

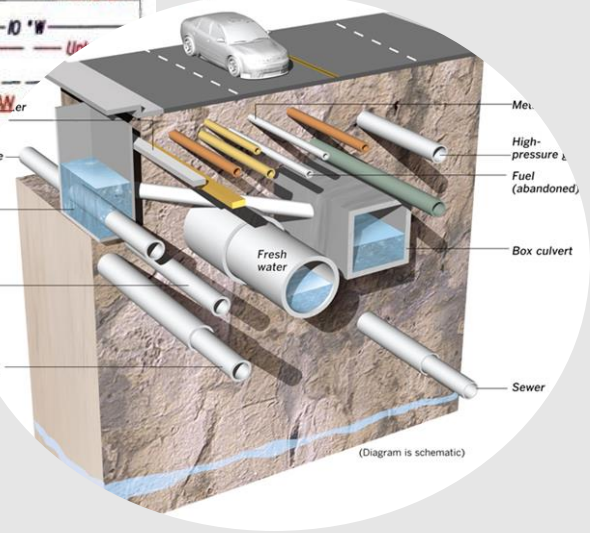
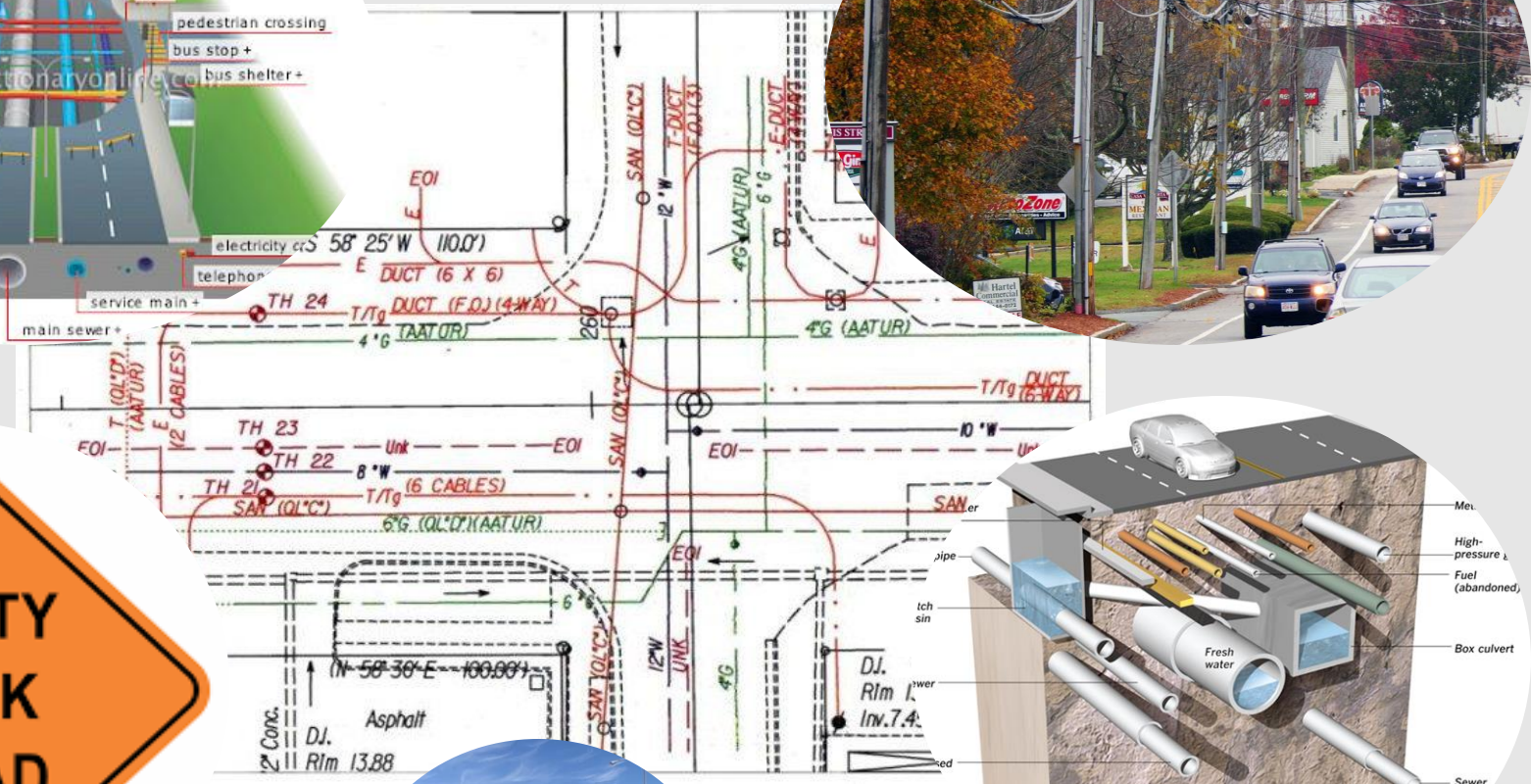
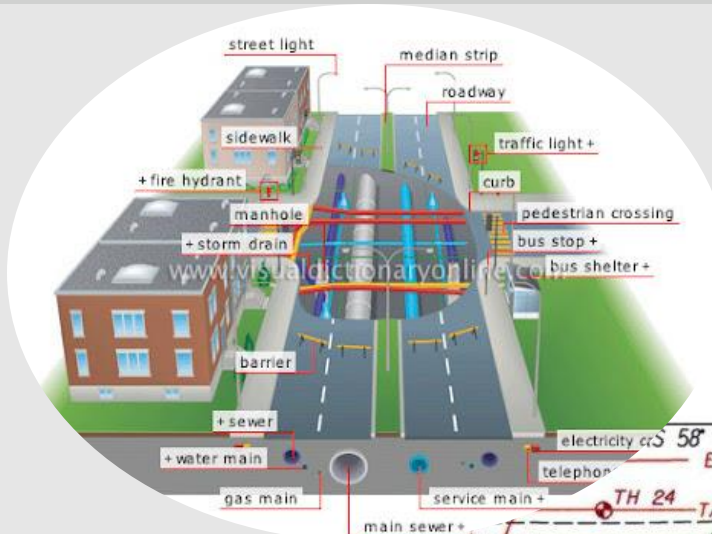


