



**CENTRAL TEXAS  
Regional Mobility Authority**

# Regular Meeting of the Board of Directors

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**9:00 a.m.**  
Wednesday, November 30, 2016

Lowell H. Lebermann, Jr., Board Room  
3300 N. IH-35, Suite 300  
Austin, Texas 78705

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*A live video stream of this meeting may be viewed on the internet at  
[www.mobilityauthority.com](http://www.mobilityauthority.com)*

## AGENDA

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### ***No action on the following:***

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1. Welcome and opening remarks by the Chairman and members of the Board of Directors.
2. Opportunity for public comment – See **Notes** at the end of this agenda.

### ***Regular Items***

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*Items to discuss, consider, and take appropriate action.*

3. Approve the minutes for the October 26, 2016 Regular Board meeting.
4. Accept the financial statements for October 2016.
5. Add the 290 East Phase III project to the Mobility Authority Turnpike System.
6. Discuss and take appropriate action on an application for Qualified Energy Conservation Bond allocation for Park and Ride facilities
7. Approve Work Authorization No. 5 with Parsons Brinckerhoff, Inc. for general engineering consultant services related to the 183A Phase III Project.
8. Approve a legislative program for issues and proposals affecting the Mobility Authority in the 85<sup>th</sup> Texas Legislature.

## **Briefings and Reports**

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*Items for briefing and discussion. No action will be taken by the Board.*

9. Monthly briefing on the Mopac Improvement Project.
10. Monthly briefing on the 183 South Project; City of Austin water/wastewater permitting status.
11. Executive Director's Report.
  - A. Discussion regarding the development of the Mogan right-of-way.
  - B. Introduction of new employee.

## **Executive Session**

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*Under Chapter 551 of the Texas Government Code, the Board may recess into a closed meeting (an executive session) to deliberate any item on this agenda if the Chairman announces the item will be deliberated in executive session and identifies the section or sections of Chapter 551 that authorize meeting in executive session. A final action, decision, or vote on a matter deliberated in executive session will be made only after the Board reconvenes in an open meeting.*

*The Board may deliberate the following items in executive session if announced by the Chairman:*

12. Discuss legal issues related to claims by or against the Mobility Authority; pending or contemplated litigation and any related settlement offers; or other matters as authorized by §551.071 (Consultation with Attorney).
13. Discuss legal issues relating to procurement and financing of Mobility Authority transportation projects, as authorized by §551.071 (Consultation with Attorney).
14. Discuss personnel matters as authorized by §551.074 (Personnel Matters).

## **Reconvene in Open Session.**

## **Regular Items**

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*Items to discuss, consider, and take appropriate action.*

15. Adjourn Meeting.

## **Notes**

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**Opportunity for Public Comment.** At the beginning and at the end of the meeting, the Board provides a period of up to one hour for public comment on any matter subject to the Mobility Authority's jurisdiction. Each speaker is allowed a maximum of three minutes. A person who wishes to address the Board should sign the speaker registration sheet before the beginning of the public comment period. If a speaker's topic is

*Mobility Authority Board Meeting Agenda  
Wednesday, November 30, 2016*

not listed on this agenda, the Board may not deliberate the speaker's topic or question the speaker during the open comment period, but may direct staff to investigate the matter or propose that an item be placed on a subsequent agenda for deliberation and possible action by the Board. The Board may not deliberate or act on an item that is not listed on this agenda.

**Consent Agenda.** The Consent Agenda includes routine or recurring items for Board action with a single vote. The Chairman or any Board Member may defer action on a Consent Agenda item for discussion and consideration by the Board with the other Regular Items.

**Public Comment on Agenda Items.** A member of the public may offer comments on a specific agenda item in open session if he or she signs the speaker registration sheet for that item before the Board takes up consideration of the item. The Chairman may limit the amount of time allowed for each speaker. Public comment unrelated to a specific agenda item must be offered during the open comment period.

**Meeting Procedures.** The order and numbering of agenda items is for ease of reference only. After the meeting is convened, the Chairman may rearrange the order in which agenda items are considered, and the Board may consider items on the agenda in any order or at any time during the meeting.

**Persons with disabilities.** If you plan to attend this meeting and may need auxiliary aids or services, such as an interpreter for those who are deaf or hearing impaired, or if you are a reader of large print or Braille, please contact Laura Bohl at (512) 996-9778 at least two days before the meeting so that appropriate arrangements can be made.

**Español.** Si desea recibir asistencia gratuita para traducir esta información, llame al (512) 996-9778.

**Participation by Telephone Conference Call.** One or more members of the Board of Directors may participate in this meeting through a telephone conference call, as authorized by Sec. 370.262, Texas Transportation Code (*see below*). Under that law, each part of the telephone conference call meeting law must be open to the public, shall be audible to the public at the meeting location, and will be tape-recorded. On conclusion of the meeting, the tape recording of the meeting will be made available to the public.

