TxDOT Digital Delivery Program

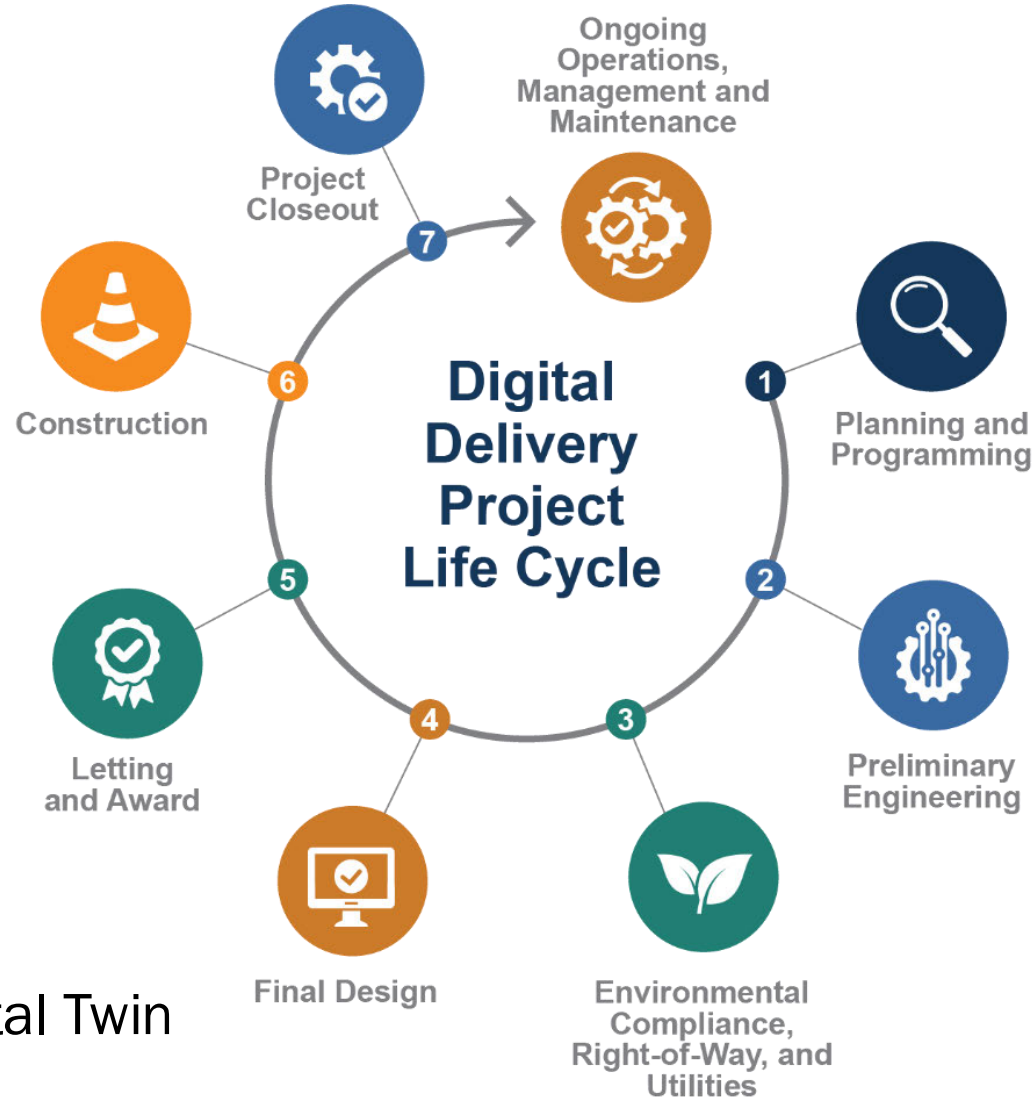
2025

Texas Department of Transportation™

What is Digital Delivery?

Replacing Traditional Plans with Digital Design Models

- Model as the Legal Document (MALD)
- Advanced 3D modeling
- Digital design review tools
  - Design and Construction
- Data-rich design models
  - Design, Construction, Asset Management, Digital Twin



DDP Pilot Project Program

Pilot Project Digital Delivery Goals

DESIGN

3D modeling constructability and clash detection

Data attribution to CAD elements for model-based quantity reporting

Digital review tools for model review and comment resolution

DELIVERABLES

Models as legal documents

3D Model Breaklines for Automated Machine Guidance (AMG) and estimating

CONSTRUCTION

Digital review in the field

Digital as-builts e-Ticketing for materials documentation

Digital construction management tool

ASSET MANAGEMENT

Data attribute to CAD elements for asset tracking

Digital as-builts

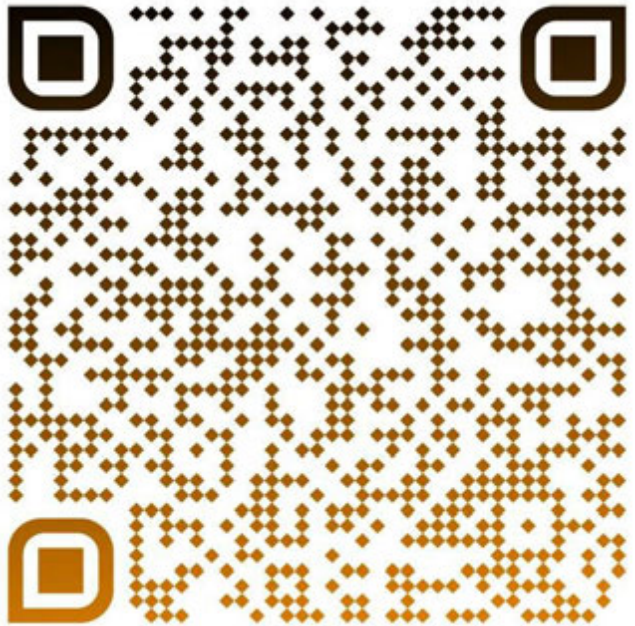
Pilot Project Tracker

HIGHWAY NAME	DISTRICT	SCOPE	LETTING DATE
FM 1977	**San Antonio**	PS&E. 0.311 mi. reconstruction and widening from FM 621 to the Guadalupe/ Caldwell county line.	**January 2025**
FM 1929	**San Angelo**	PS&E. ~8.5 mi. of rehabilitation of existing road from US 83 to Lake County Rd.	**November 2026**
FM 236	**Yoakum**	PS&E. ~5 mi. conversion from 2 to 3 lane facility. Includes proposed roadway realignment, widening, medians, and drainage improvements.	**May 2027**
US 83	**Laredo**	Schematic and PS&E. 3.741 mi. roadway widening and reconstruction from 1 mi. north of SH 255 to Los Botines Ln.	**September 2027**
FM 971	**Austin**	PS&E. 3.14 mi. roadway widening from CR 334 to SH 95. Includes proposed pedestrian and drainage improvements.	**October 2027**

Change Management

Outreach

- District Roadshows
  - Visited all 25 districts from April to August 2024
  - Overview presentation; Design, Construction, Asset Management/Maintenance, Pilot Projects, Feedback
- Industry Roadshows
  - Present offsite to industry partners
  - AGC/ACEC Chapters, specific companies, etc.
  - For contractors and consultants
- Webinars



Digital Delivery Impact Assessment Document

- Identify impacts and opportunities
- Used to guide development of policy, guidelines, SOPs
- Guides discipline-specific Impact Assessments

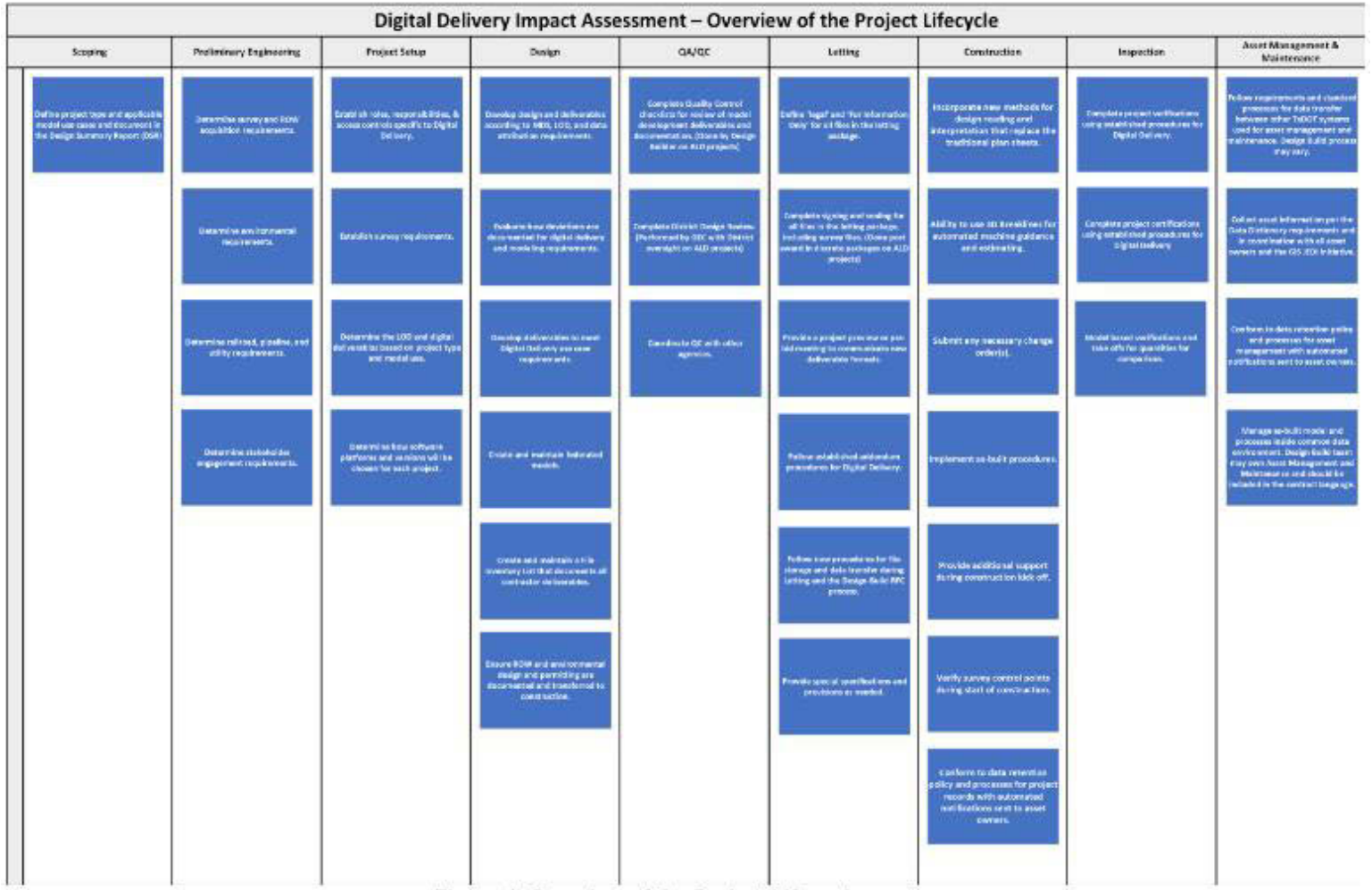


Figure 1. Overview of the Project Lifecycle

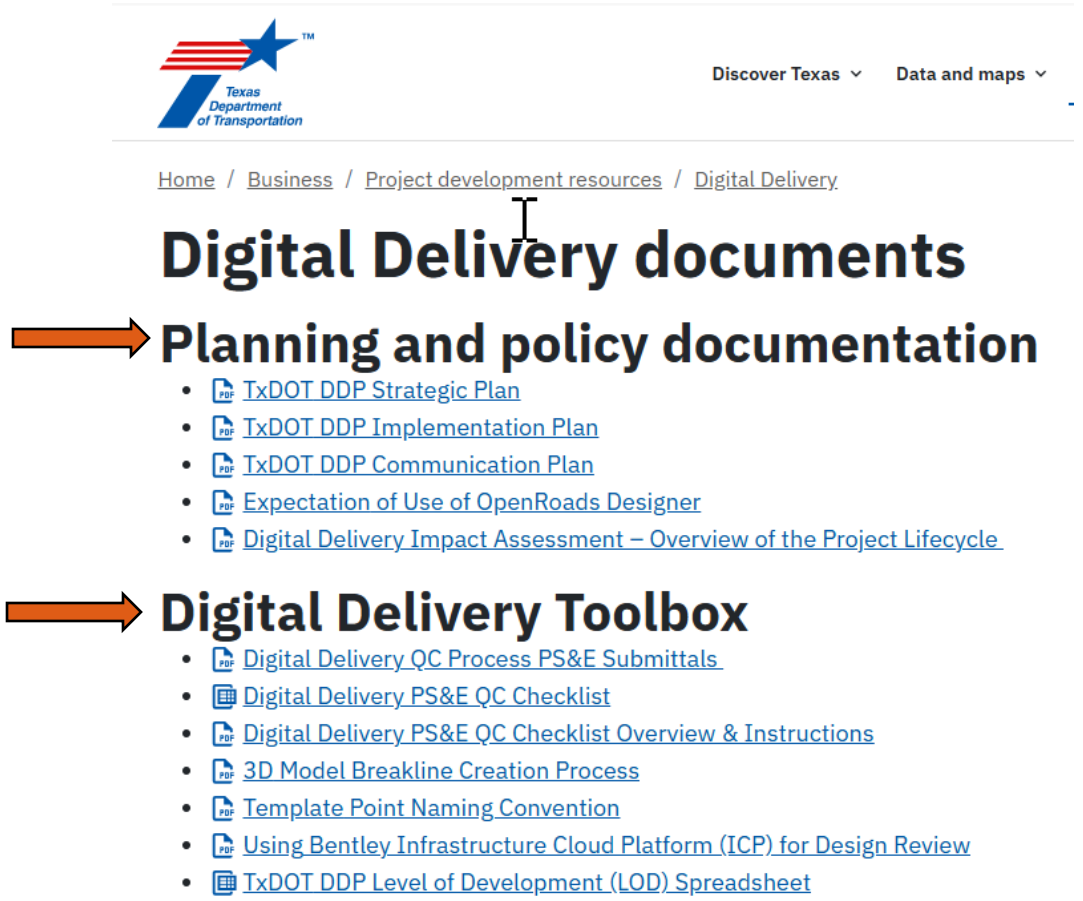
Digital Delivery Documents

Planning and Policy documents:

- Strategic Plan
- Implementation Plan
- Communication Plan

Digital Delivery Toolbox:

- DD QC Process PS&E Submittals
- DD PS&E QC Checklist
- DD PS&E Checklist Overview and Instructions
- 3D Model Breakline Creation Process
- Template Point Naming Convention