# Critical Projects Lettings and Construction Management Plans (CMP)

Max Proctor, Jr., P.E. TxDOT Design Division



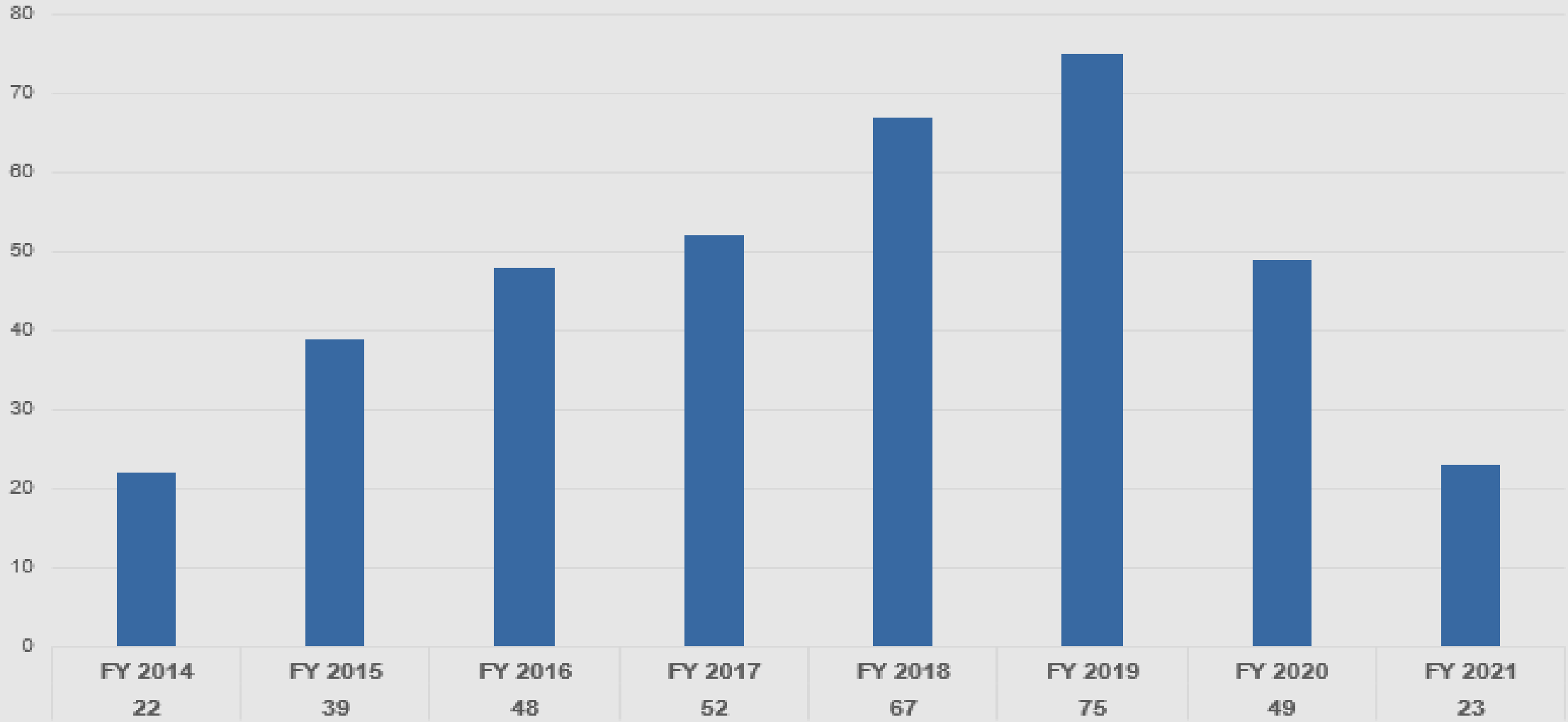
# Utilities In the ROW



# Why do we need Construction Management Plans?



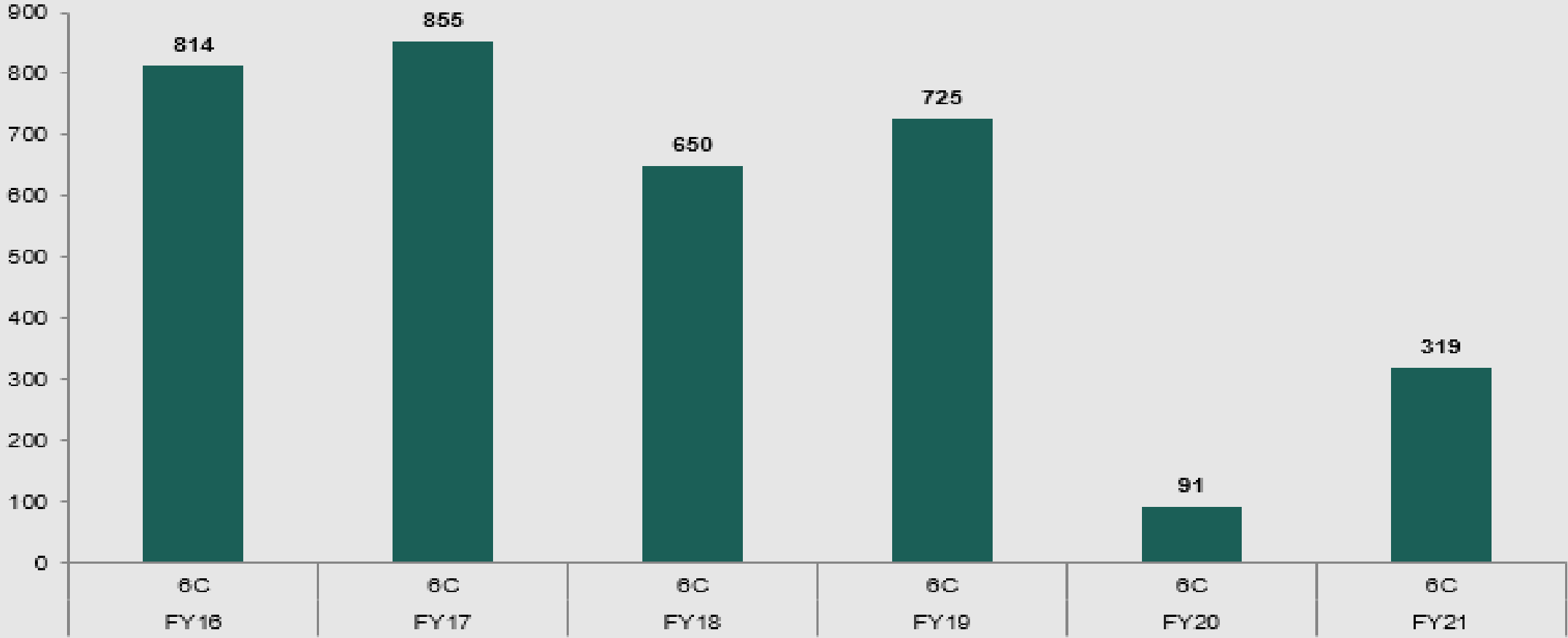
Total number of Utility-Related Change Orders by Fiscal Year



# Why do we need Construction Management Plans?



Total Days Added by Utility-Related Change Orders by Fiscal Year





## 23 CFR section 635.309(b)

*'PS&E packages for projects using federal highway program funds must have a utility agreement or statement verifying the appropriate coordination with all utilities on the project occurred prior to FHWA construction authorization. Each agreement or statement should specify that the utility use and occupancy of the right-of-way or any required utility work will be completed prior to the highway construction, or there were conditions specified allowing for the utility work to be coordinated with and completed in coordination with the highway construction schedule.'*



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# When do we need Construction Management Plans?