Sec. 370.262. MEETINGS BY TELEPHONE CONFERENCE CALL.

(a) Chapter 551, Government Code, does not prohibit any open or closed meeting of the board, a committee of the board, or the staff, or any combination of the board or staff, from being held by telephone conference call. The board may hold an open or closed meeting by telephone conference call subject to the requirements of Sections 551.125(c)-(f), Government Code, but is not subject to the requirements of Subsection (b) of that section.

(b) A telephone conference call meeting is subject to the notice requirements applicable to other meetings.

(c) Notice of a telephone conference call meeting that by law must be open to the public must specify the location of the meeting. The location must be a conference room of the authority or other facility in a county of the authority that is accessible to the public.

(d) Each part of the telephone conference call meeting that by law must be open to the public shall be audible to the public at the location specified in the notice and shall be tape-recorded or documented by written minutes. On conclusion of the meeting, the tape recording or the written minutes of the meeting shall be made available to the public.

Sec. 551.125. OTHER GOVERNMENTAL BODY. (a) Except as otherwise provided by this subchapter, this chapter does not prohibit a governmental body from holding an open or closed meeting by telephone conference call.

~~(b) A meeting held by telephone conference call may be held only if:~~

~~(1) an emergency or public necessity exists within the meaning of Section 551.045 of this chapter; and~~

~~(2) the convening at one location of a quorum of the governmental body is difficult or impossible; or~~

~~(3) the meeting is held by an advisory board.~~

(c) The telephone conference call meeting is subject to the notice requirements applicable to other meetings.

(d) The notice of the telephone conference call meeting must specify as the location of the meeting the location where meetings of the governmental body are usually held.

(e) Each part of the telephone conference call meeting that is required to be open to the public shall be audible to the public at the location specified in the notice of the meeting as the location of the meeting and shall be tape-recorded. The tape recording shall be made available to the public.

(f) The location designated in the notice as the location of the meeting shall provide two-way communication during the entire telephone conference call meeting and the identification of each party to the telephone conference shall be clearly stated prior to speaking.

**Español.** Si desea recibir asistencia gratuita para traducir esta información, llame al (512) 996-9778.



**CENTRAL TEXAS**  
**Regional Mobility Authority**

November 30, 2016  
AGENDA ITEM #1

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Welcome and opening remarks by the  
Chairman and members of the Board of  
Directors

Welcome, Opening Remarks and Board Member Comments

Board Action Required: No





**CENTRAL TEXAS  
Regional Mobility Authority**

November 30, 2016  
AGENDA ITEM #2

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Open Comment Period for Public Comment  
& Public Comment on Agenda Items

**Open Comment Period for Public Comment** - At the beginning of the meeting, the Board provides a period of up to one hour for public comment on any matter subject to CTRMA's jurisdiction. Each speaker is allowed a maximum of three minutes. A person who wishes to address the Board should sign the speaker registration sheet before the beginning of the open comment period. If the speaker's topic is not listed on this agenda, the Board may not deliberate the topic or question the speaker during the open comment period, but may direct staff to investigate the subject further or propose that an item be placed on a subsequent agenda for deliberation and possible action by the Board. The Board may not act on an item that is not listed on this agenda.

**Public Comment on Agenda Items** - A member of the public may offer comments on a specific agenda item in open session if he or she signs the speaker registration sheet for that item before the Board's consideration of the item. The Chairman may limit the amount of time allowed for each speaker. Public comment unrelated to a specific agenda item must be offered during the open comment period.

Board Action:                      None.



**CENTRAL TEXAS  
Regional Mobility Authority**

November 30, 2016  
AGENDA ITEM #3

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Approve the minutes for the October 26, 2016  
Regular Board Meeting

Strategic Plan Relevance: Regional Mobility  
Department: Legal  
Contact: Geoffrey Petrov, General Counsel  
Associated Costs: N/A  
Funding Source: N/A  
Action Requested: Consider and act on motion to approve minutes

Summary:

Approve the attached draft minutes for the October 26, 2016 Regular Board Meeting.

Backup provided: Draft Minutes, October 26, 2016 Regular Board Meeting.

**MINUTES**  
**Regular Meeting of the Board of**  
**Directors of the**  
**CENTRAL TEXAS REGIONAL MOBILITY AUTHORITY**  
**Wednesday, October 26, 2016**

The meeting was held The meeting was held in the Mobility Authority's Lowell H. Lebermann, Jr. Board Room at 3300 N. Interstate 35, #300, Austin, Texas 78705-1849. Notice of the meeting was posted October 20, 2016, 2016 at the respective County Courthouses of Williamson and Travis Counties; online on the website of the Mobility Authority; and in the Mobility Authority's office lobby at 3300 N. Interstate 35, #300, Austin, Texas 78705-1849.

