

Goals:

- Industry feedback, industry education
- Advance design/details/fabrication/construction
- Address procedural and performance issues

Texas Ancillary Structures Interest Group (TASIG)



The screenshot shows the Texas Department of Transportation website. The header includes the TxDOT logo and navigation links: Discover Texas, Data and maps, Do business, Explore projects, Stay safe, and About. The main content area is titled "Texas Ancillary Structures Interest Group". It features a "Partnerships" sidebar with links to Metropolitan planning organizations, Regional mobility authorities, Travel industry partners, 2019 Western Association of State Highway and Transportation Officials, and the Texas Ancillary Structures Interest Group. The main text describes TASIG as a new joint owner-industry forum. It lists the following participants: TxDOT staff from TRF, MTD, BRG, CST, and MNT Divisions; Fabricators of these ancillary/traffic structures; Consultant engineers involved in ancillary/traffic structure design and alternate designs; Contractors involved in construction of ancillary/traffic structures; and Researchers/Academics involved in ancillary/traffic structures. It also lists the following aspects of ancillary/traffic structures that TASIG is interested in: Design, Fabrication, Construction, and Performance. A call to action invites interested parties to sign up for email notifications by visiting [Texas Department of Transportation \(fordelivery.com\)](https://www.txdot.gov/inside-txdot/division/bridge/ancillary-structures.html) and selecting Bridge > Texas Ancillary Structures Interest Group. An email address is provided: BRG-TASIG@txdot.gov. A final list of ancillary/traffic structures includes: Overhead sign bridges, Cantilever overhead sign structures, Monotube sign structures, High mast illumination poles (HMIP), Traffic signal structures, Roadway illumination poles, and Intelligent Transportation System Poles.

TASIG Email:

BRG-TASIG@txdot.gov

TASIG Website:

<https://www.txdot.gov/inside-txdot/division/bridge/ancillary-structures.html>

2025 TASIG AGENDA



Connecting you with Texas.

| Time | Topic | Speaker |
|----------|---|------------|
| 9:00 AM | Welcome to TASIG 2025 | TxDOT |
| 9:05 AM | TxDOT Updates on Ancillary Structures | TxDOT |
| 9:40 AM | Open Discussion | |
| 10:00 AM | Break | |
| 10:20 AM | Research Updates Presentation | |
| | <i>0-7193: Develop Assessment and Mitigation Guidance for Ancillary Highway Structures with Existing Cracks</i> | UT and A&M |
| | <i>0-7192: Develop Performance of Baseplate Connections in COSS and Traffic Signal Structures</i> | TTI |
| | <i>0-7236: Development of Standardized LRFD Design Methods for Ancillary Highway Structure Foundations</i> | TxDOT |
| 11:20 AM | Open Discussion | |
| 11:45 AM | Lunch (11:45am-1pm offsite) | |
| 1:00 PM | Resources | TxDOT |
| 1:30 PM | Open Discussion | |
| 1:50 PM | Break | |
| 2:10 PM | Shop Drawings | TxDOT |
| 2:30 PM | Open Discussion | |
| 2:55 PM | Closing Remarks | |
| 3:00 PM | Adjourn | |



Traffic Safety Division

Standard Updates

Rafael Riojas, Traffic Engineering Section Director

HELP MAKE TEXAS SAFER FOR EVERYONE

DRIVE *like a* TEXAN™

Kind. Courteous. Safe.

[DriveLikeATexan.com](https://www.DriveLikeATexan.com)



ED-25 Sheet Updates

- Sheets where released April 14, 2025
- These standard sheets may be used immediately and shall be used for all applicable PS&E sets beginning with the October 2025 letting.

