



CENTRAL TEXAS REGIONAL  
**MOBILITY AUTHORITY**

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# Regular Meeting of the Board of Directors

October 31, 2018



CENTRAL TEXAS REGIONAL  
**MOBILITY AUTHORITY**

A blue-tinted photograph of a road with a sign that reads "NORTH 183 A TOLL". The road is paved and has a concrete barrier on the right side. There are utility poles and trees in the background. The sky is blue with some clouds.

# 1 Welcome and Opening Remarks by the Chairman and members of the Board of Directors



A blue-tinted photograph of a highway. In the foreground, a concrete barrier with rounded posts runs along the right side of the road. The road surface is visible with white lane markings. In the distance, a signpost holds three signs: 'NORTH', '183 A', and a 'TOLL' sign with a circular arrow icon. To the right of the road, there are utility poles and a fence. The background shows a large building on the left and a clear sky with some clouds.

## 2 Opportunity for public comment

The background image shows a perspective view of a multi-lane road stretching into the distance. On the right side of the road, there is a concrete barrier with rounded posts. Further right, a signpost holds three signs: 'NORTH', '183 A', and a 'TOLL' sign with a circular arrow icon. Utility poles and power lines are visible along the right side of the road. The sky is blue with some clouds. The entire image is overlaid with a semi-transparent blue filter.

> **Consent Agenda**  
**Agenda Item 3**

Bill Chapman, Chief Financial Officer

**3 Approve the annual compliance report for submittal to the Texas Department of Transportation as required by 43 Texas Administrative Code §26.65**



A blue-tinted photograph of a road with a sign that reads "NORTH 183 A TOLL". The road is paved and has a concrete barrier on the right side. There are utility poles and trees in the background. The sky is blue with some clouds.

> **Regular Items**  
**Agenda Items 4-11**

The background image shows a perspective view of a multi-lane highway stretching into the distance. On the right side of the road, there is a tall signpost with three signs: 'NORTH', '183 A', and a circular sign with a right-pointing arrow and the word 'TOLL'. The sky is blue with some light clouds. The entire image has a blue color overlay.

4

**Dedicating certain bridges on the Manor Expressway (290E) Phase III Project in honor of the service provided by former Mobility Authority Board Member James H. Mills**



Geoff Petrov, Legal Counsel

**5 Approve the minutes from the  
September 26, 2018 Regular Board  
meeting**

Mary Temple, Controller

**6 Accept the financial statements for  
September 2018**

NORTH  
183 A  
TOLL



Bill Chapman, Chief Financial Officer

7

**Consider and take appropriate action to authorize the Authority's staff and consultants to take such actions as may be necessary to apply for and negotiate the terms of a loan agreement with the United States Department of Transportation to refinance certain debt obligations relating to the 290 E Phase III Project**

Bill Chapman, Chief Financial Officer

**8 Discuss and consider modifying the annual toll rate escalation becoming effective on January 1, 2019**



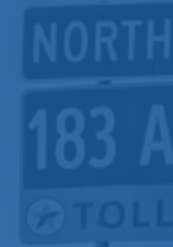


### January 2019 Toll rate Calculation 183A , 290E and 71E

		Current Rate	CPI <sup>t-12</sup>	CPI <sup>t</sup>	(CPI <sup>t</sup> -CPI <sup>t-12</sup> )/CPI <sup>t-12</sup>	CPIu Increase	New Toll rates 1/1/19	2015 Original 183A Toll Schedule	2020 Original 183A Toll Schedule	
			CPI base Rate Sep 2017	CPI current Rate Sep 2018	CPI Adjustment 1/1/19					
<b>183A</b>										
	Crystal Falls ramps	ETC	\$ 0.42	246.819	252.439	2.27697%	\$ 0.01	\$ 0.43		
	Crystal Falls Main Lane	ETC	\$ 1.07	246.819	252.439	2.27697%	\$ 0.02	\$ 1.09		
	Scottsdale Ramp	ETC	\$ 0.60	246.819	252.439	2.27697%	\$ 0.01	\$ 0.61		
	Park Street mainlane	ETC	\$ 1.51	246.819	252.439	2.27697%	\$ 0.03	\$ 1.54	\$ 2.00	
	Brushy Creek Ramps	ETC	\$ 0.60	246.819	252.439	2.27697%	\$ 0.01	\$ 0.61	\$ 0.75	
	Lakeline Main Lane	ETC	\$ 0.56	246.819	252.439	2.27697%	\$ 0.01	\$ 0.57	\$ 0.70	
									\$ 2.25	
									\$ 1.00	
									\$ 0.90	
<b>Manor</b>										
	183 Direct Connectors	ETC	\$ 0.57	246.819	252.439	2.27697%	\$ 0.01	\$ 0.58		
	Springdale ramps	ETC	\$ 0.57	246.819	252.439	2.27697%	\$ 0.01	\$ 0.58		
	Giles ramps	ETC	\$ 0.57	246.819	252.439	2.27697%	\$ 0.01	\$ 0.58		
	Giles Main Lanes	ETC	\$ 1.15	246.819	252.439	2.27697%	\$ 0.03	\$ 1.18		
	Harris Branch Parkway ramps	ETC	\$ 0.57	246.819	252.439	2.27697%	\$ 0.01	\$ 0.58		
	Parmer Main Lanes	ETC	\$ 0.57	246.819	252.439	2.27697%	\$ 0.01	\$ 0.58		
<b>71E</b>		ETC	\$ 0.89	246.819	252.439	2.27697%	\$ 0.02	\$ 0.91		
<b>MoPAC ML</b>	minimum toll	ETC	\$ 0.25					\$ 0.30		
<b>45SW</b>	Opening Toll Rate	ETC	Effective when open through calendar year 2019					\$ 1.00		

Bill Chapman, Chief Financial Officer

**9 Approve a toll rate for the SH 45SW Project**





Tracie Brown, Director of Operations

10

**Amend Mobility Authority Policy Code Chapter 3, Article 1, Subchapter A, Toll Rates & B, Toll Collections to change the escalation methodology for the minimum toll rate on the MoPac Express Lanes; implement the Qualified Veterans Discount Program, the Habitual Violator Policy and the new Pay By Mail Program adopted by the Board; update provisions related to tag transponder usage to address interoperability; and, prohibit vehicles weighing more than one ton from using the tolled express lanes**



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## Proposed Policy Code Amendments

- Item seeks to make various changes to the *Mobility Authority's Policy Code* to:
  - codify recent Board actions;
  - clarify language where needed; and
  - update to reflect certain operational elements.





# Proposed Policy Code Amendments

- **Section 301.2, Toll Rates**

“The minimum toll rate per segment will be adjusted annually in accordance with the methodology set for toll rate escalation in Section 301.003.”

- Amended to adjust the minimum toll annually by \$0.05 per segment until the minimum toll rate per segment is \$0.50, at which point the annual adjustment will follow policy.
  - *Adjusts for inflation and allows for gradual increase to expected minimum toll for other managed lane projects*



## Proposed Policy Code Amendments

- **Section 301.4, Exemption from Toll**

“(a) An authorized emergency vehicle defined by Section 541.201; (b) a state or federal military vehicle under Section 362.901; and (c) transit program vehicles established and managed by CapMetro and CARTS are exempt from paying a toll to use an authority toll facility.”

- Amended to add new exemption for qualified veterans discount program participants
  - *Codifies Board approval of qualified veteran discount program*



# Proposed Policy Code Amendments

- **Section 301.5, Discounts and Incentives**

“Transponder programs that are interoperable with the authority’s facilities include TxDOT’s TxTag, HCTRA’s EZ Tag and NTTA’s Toll Tag.”

- Amended to indicate that accepted interoperable transponders are listed on the Authority’s website
  - *Alleviates the need for future policy code amendments as additional transponder products become interoperable*





# Proposed Policy Code Amendments

- **Section 301.7, Transponder Accounts**

“A transponder that is interoperable with the authority’s toll facilities is for use with one vehicle per transponder, and should not be transferred to another vehicle...”

- Amended to recognize that transponders are an accepted form of payment and subject to their own user agreements.
  - *Alleviates the need for future policy code amendments as additional tag products become interoperable.*



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## Proposed Policy Code Amendments

- **Section 301.8, Unauthorized Use of Transponder**

“A transponder that is interoperable with the authority’s toll facilities is for use with one vehicle per transponder, and should not be transferred to another vehicle...”

- Deleted section as the authorized use of each interoperable transponder is regulated and enforced by the transponder issuers.