**An archived copy of the live-streamed video of this meeting is available at:**

<http://www.mobilityauthority.com/about/vod.php>

**1. Welcome and Opening Remarks by Chairman Ray Wilkerson.**

After noting that a quorum of the Board was present, Chairman Ray Wilkerson called the meeting to order at 9:00 a.m. with the following Board members present: James H. Mills, David Armbrust, Charles Heimsath, Nikelle Meade, and David Singleton.

**2. Opportunity for Public Comment.**

No Public Comment was given.

**Regular Board Items**

**3. Approve the minutes for the September 28, 2016 Regular Board Meeting.**

**MOTION:** Approval for the September 28, 2016, Regular Board Meeting Minutes.

**RESULT:** Approved (Unanimous); 6-0

**MOTION BY:** Jim Mills

**SECONDED BY:** David Singleton

**AYE:** Wilkerson, Mills, Meade, Armbrust, Heimsath, and Singleton.

**NAY:** None.

4. Accept the financial statements for September 2016.

Presentation by Mary Temple, Controller

**MOTION:** Accept the financial statements for September 2016.

**RESULT:** Approved (Unanimous); 6-0

**MOTION BY:** Charles Heimsath

**SECONDED BY:** David Singleton

**AYE:** Wilkerson, Mills, Meade, Armbrust, Heimsath, and Singleton.

**NAY:** None.

5. Consider and potentially, modify the annual toll rate escalation becoming effective January 1, 2017.

Presentation by Bill Chapman, Chief Financial Officer.

**January 2017 Toll rate Calculation 183A**

		Current Rate	CPI <sup>+12</sup>	CPI <sup>+</sup>	(CPI <sup>+</sup> -CPI <sup>+12</sup> )/CPI <sup>+12</sup>	Floor	CPIU Increase	New Toll rates 1/1/2017	2015 Original 183A Toll Schedule	2020 Original 183A Toll Schedule
			CPI base Sep 2015	CPI current Sep 2016	CPI Adjustment 1/1/2017					
<b>183A</b>										
	Crystal Falls ramps	ETC \$ 0.40	237.945	241.428	1.46378%	0.0000	\$ 0.01	\$ 0.41		
	Crystal Falls Main Lane	ETC \$ 1.03	237.945	241.428	1.46378%	0.0000	\$ 0.02	\$ 1.05		
	Scottsdale Ramp	ETC \$ 0.58	237.945	241.428	1.46378%	0.0000	\$ 0.01	\$ 0.59		
	Park Street mainlane	ETC \$ 1.46	237.945	241.428	1.46378%	0.0000	\$ 0.02	\$ 1.48	\$ 2.00	\$ 2.25
	Brushy Creek Ramps	ETC \$ 0.58	237.945	241.428	1.46378%	0.0000	\$ 0.01	\$ 0.59	\$ 0.75	\$ 1.00
	Lakeline Main Lane	ETC \$ 0.54	237.945	241.428	1.46378%	0.0000	\$ 0.01	\$ 0.55	\$ 0.70	\$ 0.90
<b>Manor</b>										
	183 Direct Connectors	ETC \$ 0.55	237.945	241.428	1.46378%	0.0000	\$ 0.01	\$ 0.56		
	Springdale ramps	ETC \$ 0.55	237.945	241.428	1.46378%	0.0000	\$ 0.01	\$ 0.56		
	Giles ramps	ETC \$ 0.55	237.945	241.428	1.46378%	0.0000	\$ 0.01	\$ 0.56		
	Giles Main Lanes	ETC \$ 1.10	237.945	241.428	1.46378%	0.0000	\$ 0.02	\$ 1.12		
	Harris Branch Parkway ramps	ETC \$ 0.55	237.945	241.428	1.46378%	0.0000	\$ 0.01	\$ 0.56		
	Palmer Main Lanes	ETC \$ 0.55	237.945	241.428	1.46378%	0.0000	\$ 0.01	\$ 0.56		

NOTE: No motion was made to modify the toll rates; therefore, the CPI-U increase will go into effect 01/01/17.

Mike Heiligenstein, Executive Director, noted that the rates without the toll rate escalation policy would have been a quarter more.

6. Adopt a Toll Rate for the SH 71 Express Lane.

Presentation by Bill Chapman, Chief Financial Officer.

**MOTION:** Adopt a Toll Rate for the SH 71 Express Lane.

**RESULT:** Approved (Unanimous); 6-0  
**MOTION BY:** Jim Mills  
**SECONDED BY:** Charles Heimsath  
**AYE:** Wilkerson, Mills, Meade, Armbrust, Heimsath, and Singleton.  
**NAY:** None.

