

**Program Annually** 

Susana Ceballos, P.E. May 2024

## **Agenda**





History of TxDOT



The Mission: Why do we do this?



**Annual Budget** 



How do we deliver a billion-dollar annual program?



Austin Project Development Manual: Interim Reviews 30/60/90



Final ePS&E Submittal



Deliver on time on budget: Save lives



Questions?

May 2024

## **History of TxDOT - 120 years of Service**

1903

Texas formed
"Good Roads
Association
and charged
Vehicle
Registrations

1917

"Texas
Highway
Department"
signed into
law on April 4,
1917

1993

Last time gas tax was increased. Transportation improvements funded through gas tax 18.4 cents. \$100 Billion Dollars Over 10 years UTP

2024

TxDOT is safely moving goods and a population of more than 30 million across 80,000 miles of

<u>state-</u> <u>maintained</u> roadways.















1916

Federal Road Act of 1916: Requires each state to create a Highway Agency to receive Federal Funds, granting financial aid for highway construction and maintenance.

1956

Federal Aid

<u>Highway Act</u>

<u>Dedicated</u>

<u>funds</u> via

Highway Trust

Fund

2014 – Proposition 1

Funding was approved by voters by 80% of voters.

2015-Proposition 7

Funding was approved by 83% of voters.

## The Mission: Why we do this?



## Target Goals for the next 10 years UTP

Deliver the right projects.
On time and on budget.



## Governor Abbott, TxDOT Announce Record \$142 Billion Transportation Investment

August 17, 2023 | Austin, Texas | Press Release

Governor Greg Abbott today announced a record \$142 billion in total investment for Texas' transportation infrastructure. The record investment includes the unanimous adoption of the \$100 billion 10-year statewide roadway construction plan with the Texas Department of Transportation (TxDOT) for transportation projects to enhance safety, improve congestion and connectivity, and preserve Texas roadways. This is a \$25 billion increase in total investment from the previous year.

## The Mission: Why we do this?



#### Forecasted Letting 2014

Texas Department of Transportation Total Project Awards September 2014 Forecast

#### Letting Program

Funding Source	FY 2012 Actual	FY 2013 Actual	FY 2014 Actual	FY 2015	Forecast	FY 2017	FY 2018 Forecast	FOREGAN	Forecast	Fy 2021 Forecast	Fy 2022 Forecast	FY 2023 Forecast	FY 2024 Forecasi	FY 2025 Forecast
State Highway Fund	2,197,670,000	3,454,460,153		5,480,590,907					2,690,100,000				I - I - I - I - I - I - I - I - I -	2,949,137,994
Texas Mobility Fund	36,820,000	108,728,263	112,069,168	574,900,632	253,860,000	85,000,000			2,500,000					
Proposition 14	107,930,000	379,208,302	86,787,644	145,142,356		40,000,000			3.9			-	(80)	- 2
Proposition 12	781,160,000	760,900,733	459,725,635	76,284,365				4			- 0			- 90
SH 121	170.170.000	72,904,583	258,145,624	263,664,376	26.170.000	35,320,000	21,540,000		500,000	100		32.000,000	1.000.000	
SH 130 (Seg. 5 & ft)			6,000,000	178,235,000		29,400,000		4			4			
SH 161		22,500,261	11,125,520	22,954,480	9,560,000	100000				19	-			41
Federal Economic Stimulus (ARRA)	90							-		7.6	-	- 4	4	2.5
Proposition 1	- 2	- 1	- 2	1,569,480,000	-2.		-	-	19	-	-	-		_
Total Letting	3.293,770,000	4.798.702.385	4.398.055.605	8.511.292.516	3.385.730.000	2.899.680.000	2,748,790,000	2.661.329.000	2,696,100,000	2.716.140.000	2.706.210.010	2.768.429.000	2.714.210.000	2.949 137,994

2014 – Proposition 1 Funding was approved by voters by 80% of voters Forecasted Letting 2023

Texas Department of Transportation Total Project Awards May 2023 Cash Forecast

Letting Program

2015- Proposition 7 Funding was approved by 83% of voters.

Fu	ndi	na	So	urce
		**24	~~	41.00

FY 2021 Actual	FY 2022 Actual	FY 2023 Forecast
3,922,137,319	5,008,097,211	5,505,412,895
9,022,132	8,593,775	34,429,111
11,917,728		925,000
864,695	S±3	8
-	6,000,000	37,650,015
3,183,129	13,885,000	1,722,956,063
2,728,267,722	2,740,630,050	3,715,308,967

7,777,206,036

11,016,682,052

	FY 2024 Forecast	FY 2025 Forecast
3,60	0,628,208	4,344,107,974
	5,600,254	Handa Martin Salahir
	4,952,389	79
	5	127
14	1,998,375	
3,26	1,765,343	2,228,956,000
4,68	33,280,103	4,653,751,487
11,70	8,224,672	11,226,815,461

Austin District May 2024

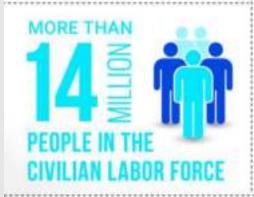
6,675,392,725

## The Mission: Why we do this? Texas Economy











26 COMMERCIAL

16 SEA PORTS

33 FOREIGN

46 FREIGHT

624 MILES OF COASTLINE

NO PERSONAL OR CORPORATE INCOME TAX



血大連

TEXAS IS THE LARGEST ENERGY-PRODUCING STATE IN THE NATION

TEXAS IS THE LEADING
DESTINATION FOR COMPANIES
RELOCATING FROM OTHER STATES



90%

GRADUATION RATE

TEXAS' HIGH SCHOOL GRADUATION RATE IS AMONG THE TOP 5 HIGHEST IN THE NATION, WITH A 90% COMPLETION RATE TEXAS LED THE NATION IN HIGH TECH EXPORTS FOR THE 9TH CONSECUTIVE YEAR



\$50B

A LEADING TO JOBS CREATOR

694,400 JOBS

THE LONE STAR STATE IS HOME TO

49 FORTUNE 500 COMPANY HOS



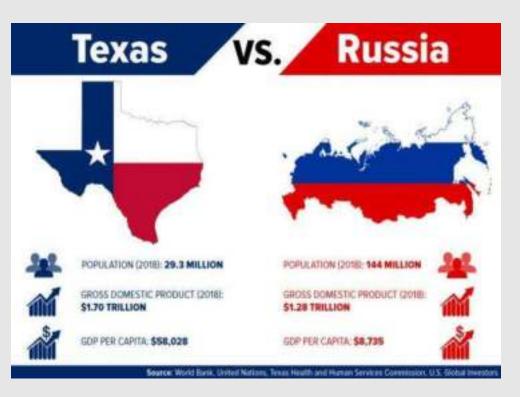
Texas Economic Development & Tourism, Office of the Governor | P.O. Box 12428 | Austin, TX 78711 512.936.0100 | gov.texas.gov/business | ○○○○ TexasEconDev

Revised February 2022

## The Mission: Why we do this? Texas Economy







## The Mission: Why we do this? Texas Economy



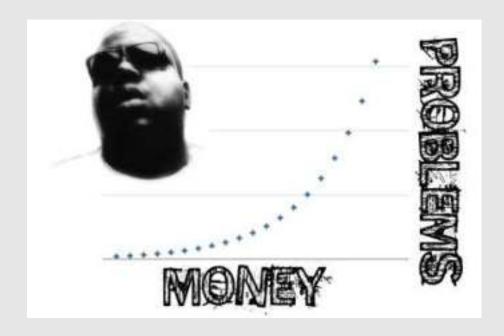


San Antonio, Austin, Dallas-Fort Worth and Houston rank among the top 10 most populous cities. 66% (20 M) of ALL Texans live in these metro areas.