ED-25 Sheet Updates

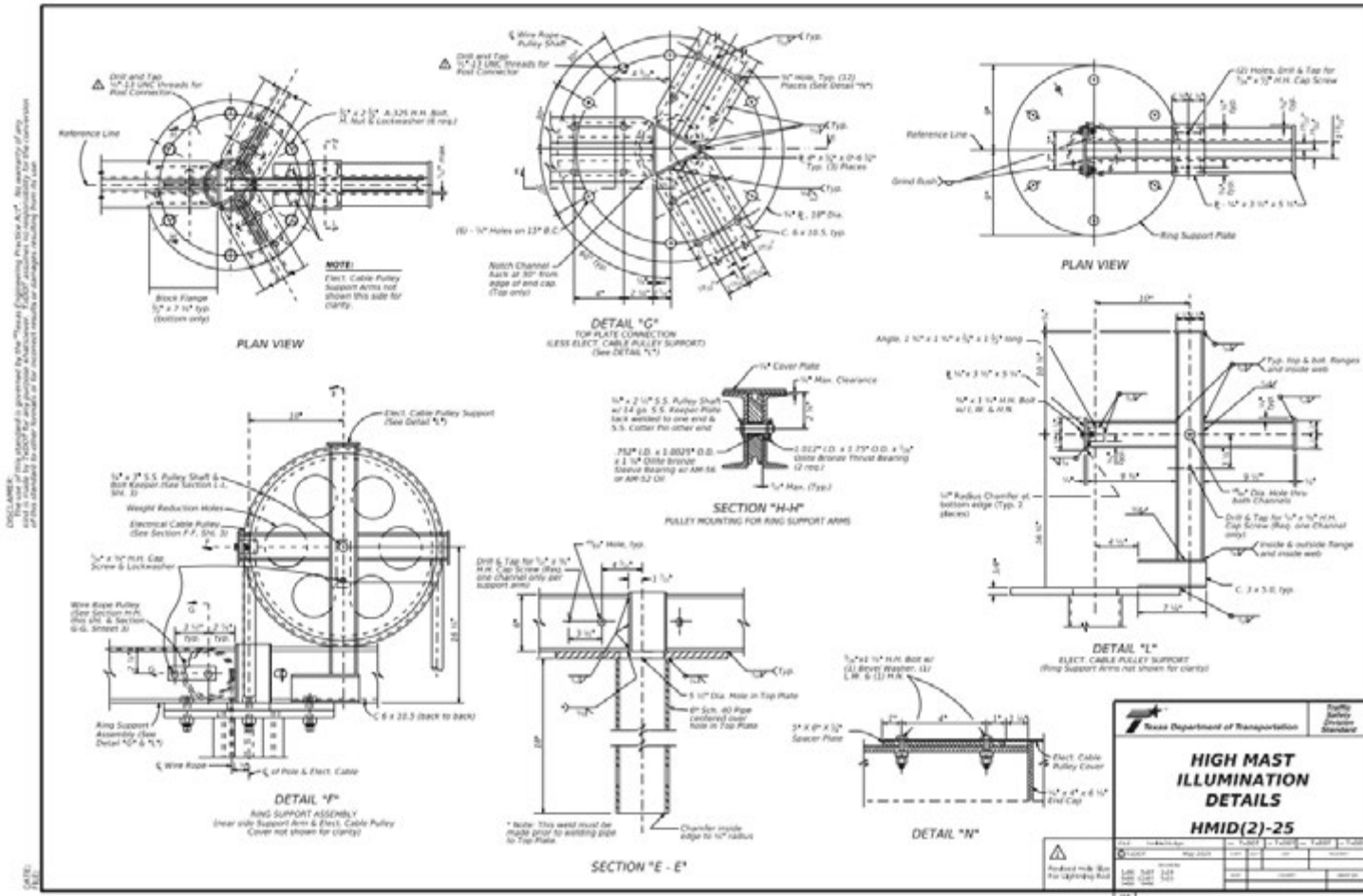
- ED
 - Changed the length of conductors outside of weatherheads to be 18 in. to 36 in. as required by the electric utility.
- ED(1)
 - Clarified RMC minimum burial measurements to 18" below grade or bottom of ground box.
- ED(4)
 - Modified ground box detail to specify concrete without the class.

ED-25 Sheet Updates

- ED(7)
 - Increased the quantity of rebar for underground service foundations to satisfy NEC requirements for concrete-encased grounding electrodes.
- ED(11)
 - Revised foundation detail to remove callouts associated with RMC elbows.
- ED(12)
 - Revised Section A-A detail to show:
 - Conduit entering the ground box on one side;
 - The callout for concrete without specifying the class.

HMID(2)-25 update

- Sheets where released May 21, 2025
 - Revised the weld in Detail “G”. This revision reverts the weld to its original configuration on the support arm [per HMID-03].