## Proposed Policy Code Amendments

- **Section 301.9, Video Billing**

“The Collections Contractor will send an invoice to the registered owner of the vehicle and accept payment on behalf of the authority. The Collections Contractor will add a \$1.00 handling fee for each invoice. The Collections Contractor will retain the additional toll surcharge and handling fee to cover their cost and forward the toll payments to the authority. All toll bills/invoices require payment within 30 days of the date thereof.”

- Amended to be consistent with the new Pay By Mail program.
  - *Alleviates the need for future policy code amendments as fee or process changes are approved*





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# Proposed Policy Code Amendments

- **Section 301.10, Establishment of Administrative Fees for Unpaid Tolls**
  - Amended to be consistent with the new Pay By Mail program approved by the Board.
    - *Alleviates the need for future policy code amendments as fee or process changes are approved*



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# Proposed Policy Code Amendments

- **Section 301.11, Customer Service and Violation Policies**
  - Amended to add “Enforcement” to section title
  - Amended to include additional administrative fees and collection activities as non-payment penalties
  - Amended to include habitual violator enforcement remedies, clarify the Board’s role in prohibiting vehicles and explain the customer’s right to appeal a habitual violator determination.
    - *Alleviates the need for future policy code amendments as fee or process changes are approved*



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## Proposed Policy Code Amendments

- **Section 301. 21, Vehicles Prohibited in an Express Lane**

“No person shall operate a vehicle with (a) more than two axles or (b) towing a trailer on an authority facility designated as a tolled express lane that has variable rate tolls.”

- Amended to add that vehicles weighing more than one ton are not allowed to operate on tolled express lanes.





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## Staff Recommendation

- Approve the proposed policy code changes.

Justin Word, P.E., Director of Engineering

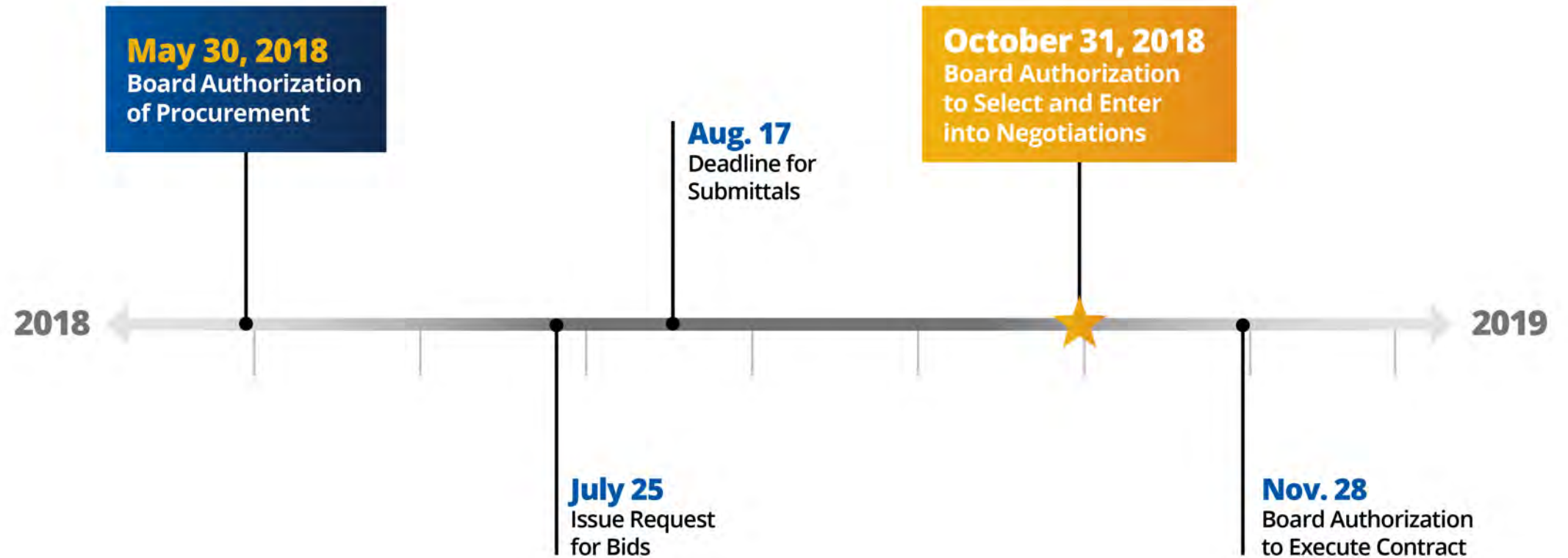
11

**Award a contract for Professional Engineering Design Services for the 183A Phase III Project**





# PROCUREMENT TIMELINE







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## SUBMITTALS

- Evaluation team reviewed 4 submittals
  - Bridgefarmer & Associates, Inc.
  - Burns & McDonnell Engineering Company, Inc.
  - BGE, Inc.
  - Rodriguez Transportation Group, Inc.



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## **RFQ RESPONSE Evaluation Criteria**

**Team Organization  
and Qualifications 20%**

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**Past Project Experience  
and References 20%**

**Project Understanding  
and Approach 35%**

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**Project Schedule  
and Availability 15%**