Model Delivery to Contractors

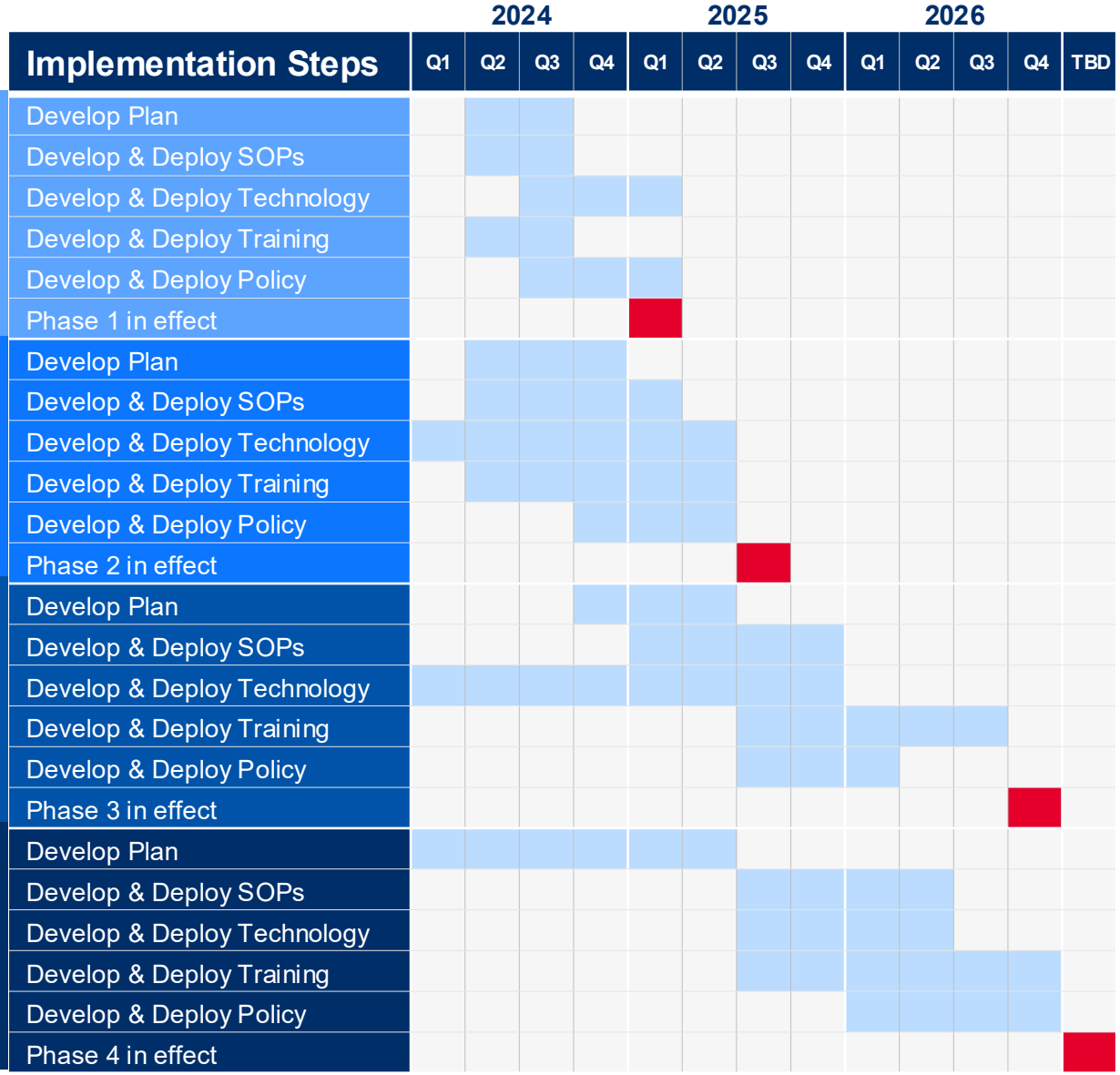
Four Phases

Phase 1
Quality Review
(Internal Only)

Phase 2
FIO Models to Contractors
(Interim For-Information-Only)

Phase 3
FIO Models to Contractors
(Full Implementation For-Information-Only)

Phase 4
Models to Contractor as Legal Documents
(MALD)



Phase 1 – Quality Review

Models requested from participating Districts for quality review

- Workspace
- Modeling techniques
- Export of 3D model breaklines

Resources from DDP team

- QC Process and Checklist
- Training for DES Division staff
- Pilot Process and Checklist on FM 1977

	2024				2025				2026				
Implementation Steps	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	TBD
Develop Plan													
Develop & Deploy SOPs													
Develop & Deploy Technology													
Develop & Deploy Training													
Develop & Deploy Policy													
Phase 1 in effect													

Phase 2 – Models as FIO (interim)

Projects submit for contractor review

- To help contracting community to prepare for MALD
- Expedite the bidding process

Resources from DDP team

- QC Checklist
- Develop 3D Breakline Curation Process
- Template Point Naming Convention

Updated: January 2025

TxDOT Model Deliverable Plan

Discipline	Deliverable	Format (additional file types may be requested)	Initial Milestone (30%)	PBLR	Detailed Milestone (60%)	Final Milestone (90/95%)	Sealed Milestone (100%)	Ready To Let (RTL) *For-Information-Only*
GENERAL MODEL FILES	Right of Way Layout	DGN	•	•	•	•	•	
	Right of Way Annotation	DGN	•	•	•	•	•	
TRAFFIC CONTROL PLAN (TCP) MODEL FILES	TCP Layout	DGN			•	•	•	
	TCP Annotation	DGN			•	•	•	
	TCP Container	DGN			•	•	•	
	TCP 3D Model Breaklines	DGN			•	•	•	
SURVEY MODEL FILES	Aerial Imagery	DGN	•	•	•	•	•	
	Existing Container	DGN	•	•	•	•	•	
	Survey Topo	DGN	•	•	•	•	•	
	Existing Terrain	DGN/XML	•	•	•	•	•	•
ROADWAY MODEL FILES	Roadway Container	DGN	•	•	•	•	•	
	Horizontal and Vertical Alignment	DGN/XML	•	•	•	•	•	•
	Roadway Layout	DGN	•	•	•	•	•	
	Roadway Annotation	DGN	•	•	•	•	•	
	Roadway Corridor	DGN	•	•	•	•	•	•
	Roadway Proposed Surface	DGN/XML			As Requested	•	•	•
	Roadway 3D Model Breaklines	DGN/XML				•	•	•
	Removal Layout	DGN			•	•	•	
	Removal Annotation	DGN			•	•	•	
RETAINING/NOISE WALL (RW) MODEL FILES	RW Layout	DGN		•	•	•	•	
	RW Container	DGN		•	•	•	•	
	RW Annotation	DGN		•	•	•	•	
DRAINAGE MODEL FILES	Drainage Area Map	DGN	•	•	•	•	•	
	Drainage Layout	DGN		•	•	•	•	
	Drainage Container	DGN		•	•	•	•	
	Drainage Annotation	DGN		•	•	•	•	
UTILITY MODEL FILES	Existing Utility Layout	DGN			•	•	•	
	Proposed Utility Layout	DGN			•	•	•	

Phase 2 – Models as FIO (interim)

- Submit 3D Models as FIO this summer
  - See QC Checklist – Model Deliverable Plan for specific files to be delivered for FIO
- All projects that have earthwork/roadway models
- Discussing if these go on District FTP site or part of Final PS&E submittal

Updated: January 2025

TxDOT Model Deliverable Plan

Discipline	Deliverable	Format (additional file types may be requested)	Initial Milestone (30%)	PBLR	Detailed Milestone (60%)	Final Milestone (90/95%)	Sealed Milestone (100%)	Ready To Let (RTL) *For-Information-Only*
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	TCP Annotation	DGN			•	•	•	
	TCP Container	DGN			•	•	•	
	TCP 3D Model Breaklines	DGN			•	•	•	
SURVEY MODEL FILES	Aerial Imagery	DGN	•	•	•	•	•	
	Existing Container	DGN	•	•	•	•	•	
	Survey Topo	DGN	•	•	•	•	•	
	Existing Terrain	DGN/XML	•	•	•	•	•	•
ROADWAY MODEL FILES	Roadway Container	DGN	•	•	•	•	•	
	Horizontal and Vertical Alignment	DGN/XML	•	•	•	•	•	•
	Roadway Layout	DGN	•	•	•	•	•	
	Roadway Annotation	DGN	•	•	•	•	•	
	Roadway Corridor	DGN	•	•	•	•	•	•
	Roadway Proposed Surface	DGN/XML			As Requested	•	•	•
	Roadway 3D Model Breaklines	DGN/XML				•	•	•
	Removal Layout	DGN			•	•	•	
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RETAINING/NOISE WALL (RW) MODEL FILES	RW Layout	DGN		•	•	•	•	
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	RW Annotation	DGN		•	•	•	•	
DRAINAGE MODEL FILES	Drainage Area Map	DGN	•	•	•	•	•	
	Drainage Layout	DGN		•	•	•	•	
	Drainage Container	DGN		•	•	•	•	
	Drainage Annotation	DGN		•	•	•	•	
	Existing Utility Layout	DGN			•	•	•	
	Proposed Utility Layout	DGN			•	•	•	

Phase 3 – Models as FIO (full)

Building on Phase 2

- 3D review solution
- 3D software workflows
- Corridor ITL available

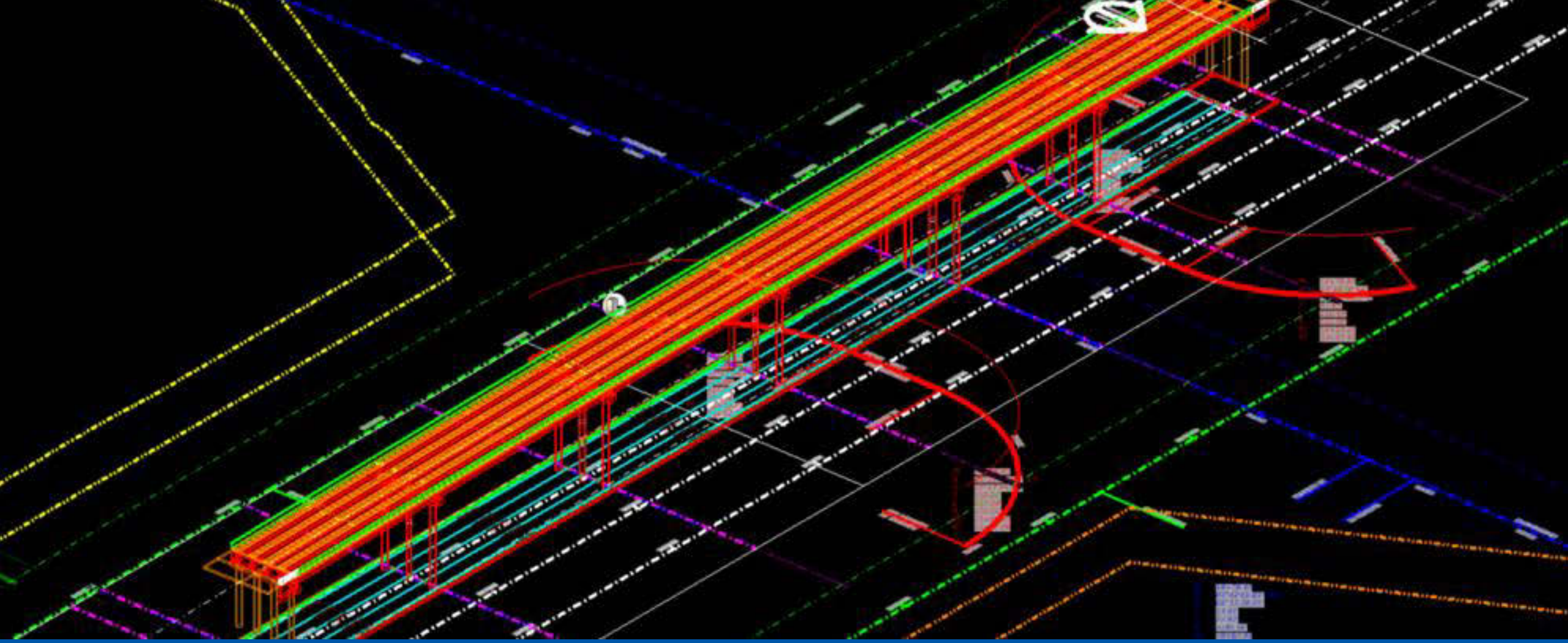
	2024				2025				2026				
Implementation Steps	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	TBD
Develop Plan													
Develop & Deploy SOPs													
Develop & Deploy Technology													
Develop & Deploy Training													
Develop & Deploy Policy													
Phase 3 in effect													

Phase 4 – MALD

- Develop Final MDS and LOD
- Develop additional 3D cells and feature types
- Develop MALD Use case requirements
- Implement MALD on all applicable projects

	2024				2025				2026				
Implementation Steps	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	TBD
Develop Plan													
Develop & Deploy SOPs													
Develop & Deploy Technology													
Develop & Deploy Training													
Develop & Deploy Policy													
Phase 4 in effect													

Questions



Digital Delivery at TxDOT: The Bridge Perspective

Courtney Holle, P.E., TxDOT Bridge Division

Texas Department of Transportation

April 16, 2025

Table of Contents

Overview

Bridge Division has been working to **test** software, **develop** training, and **prepare** resources for the transition to the model as the legal document.

Resources, Training and available policy documents can be found on the TxDOT 3D Bridge Modeling Website linked below.