Letting Month	P.S. & E. REVIEW AND PROCESSING SCHEDULE FOR FY 2023												
	FIN	District / DES	FIN	District/DES	District / DES	CIV	District/FIN DIST Report Performance End Dates ***** FIN Reviews Performance End Dates	FIN/CIV	FIN	FIN	FIN/DES	District / DES	FIN
	Post Candidate List of Projects for Letting	Confirm Candidate Projects Listing Draft Certs Due	Tentative Monthly Schedule Submitted for Approval	Final Construction Management Plans Due to DES	Final PS&E Due to DES (Final Mgmt Plan due)	Begin DBE/SBE Goals Setting		FPAA Submission Deadline ***** Finalized DBE/SBE Goals Set	Authorization Date (FPAA)	Publish Ads in ESBD	Proposal Release to CST	Last day before Addendum is considered late(ADM approval required after 5pm on this date)	Letting Dates
September	Mon May 2, 2022	Fri May 6, 2022	Mon May 23, 2022	Fri Jun 3, 2022	Fri Jul 8, 2022	Mon Jul 11, 2022	Tue Aug 2, 2022	Tue Aug 9, 2022	Fri Aug 12, 2022	Mon Aug 15, 2022	Tue Aug 16, 2022	Tue Aug 30, 2022	September 7 & 8
October	Tue May 31, 2022	Fri Jun 3, 2022	Mon Jun 20, 2022	Fri Jul 8, 2022	Fri Aug 5, 2022	Mon Aug 8, 2022	Tue Aug 30, 2022	Tue Sep 6, 2022	Fri Sep 9, 2022	Mon Sep 12, 2022	Wed Sep 14, 2022	Wed Sep 28, 2022	October 6 & 7
November	Tue Jul 5, 2022	Fri Jul 8, 2022	Mon Jul 25, 2022	Fri Aug 5, 2022	Fri Sep 2, 2022	Tue Sep 6, 2022	Tue Sep 27, 2022 <i>Rosh Hashanah</i>	Tue Oct 4, 2022	Fri Oct 7, 2022	Mon Oct 10, 2022	Tue Oct 11, 2022	Tue Oct 25, 2022	November 2 & 3
December	Mon Aug 1, 2022	Fri Aug 5, 2022	Mon Aug 22, 2022	Fri Sep 2, 2022	Fri Sep 30, 2022	Mon Oct 3, 2022	Tue Oct 25, 2022	Tue Nov 1, 2022	Fri Nov 4, 2022	Mon Nov 7, 2022	Wed Nov 9, 2022	Tue Nov 22, 2022	December 1 & 2
January	Tue Sep 6, 2022	Fri Sep 9, 2022	Mon Sep 26, 2022 <i>Rosh Hashanah</i>	Fri Sep 30, 2022	Fri Nov 4, 2022	Mon Nov 7, 2022	Tue Nov 29, 2022	Tue Dec 6, 2022	Fri Dec 9, 2022	Mon Dec 12, 2022	Wed Dec 14, 2022	Wed Dec 28, 2022	January 5 & 6
February	Mon Oct 3, 2022	Fri Oct 7, 2022	Mon Oct 24, 2022	Fri Nov 4, 2022	Fri Dec 2, 2022	Mon Dec 5, 2022	Tue Dec 27, 2022	Tue Jan 3, 2023	Fri Jan 6, 2023	Mon Jan 9, 2023	Tue Jan 10, 2023	Tue Jan 24, 2023	February 1 & 2
March	Mon Oct 31, 2022	Fri Nov 4, 2022	Mon Nov 21, 2022	Fri Dec 2, 2022	Fri Jan 6, 2023	Mon Jan 9, 2023	Tue Jan 31, 2023	Tue Feb 7, 2023	Fri Feb 10, 2023	Mon Feb 13, 2023	Mon Feb 13, 2023	Mon Feb 27, 2023	March 7 & 8
April	Mon Dec 5, 2022	Fri Dec 9, 2022	Tue Dec 27, 2022	Fri Jan 6, 2023	Fri Feb 3, 2023	Mon Feb 6, 2023	Tue Feb 28, 2023	Tue Mar 7, 2023	Fri Mar 10, 2023	Mon Mar 13, 2023	Mon Mar 13, 2023	Mon Mar 27, 2023	April 4 & 5
May	Mon Jan 2, 2023 <i>Day after New Year's Day</i>	Fri Jan 6, 2023	Mon Jan 23, 2023	Fri Feb 3, 2023	Fri Mar 3, 2023	Mon Mar 6, 2023	Tue Mar 28, 2023	Tue Apr 4, 2023	Fri Apr 7, 2023 <i>Good Friday</i>	Mon Apr 10, 2023	Wed Apr 12, 2023	Wed Apr 26, 2023	May 4 & 5
June	Mon Jan 30, 2023	Fri Feb 3, 2023	Tue Feb 21, 2023	Fri Mar 3, 2023	Fri Mar 31, 2023 <i>Cesar Chavez Day</i>	Mon Apr 3, 2023	Tue Apr 25, 2023	Tue May 2, 2023	Fri May 5, 2023	Mon May 8, 2023	Wed May 10, 2023	Wed May 24, 2023	June 1 & 2
July	Mon Mar 6, 2023	Fri Mar 10, 2023	Mon Mar 27, 2023	Fri Mar 31, 2023 <i>Cesar Chavez Day</i>	Fri May 5, 2023	Mon May 8, 2023	Tue May 30, 2023	Tue Jun 6, 2023	Fri Jun 9, 2023	Mon Jun 12, 2023	Wed Jun 14, 2023	Wed Jun 28, 2023	July 6 & 7
August	Mon Apr 3, 2023	Fri Apr 7, 2023 <i>Good Friday</i>	Mon Apr 24, 2023	Fri May 5, 2023	Fri Jun 2, 2023	Mon Jun 5, 2023	Fri Jun 23, 2023	Fri Jun 30, 2023	Fri Jul 7, 2023	Mon Jul 10, 2023	Tue Jul 11, 2023	Tue Jul 25, 2023	August 2 & 3



# When do we need Construction Management Plans?



COUNTY: LEE  
PROJECT: C 334-3-21  
CONTROL: 0334-03-021  
HIGHWAY: FM 696  
LIMITS FROM: FM 112  
LIMITS TO: SL 123

## *Right-of-Way Status*

This is to certify that acquisition of right-of-way was not required for this project.