7. Authorize negotiation and execution of a design phase Project Development Agreement with the Texas Department of Transportation for the Manor Expressway (290E) Phase III Project.

Presentation by Justin Word, P.E., Director of Engineering.

**MOTION:** Authorize negotiation and execution of a design phase Project Development Agreement with the Texas Department of Transportation for the Manor Expressway (290E) Phase III Project.

**RESULT:** Approved (Unanimous); 6-0  
**MOTION BY:** Nikelle Meade  
**SECONDED BY:** David Singleton  
**AYE:** Wilkerson, Mills, Meade, Armbrust, Heimsath, and Singleton.  
**NAY:** None.

8. Approve Work Authorization No. 4 with Fagan Consulting LLC to provide general systems consulting services for FY 2017.

Presentation by Tim Reilly, Director of Operations.

**MOTION:** Approve Work Authorization No. 4 with Fagan Consulting LLC to provide general systems consulting services for FY 2017.

**RESULT:** Approved (Unanimous); 6-0  
**MOTION BY:** Charles Heimsath  
**SECONDED BY:** Nikelle Meade  
**AYE:** Wilkerson, Mills, Meade, Armbrust, Heimsath, and Singleton.  
**NAY:** None.

9. Approve Work Authorization No. 5 with Fagan Consulting LLC for professional assistance in the procurement of new Pay-by-Mail processing services.

Presentation by Time Reilly, Director of Operations.

**MOTION:** Approve Work Authorization No. 5 with Fagan Consulting LLC for professional assistance in the procurement of new Pay-by-Mail

processing services.

**RESULT:** Approved (Unanimous); 6-0  
**MOTION BY:** Nikelle Meade  
**SECONDED BY:** Charles Heimsath  
**AYE:** Wilkerson, Mills, Meade, Armbrust, Heimsath, and Singleton.  
**NAY:** None.

**Briefing and Discussion on the Following:**

**10.** Quarterly update on transportation projects under construction.

NOTE: Chairman Wilkerson took up items in the following order – D, A, B, C.

A. MoPac Improvement Project.

Speaking on: Tim Reilly, Director of Operations  
Steve Pustelnyk, Director of Community Relations

B. 183 South Project.

Speaking on: Justin Word, P.E., Director of Engineering  
Aaron Autry, Project Manager, Atkins  
Steve Pustelnyk, Director of Community Relations

C. SH 45 Southwest Project.

Speaking on: Justin Word, P.E., Director of Engineering

D. 290 East Interim Improvement Project.

Speaking on: Justin Word, P.E., Director of Engineering

**11.** Update on MoPac South Project.

Speaking on: Dee Anne Heath, Director of External Affairs

**12.** CTRMA's Partnership with Greenroads.

Speaking on: Dee Anne Heath, Director of External Affairs  
Dan McDuff, Atkins 183 South Program Control Manager

**13. Cyber Security briefing.**

Speaking on: Tim Reilly, Director of Operations

**14. Executive Director's Report.**

Speaking on: Mike Heiligenstein, Executive Director

A. Discussion of Williamson County Resolution regarding transportation projects.

Mike Heiligenstein, Executive Director, spoke about Williamson County's October 11, 2016 resolution regarding Mogan and he voiced commitment to cooperate with Williamson County and Round Rock on Mogan Expressway.

**Executive Session Pursuant to Government Code, Chapter 551**

Chairman Wilkerson announced in open session at 10:55 a.m. that the Board would recess the open meeting and reconvene in Executive Session to deliberate the following items:

The Board then recessed into an executive session in the Travis Conference Room.

**15.** Discuss legal issues related to claims by or against the Mobility Authority; pending or contemplated litigation and any related settlement offers; or other matters as authorized by §551.071 (Consultation with Attorney).

**16.** Discuss legal issues relating to procurement and financing of Mobility Authority transportation projects, as authorized by §551.071 (Consultation with Attorney).

**17.** Discuss personnel matters as authorized by §551.074 (Personnel Matters).

After completing the executive session, the Board reconvened in open meeting at 12:07 p.m. in the Lebermann Board Room.

**18.** Adjourn meeting.

After confirming that no member of the public wished to address the Board, Chairman Wilkerson declared the meeting adjourned at 12:09 p.m.



November 30, 2016  
AGENDA ITEM #4

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Accept the financial statements for  
October 2016

**CENTRAL TEXAS  
Regional Mobility Authority**

Department: Finance  
Contact: Bill Chapman, Chief Financial Officer  
Action Requested: Consider and act on draft resolution

Summary:

Presentation and acceptance of the monthly financial statements for October 2016.