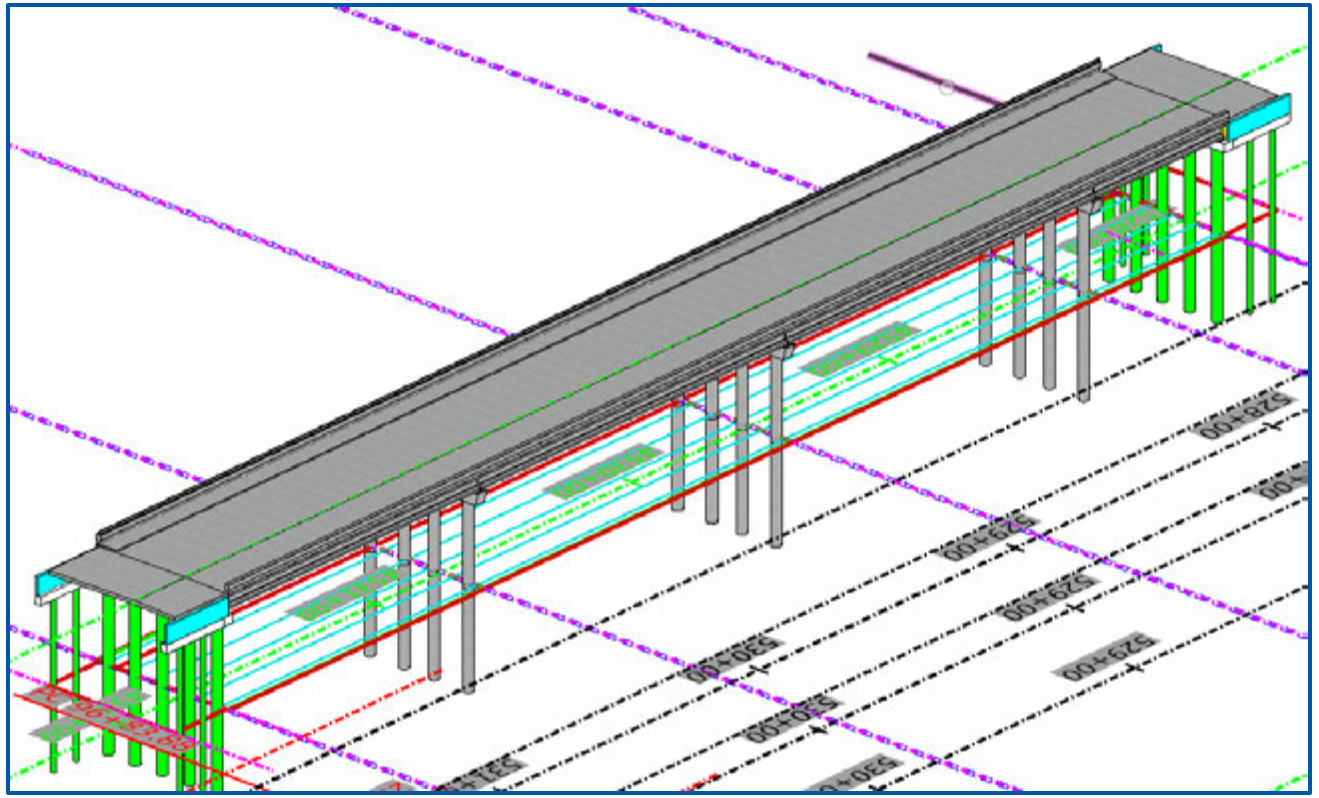
https://www.txdot.gov/business/resources/highway/bridge/3d-bridge-modeling.html

List of Policy Documents

- Expectations of Use Memo (Posted)
- OBM Drafting Workflow (Posted)
- Bridge Modeling Guidance (Internal Review)
- 3D Bridge Modeling Best Practices (Internal Review)

Expectations - 3D Bridge Modeling

- Deliverable
  - 3D intelligent bridge model
    - Slab
    - Beams
    - Abutments
    - Wingwalls
    - Cap
    - Columns
    - Foundations
    - Rails
  - Submittals
    - PBLR and 100% submittals
    - When ORD model is required
    - At district's discretion

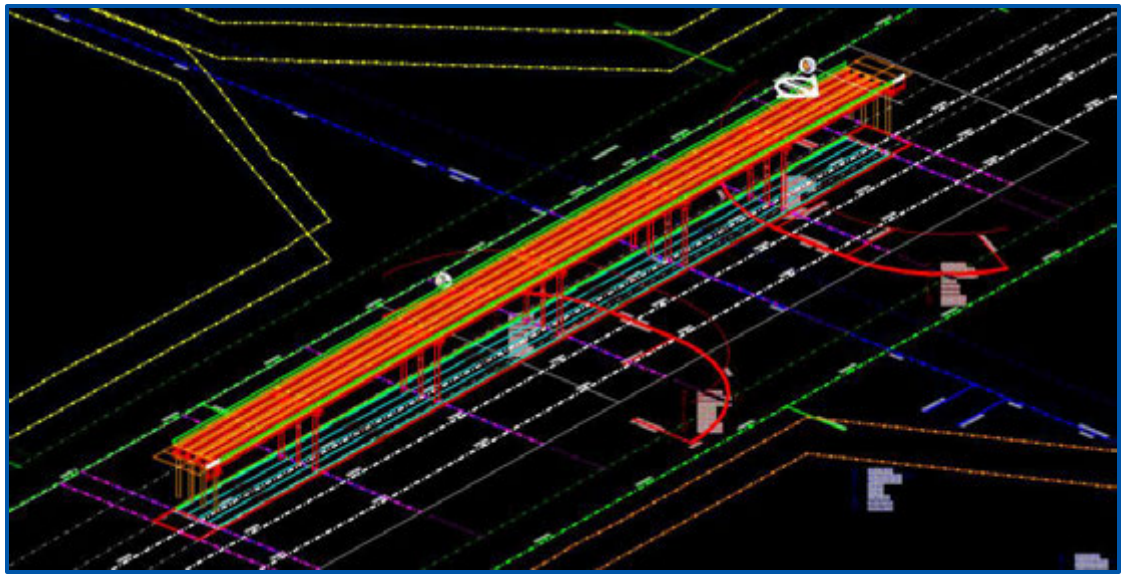


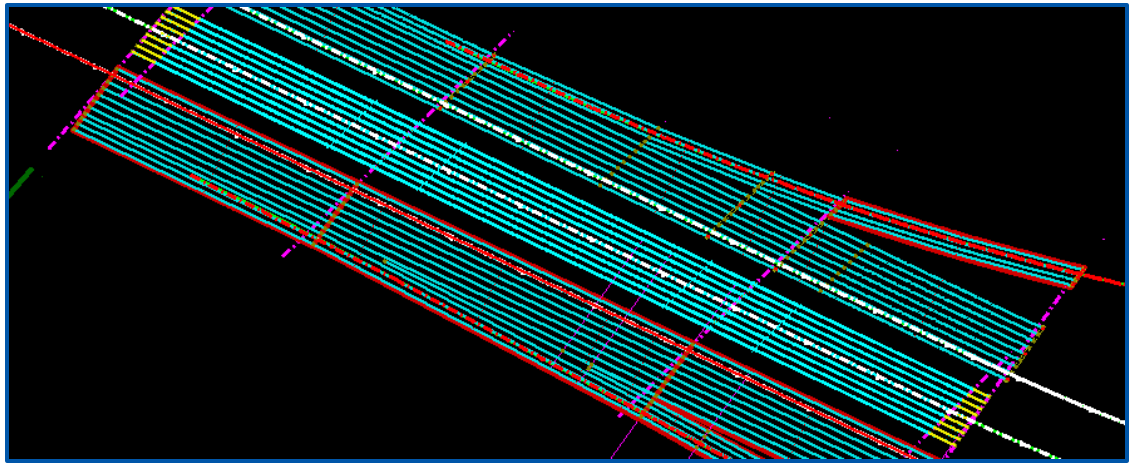
Expectations - Submittals

- 2D sheets for contract documents
- Model stored on Projectwise
- Designer needs to verify model quantities and geometry.
- Roadway and Bridge models in separate DGN files and submitted at same milestones.

3D Bridge Model in PBLR

- 3D Model Completeness Checklist
  - https://ftp.txdot.gov/pub/txdot/des/ord/3d-model-completion-checklist.pdf
- Include reference files in PBLR folder
- Verify OBM version
- Exception to 3D Bridge Models
  - Culverts
  - Repair/Maintenance
  - Rail Retrofits

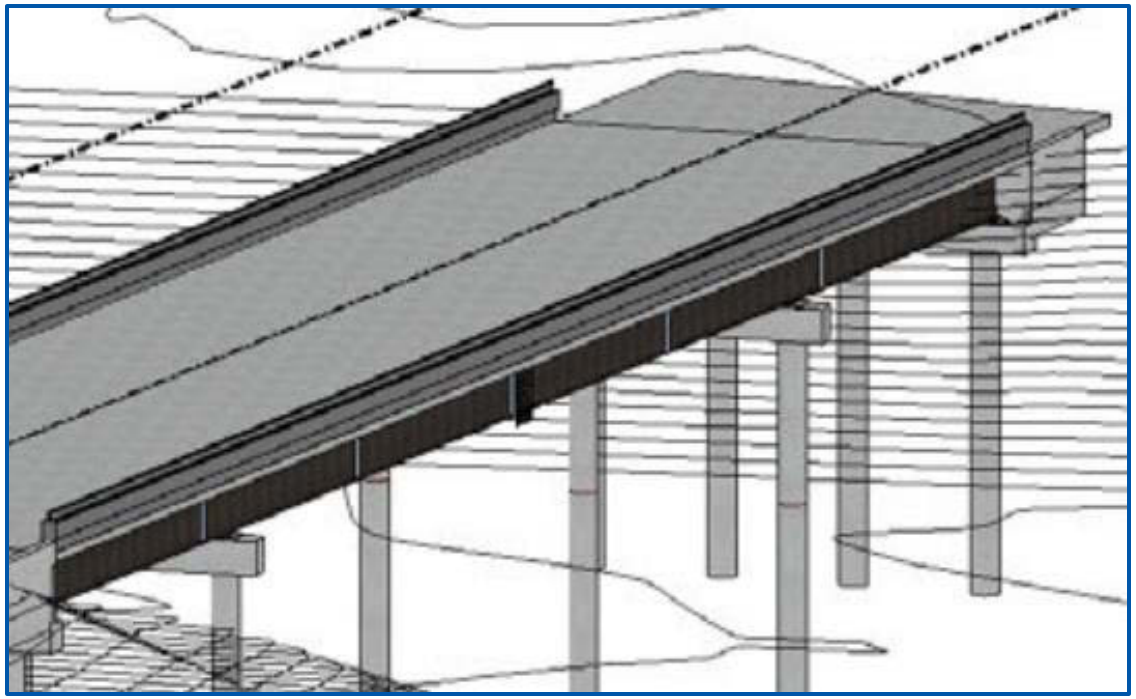




Resources

Below are the resources found on the TxDOT 3D Bridge Modeling Website.

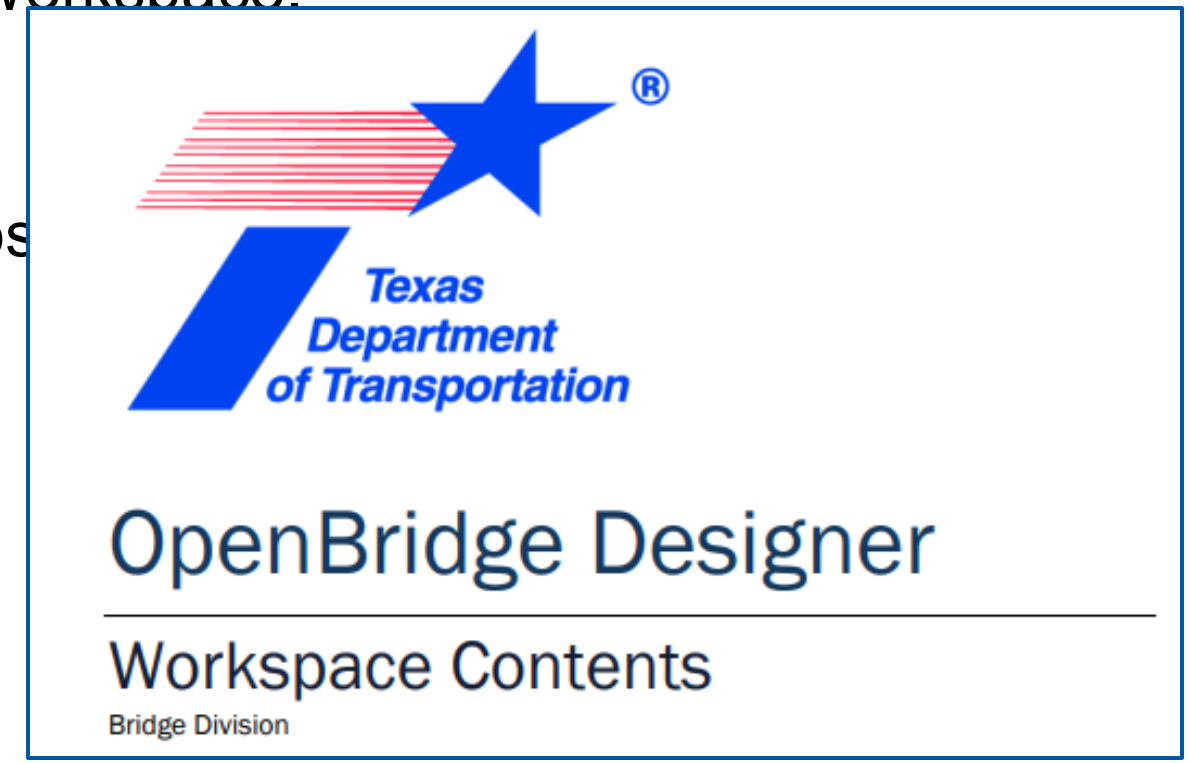
- OBM Workspace Files
- OBM Templates
- Training
- Frequently asked questions
- OBM Comparison Bearing Seat Elevations
- OBM Comparison Quantities



Workspace

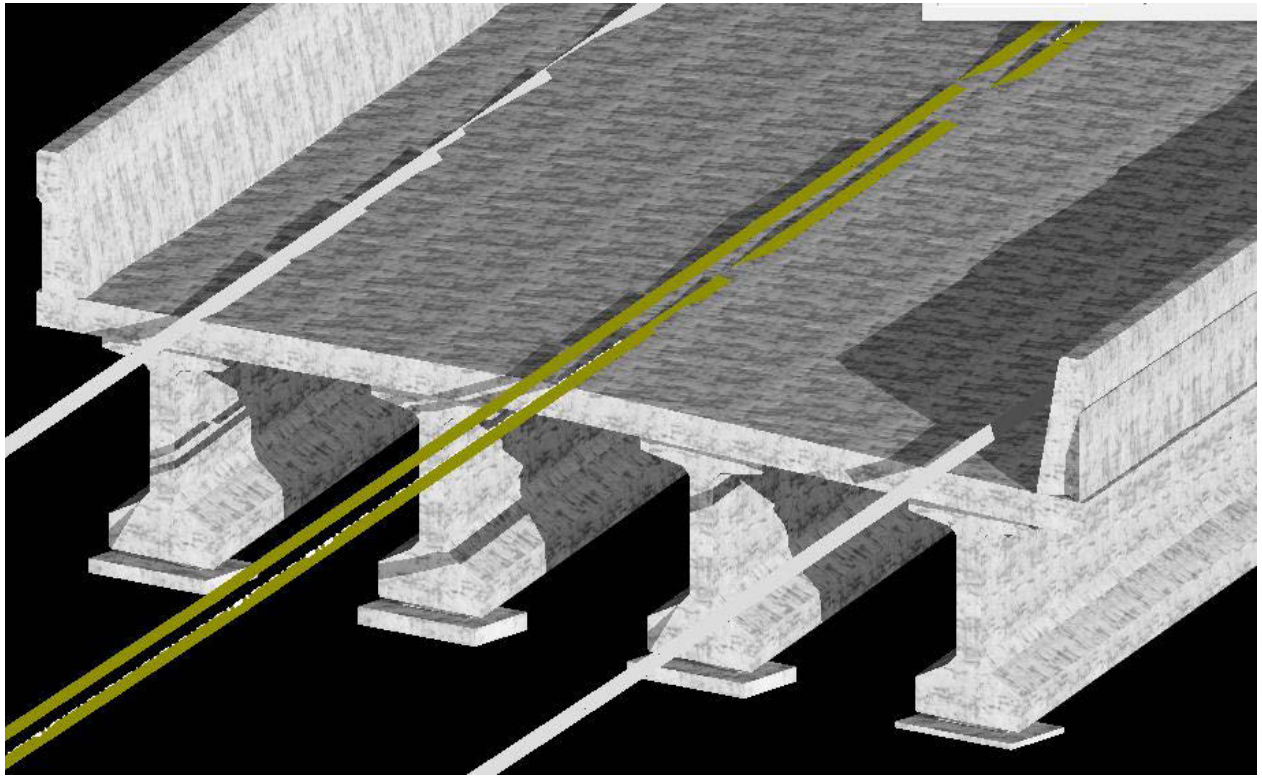
The intent of OpenBridge Designer Workspace Contents document is to describe the bridge specific contents of TxDOT's Workspace.