HMID(2)-25 update

Existing Welding Symbol (on 2024 updates):



Proposed Welding Symbol:





BRIDGE (STRUCTURES)

TxDOT Ancillary Structure Standards

BRG maintains the *structural aspects* of:

| Standard Description | Standards | Current Design Spec. | Upcoming Design Spec. |
|-----------------------------|---|-----------------------------|-----------------------|
| High Mast Illumination Assy | HMIP, HMID | LTS-3 (1994) | LTS-6 |
| Roadway Illumination Assy | RIP, RID | LTS-6 (2013) | LRFD-LTS |
| Overhead Sign Structures | OSB, HOSB, COSS, HCOSS | LTS-3 (1994) | LRFD-LTS |
| Monotube Sign Structures | MS, MC | LTS-6 (2013) | |
| Traffic Signal Poles | SP, SMA, DMA, MA, MAC, MAD, TS, LUM, CFA, LMA | LTS-3 (1994) | LRFD-LTS |
| Wind and Ice Maps | WV & IZ | LTS-3 (1994) & LTS-6 (2013) | LRFD-LTS |

<https://www.dot.state.tx.us/insdtdot/orgchart/cmd/cserve/standard/toc.htm>

TxDOT Ancillary Structure Standards

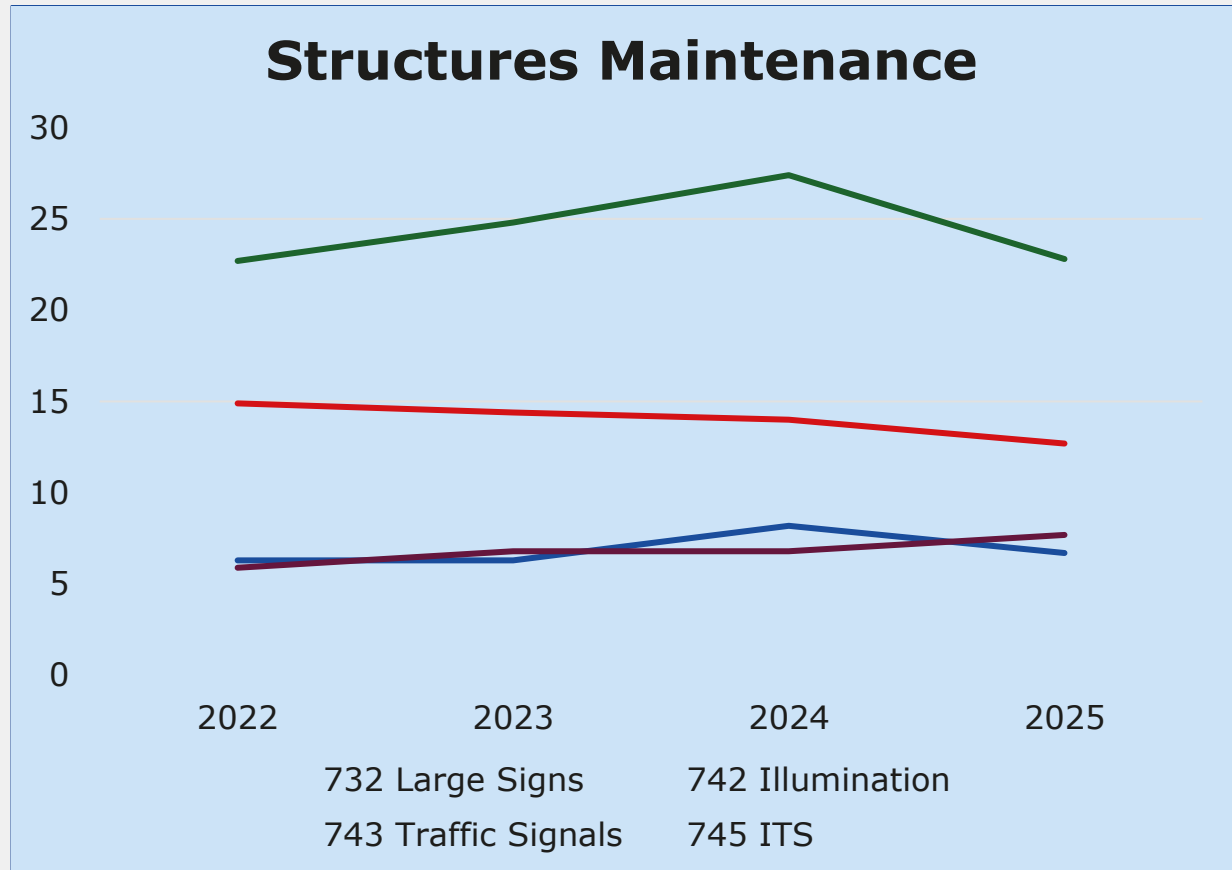
BRG maintains the *structural aspects* of:

| Special Details | Standards | Current Design Spec. |
|---|-----------------|----------------------|
| DMS Attachment Details | DMS-TM & DMS-HZ | LTS-3 (1994) |
| Connection between concrete column & truss sign support | Upcoming | LTS-6 (2013) |
| Bridge Railing Sign Mount | SMD(BR) | LTS-6 (2013) |
| Sign Mounting Details | SMD | LTS-3 (1994) |