Backup provided: Draft Financial Statements for October 2016.  
Draft Resolution



**GENERAL MEETING OF THE BOARD OF DIRECTORS  
OF THE  
CENTRAL TEXAS REGIONAL MOBILITY AUTHORITY**

**RESOLUTION NO. 16-0XX**

**ACCEPT THE FINANCIAL STATEMENTS FOR OCTOBER 2016**

WHEREAS, the Central Texas Regional Mobility Authority (“Mobility Authority”) is empowered to procure such goods and services as it deems necessary to assist with its operations and to study and develop potential transportation projects, and is responsible to insure accurate financial records are maintained using sound and acceptable financial practices; and

WHEREAS, close scrutiny of the Mobility Authority’s expenditures for goods and services, including those related to project development, as well as close scrutiny of the Mobility Authority’s financial condition and records is the responsibility of the Board and its designees through procedures the Board may implement from time to time; and

WHEREAS, the Board has adopted policies and procedures intended to provide strong fiscal oversight and which authorize the Executive Director, working with the Mobility Authority’s Chief Financial Officer, to review invoices, approve disbursements, and prepare and maintain accurate financial records and reports; and

WHEREAS, the Executive Director, working with the Chief Financial Officer, has reviewed and authorized the disbursements necessary for the month of October 2016, and has caused Financial Statements to be prepared and attached to this resolution as Exhibit A.

NOW THEREFORE, BE IT RESOLVED, that the Board of Directors accepts the Financial Statements for October 2016, attached as Exhibit A.

Adopted by the Board of Directors of the Central Texas Regional Mobility Authority on the 30<sup>th</sup> day of November 2016.

Submitted and reviewed by:

Approved:

\_\_\_\_\_  
Geoffrey Petrov, General Counsel

\_\_\_\_\_  
Ray A. Wilkerson  
Chairman, Board of Directors

**Exhibit A**

**Central Texas Regional Mobility Authority**  
**Income Statement**  
**All Operating Departments**

Account Name	Budget Amount FY 2017	Actual Year to Date 10/31/2016	Percent of Budget	Actual PY to Date 10/31/2015
<b>Revenue</b>				
<b>Operating Revenue</b>				
Toll Revenue-TxTag-183A	26,352,946	10,060,347	38.18%	9,177,719
Toll Revenue-HCTRA-183A	2,306,626	1,013,609	43.94%	790,805
Toll Revenue-NTTA-183A	3,869,188	1,619,322	41.85%	1,284,313
Toll Revenue-TxTag-MoPac ML	1,724,750	3,075	0.18%	-
Toll Revenue-HCTRA MoPac ML	-	97	-	-
Toll Revenue-NTTA-Mopac ML	-	159	-	-
Toll Revenue-TxTag-Manor	9,013,151	3,433,513	38.09%	3,071,148
Toll Revenue-HCTRA Manor	1,685,258	764,408	45.36%	619,527
Toll Revenue-NTTA-Manor	599,367	258,375	43.11%	194,298
Toll Revenue-TxTag-71E	1,003,750	-	-	-
Video Tolls 183A	11,476,562	3,235,602	28.19%	2,883,138
Video Tolls Manor Expressway	4,553,481	1,236,175	27.15%	1,137,120
Fee Revenue 183A	4,581,141	1,218,680	26.60%	1,035,547
Fee Revenue Manor Expressway	2,295,839	616,376	26.85%	512,244
<b>Total Operating Revenue</b>	<b>69,462,060</b>	<b>23,459,738</b>	<b>33.77%</b>	<b>20,705,858</b>
<b>Other Revenue</b>				
Interest Income	250,000	267,051	106.82%	116,596
Grant Revenue	700,000	3,747,053	535.29%	8,652,671
Reimbursed Expenditures	1,555,396	50,553	3.25%	2,849
Misc Revenue	-	568	-	-
<b>Total Other Revenue</b>	<b>2,505,396</b>	<b>4,065,224</b>	<b>162.26%</b>	<b>8,772,116</b>
<b>Total Revenue</b>	<b>\$ 71,967,456</b>	<b>\$ 27,524,962</b>	<b>38.25%</b>	<b>29,477,975</b>

**Central Texas Regional Mobility Authority**  
**Income Statement**  
**All Operating Departments**

Account Name	Budget Amount FY 2017	Actual Year to Date 10/31/2016	Percent of Budget	Actual PY to Date 10/31/2015
<b>Expenses</b>				
<b>Salaries and Wages</b>				
Salary Expense-Regular	2,967,036	1,049,280	35.36%	860,338
Salary Reserve	80,000	-	-	-
TCDRS	415,385	148,296	35.70%	120,417
FICA	128,873	39,783	30.87%	33,872
FICA MED	45,627	15,223	33.36%	12,526
Health Insurance Expense	332,091	125,093	37.67%	79,590
Life Insurance Expense	14,167	1,549	10.93%	1,266
Auto Allowance Expense	10,200	3,400	33.33%	3,400
Other Benefits	269,785	42,021	15.58%	39,374
Unemployment Taxes	15,463	30	0.20%	43
<b>Total Salaries and Wages</b>	<b>4,278,627</b>	<b>1,424,677</b>	<b>33.30%</b>	<b>1,150,827</b>