- Dimension and Text Styles
- Drawing Seeds and Annotation Groups
- Border Files and Sheet Seeds
- Seed Files
- Bridge Templates
- Additional Components



Templates

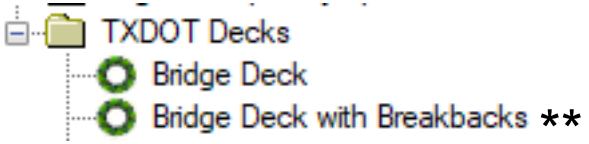
- We have been working with Bentley to develop our templates
- For now only Standard drawings are being used for templates
- Current templates
  - Deck
  - Railing
  - Beams
  - Bents
  - Abutments



Bridge showing Railing, Deck, Beams, Bearing Pads and Seats. Roadway and abutment turned off for clarity.

Templates: Decks

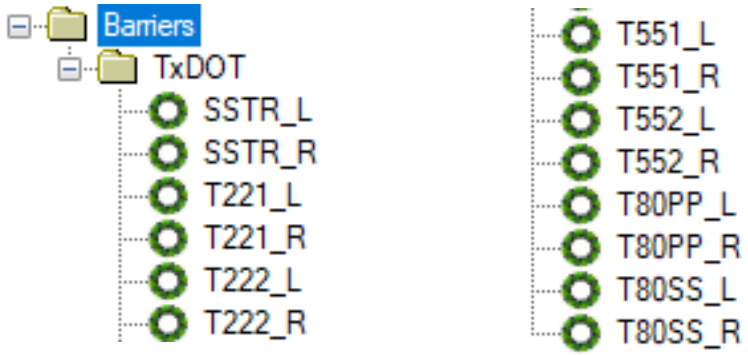
- Decks – This only sets the standard deck thickness (8.5”). Two templates are available.

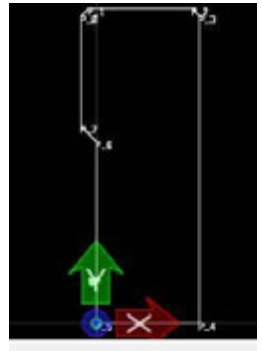


** The template contains the lines where the break back goes as a guide to use later in the modification of the solid to create the break back.

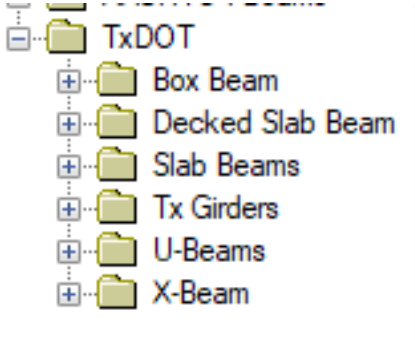
Templates: Rails and Beams

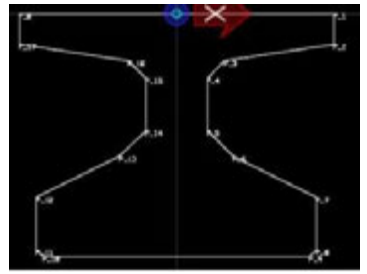
- Traffic Rails – OBM only supports solid elements so we only have the solid traffic rails as templates.





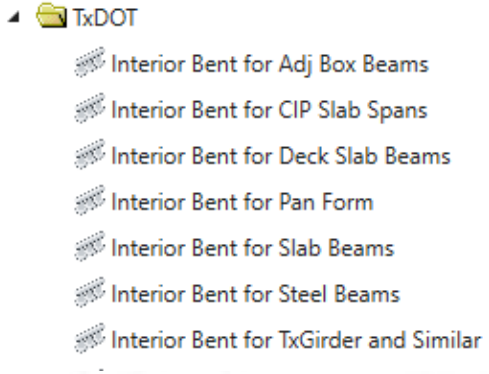
- All Standard Concrete Beams – Steel beams must be defined per case, rolled beams are available for selection.



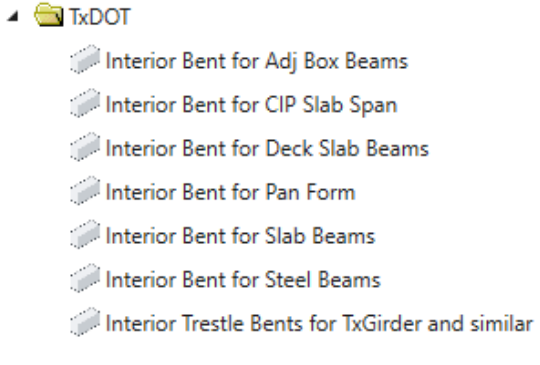


Templates: Interior Bents and Abutments

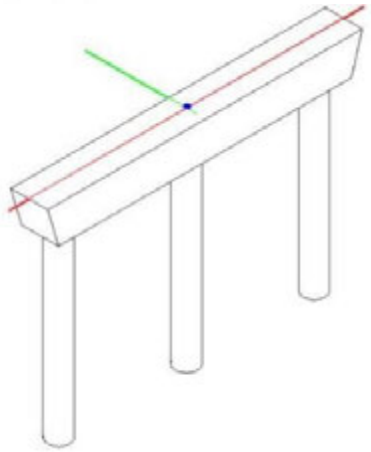
- Standard Interior Bents



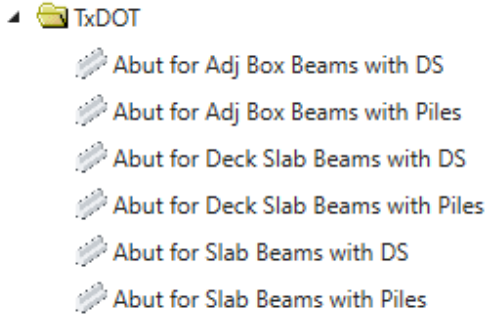
With Drilled Shafts

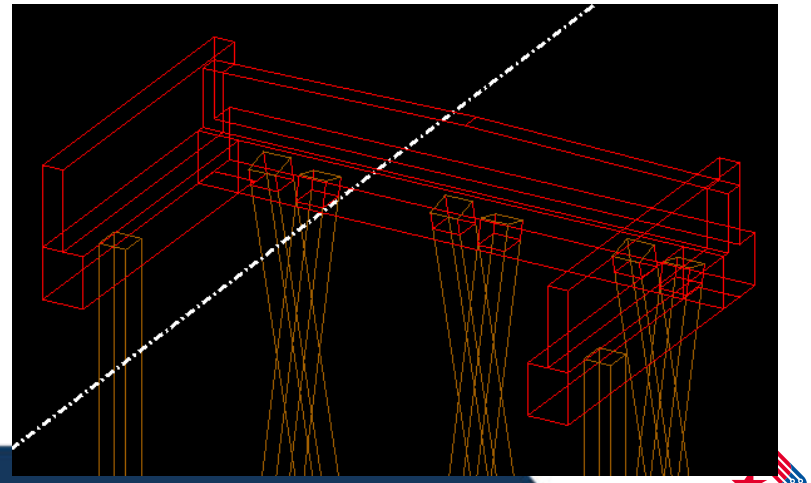


With Piles



- Standard Abutments – Only abutments that do not have break backs were created as templates.

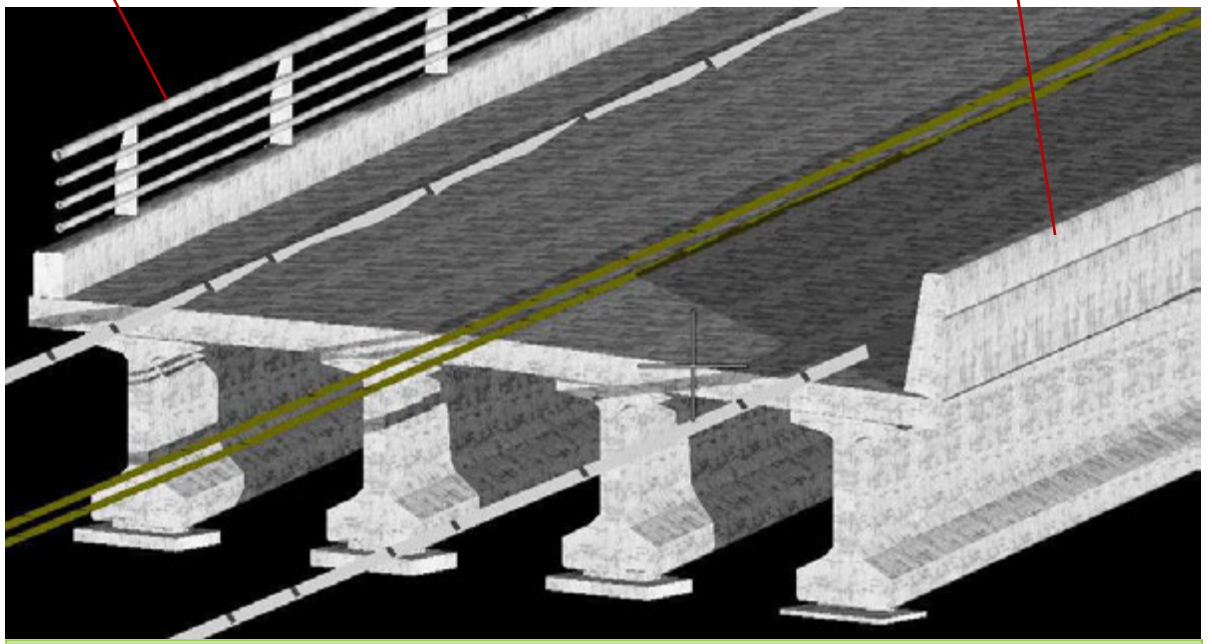




3D Line Styles

- The following rails have been created as 3D Line Styles

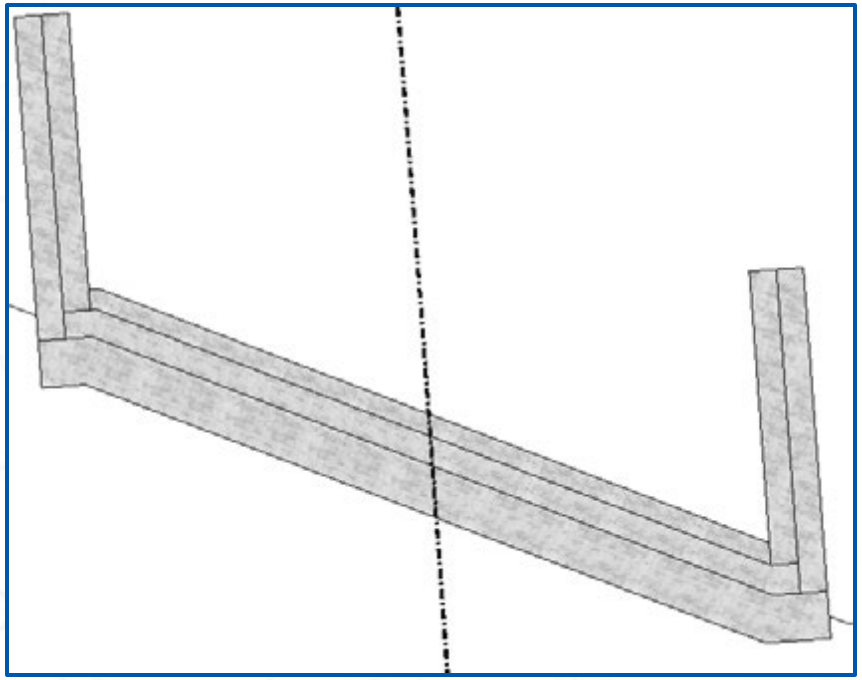
T1F	C1W
T1W	C2P
T2P	C221
T223	C223
T224	C402
T401	C411
T402	C412
T411	C66
T631	PR11
T631LS	PR22
T66	PR3
T80HT	



These are the rails created as 3D line styles. These do not reflect all rails used in TxDOT. Each rail was separated into Left and Right and their respective parapet line style.

Parametric Cells

- Parametric cells support cross slope, breakbacks, wingwalls, different number of columns/drilled shafts, and drilled shafts in wingwalls as applicable.