## **Annual Budget: How do we deliver a Billion Dollar Annual Program?**









## **Annual Budget: FY 2024 Statewide vs Metros – 38% of annual budget**





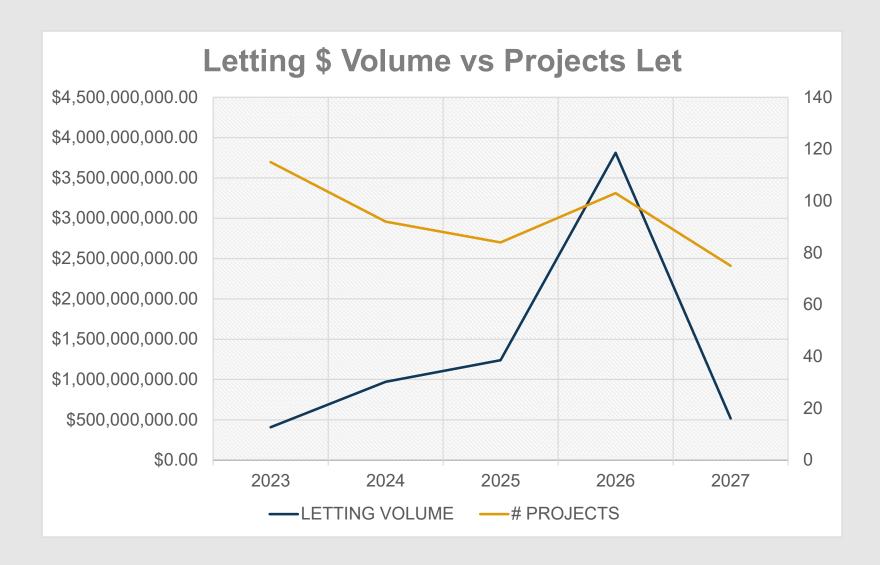


Metro (AUS, DAL, SAT, HOU, FTW) District Letting Volume - 38 %



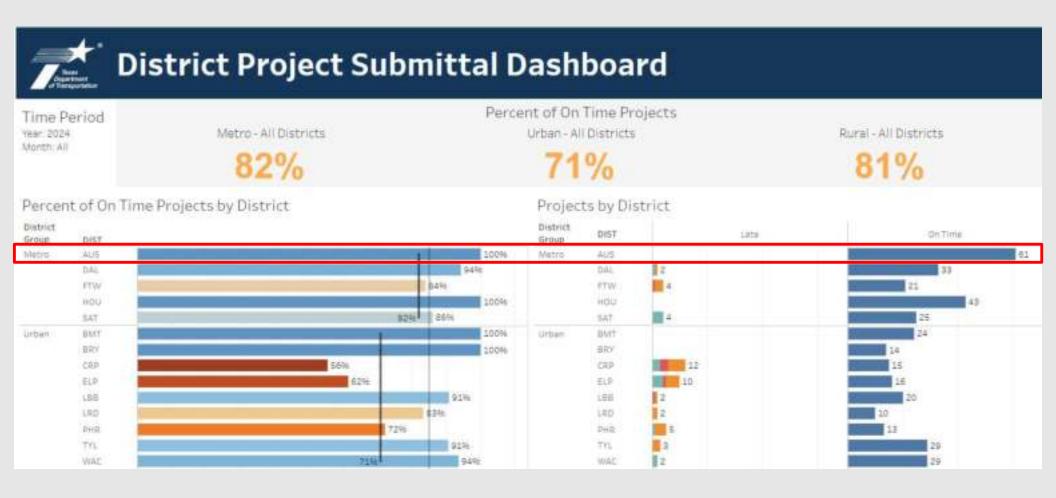
## **Annual Budget: AUSTIN DISTRICT 2023 - 2027**