**Central Texas Regional Mobility Authority**  
**Income Statement**  
**All Operating Departments**

Account Name	Budget Amount FY 2017	Actual Year to Date 10/31/2016	Percent of Budget	Actual PY to Date 10/31/2015
<b>Administrative</b>				
<b>Administrative and Office Expenses</b>				
Accounting	20,000	2,287	11.44%	5,764
Auditing	74,000	53,880	72.81%	36,247
Human Resources	30,000	2,182	7.27%	2,530
IT Services	88,000	20,757	23.59%	5,181
Internet	1,700	729	42.91%	3,070
Software Licenses	55,725	34,583	62.06%	11,817
Cell Phones	14,542	5,239	36.03%	2,756
Local Telephone Service	12,000	4,972	41.44%	3,636
Overnight Delivery Services	850	35	4.08%	71
Local Delivery Services	1,050	-	-	-
Copy Machine	12,000	4,934	41.12%	4,928
Repair & Maintenance-General	1,000	-	-	-
Meeting Facilities	1,000	-	-	-
CommunityMeeting/ Events	2,000	-	-	-
Meeting Expense	15,250	2,665	17.48%	1,255
Public Notices	2,000	-	-	-
Toll Tag Expense	1,900	430	22.63%	130
Parking	3,600	520	14.43%	1,126
Mileage Reimbursement	11,200	1,053	9.41%	1,339
Insurance Expense	150,000	47,966	31.98%	36,096
Rent Expense	558,000	128,355	23.00%	137,266
Legal Services	525,000	25	-	36,465
<b>Total Administrative and Office Expenses</b>	<b>1,580,817</b>	<b>310,613</b>	<b>19.65%</b>	<b>289,678</b>
<b>Office Supplies</b>				
Books & Publications	6,150	377	6.13%	297
Office Supplies	21,000	7,102	33.82%	2,554
Computer Supplies	17,000	2,926	17.21%	9,822
Copy Supplies	2,500	100	4.01%	423
Other Reports-Printing	10,000	465	4.65%	-
Office Supplies-Printed	2,700	154	5.69%	1,821
Misc Materials & Supplies	3,750	1,015	27.07%	350
Postage Expense	5,850	130	2.22%	149
<b>Total Office Supplies</b>	<b>68,950</b>	<b>12,269</b>	<b>17.79%</b>	<b>15,416</b>

**Central Texas Regional Mobility Authority**  
**Income Statement**  
**All Operating Departments**

Account Name	Budget Amount FY 2017	Actual Year to Date 10/31/2016	Percent of Budget	Actual PY to Date 10/31/2015
<b>Communications and Public Relations</b>				
Graphic Design Services	75,000	-	-	2,573
Website Maintenance	140,000	55,072	39.34%	6,398
Research Services	105,000	40,000	38.10%	-
Communications and Marketing	469,900	55,023	11.71%	10,285
Advertising Expense	336,500	15,921	4.73%	35,382
Direct Mail	10,000	-	-	150
Video Production	35,000	8,820	25.20%	29,779
Photography	10,000	698	6.98%	-
Radio	10,000	-	-	-
Other Public Relations	125,000	5,000	4.00%	3,500
Promotional Items	10,000	972	9.72%	287
Displays	5,000	-	-	-
Annual Report printing	5,000	-	-	-
Direct Mail Printing	11,300	-	-	-
Other Communication Expenses	1,000	1,008	100.81%	622
<b>Total Communications and Public Relations</b>	<b>1,348,700</b>	<b>182,515</b>	<b>13.53%</b>	<b>88,975</b>
<b>Employee Development</b>				
Subscriptions	3,300	11,405	345.60%	118
Memberships	50,750	5,474	10.79%	5,346
Continuing Education	11,750	-	-	-
Professional Development	6,700	-	-	123
Other Licenses	1,250	40	3.20%	430
Seminars and Conferences	44,000	10,009	22.75%	3,875
Travel	88,000	27,464	31.21%	25,293
<b>Total Employee Development</b>	<b>205,750</b>	<b>54,392</b>	<b>26.44%</b>	<b>35,185</b>