Abutment for TxGirders

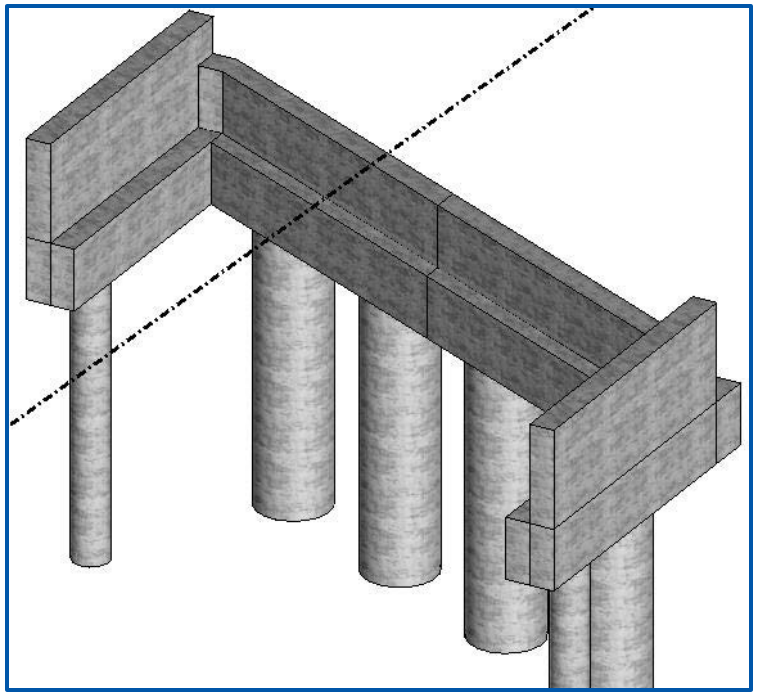
Abutment for X Beams

Abutment for U Beams

Abutment for Slab Beams

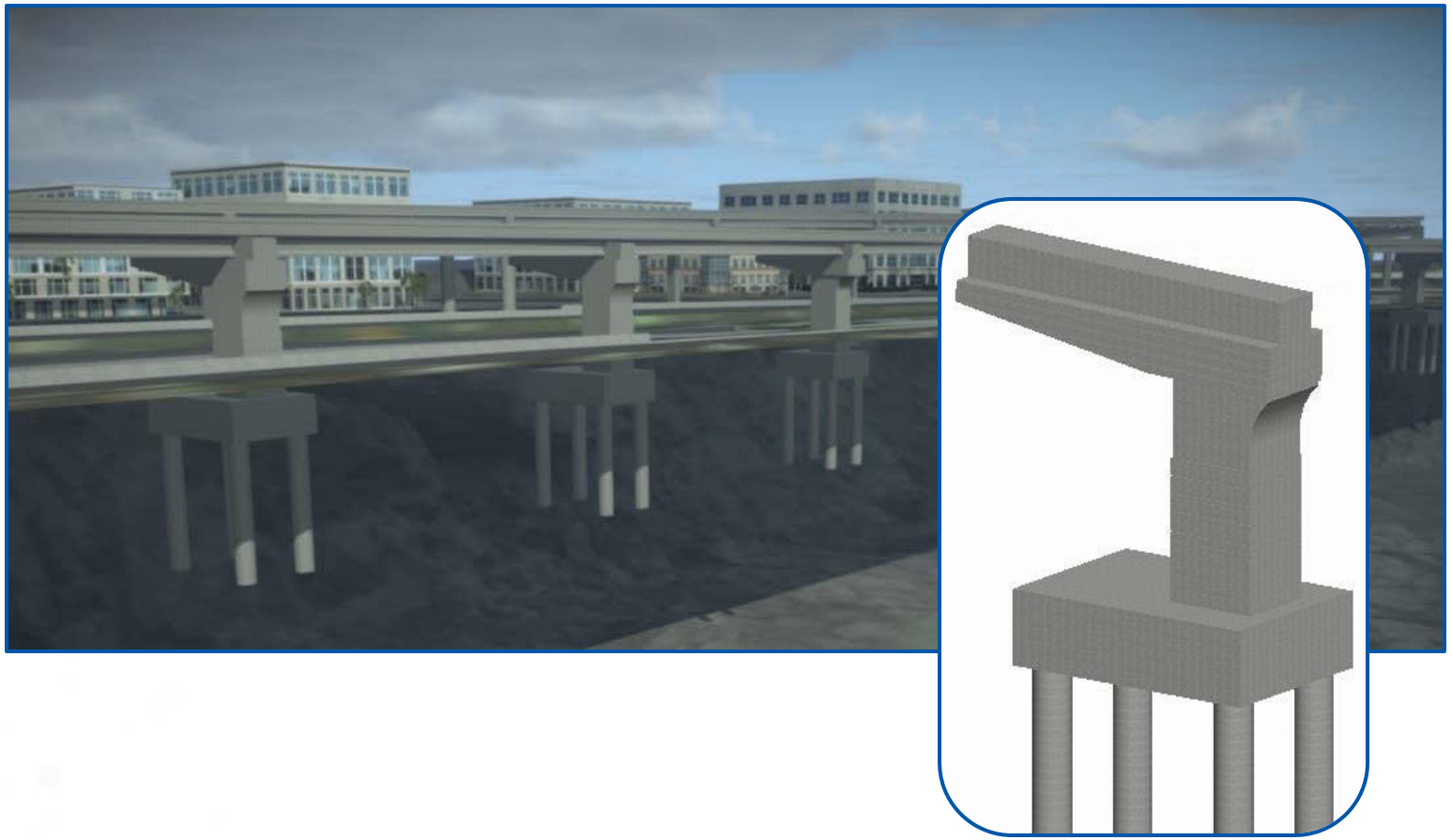
Abutment for CIP Slab Spans

Abutment for Steel Beams



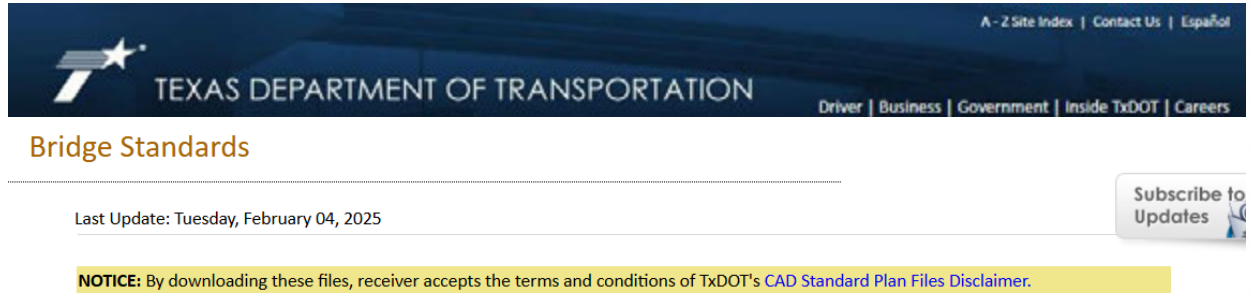
3D Solids – When Workspace Doesn't Have What You Need

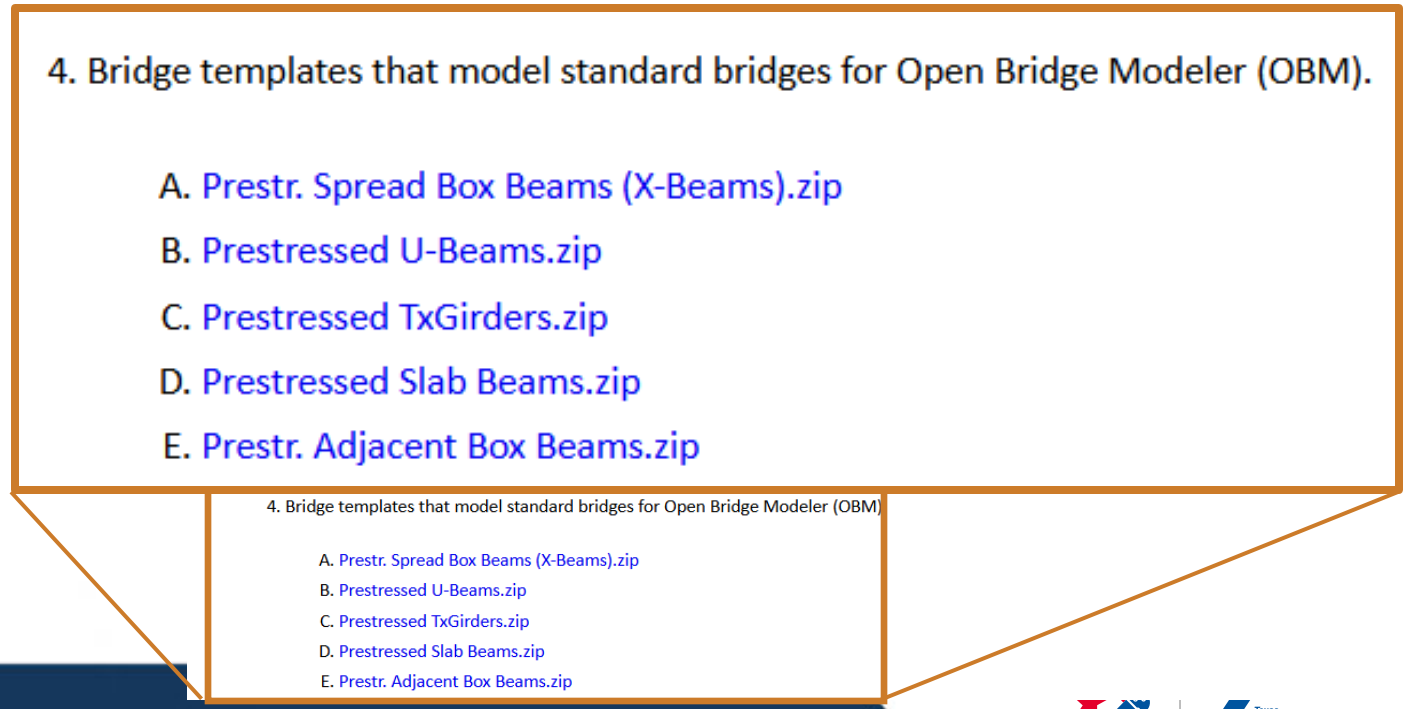
- When templates and parametric cells don't work…
- There are always 3D Microstation cells.
  - Drawback – no OBM intelligence attached to the element



Standard Bridge OBM Templates

- Prestressed Concrete I-Girders
  - 4 girders (24 ft rdwy width)
  - 5 girders (40 ft. rdwy width)
  - 6 girders (48 ft. rdwy width)
- Prestressed Concrete Slab and Box Beams
  - 24 ft, 28 ft, and 30 ft. rdwy widths

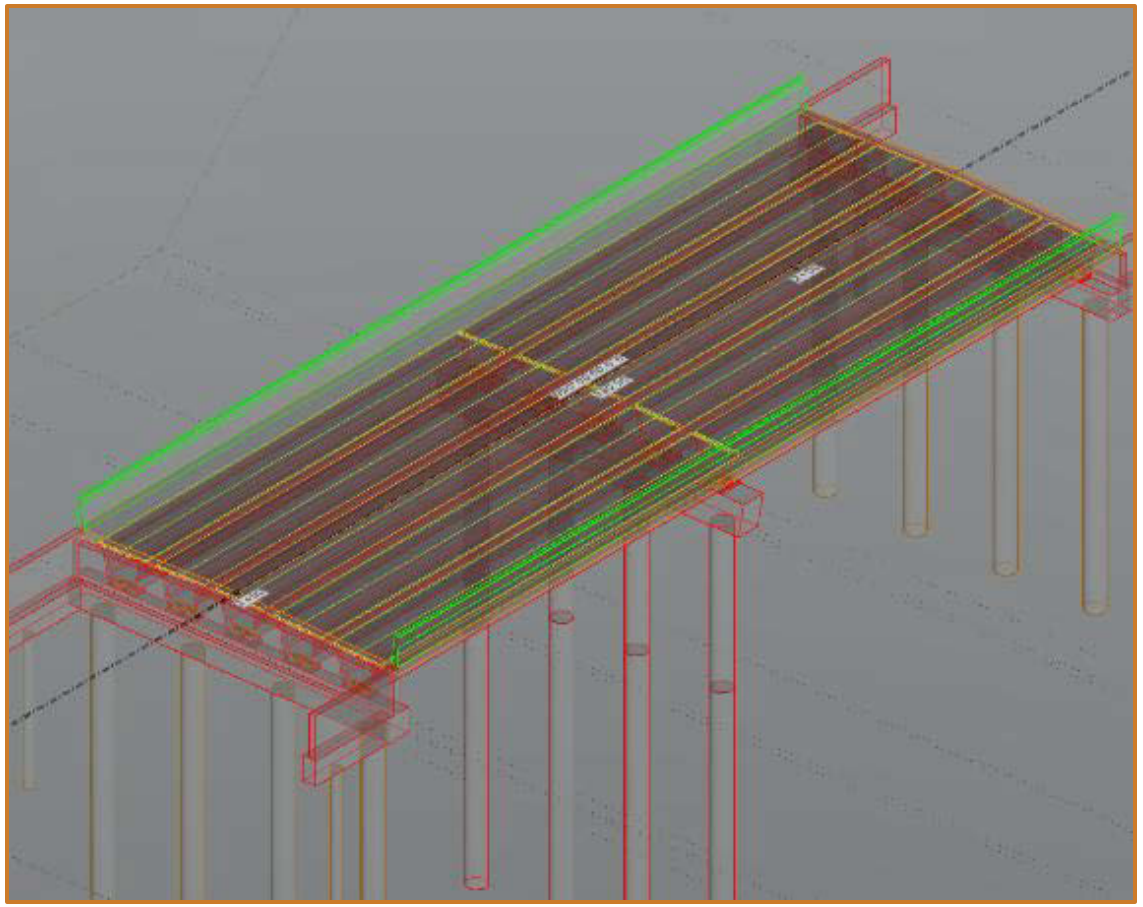




4. Bridge templates that model standard bridges for Open Bridge Modeler (OBM)
A. Prestr. Spread Box Beams (X-Beams).zip
B. Prestressed U-Beams.zip
C. Prestressed TxGirders.zip
D. Prestressed Slab Beams.zip
E. Prestr. Adjacent Box Beams.zip