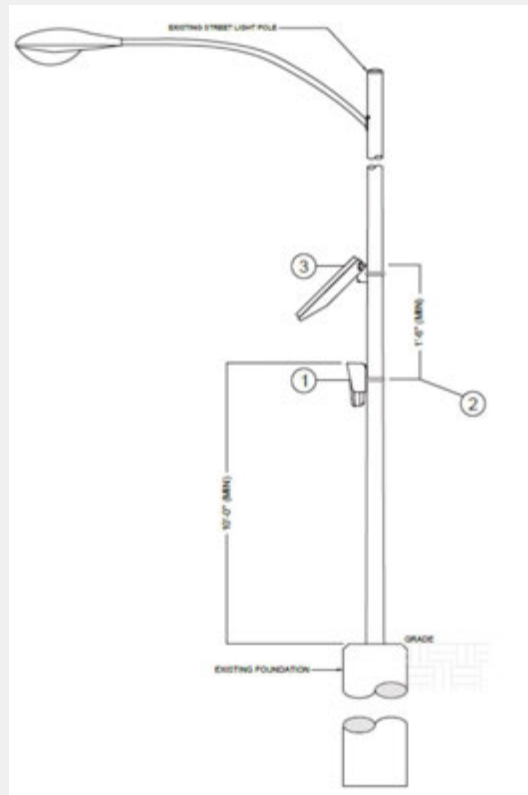
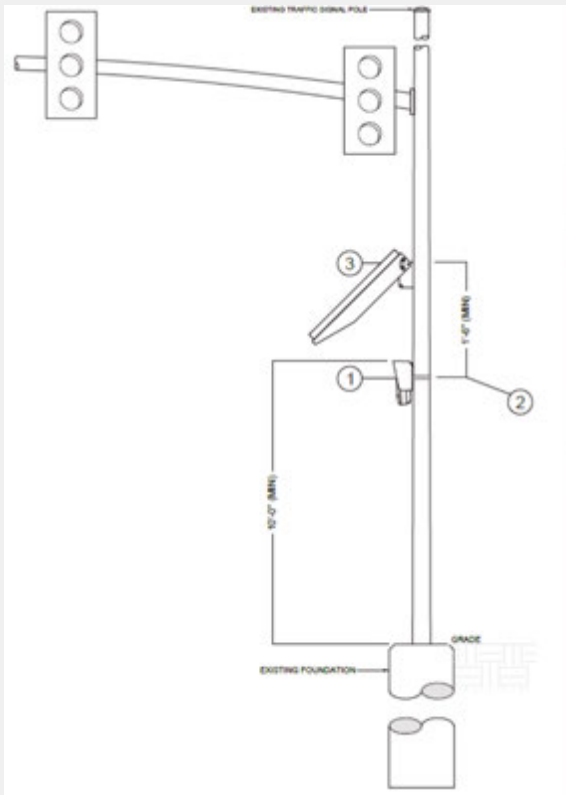