**Central Texas Regional Mobility Authority**  
**Income Statement**  
**All Operating Departments**

Account Name	Budget Amount FY 2017	Actual Year to Date 10/31/2016	Percent of Budget	Actual PY to Date 10/31/2015
<b>Financing and Banking Fees</b>				
Trustee Fees	15,000	17,500	116.67%	3,225
Bank Fee Expense	8,000	2,008	25.10%	1,965
Continuing Disclosure	10,000	-	-	-
Arbitrage Rebate Calculation	8,000	6,455	80.69%	3,685
Rating Agency Expense	30,000	15,000	50.00%	14,000
<b>Total Financing and Banking Fees</b>	<b>71,000</b>	<b>40,963</b>	<b>57.69%</b>	<b>22,875</b>
<b>Total Administrative</b>	<b>3,275,217</b>	<b>600,752</b>	<b>18.34%</b>	<b>452,130</b>
<b>Operations and Maintenance</b>				
<b>Operations and Maintenance Consulting</b>				
GEC-Trust Indenture Support	165,000	702	0.43%	-
GEC-Financial Planning Support	10,500	47	0.45%	-
GEC-Toll Ops Support	45,000	3,282	7.29%	-
GEC-Roadway Ops Support	331,667	95,800	28.88%	58,529
GEC-Technology Support	40,000	117,091	292.73%	18,052
GEC-Public Information Support	30,000	3,788	12.63%	-
GEC-General Support	1,176,000	175,851	14.95%	6,535
General System Consultant	70,000	1,074	1.53%	58,570
Traffic and Revenue Consultant	80,000	25,501	31.88%	38,026
<b>Total Ops and Mtce Consulting</b>	<b>1,948,167</b>	<b>423,136</b>	<b>21.72%</b>	<b>179,712</b>
<b>Road Operations and Maintenance</b>				
Roadway Maintenance	4,871,600	848,351	17.41%	230,253
Landscape Maintenance	5,000	-	-	66,609
Signal & Illumination Maint	20,000	-	-	2,810
Maintenance Supplies-Roadway	45,000	367	0.81%	68,433
Tools & Equipment Expense	750	-	-	46
Gasoline	6,000	1,897	31.61%	577
Repair & Maintenance-Vehicles	1,500	662	44.16%	329
Roadway Operations	-	-	-	67
Electricity - Roadways	180,000	44,056	24.48%	46,005
<b>Total Road Operations and Maintenance</b>	<b>5,129,850</b>	<b>895,332</b>	<b>17.45%</b>	<b>415,129</b>

**Central Texas Regional Mobility Authority**  
**Income Statement**  
**All Operating Departments**

Account Name	Budget Amount FY 2017	Actual Year to Date 10/31/2016	Percent of Budget	Actual PY to Date 10/31/2015
<b>Toll Processing and Collection Expense</b>				
Image Processing	2,300,000	467,117	20.31%	654,727
Tag Collection Fees	3,240,000	987,330	30.47%	858,508
Court Enforcement Costs	40,000	5,325	13.31%	3,875
DMV Lookup Fees	5,000	36	0.73%	494
<b>Total Toll Processing and Collections</b>	<b>5,585,000</b>	<b>1,459,809</b>	<b>26.14%</b>	<b>1,517,604</b>
<b>Toll Operations Expense</b>				
Facility maintenance	-	-	-	466
Generator Maintenance	-	-	-	1,850
Generator Fuel	6,000	58	0.96%	-
Fire and Burglar Alarm	500	123	24.67%	123
Elevator Maintenance	3,000	-	-	-
Refuse	1,200	606	50.48%	256
Pest Control	1,600	-	-	296
Custodial	2,500	-	-	750
Telecommunications	90,000	23,460	26.07%	21,522
Water	10,500	5,157	49.11%	1,379
Electricity	1,200	730	60.87%	-
ETC spare parts expense	1,600	-	-	-
Repair & Maintenance Toll Equip	275,000	11,940	4.34%	93
Law Enforcement	273,182	68,571	25.10%	42,632
ETC Maintenance Contract	1,755,098	227,550	12.97%	455,100
ETC Toll Management Center System Operation	49,098	-	-	-
ETC Testing	10,000	-	-	-
<b>Total Toll Operations</b>	<b>2,480,478</b>	<b>338,195</b>	<b>13.63%</b>	<b>524,468</b>
<b>Total Operations and Maintenance</b>	<b>15,143,495</b>	<b>3,116,472</b>	<b>20.58%</b>	<b>2,636,914</b>
<b>Other Expenses</b>				
<b>Special Projects and Contingencies</b>				
HERO	700,000	332,225	47.46%	334,038
Special Projects	125,000	12,027	9.62%	224,164
Other Contractual Svcs	105,000	14,244	13.57%	12,000
Contingency	300,000	-	-	5,142
<b>Total Special Projects and Contingencies</b>	<b>1,230,000</b>	<b>358,496</b>	<b>29.15%</b>	<b>575,344</b>