# **Annual Budget: How do we deliver a Billion Dollar Program? 100% On time Design**





### **Annual Budget: FY 2023 Statewide vs Austin District**



#### Statewide Letting Volume



#### Austin District Letting Volume - 4.1%



## **Annual Budget: FY 2024 Statewide vs Austin District**



#### Statewide Letting Volume



#### Austin District Letting Volume - 6.2%



### **Annual Budget: FY 2025 Statewide vs. Austin District**



#### Statewide Letting Volume

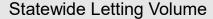


#### Austin District Letting Volume – 7.6%



## **Annual Budget: FY 2026 Statewide vs. Austin District**







#### Austin District Letting Volume – 21%



### **Annual Budget: FY 2027 Statewide vs. Austin District**



#### Statewide Letting Volume



#### Austin District Letting Volume – 4%



## **Annual Budget: FY 2024 comparing AUS vs SAT**



#### San Antonio District Letting Volume



#### Austin District Letting Volume



## **Annual Budget: FY 2024 comparing AUS vs HOU**



#### Houston District Letting Volume



#### **Austin District Letting Volume**



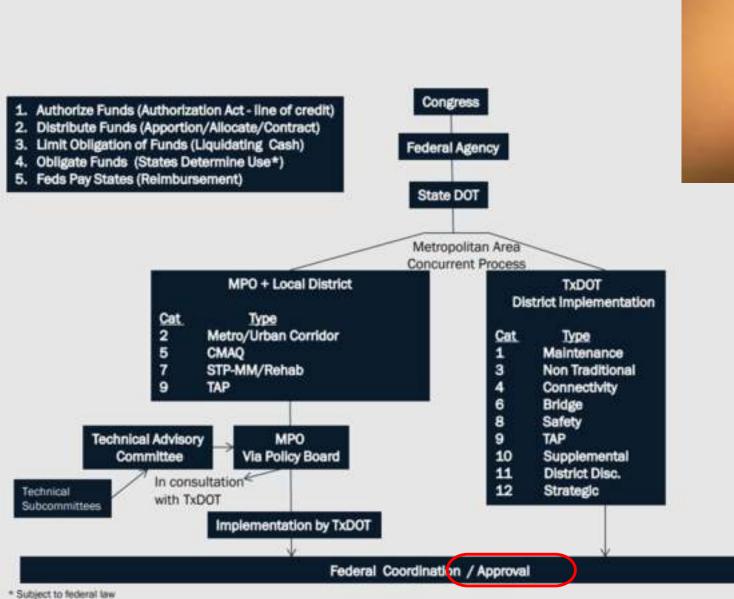
May 2024 **Austin District** 



## How do we deliver a Billion Dollar Annual Program?

**FHWA: Authority** 

**Austin District** 



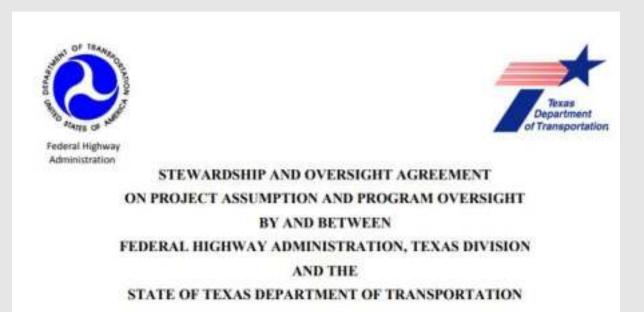




May 2024

# How do we deliver a Billion Dollar Annual Program? FHWA: How we get our funding, Comply with S&O Agreement





#### SECTION II. INTENT AND PURPOSE OF S&O AGREEMENT

The intent and purpose of this S&O Agreement is to document the roles and responsibilities of the FHWA's Texas Division Office (FHWA or Division) and the Texas Department of Transportation (TxDOT) with respect to project approvals and related responsibilities, and to document the methods of oversight which will be used to efficiently and effectively deliver the FAHP.

https://ftp.txdot.gov/pub/txdot-info/library/reports/gov/fhwa-stewardship/2015-agreement.pdf

## **How do we deliver a Billion Dollar Annual Program? TxDOT** and the S&O Agreement: Attachment C



#### ATTACHMENT C

#### TxDOT Manuals are available on-line at:

http://onlinemanuals.txdot.gov/manuals/CollectionList.html

Program Area	Agreements, Policies, Manuals, Reports	FHWA Approval required	Program Web Site
Administration	TxDOT Oversight and Reporting Requirements for the Federal-aid Highway Program	No	http://www.txdot.gov/inside-txdot/administration.html
Performance Indicators	Preliminary Texas Transportation System Performance Results	No	http://www.txdot.gov/inside-txdot/office/state- affairs/preliminary-performance.html
Bridge	Bridge Project Development Manual Historic Bridge Manual Bridge Design Manual - LRFD	Yes	http://www.txilet.gov/inside-txdet/division/bridge.html
Bicycle Accommodation and Safety	Bicycle and Pedestrian Facilities	No	http://www.txdot.gov/driver/share-mad/bicycles.html
Civil Rights	DBE Program Plan	Yes	http://www.txdot.gov/inside-txdot/office/civil- rights/contact.html
Construction and Materials	Construction Contract Administration Manual TXDOT Quanty Assurance Program TXDOT Standard Specifications TXDOT Special Specifications TXDOT Special Provisions TXDOT Material Specification (DMS) TXDOT Construction Contract Administration Manual TXDOT Manual of Testing Procedures TXDOT Pavement Design Guide	Yes	http://www.txdot.gov/inside: txdot/division/construction.html
Consultant Services - Professional Engineering Procurement Services (PEPS)	PEPS Contracting: Selection Process Manual PEPS Contracting: Contract Management and Administration Manual	Yes	http://www.txdot.gov/inside-txdot/division/peps.html
Design	Road Design Procedures and Details 3R Minimum Design Guidelines for Rural NHS (Non- Interstate) 3R Minimum Design Guidelines for Urban and Suburban NHS (Non-Interstate) Hydraulic Design Manual Roadway Design Manual	Yes	http://www.txdot.gov/inside- txdot-division-design/bio.html

(Version Date May 14, 2015)

https://ftp.txdot.gov/pub/txdot-info/library/reports/gov/fhwa-stewardship/2015agreement.pdf

# How do we deliver a Billion Dollar Annual Program? Construction Contract Administration Manual



Chapter 16 -- FERVA Oversight Requirements

Section 3 — Interior Project Review Guide - Nate and Federal-Aid Projects

#### Section 3 - Interim Project Review Guide - State and Federal-Aid Projects

All projects are to be inspected reviewed on a regular basis to ensure compliance with the contract requirements and that the work is performed according to the plans and specifications. District offices should document their project record reviews for project record compliance at 30%/60%/90% completion (based on project dollar walues), Table 1 lists some of the basic compliance categories and the required standard for acceptance.

Table 1 - Basic Project Compilance Categories and Acceptance Standards

Birm	Standards
Company bulletin board	Acceptable, readable, postings in accordance with earner federal requirements.
Treffic Count Plan (TCE) / BATELCADES	Set up according to project TCP, Barriendes and Construction (BC), and Work Ziner (WZ) standard obserts     Signs & harricodes in compliants with current Compliant Work Zone Truffic Commod Device (CWZTCD) had
	<ul> <li>Clean, phorb, name to slight damage, good reflectivity, command attention</li> </ul>
Constnution liura	<ul> <li>Contactor's work is as compliance with plans and specifications and of good quality</li> </ul>
Disposition :	Quantity of inspection staff is adequate for work underway.
	<ul> <li>Impactors are knowledgeable of the applicable plans and specification requirements for the work being observed.</li> </ul>
	<ul> <li>Testing equipment and inspection staff conflications and testing proficiencies an agree data.</li> </ul>
	<ul> <li>Adaquate testing is necessing to names compliance with the QAP and Goale Nebubile requirements and quality of the work</li> </ul>
Materials	<ul> <li>All materials are reported into the project are from qualified material according dustrial Producer List (MPL)</li> </ul>
	<ul> <li>Inspection cover materials differend to the project are transferband according to the relevant plans and qualifications requirements and are they of defects and durings.</li> </ul>
	<ul> <li>Adequate supporting documentation is available to provide assumance of Boy Asserted compliance for all professionality deal or tree products</li> </ul>
Progress	Monthly schedule against are being sent by the connector.  Work activities observed are according to correct 2–3 week look-ahead achedule.  Overall progress to us or ahead of the approved project schedule.  If work is beliesd schedule, the AO has requested the contractor subset a make-op achedule that slaves have the contractor will complete the work within the contract time.

Contraction Contract Administration Manual

15-6

ThDOT 11/2022

#### Section 3 — Interim Project Review Guide - State and Federal-Aid Projects

All projects are to be inspected/reviewed on a regular basis to ensure compliance with the contract requirements and that the work is performed according to the plans and specifications. District offices should document their project record reviews for project records compliance at 30%/60%/90% completion (based on project dollar values). Table I lists some of the basic compliance categories and the required standard for acceptance.

MAP 2.2: The Design Division (DES) will develop a standard operating procedure (SOP) and PS&E review checklist that will provide minimum review and retention requirements using best practices from districts and DES reviewers. The SOP and PS&E review checklist, and Design Evaluation Form (noted in MAP 1.2) will be posted to the DES website for district reference and use.