**DBE Utilization and  
Commitment 10%**



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## RECOMMENDATION

TO BE ANNOUNCED





➤ **Briefings and Reports**  
**Agenda Items 12-14**

Jeff Dailey, Deputy Executive Director

12

**Quarterly update on transportation projects under construction:**

**A. MoPac Improvement Project**

Justin Word, P.E., Director of Engineering

**12** Quarterly update on transportation projects under construction:  
**B. 183 South Project**

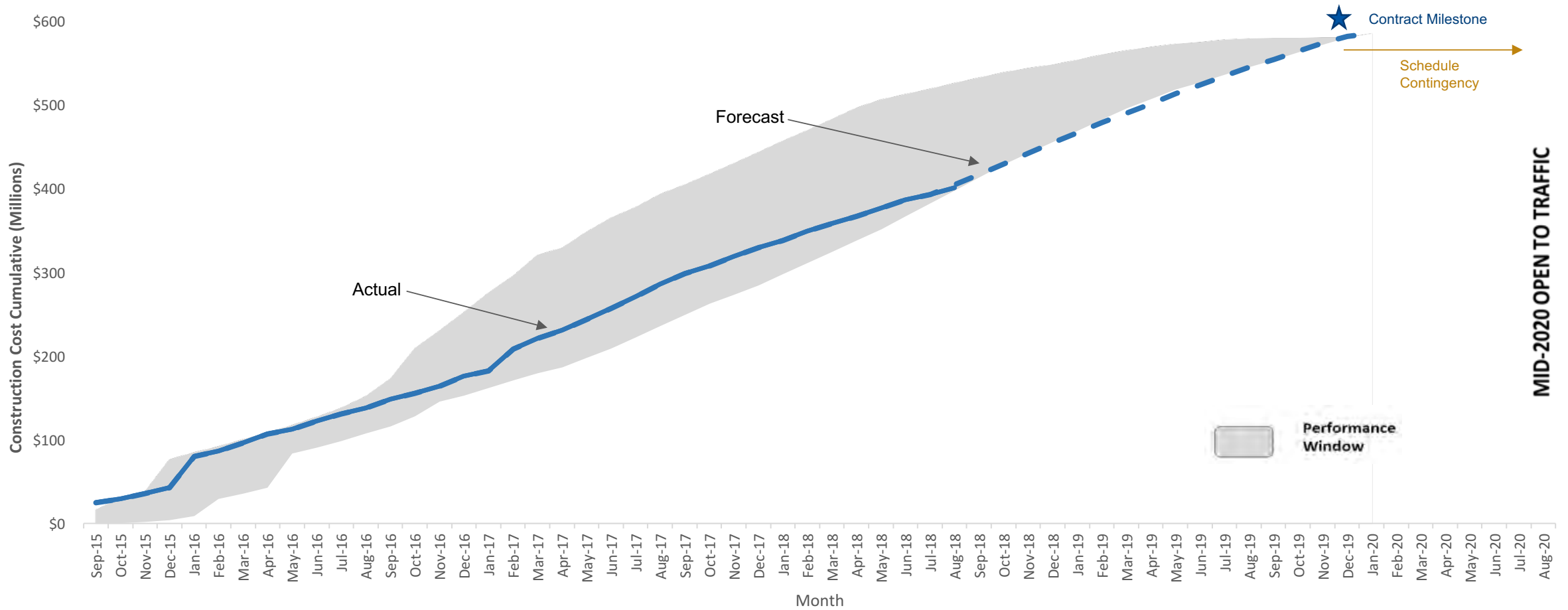






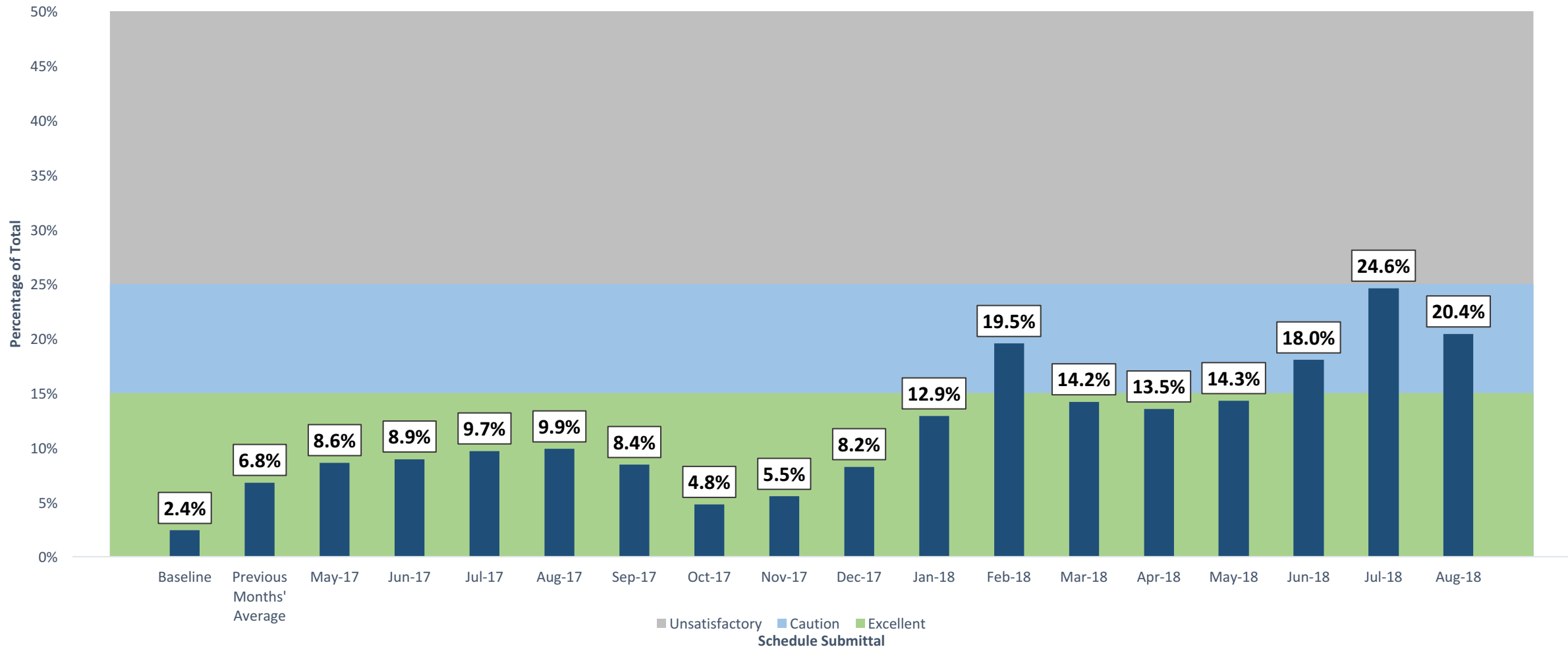
> METRICS

# Cashflow Analysis



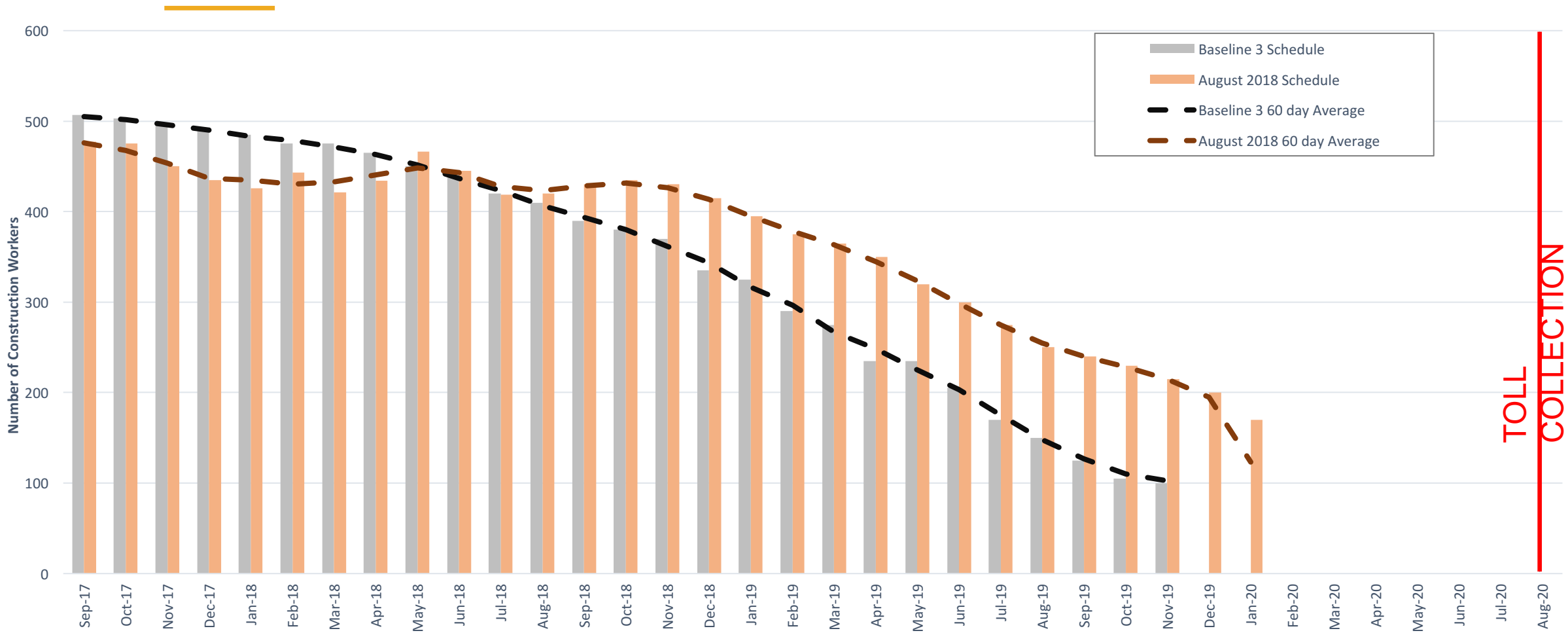
MID-2020 OPEN TO TRAFFIC

# Near Critical Activities



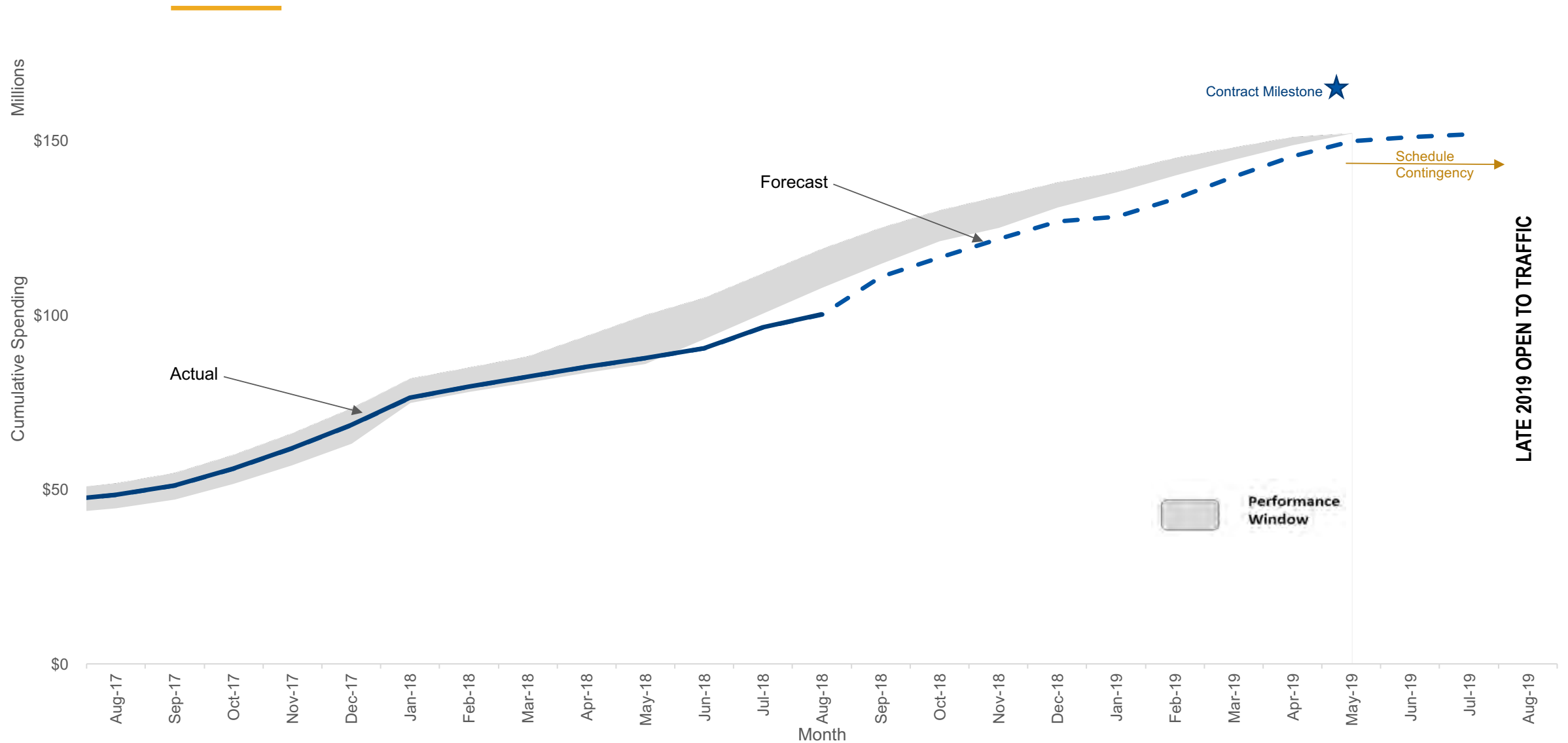


# Project Manpower Curve (Current Schedule vs. Last Updated Schedule)



TOLL COLLECTION

# Cashflow Analysis – Interim Completion



LATE 2019 OPEN TO TRAFFIC

Contract Milestone

Forecast

Actual

Schedule Contingency

Performance Window


# 183 South Design/Build Project



<b>EXECUTED CONTRACT VALUE</b>		<b>\$581,545,700</b>
<b>Total Project Contingency</b>		<b>\$47,860,000</b>
<b>Obligations</b>	<b>CO#1</b> City of Austin ILA Adjustment	<b>(\$2,779,934)</b>
	<b>CO#2</b> Addition of Coping to Soil Nail Walls	<b>\$742,385</b>
	<b>CO#4</b> Greenroads Implementation	<b>\$362,280</b>
	<b>CO#6</b> 51st Street Parking Trailhead	<b>\$477,583</b>
	<b>CO#9</b> Patton Interchange Revision	<b>\$3,488,230</b>
	Others Less than \$300,000 (6)	<b>\$549,576</b>
	<b>EXECUTED CHANGE ORDERS</b>	<b>\$2,840,120</b>
	<b>Change Orders in Negotiations</b>	<b>\$12,660,000</b>
<b>Potential Contractual Obligations</b>	<b>\$10,590,000</b>	
<b>Total Project Obligations</b>		<b>\$26,090,120</b>
<b>Remaining Project Contingency</b>		<b>\$21,769,880</b>

Change Order  