MAINTENANCE

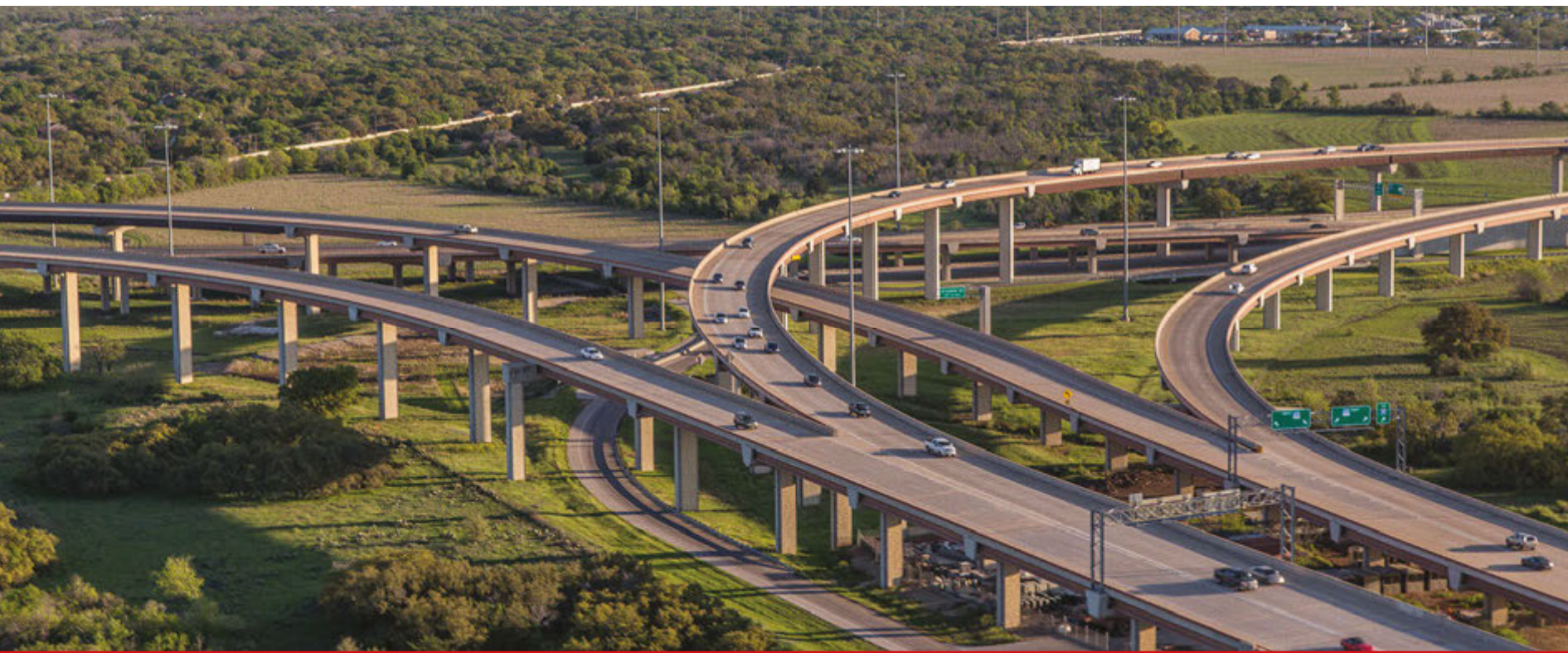
- Looking at \$1.85B next year for maintenance
- Approximately \$50M per year in signals, illumination, large signs, and ITS
- About \$4M is structural work



Pole Attachment Connections



- License Plate Reader Attachments
- Best practices for attachments?



HMIP/OHSS Inventory and Inspection

Greg Jones, P.E.



August 15, 2025

The Need

Before 2020 - No statewide records of large traffic structures:

- Locations
- Quantities
- Conditions – age, damage



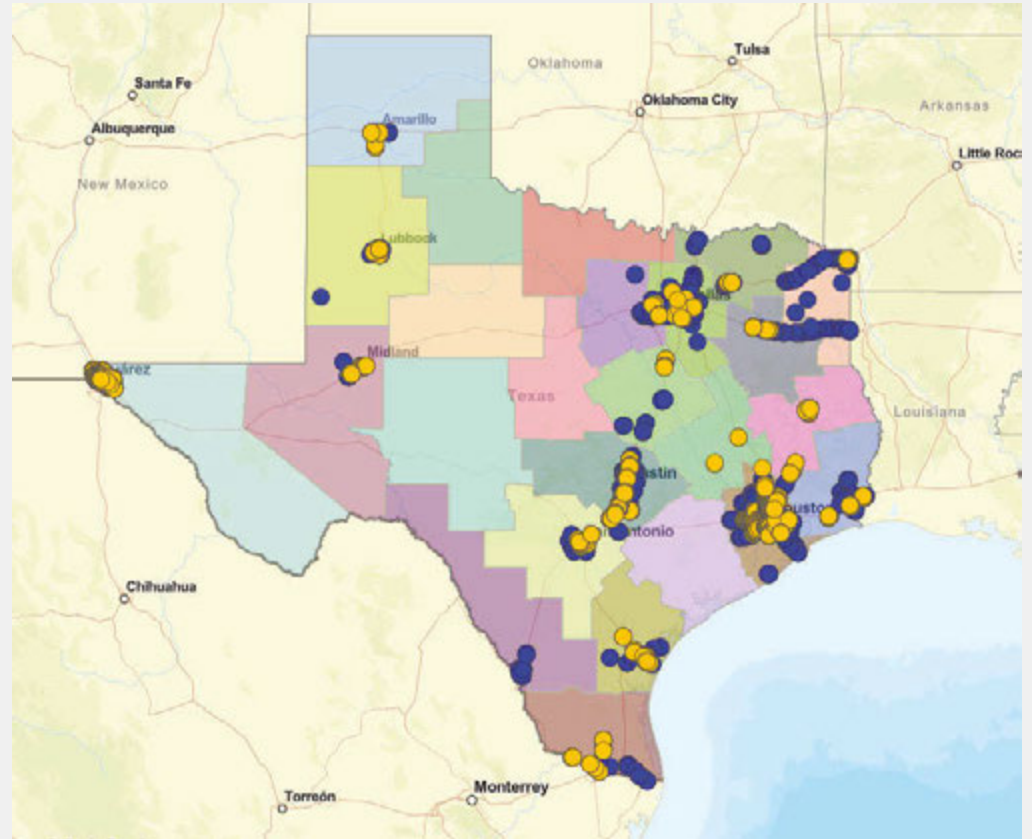
Contract with MBI

- Tasks:
 - Inventory, Inspection, Database
- Ancillary Structures:
 - High Masts, Overhead Sign Structures, ITS Poles, Signals
- Sept 2025 – End of contract



High Mast Poles

- 2025: Completed HM Inventory
- Over 6000 HM poles
- Structural inspection of 1 in 4



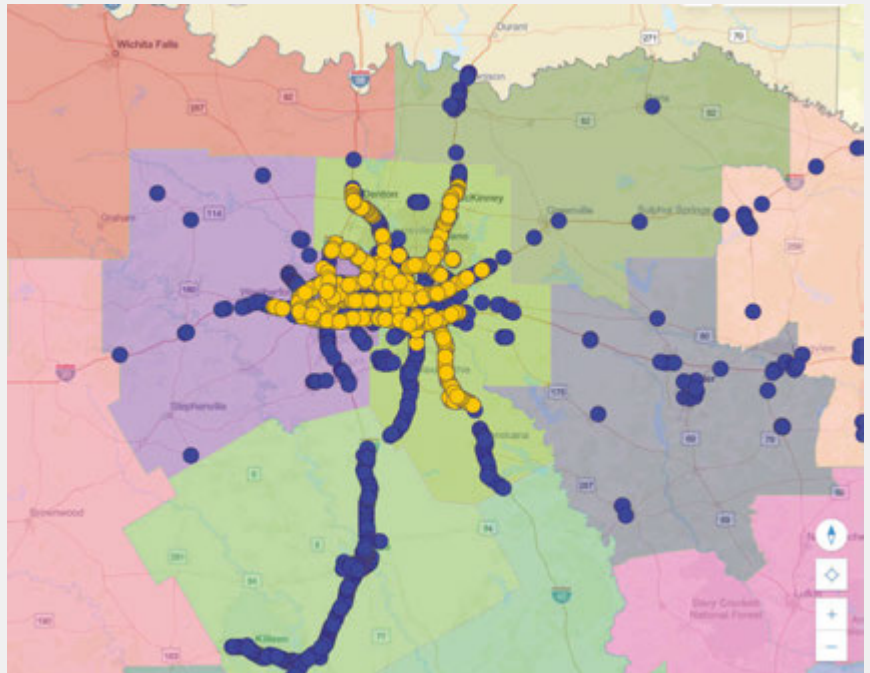
Overhead Sign Structures

- 2022: Failure of COSS on US 75 in N Texas
- 2022: TxDOT Statewide inspection of COSS anchor bolts