# How do we deliver a Billion Dollar Annual Program? Roadway Design Manual



Manual Notice: 2022-2

From: Mansabel Ramthun, P.E.

Manual: Roadway Design Manual

Effective Date: December 19, 2022

#### Purpose

The Roadway Design Manual has been revised to update Table 3-8 which represents 4R travel lane and shoulder widths for Rural two-lane highways. The Table has been updated to add in separate column categories for a future ADT of 400 - 1500, and for a future ADT of 1500-2000. The values of these newly added columns have been updated accordingly.

#### Contents

#### Chapter 3, Section 4

Updated Table 3-8 by updating criteria values for travel lanes and shoulders for rural twolane highways. Also, updated footnotes in table.

#### Instructions

This manual, and all revisions, applies to all transportation project development (all modes), whether developed by the department or by other entities. Due to projects that may be further along in development with current criteria, this manual, and all revisions, will be effective for all projects beginning with the <u>September 2023 Letting</u>, and if project schematic or 30% plans have not been approved by <u>November 1<sup>st</sup></u>, 2022. The Districts have the options to use these revisions prior to these dates.





http://onlinemanuals.txdot.gov/txdotmanuals/rdw/3r\_project\_doc.htm

# How do we deliver a Billion Dollar Program? PS&E Review and Standardization

**\*** 

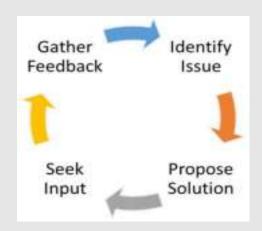
MAP 2.2: The Design Division (DES) will develop a standard operating procedure (SOP) and PS&E review checklist that will provide minimum review and retention requirements using best practices from districts and DES reviewers. The SOP and PS&E review checklist, and Design Evaluation Form (noted in MAP 1.2) will be posted to the DES website for district reference and use.

#### **ENGINEERING REVIEWS**

Engineering reviews must be completed and documented for every project. These reviews should be conducted at regular scheduled milestones throughout the project development cycle.

Engineering reviews must be completed by staff members with sufficient knowledge and experience.

Interim review milestones are extremely beneficial. They should be identified and completed for every project. Final engineering reviews are required for every project and must be completed prior to submittal of PS&E to the Design Division for letting.





#### **CONTRACT REVIEWS**

Contract reviews should consist of a thorough review of the entire PS&E package to ensure that it is ready to advertise for bidding.

Contract <u>reviews must be completed and documented for every project</u>. These reviews must be conducted by both district review staff and Design Division review staff.

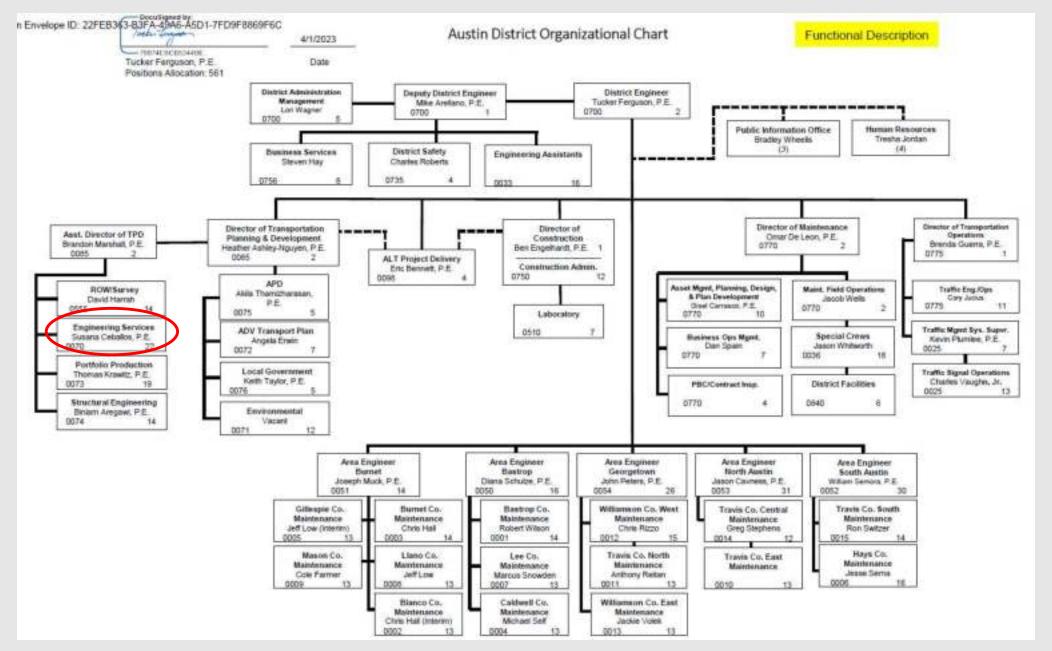
Interim contract reviews should be considered at early project milestones but final contract reviews are mandatory for every project and must be completed prior to submittal to the Design Division for letting.

https://www.txdot.gov/business/resources/design-tools-training/electronic-plan-set-guidance/pse-pre-submittal-preparation.html

# **How do we deliver a Billion Dollar Annual Program? Austin District – 561 FTE**

**Austin District** 





May 2024

## **How do we deliver a Billion Dollar Annual Program?**

**Engineering Services** 

#### DISTRICT ENGINEERING SERVICES

Supervisor: Susana Ceballos, P.E.





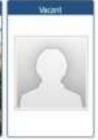
Project Processing Team Lead: Roy Garcia, P.E.











Project Development Team Lead: Eric Gobert, P.E.











Utility Processing Team Lead: Stefan Smensky Utility Engineer: Marco Cameron



















May 2024 **Austin District** 

# How do we deliver a Billion Dollar Annual Program? Implement PS&E Review and Standardization



#### **Engineering SME Reviews by:**

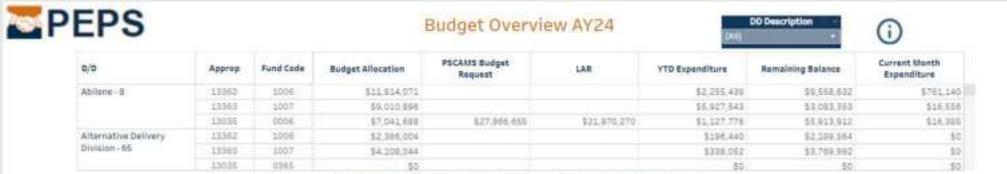
- Area Engineer & Maintenance Supervisor
- 2. Director of Construction
- 3. Director of TP&D
- 4. Director of Maintenance
- 5. Director Traffic Operations
- 6. District Design Engineer Susana Ceballos
- 7. District Traffic Engineer
- 8. District Schematic Engineer Eric Gobert
- 9. District Bridge Engineer
- 10. District Hydraulic Engineer
- 11. District Pavement Engineer
- 12. District Advance Transportation Planning
- 13. District Environmental Coordinator
- 14. District Railroad Coordinator Bill Echols
- 15. District Utility Engineer Marco Cameron
- 16. District Right-of-Way Coordinator
- 17. District Plan Review Engineer Roy Garcia
- 18. District Landscape Architect & ADA -
- 19. District Roadway SME Beke Bedada
- 20. District Developer Agreement SME- Makin G
- 21. District LG SME Kevin Kirchoff
- 22. District Scheduler SME Marcelo A.