## *Relocation Status*

This is to certify that this project did not cause any displacement and the steps relative to relocation advisory assistance and payments under the current State requirement(s) covering the administration of the Highway Relocation Assistance Program were not required.

## *Utility Status*

This is to certify that utility adjustments have been completed for this project.

## *Encroachment Status*

This is to certify that no right-of-way encroachments existed within the limits of this project or all removals of right-of-way encroachments have been completed.

## *Railroad Status*

This is to certify that no railroad work was required for this project.

Recommended by:

*Mark W. Litzmann P.E.*

Mark W. Litzmann, P.E.  
Project Manager  
January 5<sup>th</sup>, 2021

DocuSigned by:

*Hester Ashley Nguyen*

For District Engineer  
Austin District

2/4/2021

Date

A Certification Memo for

Right-of-Way Status

Relocation Status

Encroachment Status

Railroad Status

Utility Status

Is required to be included with every set of PS&E package submitted for letting.

# When do we need Construction Management Plans



## MEMO

March 7, 2016

To: District Engineers  
From: William L. Hale, P.E. *William L. Hale*  
Chief Engineer  
Subject: Ready to Let (RTL) Definition for Construction Projects

As we continue transitioning toward effectively managing each project, it is important to again emphasize that our ultimate goal is to deliver and complete transportation improvements for the people of Texas in the most efficient and expeditious manner possible. The portfolio funnel, dashboards, and tools are now in place and being utilized by all district offices. Each of you had the opportunity to recently participate in open discussions with your staff, division/district offices, and the Administration, in order to gauge and better understand this new project development process.

The process being implemented with renewed emphasis on portfolio and project management, resource and budget needs will assist in building the department's Legislative Appropriations Request (LAR) for the next biennium ensuring our ability to execute and deliver. Equally important, we will be better informed on the status of our projects through this process to help us identify project needs such as right of way acquisition, utility adjustments, PS&E, schematic design, environmental and railroad coordination. Ultimately, we should be able to make better decisions in scheduling projects for letting that meet our 'Ready to Let' definition.

Delivering transportation improvements drives our business and will continue to be measured. It is essential that our performance standard for 'ready to let' projects be elevated and defined to ensure consistency in project letting preparation to meet our goal. Therefore, through detailed workshops attended by district and division offices the 'Ready to Let' definition as outlined below was developed and will be implemented on all construction projects effective immediately.

- ENV cleared and ENV mitigation complete (cleared sufficiently to proceed into construction without delays)
- ENV permits secured (cleared sufficiently to proceed into construction without delays)
- ROW cleared (cleared sufficiently to proceed into construction without delays)
- 100% PS&E (includes completed and approved schematic)
- Project agreements in place (includes local funding being received or an amount sufficiently received to proceed into construction without delays)
- Railroad coordination complete and agreement in place
- Utility agreements in place and relocations in progress (cleared sufficiently to proceed into construction without delays)
- The above and any other remaining issues to be cleared in < 3 months

OUR GOALS  
MAINTAIN A SAFE SYSTEM • ADDRESS CONGESTION • CONNECT TEXAS COMMUNITIES • BEST IN CLASS STATE AGENCY

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Definition of Ready to Let (Bill Hale memo, March 2016) :

- ROW acquired
- Utility conflicts cleared
- Railroad coordination completed
- All of the above completed by the beginning of the 3rd month after letting

1. Goal is for all projects to be clear at the time of letting
2. *If not clear at letting, then by the beginning of the 3rd month after letting*
3. *If not clear within three months, then a Construction Management Plan is required*



A **Construction Management Plan (CMP)** is an executive summary of the steps that will be shown in the plans to complete the project while mitigating the risk of delays in construction due to unclear project certifications including right-of-way (ROW) acquisition, ROW encroachments, ROW relocation, utility conflicts, and/or outstanding railroad agreements.

# What is a Construction Management Plan?



## MEMO

July 7, 2021

**To:** Marisabel Ramthun, P.E.  
Director, Design Division

**Through:** Max Proctor, P.E.  
Processing Director, Design Division

**From:** Heather Ashley-Nguyen, P.E.  
Director of Transportation Planning & Development, Austin District

**Subject:** CSJ 0273-04-048, US 183 from RM1869 to CR258 - Construction Management Plan

I am requesting the approval of this Management Plan for the US 183 from RM 1869 to CR 258 project in Williamson County. The project is scheduled to be let in August 2021. This project was accelerated to an August 2021 letting due to the identification of Road to Zero (RTZ) funds that are available to construction this project and provide much needed safety improvement.

Utilities have been coordinated and are to be relocated by April 2022 (AT&T) and Sept 2022 (City of Georgetown) as shown in the Attachment A - Project Certification (Exhibit A). It is anticipated that the risk of the utility conflicts with construction has been minimized by the following coordination/contract provision:

Award of contract timeframe will occur prior to clearance date as show in Attachment B - Project Schedule. AT&T Copper and Fiber relocations are proposed to be complete (April 2022) prior to beginning construction Phase Northbound Widening (June 2022; 2 month buffer without delay start included). City of Georgetown Water conflict is to be cleared September 2022 and the Area Office intends to work with contractor to avoid relocation through mitigation efforts during construction and do not believe that the conflict will remain during construction.

Unrelated to the Utility relocations, this project includes a 3 month delayed start to allow for contractor convenience in selecting the appropriate construction start time. Although not related, this will be of benefit to the project as it will increase the buffer to approximately 4.5 months buffer of additional risk mitigation.

OUR VALUES: People • Accountability • Trust • Honesty

OUR MISSION: Through collaboration and leadership, we deliver a safe, reliable, and integrated transportation system that enables the movement of people and goods.

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## Request Memo

Cover letter for the Construction Management Plan.

- Description of project and overall scope of work.
- Summary of outstanding ROW, Utilities, or railroad agreements.
- Request for approval of plan
- Signed by District Engineer or District TP&D.

# What is a Construction Management Plan?



## Utility Conflict List

List all utility conflicts that will remain unclear past letting.