Status as of **9/30/18**

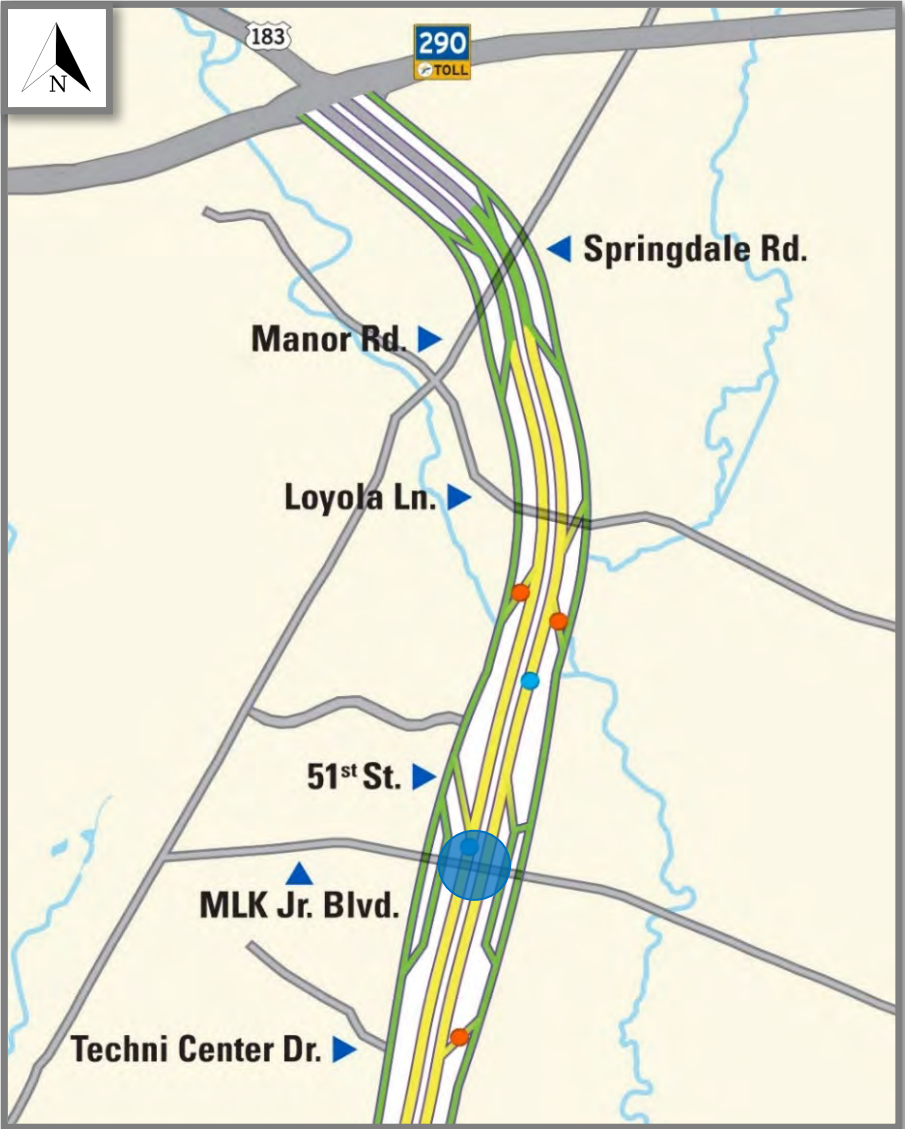




> **CONSTRUCTION  
PHOTOS**



# Construction Activities: FM 969 / MLK



September 2018



# Drone Flight: 51<sup>st</sup> Street and FM 969 / MLK





# Construction Activities: Colorado River



August 2018



September 2018



# Drone Flight: Colorado River to Vargas



September 2018



A blue-tinted photograph of a road with a guardrail and a sign that reads "NORTH 183 A TOLL". The road is on the left, and the guardrail is on the right. The sign is on a tall pole. The background shows a building and utility poles.

# > BRIDGE DESIGN HIGHLIGHTS



## Criteria

- Design Life
- Clearance
- Loading
- Foundation Design







Longhorn Dam

## Summarized Timeline

- 1880s** Original Montopolis Bridge
- 1893 First City of Austin Dam
- 1900 Flood, Austin Dam Destroyed
- 1932 Construction Starts on Buchanan Dam
- 1934** LCRA Formed
- 1935** Flood, Montopolis Bridge Destroyed
- 1938** Montopolis Truss Bridge (Existing)  
Buchanan & Inks Dams
- 1940 Tom Miller Dam
- 1942 Mansfield Dam
- 1951 Marble Falls (Starke and Wirtz)
- 1960 Longhorn Dam (Austin Energy)



## Colorado River Bridge Design

- **Truss Bridge Freeboard**
  - 19' above 100-year event
- **New Bridge Scour Analysis**
  - Based on 500-year event

## Major Floods Since 1951

1952	Lake Travis rose 57' in 14 hours
1981	10-inch rain in 4 hours downstream of Mansfield Dam
1991	Christmas Flood, All-Time High Elevation (4' shy of Mansfield spillway)
2007	June, 19-inch "rain bomb" in Marble Falls
2018	October, Lake Travis 5 <sup>th</sup> highest elevation since construction of Mansfield Dam



183 South at Colorado River





> **COMMUNITY  
ENGAGEMENT**



The Montopolis Bridge was decommissioned and closed to vehicular traffic Monday, October 8