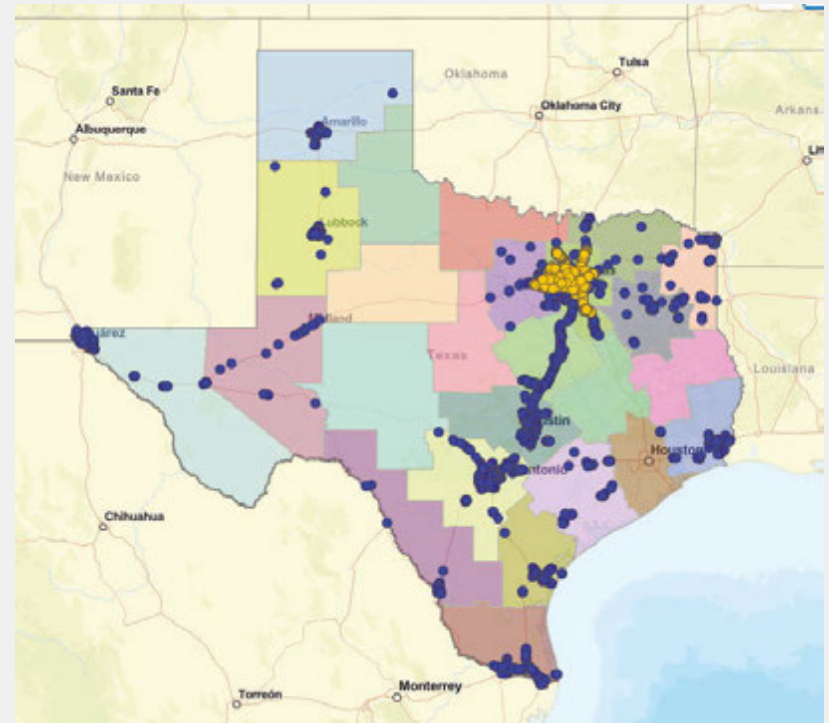
Overhead Sign Structures

- 2022: Failure of COSS on US 75 in N Texas
- 2022: TxDOT Statewide inspection of COSS anchor bolts
- 2023: Inspected OHSS in FTW and DAL



Overhead Sign Structures

- 2022: Failure of COSS on US 75 in N Texas
- 2022: TxDOT Statewide inspection of COSS anchor bolts
- 2023: Inspected OHSS in FTW and DAL
- 2024: Completed OHSS statewide inventory



Overhead Sign Structures

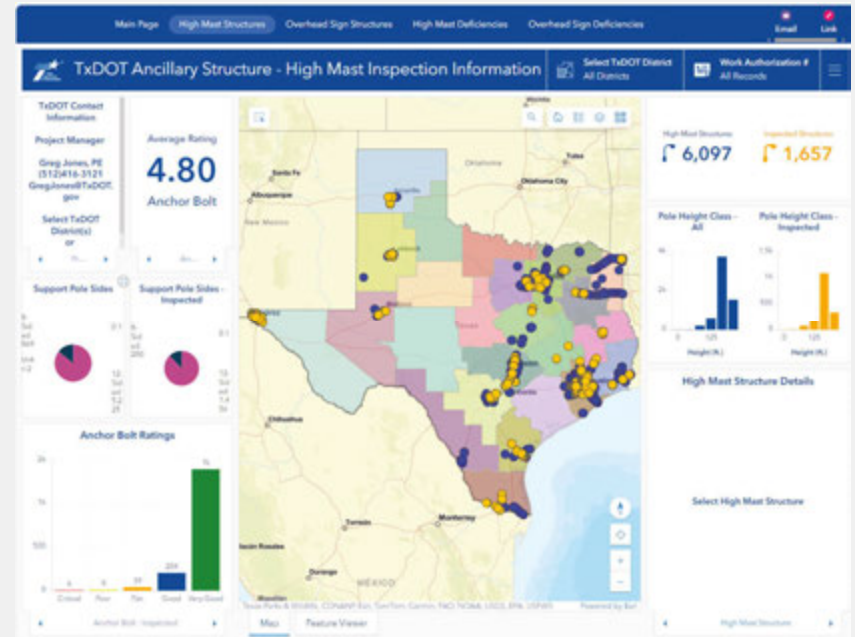
- 2025: NDT of FTW and DAL COSS
- Structures with >2 loose nuts
- 15 of 87 inspected structures had cracks in weld to base plate.
- Up to 5 cracks 1" to 3" long
- Notified Districts



Indication #1 and #2 at Tension End of the Structure

GIS database

- ArcGIS Online
- On TxDOT ArcGIS Online system
- All data available Sept 2025
- Get account through Service Desk
- Group - TxDOT HMI and OSS
Inspection Reporting



Next Contract

- Planned for FY2027
- Add new construction
- Inspect more structures
- May add other structure types