- Name of the utility owner.
- Description of location of the conflict with the project.
- Estimated date of completion of relocation.
- Detail the effect on construction by showing the
- Length of Buffers

OWNER	UTILITY AND LOCATION	STATUS	EST. COMPLETION DATE	EFFECT ON CONSTRUCTION
AT&T	Communications Sta 617+78 (Varies RT) to Sta 619+52 (Varies RT)	Under Construction	4/1/2022	No Impact on Construction; To be relocated prior to Phase 1B
AT&T	Communications Sta 617+86 (Varies LT) to Sta 643+19 (Varies LT)	Under Construction	4/1/2022	No Impact on Construction; To be relocated prior to Phase 1B
AT&T	Communications (FIBER) Sta 535+76 (44' LT) to Sta 576+06 (42' LT)	Under Construction	4/1/2022	No Impact on Construction; To be relocated prior to Phase 1B

# What is a Construction Management Plan?



## Phase Narrative

- Breakdown of the project into the individual phases
- Description of the activities that will be completed in each phase
- Should include description of areas that will not be available to the contractor during each phase
- Should be actual sheet from the plan set

**GENERAL NOTES**

1. CONSTRUCT THE ROADWAY UNDER TRAFFIC CONTROL PLAN PROVIDED. THIS WORK WILL BE CONSIDERED SUBORDINARY TO TRM USE. SETUP TRAFFIC CONTROL AS PER PLANS. CONTRACTOR MAY USE VERTICAL PANELS OR BARRIERS.
2. RESPONSIBLE FOR CURB CONTROL AS DIRECTED BY THE ENGINEER. THIS WORK WILL NOT BE PAID FOR DIRECTLY BUT WILL BE CONSIDERED SUBORDINARY.
3. INCORPORATE 3:1 SAFETY MARGINS FOR ALL DROP OFFS GREATER THAN TWO (2) INCHES LEFT OVERNIGHT. CONSIDER THIS SUBORDINARY TO THE VARIOUS ITEMS.
4. MAINTAIN POSITIVE DRAINAGE THROUGHOUT THE PROJECT SITE TO REMOVE PONDING WHERE EVER POSSIBLE.
5. SEQUENCE OF CONSTRUCTION MAY BE CHANGED WITH PRIOR APPROVAL FROM THE ENGINEER.
6. SEE STANDARDS BE & WE FOR TYPE AND LOCATION OF ALL ADVANCE SIGNS.
7. CONSTRUCTOR TO BE RESTRICTED TO WORK ONLY 1.5 HOLES, UNLESS APPROVED BY ENGINEER.

**SEQUENCE OF WORK**

THE ANTICIPATED SEQUENCE OF WORK IS TO INSTALL NEW PAVEMENT FOR PROPOSED WIDEN AND FULL BOUTH RECONSTRUCTION SECTION IN PHASE 1 AND COMPLETION OF SURFACE TREATMENT AND REMAINING WORK IN PHASE 2.

THE FOLLOWING SEQUENCE OF WORK IS THE METHOD OF PROSECUTION OF THE CONSTRUCTION ACTIVITIES OF THIS PROJECT. THIS SEQUENCE OF WORK MAY BE REVERSED WITH THE APPROVAL OF THE ENGINEER.

**PHASE 1A SOUTHBOUND**

PHASE 1A CONSISTS OF PAVEMENT WIDENING, WIDENING OF EXISTING CULVERTS AND CONSTRUCTING RETAINING WALLS (IF APPLICABLE, SEE PLANS). SEE TOP TYPICAL SECTIONS FOR MORE DETAILS.

1. PLACE SIGNS AND BARRICADES AS SHOWN IN THE PLANS AND APPLICABLE BY STANDARDS. THE REMOVAL WORK AND SHEETING OF TRAFFIC SHALL BE ACCOMPLISHED DURING THE SAME WORK PERIOD.
2. INSTALL EROSION CONTROL DEVICES AS DIRECTED BY THE ENGINEER. TREE PROTECTION TO BE INSTALLED AND TO REMAIN IN PLACE UNTIL COMPLETION OF PROJECT.
3. REMOVE EXISTING STRIPING AND PLACE WORK ZONE STRIPING AS SHOWN ON TOP TYPICAL.
4. PREPARE RIGHT OF WAY.
5. WIDEN EXISTING CULVERTS (EXTENDING THE DOWNSTREAM PORTION OF THE CROSS DRAINAGE STRUCTURE FIRST), INSTALL SETS, AND CONSTRUCT RETAINING WALLS (IF APPLICABLE, SEE PLANS).
6. SAWCUT, EXCAVATE, AND PREPARE SUBGRADE.
7. REGRADE ROAD-SIDE DITCHES IN ACCORDANCE WITH CDP.
8. INSTALL WEARED PAVEMENT STRUCTURE AS SHOWN IN THE PLANS (WITH THE EXCEPTION OF FINAL ONE COURSE SURFACE TREATMENT).
9. RECONSTRUCT DRIVEWAYS AND CROSS STREETS AND INSTALL PARALLEL DRAINAGE/SETS.

**PHASE 1B NORTHBOUND**

CONTRACTOR TO BEGIN PHASE 1B AFTER COMPLETION OF PHASE 1A, UNLESS APPROVED BY ENGINEER.

PHASE 1B CONSISTS OF PAVEMENT WIDENING, WIDENING OF EXISTING CULVERTS AND CONSTRUCTING RETAINING WALLS (IF APPLICABLE, SEE PLANS). SEE TOP TYPICAL SECTIONS FOR MORE DETAILS.

1. PLACE SIGNS AND BARRICADES AS SHOWN IN THE PLANS AND APPLICABLE BY STANDARDS. THE REMOVAL WORK AND SHEETING OF TRAFFIC SHALL BE ACCOMPLISHED DURING THE SAME WORK PERIOD.
2. INSTALL EROSION CONTROL DEVICES AS DIRECTED BY THE ENGINEER. TREE PROTECTION TO BE INSTALLED AND TO REMAIN IN PLACE UNTIL COMPLETION OF PROJECT.
3. REMOVE EXISTING STRIPING AND PLACE WORK ZONE STRIPING AS SHOWN ON TOP TYPICAL.
4. PREPARE RIGHT OF WAY.
5. WIDEN EXISTING CULVERTS (EXTENDING THE DOWNSTREAM PORTION OF THE CROSS DRAINAGE STRUCTURE FIRST), INSTALL SETS, AND CONSTRUCT RETAINING WALLS (IF APPLICABLE, SEE PLANS).
6. SAWCUT, EXCAVATE, AND PREPARE SUBGRADE.
7. REGRADE ROAD-SIDE DITCHES IN ACCORDANCE WITH CDP.
8. INSTALL WEARED PAVEMENT STRUCTURE AS SHOWN IN THE PLANS (WITH THE EXCEPTION OF FINAL ONE COURSE SURFACE TREATMENT).
9. RECONSTRUCT DRIVEWAYS AND CROSS STREETS AND INSTALL PARALLEL DRAINAGE/SETS.