https://www.txdot.gov/business/resources/design-tools-training/electronic-plan-set-guidance/pse-pre-submittal-preparation.html

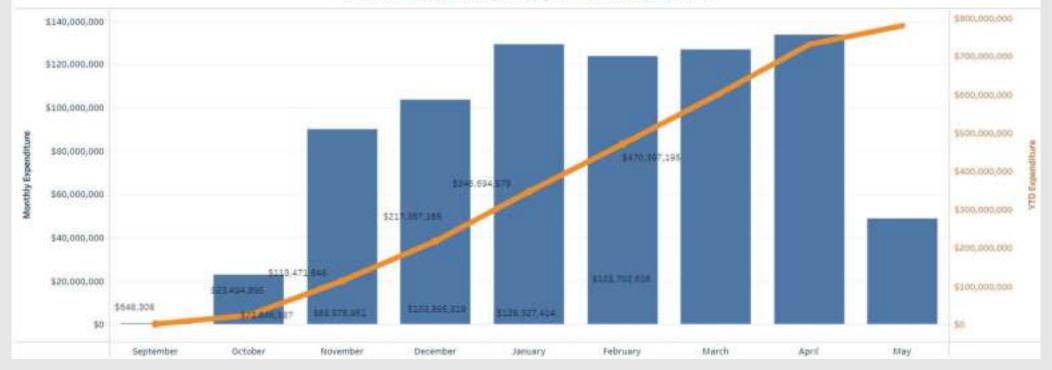


# How do we deliver a Billion Dollar Annual Program? Statewide PEPS Spending - \$800 million





#### All Contracted Planning & Design All Funds Expenditures



\$1,591,980,578

\$1,585,859,021

Expenditure in PeopleSoft

% Expended

\$780,225,092

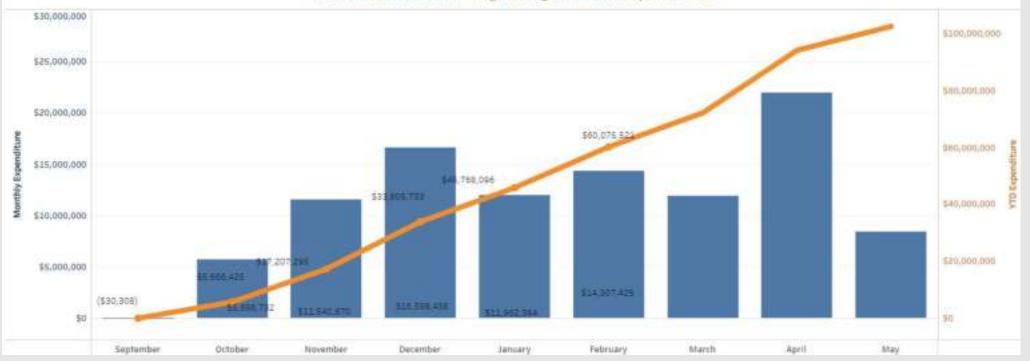
49.2%

# How do we deliver a Billion Dollar Annual Program? Austin District PEPS Spending – \$100 million





#### Austin Contracted Planning & Design All Funds Expenditures



\$200,017,073

\$200,017,073

Expenditure in PeopleSoft

% Expended

3 \$102,350,284

51.2%

# How do we deliver a Billion Dollar Annual Program? PS&E Review and Standardization



If you <u>could</u> do good things for other people, you had a <u>moral obligation</u> to do those things! That's what's at stake here.

Not choice. **Responsibility**.

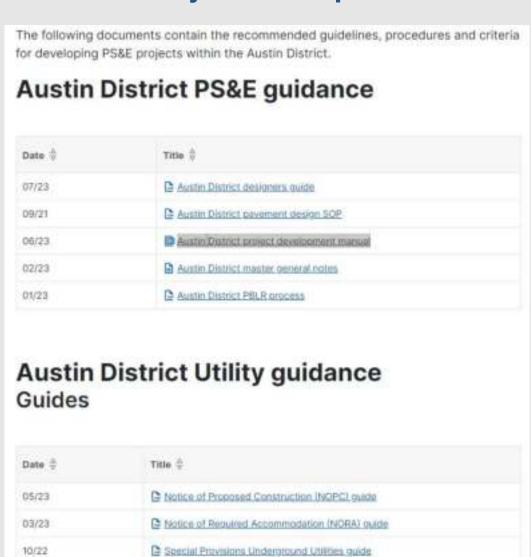


https://www.txdot.gov/business/resources/design-tools-training/electronic-plan-set-guidance/pse-pre-submittal-preparation.html

# How do we deliver a Billion Dollar Annual Program? Austin District Website & Austin District Project Development Manual



Alexa:
Google "Austin
District Standards
Website"



https://www.txdot.gov/about/districts/austin-district/district-standards.html

# How do we deliver a Billion Dollar Annual Program? Austin District Project Development Manual



## **Austin District Project Development Manual**

	Acceleration Determination
2. Intent is to document discussion of what acc	
Acceleration Determination  1. Acceleration Checklist is Mandatory.  To be completed as early as possible  2. Intent is to document discussion of what acceleration method (if any) are to be applied to project. Recommend either Rick-off Meeting or Initial Flan Review be used to document discussion and elements to be incorporated  System Safety Checklist is Mandatory.  To be completed as early as possible  1. System Safety Checklist is Mandatory.  To be completed as early as possible  2. Intent is to be used for all District projects to discuss what Safety Elements are to be applied to project. Recommend either Rick-off Meeting or Initial Plan Review be used to document discussion and elements to be incorporated  3. Checklist is updated based on coordination with District Maintance efforts. Current Version based on District System Safety Checklist 67-21-20  For all Bridge and/or Bridge Class Culvert  1. Prelim Bridge Checklist is Mandatory, (Acromyn PBLR - Preliminary Bridge Layout Review introduced)  2. Checklist is intended to be used per structure in each project. It is acceptable to use single spreadsheet for entire project for documentation purposes make note in comment box for each section that this has been verified for each bridge structure.  IDF Checklist  1. IDF Checklist is Mandatory. ***  To be completed and updated in line with Milestone Reviews  ***** For projects similar to Preventive Maintenance discuss with DOBA start if IDF Checklist is necessary for project.  1. Intent of Checklist is to document all project coordination necessary. Emails, meeting summaries, etc documenting effort to be stored in Projectifies accordingly  2. Select Yes J No J Nax Agapticable based on current project progression at the time of milestone development.  3. Subsequent milestone submittal to revisit previous IDF stage with the intent of updating the understanding to either Yes / Not Applicable  4. Final submission (Signed and Sealed) to include completed updated of IDF spreadsheets such that there are no longer a "No	
	TENDONOMICS TO THE ENGINEER CONTROL OF THE PROPERTY OF THE PRO
Initial Plan Review be used to document discus	ssion and elements to be incorporated
<ol><li>Checklist is updated based on coordination v</li></ol>	with District Maintance efforts. Current Version based on District System Safety Checklist 07-21-20
	For all Bridge and/or Bridge Class Culvert
Prelim Bridge Checklist is Mandatory (Acrom	yn PSLR - Preliminary Bridge Layout Review Introduced)
· (8) - 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.	
	IDF Checklist
IOF Checklist is Mandatory. ***	To be completed and updated in line with Milestone Reviews
*** For projects similar to Preventive Maintenar	nce discuss with DDGN staff if IDF checklist is necessary for project.
	coordination necessary. Emails, meeting summaries, etc documenting effort to be stored in
2. Select Yes / No / Not Applicable based on curre	nt project progression at the time of milestone development.
<ol> <li>Final submission (Signed and Sealed) to incl</li> </ol>	ude completed updated of IOF spreadsheets such that there are no longer a "No" response.
	Complete PS&E Submittal checklist
To be filled out by District Plan Reviewer	
2. Information documented on Spreadsheet to	identify all necessary files to be provided for the purpose of processing
	Project Certification
To be filled out by District Plan Reviewer	
2. Information documented on Spreadsheet to	document close out of all Subject Matter Expert comments provided during Milestone review
QUICK AN	ND EASY SUBMITTAL GUIDELINES BY % MILESTONE