**Media was in attendance to watch the last motorized vehicle travel over the bridge**



## Project Team Participated in the Following Events:

- Berdoll Farms Neighborhood Association Presentation ▶▶ **July 16**
- Montopolis Back to School Fair ▶▶ **August 10**
- East Austin College Prep Back to School Fair ▶▶ **August 11**
- Winn Elementary Teacher Appreciation Lunch ▶▶ **August 15**
- YMCA Back to School Fair ▶▶ **August 18**
- Southwest Key Arts Kaleidoscope Fair ▶▶ **September 22**
- National Night Out events with LBJ, Senate Hills, Johnston Terrace Neighborhoods ▶▶ **October 2**







## Partnered with TreeFolks, City of Austin, and AISD, to expand tree canopy at Pecan Springs Elementary School

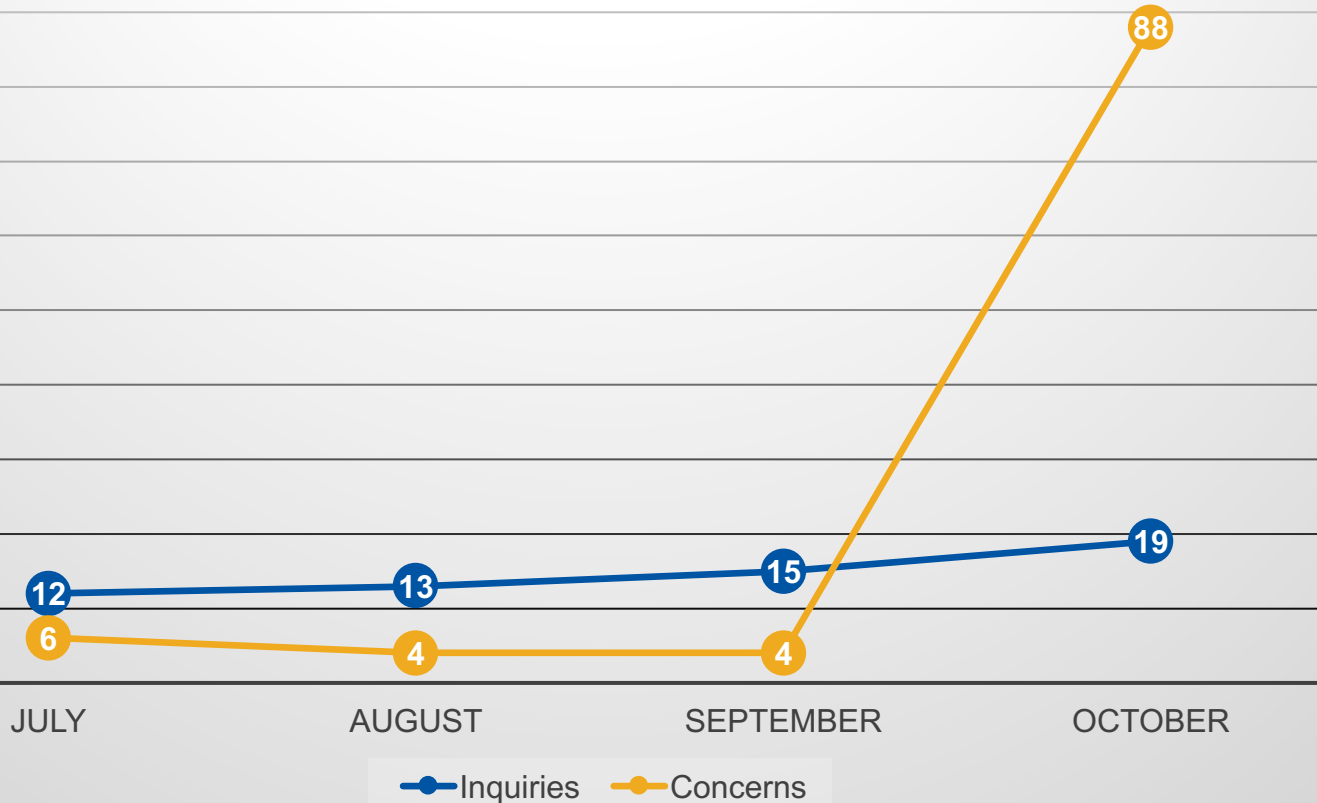
- Sponsored installation of irrigation system
- Held community event to plant 15 trees
- Watering is barrier to expanding tree canopy at local schools
  - Irrigation system will greatly increase trees' chances of survival







## Email and Phone Hotline Inquiries



## Major Traffic Impacts

- Traffic shifts at Bolm Road and 51<sup>st</sup> Street/FM 969
- Crossing closure at 51<sup>st</sup> Street
- Closure of Montopolis Bridge

## October Concerns

1. Traffic shift at FM 969
2. Upcoming closure of TechniCenter Drive



## Drivers shared feedback via social media, e-mail and phone

“ Hello, I am writing to express my concerns about the current traffic pattern at the 183/MLK intersection. We live in the agave neighborhood and it has taken at least 45 minutes to cross this intersection since the pattern changed! ”

–Agave Neighbor  
12:57 p.m. –13 Oct 2018

@183South wow. What a mess you created this morning rerouting all traffic to MLK. It took me and my neighbors over 30 minutes to travel a mile. Light at MLK needs to be adjusted asap.

7:49 AM - 12 Oct 2018

Replying to @183South

Lights at Mlk are totally messed up. Really screwing up the east west MLK traffic.

6:46 AM - 12 Oct 2018

“ I live in the Senate Hills neighborhood off 51st. Since removing the 51st/183 traffic light - the traffic to get in and out of our neighborhood has been terrible at the MLK light. It seems like the traffic light pattern isn't equipped to handle the traffic! ”

–Senate Hills Neighbor  
11:46 a.m. – 13 Oct 2018



## Project team swiftly implemented improvements

Replying to @183South

Thanks for keeping Hudson open, and the recent mowing, AND for adding the new turn lanes at MLK. Traffic flowed much faster this morning.

10:54 AM - 15 Oct 2018

**“The traffic flow is MUCH better. Thank you, thank you, thank you!”**

–US 183/FM 969 Commuter  
8:09 AM – 16 Oct 2018

**“I appreciate you hearing the community in which the changes directly affect. It’s exciting to see the changes and know that you are working to make the traffic flow better!”**

–US 183/FM 969 Commuter  
10:30 PM – 12 Oct 2018

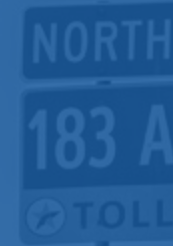
Replying to @183South

Thank you for being responsive to community feedback. We really appreciate it.

3:39 PM - 15 Oct 2018

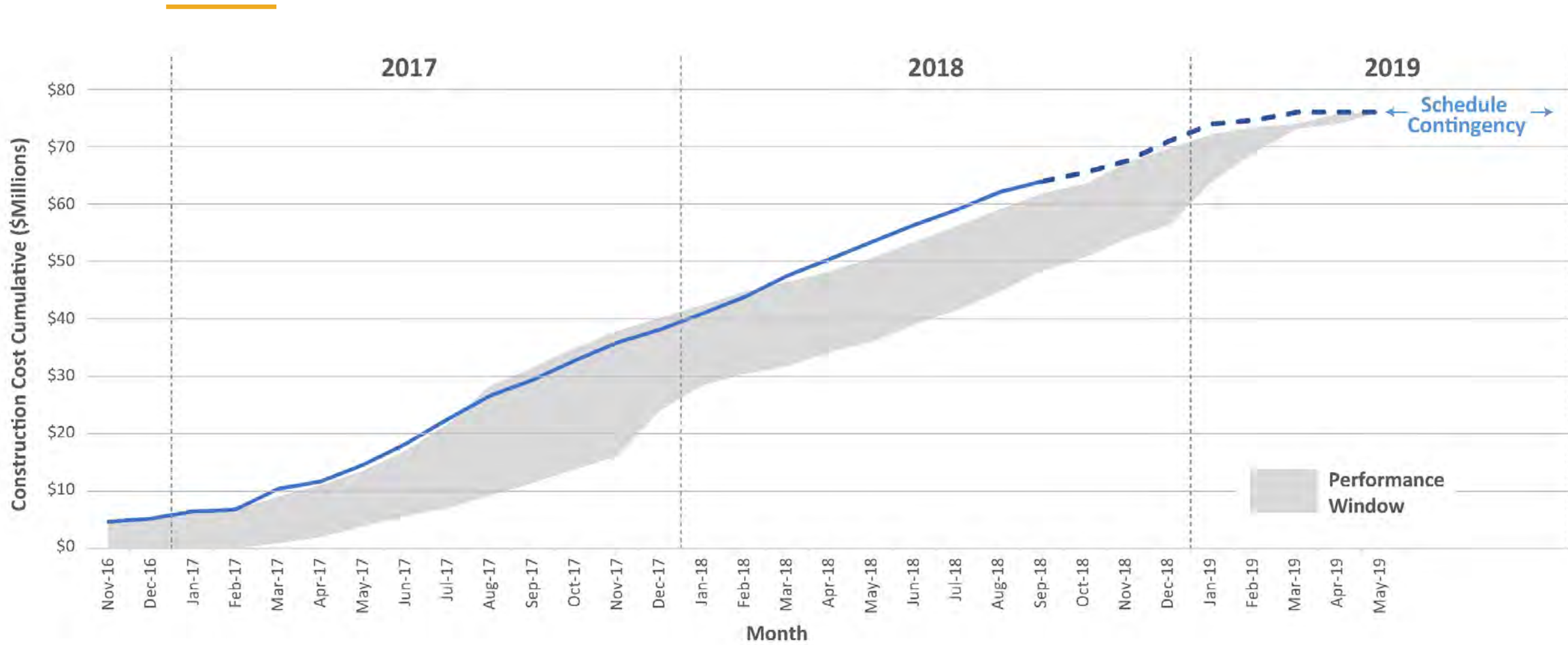
Justin Word, P.E., Director of Engineering