**PHASE 2**

PHASE 2 CONSISTS OF COMPLETING THE SURFACE TREATMENT AND REMAINING WORK ON THE PROJECT.

1. INSTALL PERMANENT SIGNS AS SHOWN IN THE PLANS.
2. MULL & SEAL AND TIEH PLACE FINAL OVERLAY. (SEE TRAFFIC CONTROL DETAILS FOR SURFACING OPERATIONS TOP 17-13-13)
3. AFTER THE SURFACE TREATMENT HAS CURED, UTILIZE TOP 13-11-13 & TOP 13-11-14 TO PLACE PAVEMENT MARKINGS AND (SEE PAVEMENT MARKINGS LAYOUT).
4. PERFORM FINAL CLEAN UP.
5. OPEN ALL LANES TO TRAFFIC.
6. REMOVE TEMPORARY EROSION CONTROL DEVICES ONCE VEGETATION IS ESTABLISHED AND APPROVED BY THE ENGINEER.

DATE: 7/6/2021 3:41:00 PM  
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NO.	REV.	BY	DATE

STATE OF TEXAS  
SEAL OF THE STATE ENGINEER  
7/6/2021  
M. Adil Mohammed P.E.

LTRA  
LARRY F. EMMETT & ASSOCIATES, INC.  
3325 West Loop Rd  
P.O. Box 5000  
Pflugerville, Texas 78659  
Professional No. 7-182

Texas Department of Transportation

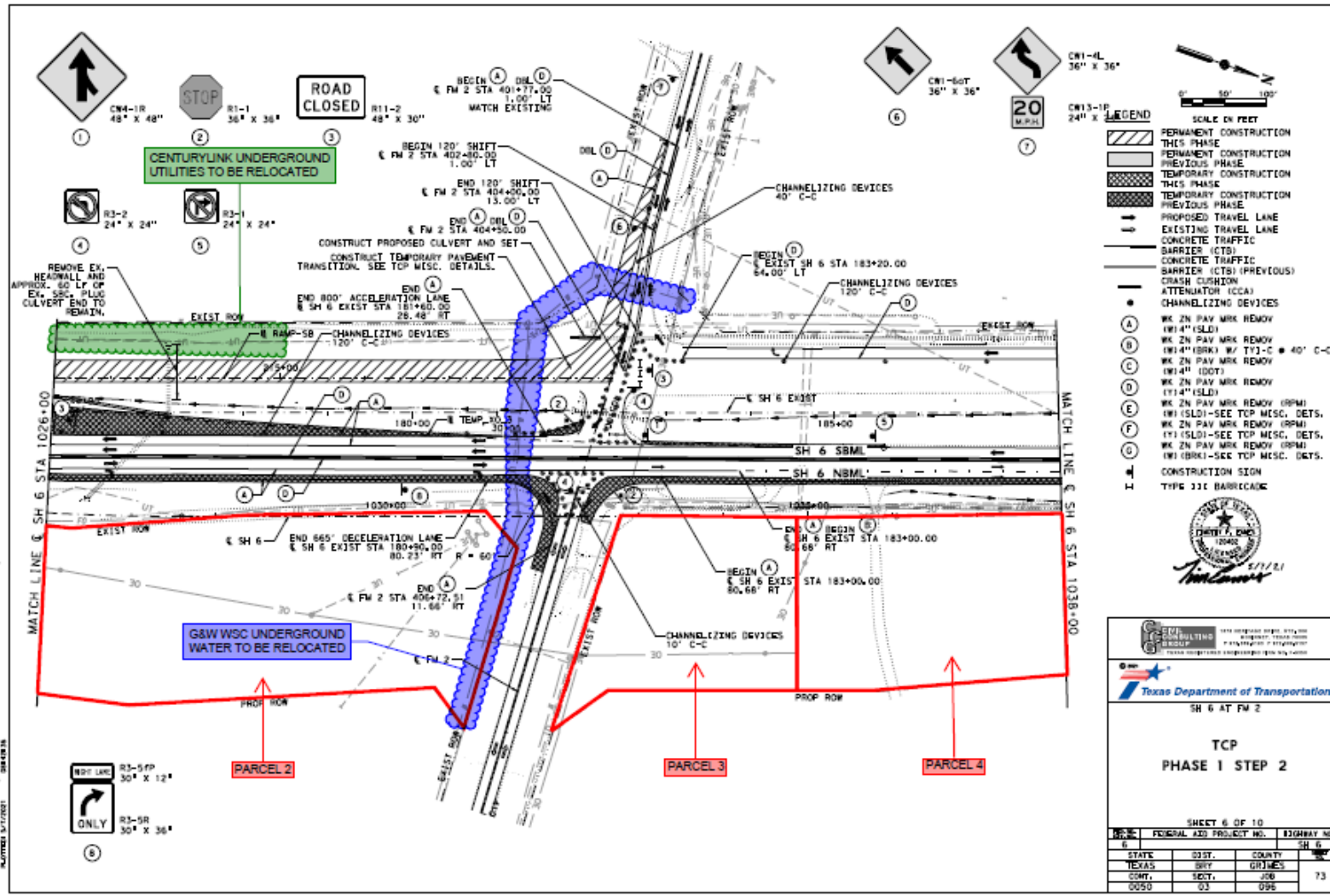
US 183  
SEQUENCE OF WORK

SHEET 1 OF 1

NO.	REV.	DATE	BY	APP.
001	04	04/8, 2021	US 183	
002	04	04/8, 2021	US 183	
003	04	04/8, 2021	US 183	
004	04	04/8, 2021	US 183	

AUS WELLERSON 19

# What is a Construction Management Plan?



## Traffic Control Layouts

- Clearly identify workzones for each phase of construction.
- Clearly identify all areas that will not be available to the contractor in each phase
  - Utility conflicts
  - ROW acquisition
  - Railroad coordination
- Should be actual plan sheet from plan set.