Standard Bridge OBM Templates

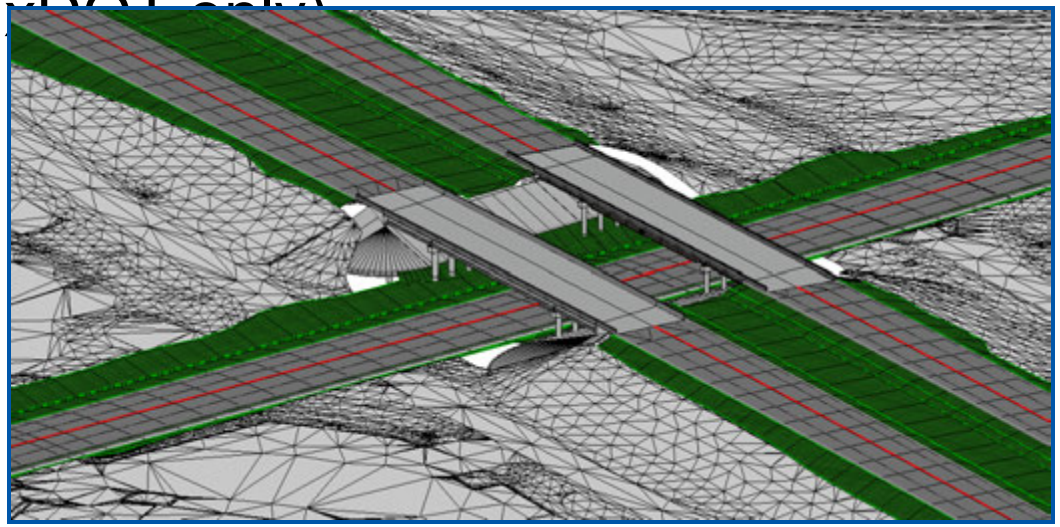
- Prestressed Concrete X-Beams
  - 4 girders (32 ft rdwy width)
  - 5 girders (38 ft. rdwy width)
  - 6 girders (44 ft. rdwy width)
- Prestressed Concrete U-Beams
  - 4 girders (40 ft rdwy width)
  - 5 girders (48 ft. rdwy width)



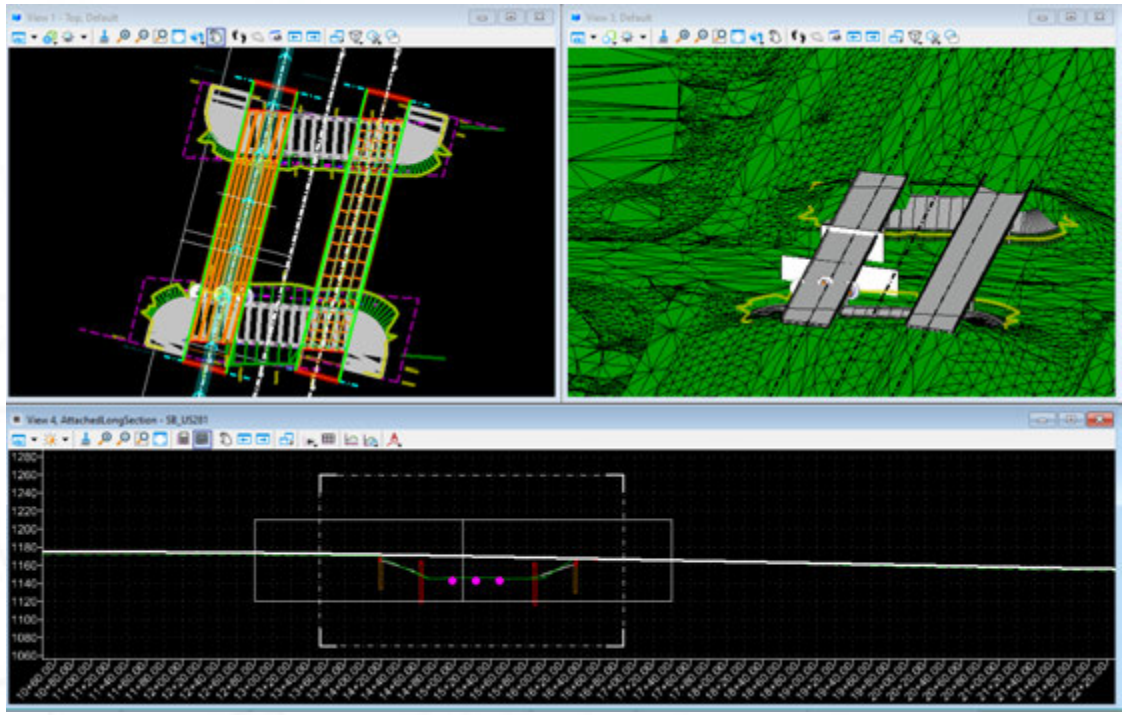
Training

TxDOT Bridge Division developed the OpenBridge Designer/Modeler Training Manual used in the BRG300 training and is offered as self paced, virtual instructor led (TxDOT only), or in person instructor led (TxDOT only)

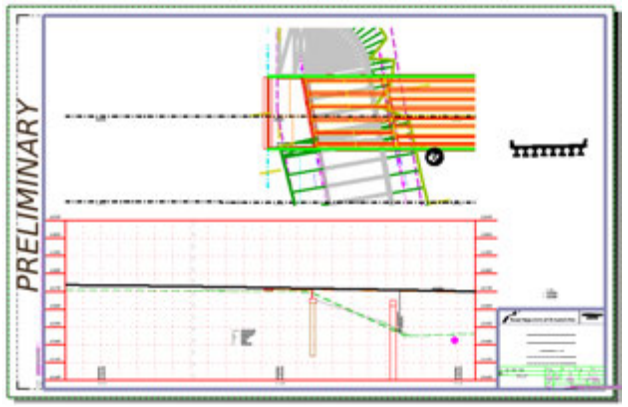
- File Creation/Opening
- Creating a Bridge Model with Precast Girders and Steel Girders
- Placing Riprap
- Generating Reports
- Creating and Manipulating Bridge Templates
- Sheet Creation



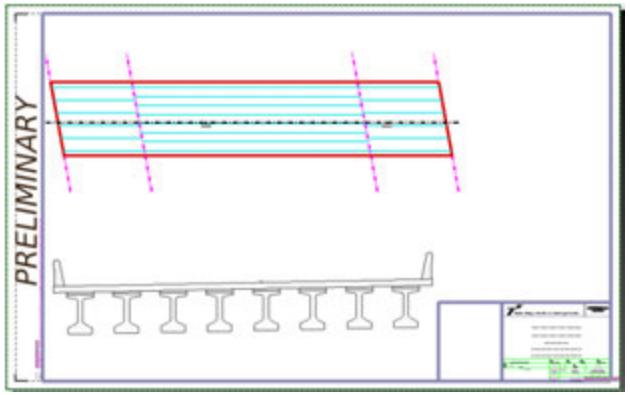
3D Bridge Models/2D Sheets



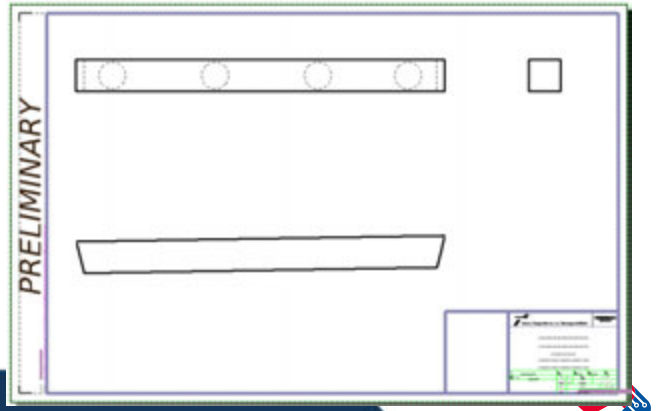
Updates to the Model get sent to the sheets.



Layout Sheets



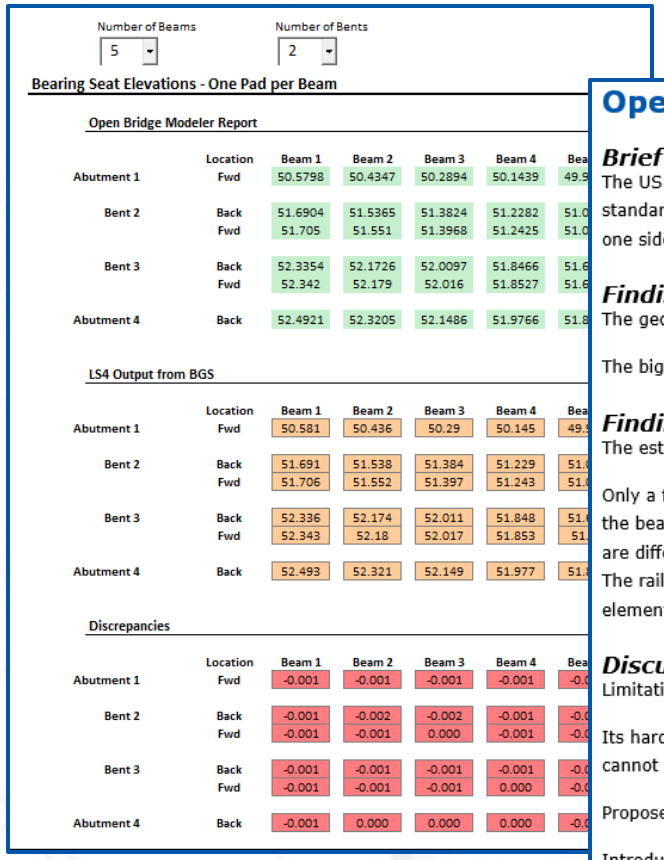
Superstructure Sheets



Substructure Sheets

A single container file can be used to reference in all Models, for plan production. (Ensure the Live nesting at the sheet level is set to at least 3, and 2 in the container file)

Comparison – Model vs. Traditional Methods



Number of Beams: 5 Number of Bents: 2

Bearing Seat Elevations - One Pad per Beam

Open Bridge Modeler Report

	Location	Beam 1	Beam 2	Beam 3	Beam 4	Bea
Abutment 1	Fwd	50.5798	50.4347	50.2894	50.1439	49.9
Bent 2	Back	51.6904	51.5365	51.3824	51.2282	51.0
	Fwd	51.705	51.551	51.3968	51.2425	51.0
Bent 3	Back	52.3354	52.1726	52.0097	51.8466	51.6
	Fwd	52.342	52.179	52.016	51.8527	51.6
Abutment 4	Back	52.4921	52.3205	52.1486	51.9766	51.8

LS4 Output from BGS

	Location	Beam 1	Beam 2	Beam 3	Beam 4	Bea
Abutment 1	Fwd	50.581	50.436	50.29	50.145	49.9
Bent 2	Back	51.691	51.538	51.384	51.229	51.0
	Fwd	51.706	51.552	51.397	51.243	51.0
Bent 3	Back	52.336	52.174	52.011	51.848	51.0
	Fwd	52.343	52.18	52.017	51.853	51.
Abutment 4	Back	52.493	52.321	52.149	51.977	51.8

Discrepancies

	Location	Beam 1	Beam 2	Beam 3	Beam 4	Bea
Abutment 1	Fwd	-0.001	-0.001	-0.001	-0.001	-0.0
Bent 2	Back	-0.001	-0.002	-0.002	-0.001	-0.0
	Fwd	-0.001	-0.001	0.000	-0.001	-0.0
Bent 3	Back	-0.001	-0.001	-0.001	-0.001	-0.0
	Fwd	-0.001	-0.001	-0.001	0.000	-0.0
Abutment 4	Back	-0.001	0.000	0.000	0.000	-0.0

Bearing Seats

OpenBridge Modeler Comparison Report

Brief Description of Bridges

The US 77 SBML Overpass at CR2340 bridge is a straight 15-degree skew bridge that is mostly standard. The abutments are the only non-standard component because there is a retaining wall on one side of each abutment.

Findings of Geometry Comparison

The geometry comparison showed the following:

The biggest difference between bearing seat elevations was 0.0016'.

Findings of Estimated Quantities Comparison

The estimated quantities comparison showed the following:

Only a few quantities are close to hand calculations. Some quantities with significant differences are the beams, bent footings, and rails. I have no idea why the beams are so different. The bent footings are different because 3 pile footings are not available in OBM, so I had to use 4 pile square footings. The rails are different because you can't extend the rail along wingwalls, so you must use line elements that don't appear in the quantities.

Discussion of Areas of Improvement for the Software

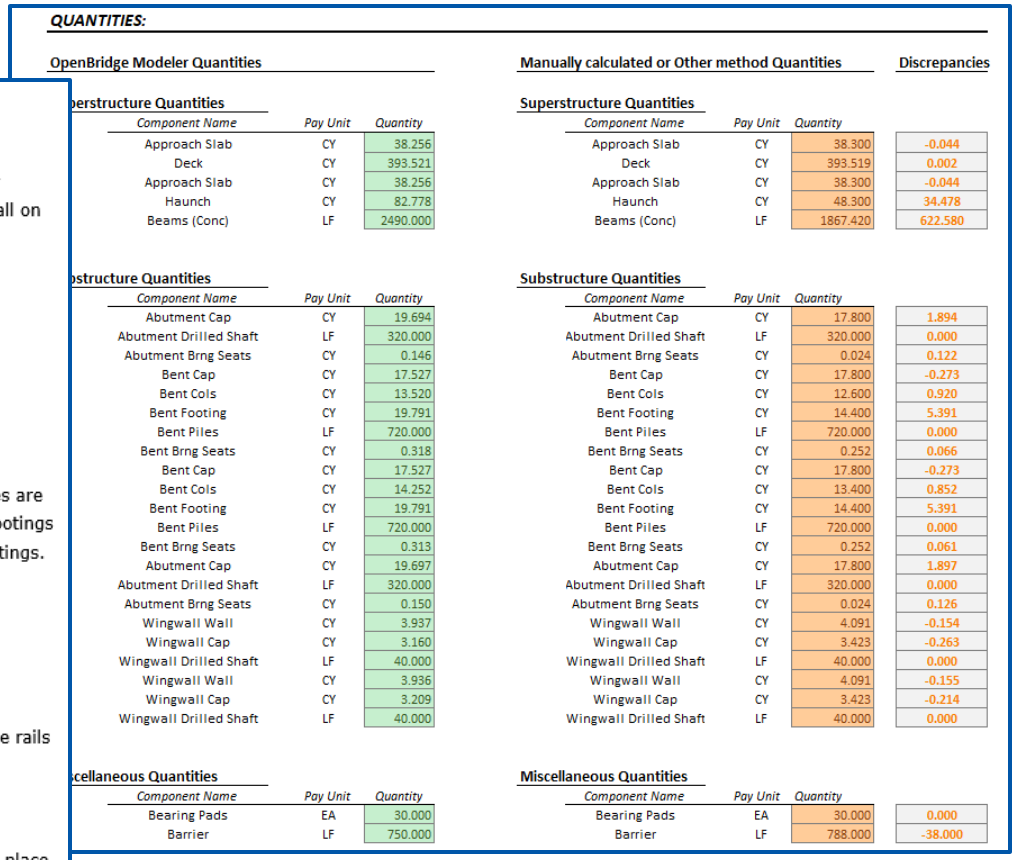
Limitations of OpenBridge Modeler experienced during this project are:

Its hard to accurately model abutments and wingwalls because they are separate elements. The rails cannot easily be extended over wingwalls. Not all of the standard footings are available.

Proposed enhancements for OpenBridge Modeler are:

Introduce an intuitive system to create abutments that include wingwalls rather than having to place the wingwalls as a separate element. Allow extending rails over wingwalls. Add all of the standard footings.