**12** Quarterly update on transportation projects under construction:  
**C. SH 45SW Project**





# Cash Flow Without Mobilization



# SH 45SW Design/Bid/Build Project



	<b>EXECUTED CONTRACT VALUE</b>	<b>\$75,103,623</b>
	<b>Total Project Contingency</b>	<b>\$7,520,000</b>
<b>Obligations</b>	<b>CO#4</b> Installation of PEC and TWC Conduits	<b>\$458,439</b>
	<b>CO#5</b> Installation of SSTR Drilled Shafts and Moment Slab	<b>\$538,945</b>
	All other change orders (12)	<b>\$326,264</b>
	<b>EXECUTED CHANGE ORDERS</b>	<b>\$1,323,648</b>
	<b>Change Orders in Negotiations</b>	<b>\$80,193</b>
	<b>Potential Contractual Obligations</b>	<b>\$2,203,734</b>
	<b>Total Project Obligations</b>	<b>\$3,607,575</b>
	<b>Remaining Project Contingency</b>	<b>\$3,912,425</b>

A blue-tinted photograph of a road with a guardrail and a sign that reads "NORTH 183 A TOLL". The road is a multi-lane highway with a concrete guardrail on the right side. In the background, there are utility poles and a building. The sky is blue with some clouds. The text "Water Quality Ponds" is overlaid in the center in a bold, yellow font.