# What is a Construction Management Plan?



## Construction Time Determination

SH 6 AT FM 2 CSJ: 0050-03-096			Contract Time Determination - Final																																
Activity ID	Activity Name	Original Duration	Start	Finish	2022 2023 2024																														
					J	F	M	A	M	J	Jul	A	S	O	N	D	J	F	M	A	M	J	Jul	A	S	O	N	D	J	F	M	A	M	J	Jul
<b>0050-03-096 0050-03-096 SH 6</b>					[Gantt chart bars for 2022-2024]																														
A1001	Contract Days	579	01/03/2022	01/03/2025	[Gantt bar]																														
A1005	Drain & Dewater Existing Ponds	260	01/04/2022	01/19/2023	[Gantt bar]																														
<b>0050-03-096.1 PHASE 1 STEP 1</b>					[Gantt bar]																														
A1010	Advance Warning Signs	5	01/03/2022	01/10/2022	[Gantt bar]																														
A1020	Prep Row	2	01/03/2022	01/04/2022	[Gantt bar]																														
A1030	Install Erosion Control	5	01/03/2022	01/10/2022	[Gantt bar]																														
A1040	Plane Asphalt Concrete Pavement (0"-1.25")	3	01/11/2022	01/14/2022	[Gantt bar]																														
A1050	PFC	2	01/14/2022	01/17/2022	[Gantt bar]																														
A1060	Remove Exist Pav Mfrk & Install WZ Pav Mfrk	2	01/18/2022	01/20/2022	[Gantt bar]																														
A1070	Construct Temporary Crossover Ramp 1	4	01/18/2022	01/24/2022	[Gantt bar]																														
A1080	Partially Construct Temporary Crossover Ramp 3	2	01/21/2022	01/24/2022	[Gantt bar]																														
A1090	Construct Temporary Widening	4	01/25/2022	02/01/2022	[Gantt bar]																														
A1100	Partially Construct Culvert 1	1	02/01/2022	02/01/2022	[Gantt bar]																														
A1110	Construct Temporary Crossover Ramp 4	8	02/03/2022	02/15/2022	[Gantt bar]																														
<b>0050-03-096.2 PHASE 1 STEP 2</b>					[Gantt bar]																														
A1120	Remove Exist Pav Mfrk & Install WZ Pav Mfrk	2	02/17/2022	02/18/2022	[Gantt bar]																														
A1130	Install/Move Port CTB	6	02/21/2022	03/03/2022	[Gantt bar]																														
A1140	Remove SBML Structure (Bridge 100-499 FT)	7	03/04/2022	03/15/2022	[Gantt bar]																														
A1150	SBML Drill Shafts	13	03/17/2022	04/11/2022	[Gantt bar]																														
A1160	SBML Concrete Abutments	7	04/12/2022	04/22/2022	[Gantt bar]																														
A1170	SBML Concrete Bent (Multi-Column)	10	04/25/2022	05/12/2022	[Gantt bar]																														
A1180	Bent Curing	3	05/13/2022	05/17/2022	[Gantt bar]																														
A1190	SBML Concrete Girder	4	05/19/2022	05/24/2022	[Gantt bar]																														
A1200	SBML Bridge Deck	14	05/26/2022	06/21/2022	[Gantt bar]																														
A1210	Deck Curing	8	06/23/2022	07/07/2022	[Gantt bar]																														
A1220	SBML Concrete Rail	3	07/08/2022	07/12/2022	[Gantt bar]																														
A1230	Partially Construct Storm Sewer D1	1	07/08/2022	07/08/2022	[Gantt bar]																														
A1240	Construct Culvert Extension G1	1	07/11/2022	07/11/2022	[Gantt bar]																														
A1250	SBML, SB RAMP, FM 2 Excavation & Embankment	22	07/12/2022	08/19/2022	[Gantt bar]																														
A1260	SBML, SB RAMP, FM 2 Cement Treatment	4	08/22/2022	08/28/2022	[Gantt bar]																														
A1270	SBML, SB RAMP, FM 2 Flex Base	3	08/29/2022	09/05/2022	[Gantt bar]																														
A1280	SBML, SB RAMP, FM 2 One Course Surface Treat	1	09/06/2022	09/06/2022	[Gantt bar]																														
A1300	FM 2 Bonding Course & SP-C	2	09/08/2022	09/09/2022	[Gantt bar]																														
A1320	Construct Temporary Widening	2	09/12/2022	09/13/2022	[Gantt bar]																														
A1330	Partially Construct Temporary Crossover Ramp 3	5	09/15/2022	09/22/2022	[Gantt bar]																														
A1331	SBML, SB RRAMP Bonding Course, Tack, & SP-1	9	09/23/2022	10/10/2022	[Gantt bar]																														
A1332	SBML Bridge Approach Cement Treatment	2	10/11/2022	10/13/2022	[Gantt bar]																														
A1334	SBML Bridge Approach One Course Surface Treat	1	10/14/2022	10/14/2022	[Gantt bar]																														

- Should be based on a Critical Path Method (CPM) schedule.
- Recommend adding utility clearances and associated dependencies.
- Avoid extending overall duration of the project while avoid the areas impacted by unclear utilities.
- Minimize contractor mobilizations by avoiding multiple small work zones.