## **Project Development Manual: 30%**



	Initial Review						Initial Review (continued)						
CSJ	0			Page 1012							Page 2		
County	-						1	Co	ordinator[Cons	111	2 12 2 2		
wastlocation	_				Y	N	NIA	Traffie Control			C (AO rep)		
Project som	_				0			Preliminary Traffic Co					
Limits To	_				-	-	-		SPlots	- 500 [00	Teach the second		
Type of Vock									rical Sections				
agmans Desc					I m	10	l m	Hold traffic control m		Construction	Differe		
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		ReviewtAddress Kick-off meeting comm				_		Fload Closurer & Det		One 12			
- Indiana and a second	L	Review Austin District Designer's Guide	Date			_		Accelerated Constru					
Comments		T		-		Acres (Co.)		Confirm Comments i	rom Asea Office Mi	eintenance Sa	ection residued		
	NVA	Description Description	eats Person A (DDI	GM PR sep)	Come	nens:							
		Design Summary Report Submitted		500					and the state of the	a Verenda			
0 0	0	Typical Sections & Design Criteria Appro	ved Date		Y	N	NIA	Drainage	Coordin	nate Person	B (HH rop)		
		Biogole & Pedestrian Accompdistons Co	continuated with DDGN					Drainage Easements	Defined	7-45-NO	STANFORD !		
		TaDOT Bloycle Assomodation Design G		22		0		Hydrology Complete	1				
		Design Exceptions/Valvers Submitted to		24				Hydraulic Coordinate					
00		Determine existing Huture CAP Metro R	outes within Project Lin	nite				Other Agreements					
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"People who are trying to change
the world need to use checklists."
BUSINESSMAN AND AUTHOR GUY KAWASAKI



## **Project Development Manual: 60%**



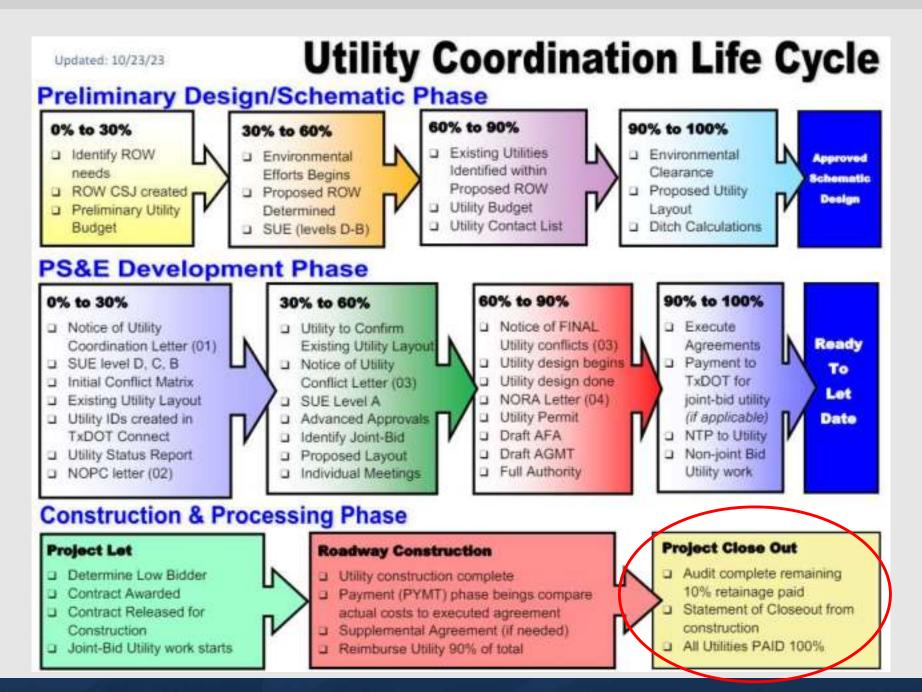
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"A checklist cannot fly a plane. Instead, they provide reminders of only the most critical and important steps." SURGEON AND AUTHOR ATUL GAWANDE



## **Austin District Project Development Manual: Utilities in PS&E**





# Milestone Submittal: 30/60%



### QUICK AND EASY SUBMITTAL GUIDELINES BY % MILESTONE

#### 30% MILESTONE SUBMISSION: ProjectWise Plan Review 30% Folder.

- 01) READ ME FIRST MEMO
- 02) PROJECT MANAGEMENT CHECKLIST (IDF Checklist) { INITIAL ONLY }
- 03) 1234-56-789 HW1234 30% FORM 1002
- 04) 1234-56-789 HW1234 30% PRELIMINARY ESTIMATE
- 05) 1234-56-789 HW1234 30% PLANS (TITLE SHEET, TYPICAL SECTIONS)
- 06) 1234-56-789 HW1234 30% PRELIMINARY BRIDGE LAYOUT(S)
- 07) 1234-56-789 HW1234 30% PRELIMINARY RETAINING WALL LAYOUT(S)
- 08) 1234-56-789 HW1234 30% CROSS SECTIONS
- 09) 1234-56-789 HW1234 30% SAFETY SCORE TOOL (If Applicable)
- 10) 1234-56-789 HW1234 (SIGNED) AP&D STAGE GATE CHECKLIST (Advance to PS&E line)
- 11) 1234-56-789 HW1234 (SIGNED) PS&E STAGE GATE CHECKLIST (30% Review line)
- Submit 1814 forms for Special Specs/Provisions and/or Bid Codes that have been Identified.