# Water Quality Ponds



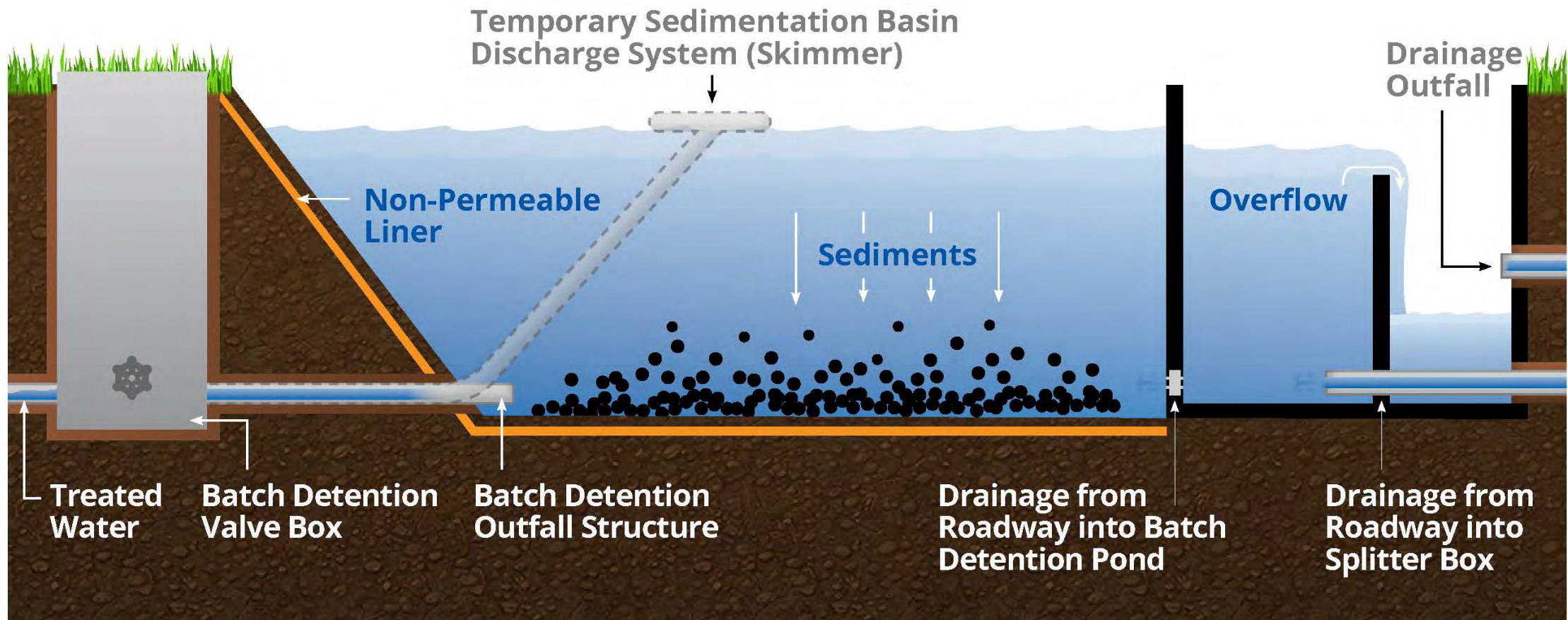
# Pond A



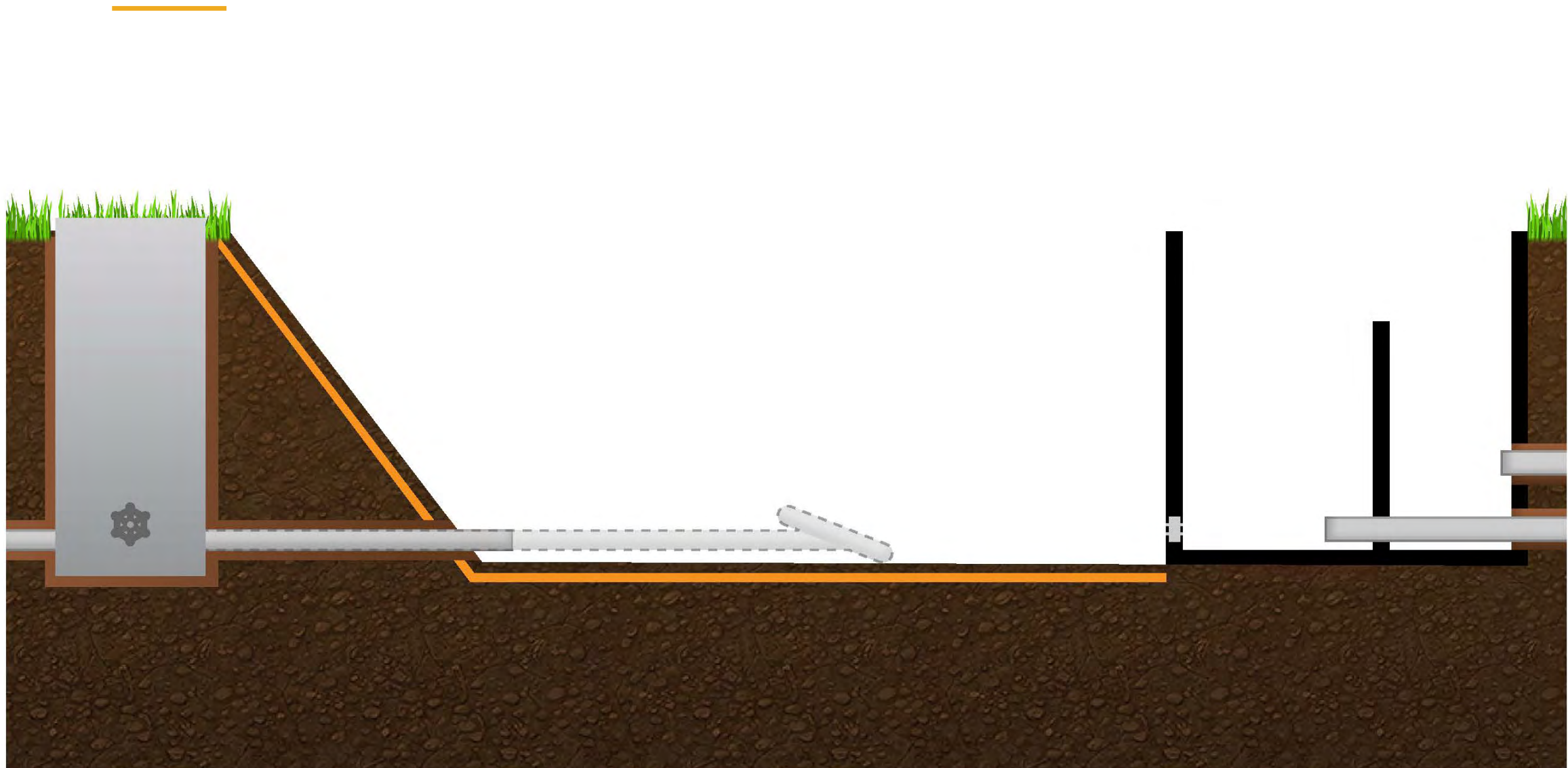




# Water Quality Pond

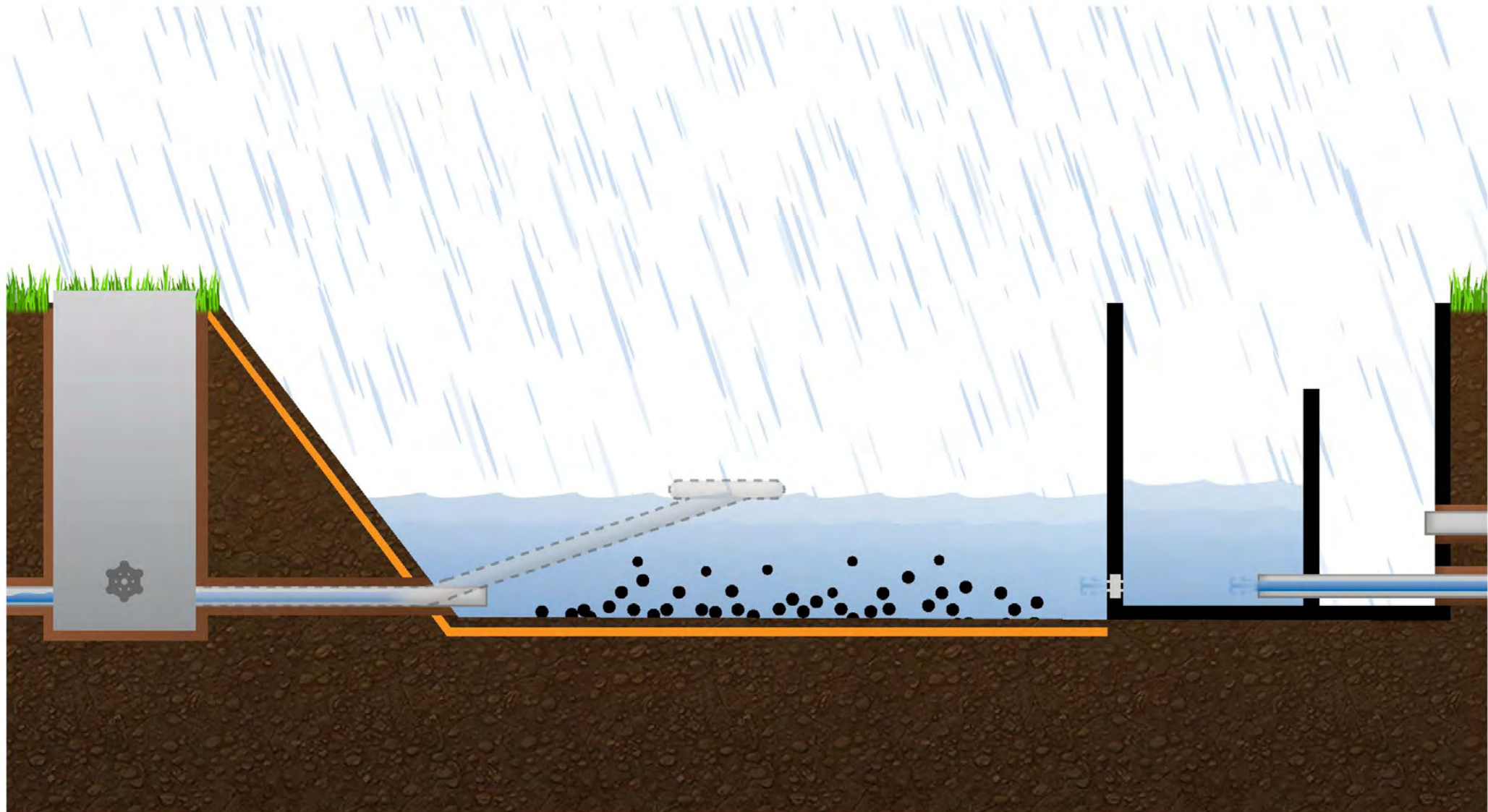


# Empty Pond



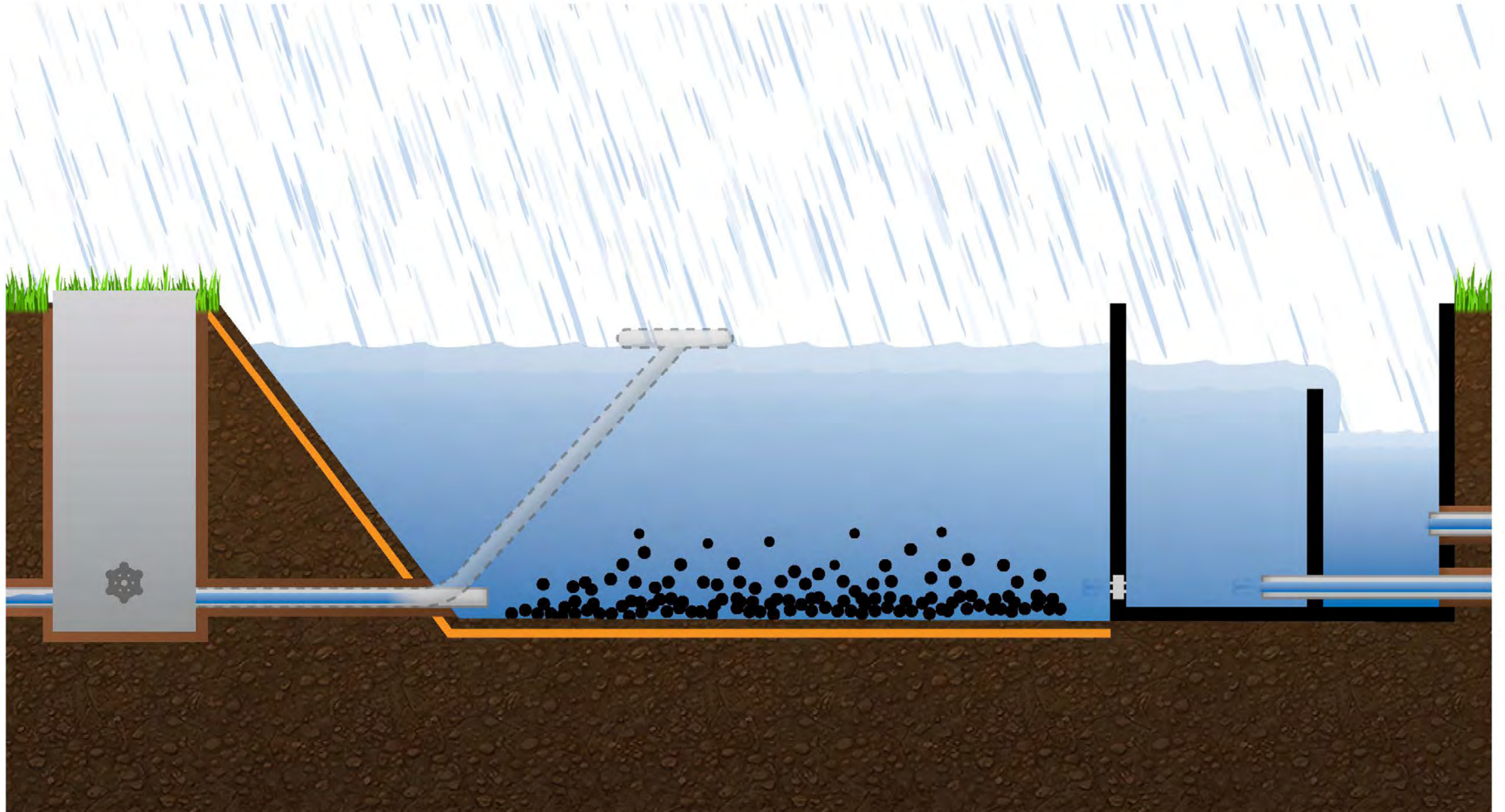


# Starts to Rain



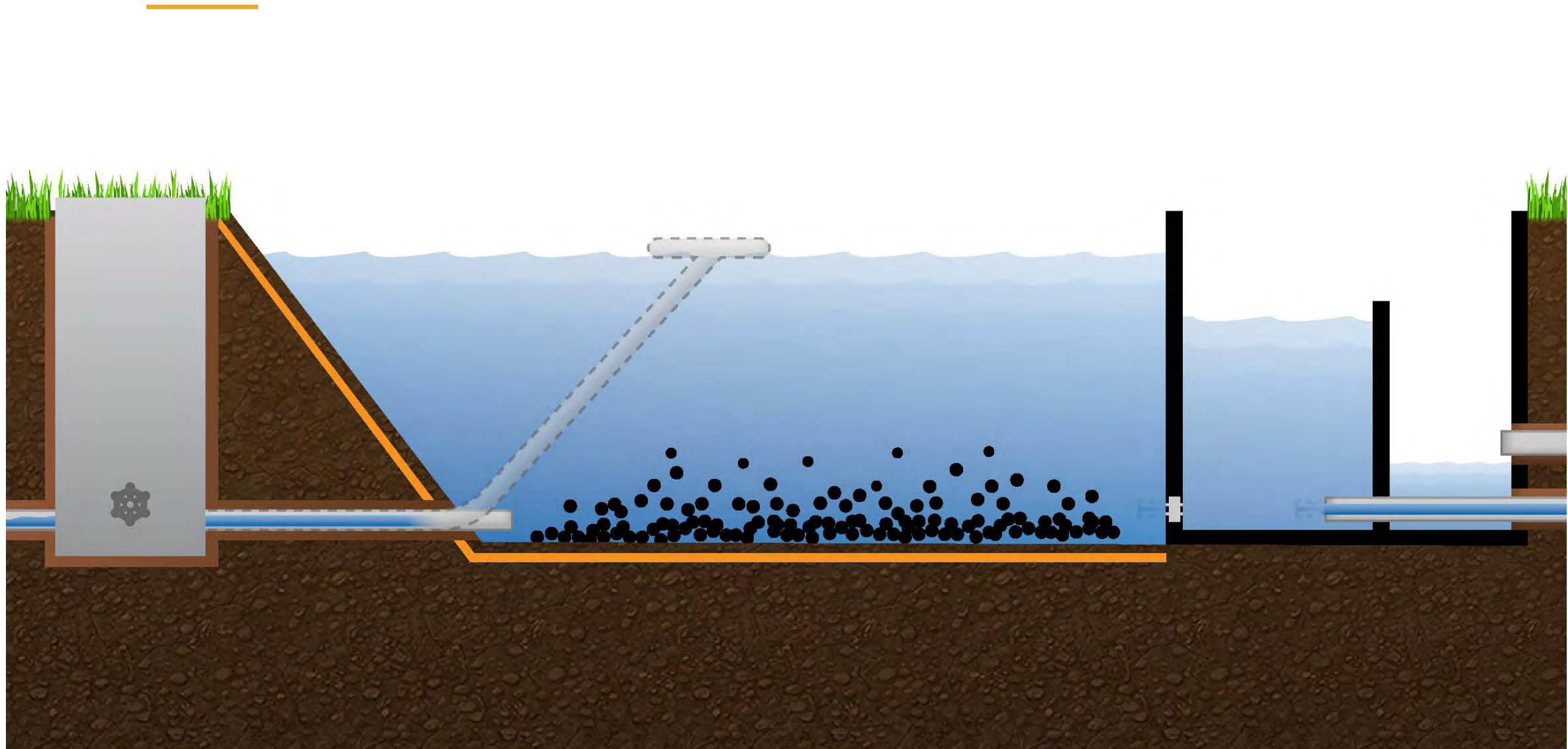


# Keeps Raining





# Pond After Rain Event





# Pond F: Current Temporary Condition



**ACCESSING CONTROL VALVE**



**OPENING CONTROL VALVE**



# Water Quality: Best Management Practices (BMP)





# Water Quality: Best Management Practices (BMP)

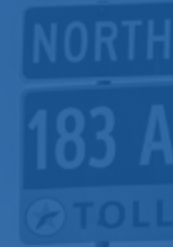




Tracie Brown, Director of Operations

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## Qualified Veterans Discount Program Update





## Program Overview



- Program becomes effective on Nov 1<sup>st</sup>.
- Qualifying Texas license plates are disabled veterans and recipients of the Purple Heart, Legion of Valor, and Medal of Honor awards.
- Participants receive toll-free passage on all Mobility Authority-operated roads, **except MoPac Express Lanes.**
- Participation is limited to one (1) qualifying vehicle per veteran.





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## Program Eligibility

Vehicle must be compliant with the following at the time of the transaction:

- Registered with the Texas Department of Motor Vehicles;
- Issued a qualifying specialty plate and have it properly displayed;
- Associated to an electronic toll tag account; and
- Have no outstanding Mobility Authority toll violations.



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## Process Overview

1. Veteran completes registration form.
2. Mobility Authority confirms eligibility.
3. License plate and tag number are added to exempt database.
4. Email sent to veteran confirming program participation and effective date of exemption.





# Program Registration Portal

The screenshot shows the website's header with the Central Texas Regional Mobility Authority logo and navigation links: About, Traveler Info, Projects & Programs, Business, Resources, and Pay Your Toll. A search icon is also present. Below the header is a large banner for the 'Qualified Veteran Discount Program' starting on Nov. 1. The banner features an American flag background, a dog tag with the authority's logo, and text that reads 'Program Begins Nov. 1' and 'Register in advance to drive toll-free'. A 'REGISTER NOW' button is located on the left side of the banner. On the right side, there are three toll route icons: 183A, 290, and 71, each with a 'TOLL' label.