# Planned vs Actual Certification Dates Clear ROW/Util/RR and Unclear ROW/Util/RR



1824 State Let Projects Mar 2020 to Jul 2022

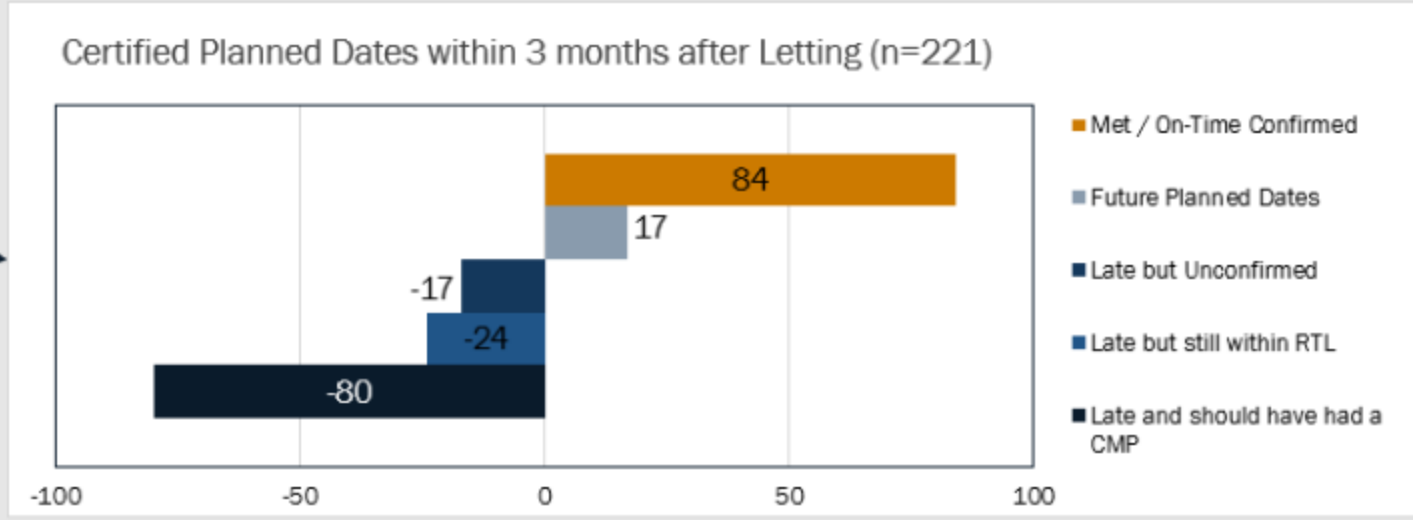
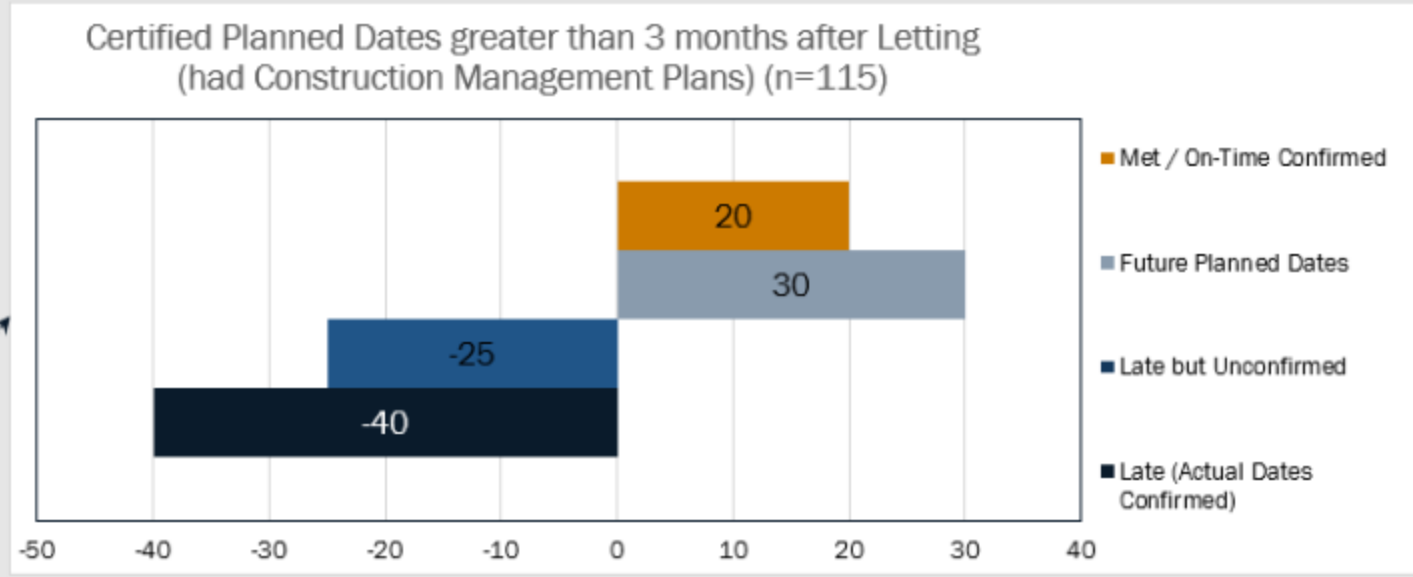
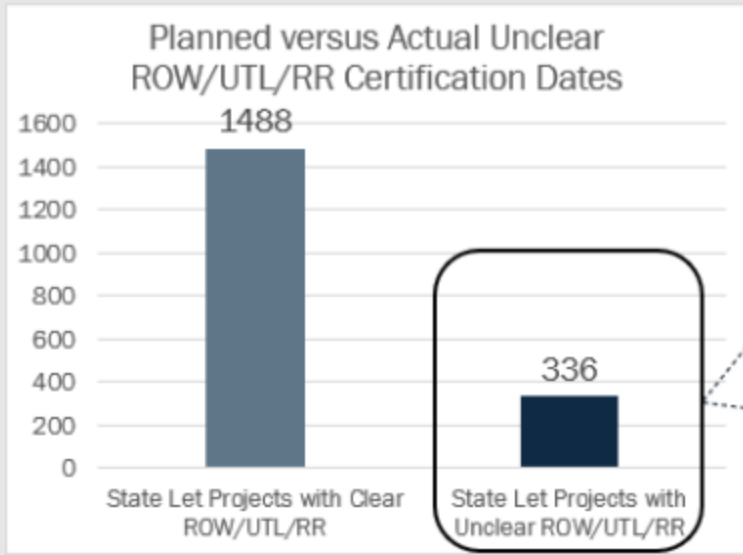
1488 (82%) State Let Projects With Clear ROW/UTL/RR

336 (18%) State Let Projects With Unclear ROW/UTL/RR

**186 (55%) Did not meet certified planned dates (late)**

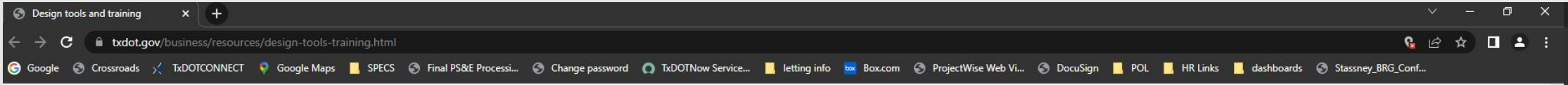
104 (31%) Met certified planned dates

47 (14%) Future planned dates





# Design Division Tools and Information



## Interstate Access Justification Report (IAJR)

- [Standard operating procedures \(SOP\)](#)
- [Interstate Access Justification Report \(IAJR\) Presentation](#)

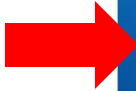
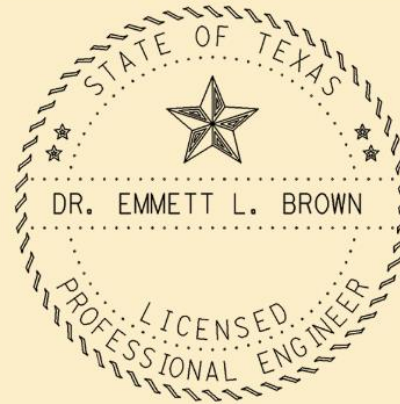
## Atlas 14 rainfall intensity tools

- [EBDLKUP user manual](#)
- [EBDLKUP-2019 spreadsheet](#)
- [EBDLKUP IDF zones](#)

## 100% PS&E preparation and submittal

- [Electronic plan set guidance](#)
- [100% PS&E pre-submittal preparation](#)
- [100% PS&E submittal to Design Division](#)

[ePS&E helper manual](#)



## Estimate Quantity Summary

- Develop plan estimates.
- Create quantity summary sheets.
- Bulk upload to TxDOTCONNECT.

[Access resources and demo](#)



<https://www.txdot.gov/business/resources/design-tools-training.html>

# Questions?