Report



QUANTITIES:

OpenBridge Modeler Quantities

perstructure Quantities

Component Name	Pay Unit	Quantity
Approach Slab	CY	38.256
Deck	CY	393.521
Approach Slab	CY	38.256
Haunch	CY	82.778
Beams (Conc)	LF	2490.000

bstructure Quantities

Component Name	Pay Unit	Quantity
Abutment Cap	CY	19.694
Abutment Drilled Shaft	LF	320.000
Abutment Brng Seats	CY	0.146
Bent Cap	CY	17.527
Bent Cols	CY	13.520
Bent Footing	CY	19.791
Bent Piles	LF	720.000
Bent Brng Seats	CY	0.318
Bent Cap	CY	17.527
Bent Cols	CY	14.252
Bent Footing	CY	19.791
Bent Piles	LF	720.000
Bent Brng Seats	CY	0.313
Abutment Cap	CY	19.697
Abutment Drilled Shaft	LF	320.000
Abutment Brng Seats	CY	0.150
Wingwall Wall	CY	3.937
Wingwall Cap	CY	3.160
Wingwall Drilled Shaft	LF	40.000
Wingwall Wall	CY	3.936
Wingwall Cap	CY	3.209
Wingwall Drilled Shaft	LF	40.000

cellaneous Quantities

Component Name	Pay Unit	Quantity
Bearing Pads	EA	30.000
Barrier	LF	750.000

Manually calculated or Other method Quantities

Superstructure Quantities

Component Name	Pay Unit	Quantity
Approach Slab	CY	38.300
Deck	CY	393.519
Approach Slab	CY	38.300
Haunch	CY	48.300
Beams (Conc)	LF	1867.420

Substructure Quantities

Component Name	Pay Unit	Quantity
Abutment Cap	CY	17.800
Abutment Drilled Shaft	LF	320.000
Abutment Brng Seats	CY	0.024
Bent Cap	CY	17.800
Bent Cols	CY	12.600
Bent Footing	CY	14.400
Bent Piles	LF	720.000
Bent Brng Seats	CY	0.252
Bent Cap	CY	17.800
Bent Cols	CY	13.400
Bent Footing	CY	14.400
Bent Piles	LF	720.000
Bent Brng Seats	CY	0.252
Abutment Cap	CY	17.800
Abutment Drilled Shaft	LF	320.000
Abutment Brng Seats	CY	0.024
Wingwall Wall	CY	4.091
Wingwall Cap	CY	3.423
Wingwall Drilled Shaft	LF	40.000
Wingwall Wall	CY	4.091
Wingwall Cap	CY	3.423
Wingwall Drilled Shaft	LF	40.000

Miscellaneous Quantities

Component Name	Pay Unit	Quantity
Bearing Pads	EA	30.000
Barrier	LF	788.000

Discrepancies

		-0.044
		0.002
		-0.044
		34.478
		622.580
		1.894
		0.000
		0.122
		-0.273
		0.920
		5.391
		0.000
		0.066
		-0.273
		0.852
		5.391
		0.000
		0.061
		1.897
		0.000
		0.126
		-0.154
		-0.263
		0.000
		-0.155
		-0.214
		0.000
		0.000
		-38.000

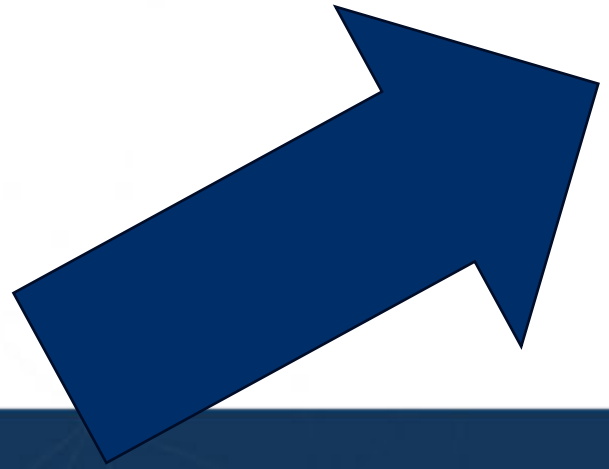
Quantities

OBM Requirements going forward

Currently, OBM models are required with PBLR and 100% submittals. Comparison reports are required at the 100% submittal.

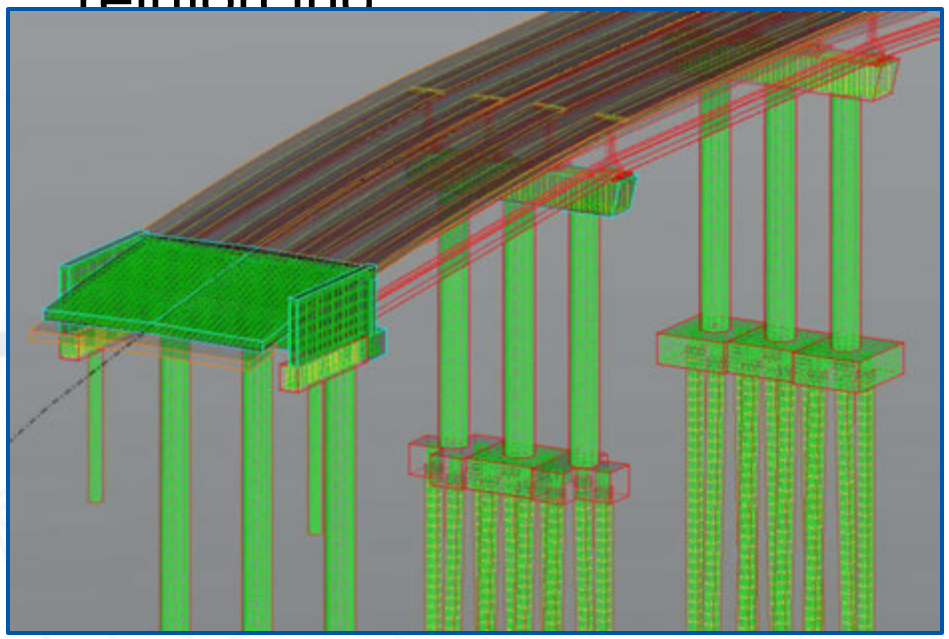
Once the policy documents are finalized, models are to be submitted with every design package as FIO.

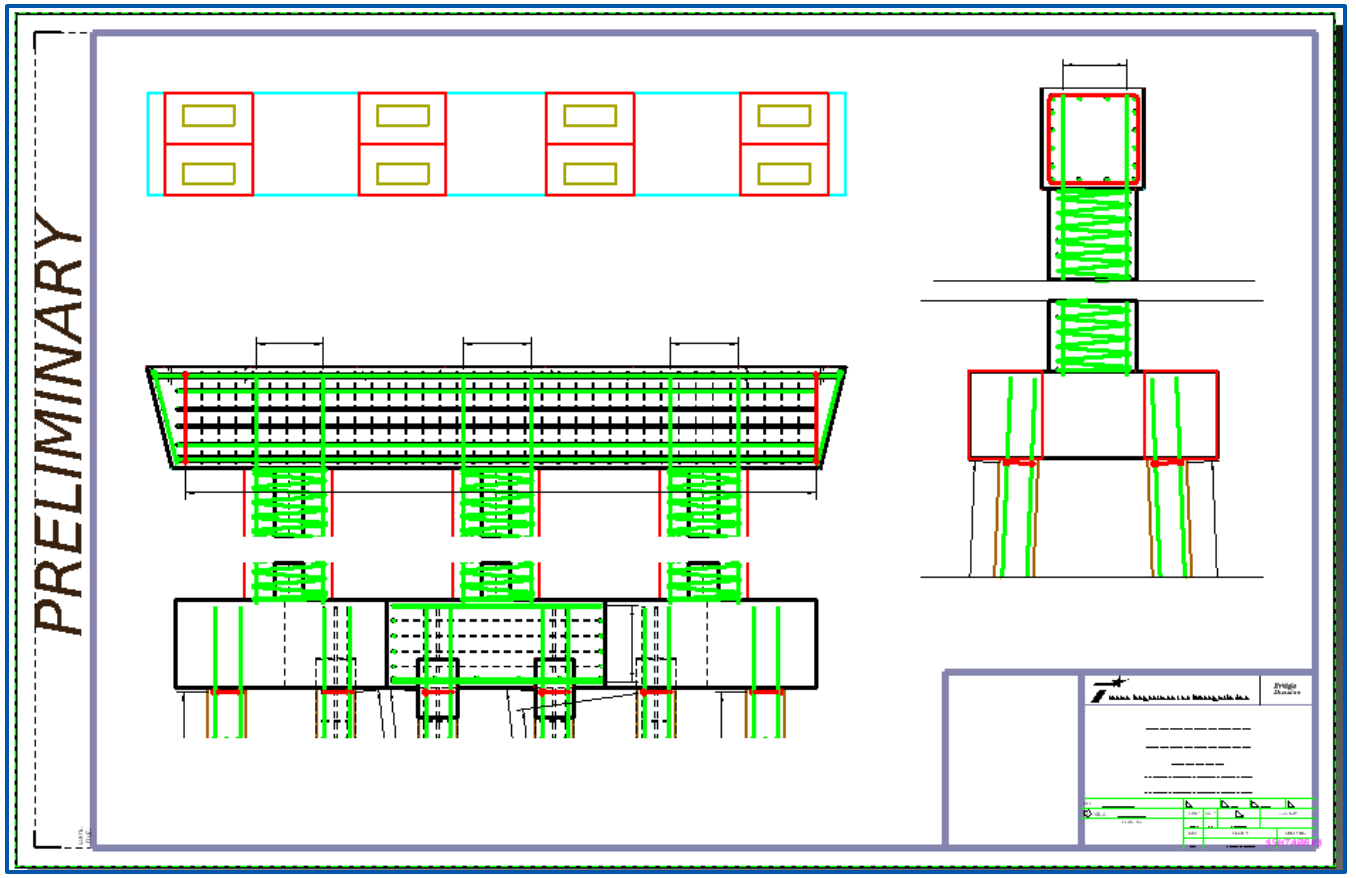
The model will eventually be used as the legal document (MALD). BRG will work with Design Division for this rollout and implementation.



3D Reinforcing

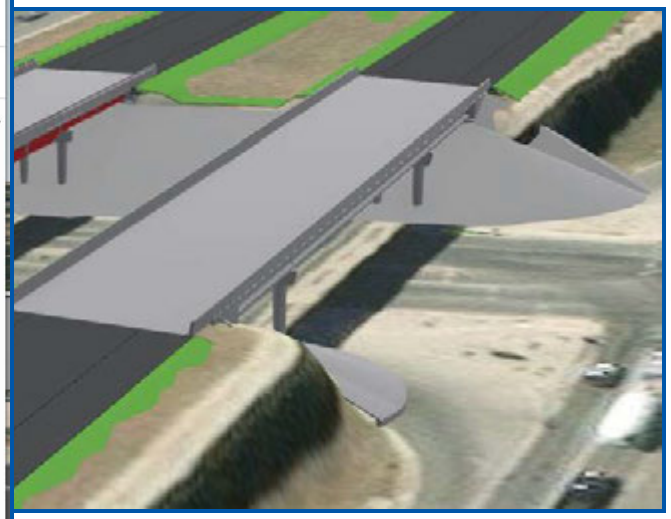
- The next stage is to develop training and start using ProConcrete to detail and label all possible reinforcing

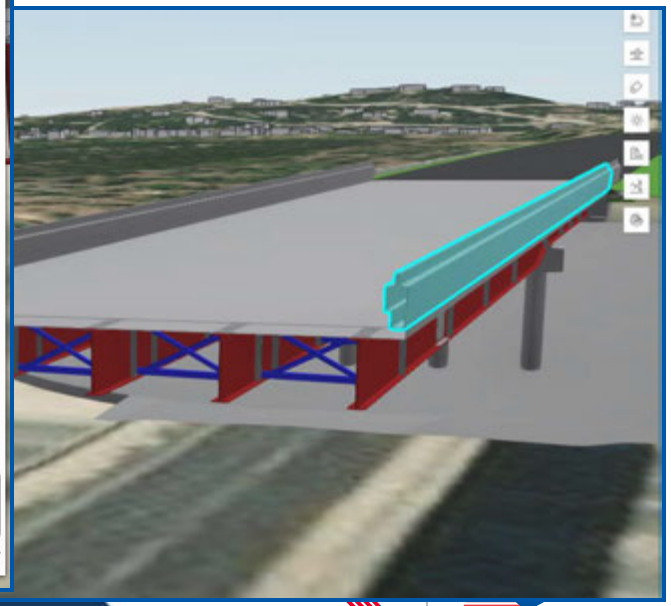




Pilot Projects

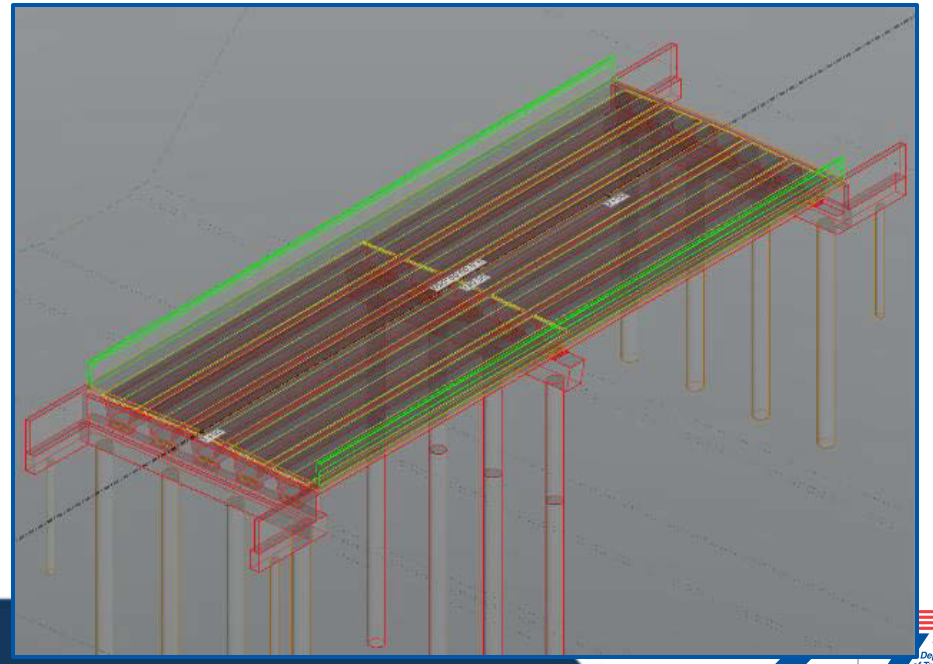
- Looking for Bridge Pilot Projects.
- Learn what is needed by fabricators and consultants.
- Determine if a Bridge 3D model can alone be the contract document or if we need to include supplemental sheets.
- How to handle one-off designs and standard bridges.