#### PREPARATION GUIDANCE FOR SUBMITTING PLANS FOR REVIEW.

- A) If it is a consultant submittal. Create a subfolder under the 30 Percent folder in Projectwise (30% SUBMITTAL FROM TBD).
- B) Create another subfolder and lable it (30% COMMENTS RECE
- C) All files submitted for review SHALL be Non-Editable .pdf for
- If sending files through SharePoint or BlueBeam substitute (pct) to avoid errors during file transfer.
- E) Submit the Title Sheet, Typical Sections, and Form 1002 as a separate submittal for processing.
- F) Any new Bid Items added during Project Development will trigger additional review of Designer's Guide.

#### 60% MILESTONE SUBMISSION: ProjectWise Plan Review 60% Folder.

- 01) READ ME FIRST MEMO (Updated to 60%)
- 02) PROJECT MANAGEMENT CHECKLIST (IDF Checklist) (INITIAL + DETAILED )
- 03) 1234-56-789 HW1234 60% FORM 1002 (updated)
- 04) 1234-56-789 HW1234 60% ESTIMATE (In TxDOTCONNECT Format)
- 05) 1234-56-789 HW1234 60% CERTIFICATIONS
- 06) 1234-56-789 HW1234 60% PLANS (detailed design)
- 07) 1234-56-789 HW1234 60% CROSS SECTIONS (with utilities included)
- 08) 1234-56-789 HW1234 60% SAFETY SCORE TOOL (If Applicable)
- 09) 1234-56-789 HW1234 60% CONSTRUCTION MANAGEMENT PLAN (If Certs are unclear)
- 10) 1234-56-789 HW1234 (SIGNED) PS&E STAGE GATE CHECKLIST (60% Review line)

Submit 1814 forms for Special Specs/Provisions and/or Bid Codes that have been Identified.

## **Austin District Project Development Manual**





The last leg of a journey marks the halfway point







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	(No later than)	(No later than)	(No later than)		(Draft Certs Due)	(No later than)	(No later than)		
September	Feb 16, 2024 Fri	Mar 8, 2024 Fri	Apr 12, 2024 Fri	May 6, 2024 Mon	May 10, 2024 Fri	Apr 19, 2024 Fri	May 24, 2024 Fri	Aug 28, 2024 Wed	September 5 & 6
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5 weeks



**FINAL REVIEW** 

"No matter how expert you may be, welldesigned checklists can improve outcomes."

#### AUTHOR AND ECONOMIST STEVEN LEVITT

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## Final Review and Final ePS&E Submittal