<https://mobilityauthority.com/veterans>



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## Outreach Activities

- Contacted key stakeholders:
  - Veterans Administration;
  - Central Texas Veterans Association;
  - VA Division of the Texas General Land Office;
  - Vietnam Veterans Memorial Fund;
  - Lone Survivor Foundation;
  - Behavioral Health Services at Integral Care group; and
  - key legislative stakeholders.
- Sent letters to 25,446 veterans informing them about the program.
- Extended settlement offers to 16,000 veterans with toll balances.



The background image shows a perspective view of a multi-lane road. On the right side of the road, there is a signpost with three signs: 'NORTH', '183 A', and a circular 'TOLL' sign with a right-pointing arrow. The road is flanked by a concrete barrier with rounded posts on the right and a grassy area with utility poles on the left. The sky is blue with some clouds. The entire image has a blue color overlay.

14

## Executive Director Board Report

### A. ITS Master Plan and Wrong-Way Driving Detection Pilot Program



**14 Executive Director Board Report**  
**B. New employee introduction**



14

## Executive Director Board Report

### C. Project breakout of Tolled and Non-Tolled fact sheet

A blue-tinted photograph of a road with a sign that reads "NORTH 183 A TOLL". The road is paved and has a concrete barrier on the right side. In the background, there are utility poles and a building on the left. The sky is blue with some clouds.

# > Executive Session

## Agenda Items 15-17





➤ **Reconvene in Open Session**

The background image shows a perspective view of a multi-lane road stretching into the distance. On the right side of the road, there is a concrete barrier with rounded posts. Further right, a tall signpost holds three signs: 'NORTH', '183 A', and a 'TOLL' sign with a circular arrow icon. Utility poles with power lines are visible on the right side of the road. The sky is blue with some light clouds. The entire image is overlaid with a semi-transparent blue filter.

> **Regular Items**  
**Agenda Item 18**



# 18 Adjourn meeting

NORTH  
183 A  
TOLL



CENTRAL TEXAS REGIONAL  
**MOBILITY AUTHORITY**

# Thank You

[www.MobilityAuthority.com](http://www.MobilityAuthority.com)







CENTRAL TEXAS REGIONAL  
**MOBILITY AUTHORITY**

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