Bridge Digital Delivery

- Best Practices Document (Upcoming)
- Bridge pilot projects for digital delivery
- Send feedback to bridge3ddesign@txdot.gov
- Workspace – TxDOT templates
  - Wide Flange Girders (Need)
  - Inverted Tee caps (Need)
- Worksets/Project Templates – For project specific changes



TxDOT Bridge Resources Recap

- Got More Questions?
  - TxDOT.gov
    - https://www.txdot.gov/business/resources/highway/bridge/3d-bridge-modeling.html
  - Email
    - BRG_ Bridge3DDesign <bridge3ddesign@txdot.gov>

Resources

- Expectation of Use of OpenBridge Designer
- OpenBridge Designer Workspace Files
- OpenBridge Designer Workspace Readme
- OpenBridge Designer FAQs
- Bridge Standards - OBM Templates
- 3D Model Completion Checklist
- OBM Comparison Report Template
- OBM Comparison Bearing Seat Elevations
- OBM Comparison Quantities
- OBM Drafting Workflow

OpenBridge Modeler Training 2024

- TxDOT OBM Training Manual
- TxDOT OBM Training Videos
- BRG300-OBM.zip

bridge3ddesign@txdot.gov

Texas Department of Transportation

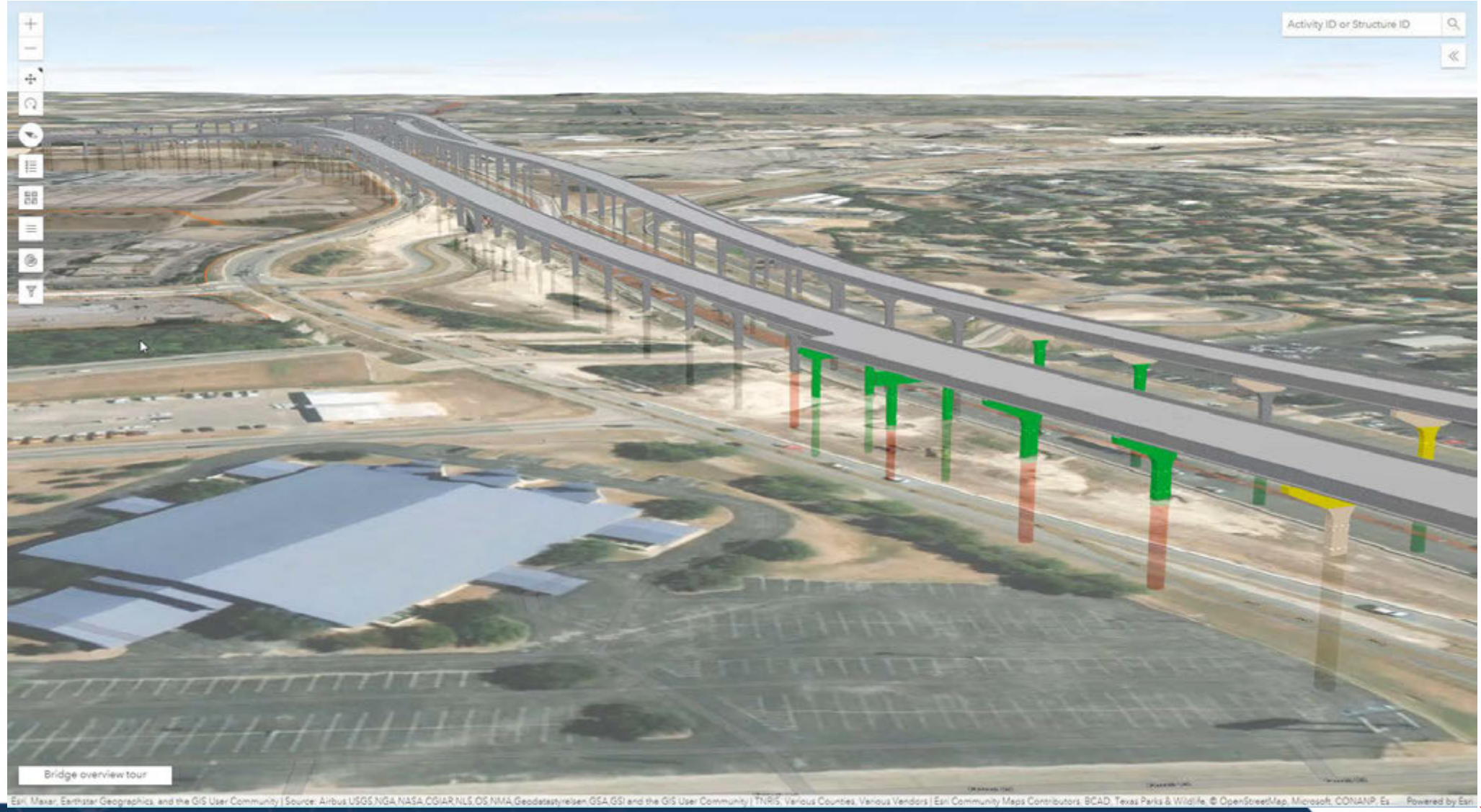
April 16, 2025

TxDOT's Digital Delivery
A Look Ahead

Texas Department of Transportation

Digital Delivery is More Than Just Design

Digital Delivery is Innovation



Digital Delivery from National Perspective

FHWA

- Building Information Modeling and Digital As-Built Buy In
- Oversees the Advanced Digital Construction Management System (ADCMS) and Accelerated Innovation Deployment (AID) grants
- Transportation Pooled Fund: Building Information Modeling (BIM) for Bridges (TPF-5(523)) and Infrastructure (TPF-5(480))

AASHTO

- Joint Technical Committee on Electronic Engineering Standards (JTCEES)
- Joint Subcommittee on Data Standardization (JStan)
- Adoption of Industry Foundation Classes (IFC) Schema

Transportation Research Board

- NCHRP 10-110A: Guide to Using 3D Models for Construction Inspection
- NCHRP 10-141: Guide for Digital Project Delivery: Integrating Design and Construction

Digital Delivery from State DOT Perspective

Digital Delivery Programs

Peer Exchange Opportunities

Transportation Pool Funds

Who is involved?

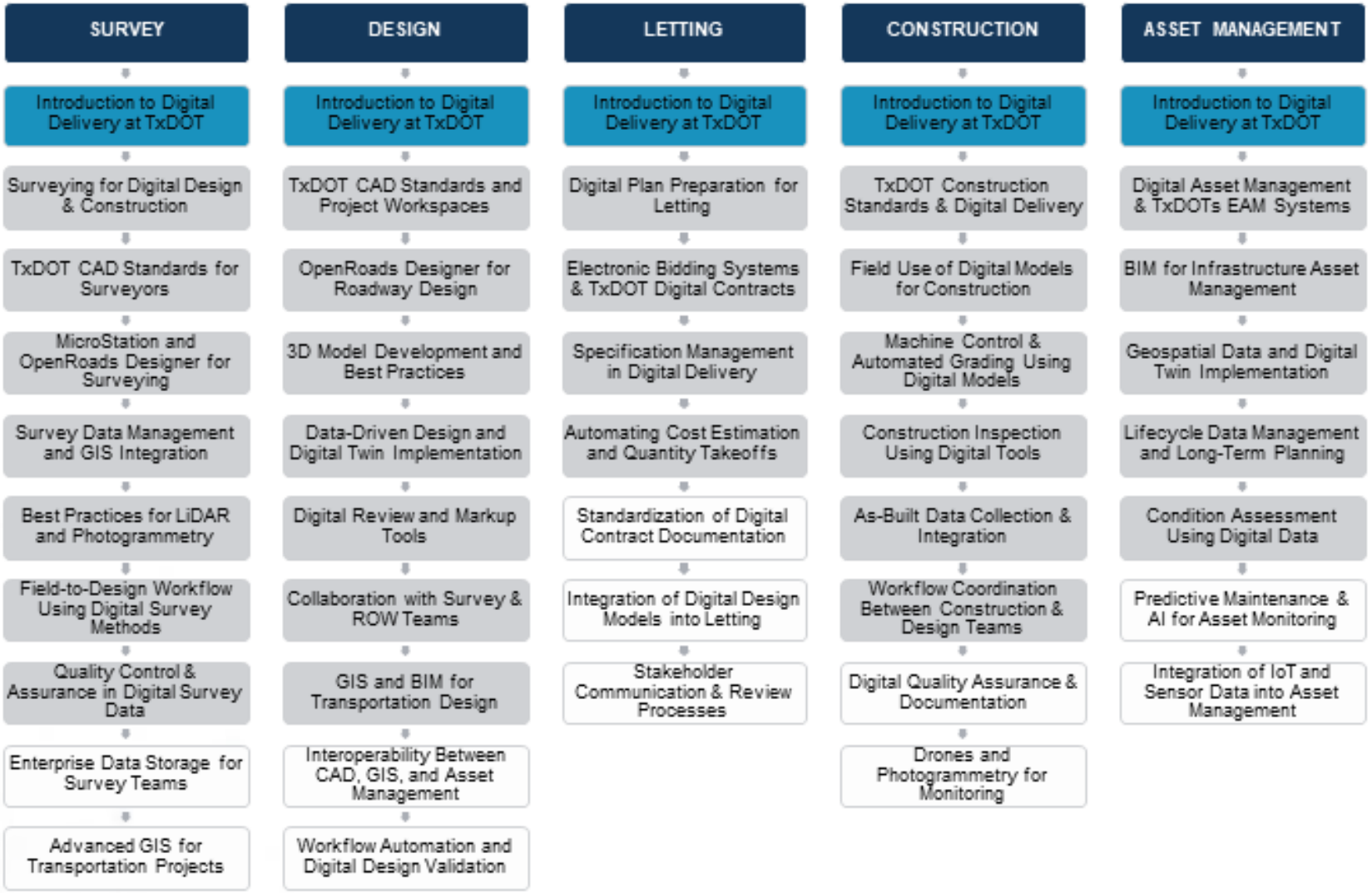
- Arizona Department of Transportation
- California Department of Transportation
- Connecticut Department of Transportation
- Florida Department of Transportation
- Georgia Department of Transportation
- Illinois Department of Transportation
- Indiana Department of Transportation
- Iowa Department of Transportation
- Kentucky Transportation Cabinet
- Michigan Department of Transportation
- Minnesota Department of Transportation
- Mississippi Department of Transportation
- Montana Department of Transportation
- Nebraska Department of Transportation
- New York State Department of Transportation
- North Carolina Department of Transportation
- Oklahoma Transportation
- Pennsylvania Department of Transportation
- South Carolina Department of Transportation
- Utah Department of Transportation
- Washington State Department of Transportation
- Wisconsin Department of Transportation

Digital Delivery for TxDOT

Training Efforts

Goal is to Align Training with Our Vision of DD Implementation

- Identified Path Segmentation
- Working with Workforce Development
- Piloting training classes
- University Outreach



Design

Goal is to Increase Accuracy While Reducing Produce Time and Cost

- Upgrading projects from Microstation V8i due to Windows 11 upgrade
- Development of a standard review processes and workflows
- Implementation of Model Development Standards and Level of Development

Construction

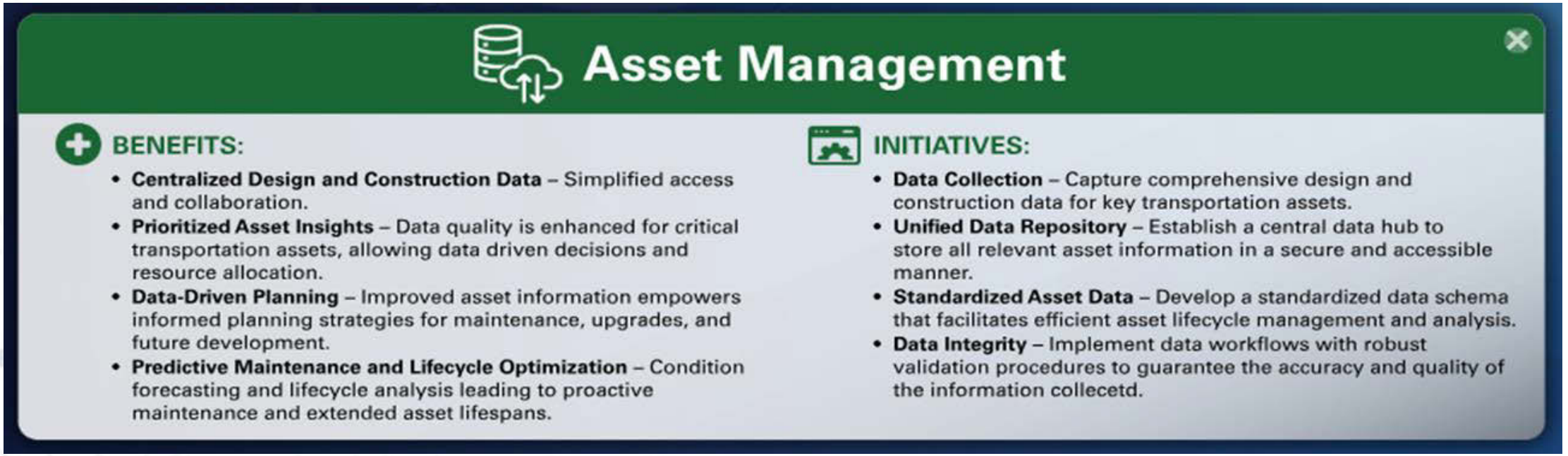
Goal is to Make Construction and Inspection More Efficient and Low Cost

- Using new methodology for bid codes and specifications
- Reduce time for project estimation
- Implement improved inspection processes and workflows
- Development of digital as-builts

Asset Management

Goal is to Have Accessible Data Attributes From CAD Elements for Asset Tracking

- Standardized Asset Data
- Multi-Divisional Collaboration of Data Collection
- Information Management Process



Change Management

Goal is Not Just Focus on the Process but the People

- Future Roadshows
- Partnerships with Community Colleges and Universities

Safety

Digital Delivery Reminders

- If you have questions, please reach out via email:

digital-delivery@txdot.gov

- Also stop by our updated website at https://www.txdot.gov/business/resources/digital-delivery.html or scan the QR code for more info!

Questions?


WELCOME to
HONDO TEXAS
THIS IS GOD'S COUNTRY
DONT
DRIVE THRU IT LIKE
HELL