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90% MILESTONE SUBMISSION: ProjectWise Plan Review 90, 95% Folder.
01) READ ME FIRST MEMO (Updated to 90%)
02) PROJECT MANAGEMENT CHECKLIST (IDF Checklist) (INITIAL + DETAILED + FINAL)
03) 1234-56-789 HW1234 90% FORM 1002 (updated)
04) 1234-56-789 HW1234 90% GENERAL NOTES
05) 1234-56-789 HW1234 90% ESTIMATE (In TxDDTCONNECT Format)
06) 1234-56-789 HW1234 90% SPEC LIST
07) 1234-56-789 HW1234 90% CONTRACT SCHEDULE
08) 1234-56-789 HW1234 90% CERTIFICATIONS (updated)
09) 1234-56-789 HW1234 90% FORM 2229
10) 1234-56-789 HW1234 90% FORM 2699
11) 1234-56-789 HW1234 90% PLANS (final design)
12) 1234-56-789 HW1234 90% CROSS SECTIONS (final)
13) 1234-56-789 HW1234 90% SAFETY SCORE TOOL (If Applicable).
14) 1234-56-789 HW1234 90% CONSTRUCTION MANAGEMENT PLAN (if Certs are unclear)
15) 1234-56-789 HW1234 (SIGNED) PS&E STAGE GATE CHECKLIST (90% Review line)
Submit 1814 forms for Special Specs/Provisions and/or Bid Codes that have been Identified.
```

#### 100% ePS&E COMPLETE SUBMISSION: ProjectWise Plan Review ePS&E Folder. 0120(Letting Date) 1234-56-789(CS/) TRAVIS(County).pdf (THIS IS YOUR PLANS PORTFOLIO) 0120(Letting Date) 1234-56-789(CSJ) TRAVIS(County)(SUPPORTING DOCS) pdf (THIS IS YOUR SUPPORTING DOCS PORTFOLID) 1234-56-789 HW1234 FINAL ELECTRONIC GENERAL NOTES (,RTF format) 1234-56-789 HW1234 FINAL CROSS SECTIONS (Native Format) 1234-56-789 HW1234 FINAL SAFETY SCORE TOOL (If Applicable) 06) 1234-56-789 HW1234 (SIGNED) PROJECT LETTING CERTIFICATION ACKNOWLEDGEMENT FORM 07) 1234-56-789 HW1234 (SIGNED) AP&D STAGE GATE CHECKLIST (Advance to PS&E line) 1234-56-789 HW1234 (SIGNED) PS&E STAGE GATE CHECKLIST (Advance to Letting line) Submit 1814 forms for Special Specs/Provisions and/or Bid Codes that have NOT been previously identified The naming convention of files included in the PLANS PORTFOLIO pdf SHALL match the names as they appear on the Index of 5 The files to be included in the SUPPORTING DOCUMENTS PORTFOLIO SNALL BE NAMED, AND ARE, AS FOLLOWS.

001 FORM 1002 (editable) Leave the General Notes out of the Docs Portfolio. DDGN will insert the .pdf here from the .RTF file provided above. 005 CONTRACT SCHEDULE (signed and dated with anticipated construction completion date noted) 006 FORM 2229 SIGNIFICANT PROCEDURES (editable) 007 CERTIFICATIONS (signed and dated) 008 FORM 2699 SPECIFIC LIQUIDATED DAMAGES (editable)

009 FORM 2502 VALUE ENGINEERING RECOMMENDATIONS

**010 CONSTRUCTION MANAGEMENT PLAN** 

May 2024 **Austin District** 

## **Project Development Manual:**

Why are checklist so powerful?



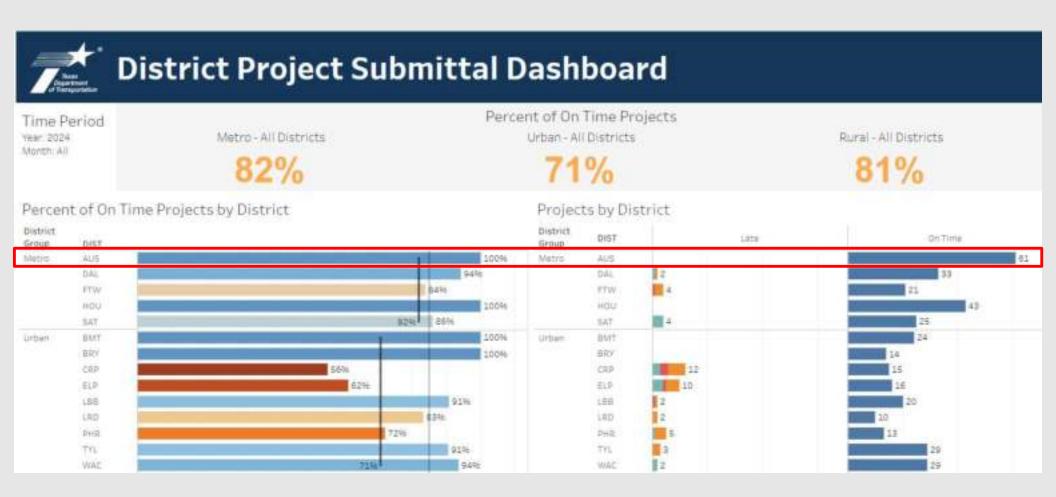
- •Ensure compliance of essential tasks get done.
- •Provide discipline and consistency.
- •Save time by eliminating errors, therefore avoiding time wasted.
- •Improve productivity do more with less.















Safety Never Stops!



## **Project Development Manual: Safety System Checklist**

			System Salety Checklist - May	or Improvement and Construction Projects	
System Salety Bern	Boolings	Check if Applicable	Circeia	Conditions	
Payenest Saface	All Ploadwigs		High Friorion Surface Treatment	Install surfacing that meets offer is across eithe parement width. Use of high friction nurface mixes: seal coat, PFC, SMA and TOM. See the Austin District Parement Design SOP for surface mixture map.	
Paversent Repair of Level Up	All Roadways		2'4' repairs 1'45' level up	Include as needed. Refer to PM estimate template and fleshie poverners' detail, anything over it' repairs or 15" level up will require poverners evaluation.	
W2 Singled	All Foodways	0	Profile Strong	If an estring roadway has profile striping, use Type Y and V bottoms as VZ striping at W spacing for centerline and edge lines for the disaston of communics to improve salety in VZ. Paker to item 662 Austin Dismict Designers Guide.	
Lane FRPM Spacings	All Ploadways		40 foot	As warranted for safety countermeasure by the Engineer such as but not limited to rural, roudway with high sale swipe crashes or undivided roadways.	
Center Line FIPM Spacing	All Picadvaye		40 footN20 foot	40 Foot for two lane two way and four lane two way roads. 20 foot for ourses with high number of Head-Chiffiun-off-Fload counters.	
Edge Line Striping	All Floodweps		Profile Striping	Use profile phiping in lieu of milled in rumble phips per high diction surface treament pulsey and milled in numble phip standards. Refer to item 6 and 6056 in Austra District Designers Dubble for additional information.	
	All Undysded Ploadways		Frontile Striping	Use profile stripling.	
Center Line Striping	Undivided Flouding with Shoulder 2 4 H.		30/36 itsik senrer to senter-only for continuous stripe	Reduce shoulder width on each side. Standards: s82-23(standards): s81-23(standards);	
	Undivided Roadway with Shoulder + 4 it.	а	Mac of 16 inch center to center	Plefer to pavement marking standard for two lane two way and four lane two way roads.  Standard: PM(I) 22 (state tour).	
Centerline Plantile Strip	All Undivided Provide ago		Prelabilitated strips:	Flerier to standard and them 666 and 9056 in Austin District Designers Guide For additional information.	
Metal Beam Guardience	All Ploadeage		Opgrade to latest standard	Ensure that TAS are upgraded to new standard, apgrade MEGF to new standard to meet height reparements. Fleter to item \$40 & \$44 in Austri District Designers Guide the additional information.	
Center Median	5-lane, undivided roadways	0	Flatterd senter median	Consider installation of raised center median where ACIT exceeds \$10,000 vehicles per day and/or where these are operations concer- block hand.	
Median Barter	Divided highways		Vidti of median	Cable batter use if median is greater than 25°. Concrete barrier if median is less than or equal to 25°. For median batter consider ped bar pedestrian fatallises exist. See Mark Marek Memo dated June 21, 2006 and standard for katter guidance. Peter to item 5M and 542 in As District Designers Guide for additional information.	
ontinuous Barrier & Bridge Rail Delineations	All Ploadways	0	Parlactor at man 100 heet	Refer to DIXOM(D-20 for reflector type - CTB tab. Refer to DIXOM(D-20 and DIXOM(D-20 for specing and glasse to reflector in accordance to DIXOM(D-20 on the side of the CTB. Refer to term (St in Austra Dixord Dixord Dixord for additional information.	
Curve Vierning Devices	Roadways with Substandard with DIsOM(3) -28		Upgrade	Identify any curves without cheurons on shape curves meeting the latest criterion on DECPA(2) -20.	
Intersection Dudler	All Flowdeeps	0	New signal/teshing beautoristing condition/Lipgrade Signals + Fied	Upgrade based on age and exploring equipment, limited pedestrian accommodations. For stop condition on minor study agricultural control of such ages and explored control of the such agricultural con	
Grade Separation	As required if readilities		Grade separate intersection	brotal grade separation for railroad in other interpecting road as warranted.	
Raikoud Crossings	All Floathraps	0	All crossings all projects	Replant as recessary, based on condition. Correct vertical profile issues to avoid humped intersections. Coordinate with District Relicoad coordinates	
Pedestian Denexis	All Floadways		Pedestian Elements	Include shared used path, such ramps and ped signals.	
rrs	All Picadways		New installation	Place in Phase Localization sequence, design alignment for proper placement, if not possible specify to maintain easiling ITS intrastructure decoration construction.	
Intersection Salety Lighting	All Picedesys	а	Lighting	Installighting at an intersection where either none existed previously of major improvements are proposed. Consider high mast at inversion-parafeter sections. Install lighting with all traffic signal natival lettors. Preview shash history light conditions.	
Regroecé Salety Lighting	All-Plandways		High Mast Burnnellon/Continuousl Salety lighting	instellings must as default, consider continuous or partial lighting if high mast is not warranted. Install lighting in first phase of the conspequence of possible to improve safety during construction.	
PrepROV	All Floadways	п	Clew sone	Flornove all obstructions from the clear cone including trees. Avoid added elements within the clear cone. Yestig if tree(s) have significance that yould warrant previously. Design to deemade.	
Time and Brush Trimming and Plemoval	Noncosocypt vers i nee or broats were on analise height less than 20 seet or	D	Clearance of a minimum of 20 feet/Clear Zone	Identify any tree or brush within the limits with less than 28 loss oferance. Eliminate obstruction/tree or protect. Include district tree tim stands and peed PICM bid item.	
Moving	All Powdrays		Greater than I2 month duration	Fiefer to bern 730, 734, & 739 in Austin District Designers Guide for additional information.	
Later Pick-Up	AliFloadways		Diseaser than 12 month duration	Plater to Nem 730, 734, 5, 738 in Austin District Designers Guide for additional information.	
Suesoing	All Floadeau	П		Plane to been 731-734 A-738 is Austin Cherryl Designers (Sade try additional infratauros	

## **Questions? Safety Starts with YOU**