**Central Texas Regional Mobility Authority**  
**Income Statement**  
**All Operating Departments**

Account Name	Budget Amount FY 2017	Actual Year to Date 10/31/2016	Percent of Budget	Actual PY to Date 10/31/2015
<b>Non Cash Expenses</b>				
Amortization Expense	383,230	127,812	33.35%	127,743
Amort Expense - Refund Savings	1,027,860	343,950	33.46%	342,620
Dep Exp- Furniture & Fixtures	2,207	736	33.34%	-
Dep Expense - Equipment	9,692	4,815	49.68%	1,685
Dep Expense - Autos & Trucks	6,406	2,135	33.33%	1,109
Dep Expense-Buildng & Toll Fac	177,115	59,038	33.33%	59,038
Dep Expense-Highways & Bridges	22,012,091	5,826,334	26.47%	5,617,289
Dep Expense-Communic Equip	196,115	65,372	33.33%	65,372
Dep Expense-Toll Equipment	2,756,238	918,746	33.33%	917,596
Dep Expense - Signs	325,893	108,631	33.33%	108,631
Dep Expense-Land Improvemts	884,934	294,978	33.33%	294,978
Depreciation Expense-Computers	16,203	4,902	30.25%	5,509
<b>Total Non Cash Expenses</b>	<b>27,797,984</b>	<b>7,757,448</b>	<b>27.91%</b>	<b>7,541,569</b>
<b>Total Other Expenses</b>	<b>29,027,984</b>	<b>8,115,944</b>	<b>27.96%</b>	<b>8,116,913</b>
<b>Non Operating Expenses</b>				
<b>Non Operating Expense</b>				
Bond issuance expense	200,000	1,008,413	504.21%	71,169
Interest Expense	42,813,675	10,920,466	25.51%	13,996,906
Community Initiatives	100,000	5,000	5.00%	5,000
<b>Total Non Operating Expense</b>	<b>43,113,675</b>	<b>11,933,880</b>	<b>27.68%</b>	<b>14,073,076</b>
<b>Total Expenses</b>	<b>\$ 94,838,998</b>	<b>\$ 25,191,724</b>	<b>26.56%</b>	<b>\$ 26,429,859</b>
<b>Net Income</b>	<b>\$ (22,871,542)</b>	<b>\$ 2,333,238</b>		<b>\$ 3,048,116</b>

## Central Texas Regional Mobility Authority

### Balance Sheet

	as of 10/31/2016	as of 10/31/2015
	<b>Assets</b>	
<b>Current Assets</b>		
<b>Cash</b>		
Regions Operating Account	\$ 1,255,273	\$ 219,555
Cash In TexSTAR	433,605	681,394
Regions Payroll Account	285,307	48,350
<b>Restricted Cash</b>		
Goldman Sachs	254,321,612	258,950,765
Restricted Cash-TexStar	135,860,435	7,321,020
Overpayments account	148,386	109,944
<b>Total Cash and Cash Equivalents</b>	392,304,618	267,331,028
<b>Accounts Receivable</b>		
Accounts Receivable	14,485	17,717
Due From Other Agencies	6,717,549	-
Due From TTA	317,833	435,254
Due From NTTA	500,555	381,571
Due From HCTRA	470,260	387,799
Due From TxDOT	41,989,455	1,927,894
Interest Receivable	495,550	28,521
<b>Total Receivables</b>	50,505,686	3,178,756
<b>Short Term Investments</b>		
Agencies	196,461,721	17,494,397
<b>Total Short Term Investments</b>	196,461,721	17,494,397
<b>Total Current Assets</b>	639,272,026	288,004,180
<b>Total Construction In Progress</b>	361,819,126	174,773,090
<b>Fixed Assets (Net of Depreciation)</b>		
Computers	35,370	51,073
Computer Software	1,023,221	1,388,350
Furniture and Fixtures	16,989	-
Equipment	8,164	1,687
Autos and Trucks	18,685	25,091
Buildings and Toll Facilities	5,408,615	5,596,623
Highways and Bridges	610,796,020	609,316,479
Communication Equipment	153,050	349,165
Toll Equipment	16,337,949	19,058,824
Signs	11,147,724	11,473,618
Land Improvements	11,213,895	12,098,829
Right of Way	86,849,829	86,838,919
Leasehold Improvements	161,489	173,859
<b>Total Fixed Assets</b>	743,171,001	746,372,517
<b>Other Assets</b>		
Intangible Assets-Net	103,012,537	12,557,803
2005 Bond Insurance Costs	4,643,804	4,857,313
Prepaid Insurance	135,527	130,553
Deferred Outflows (pension related)	780,064	-
Pension Asset	202,023	-
<b>Total Other Assets</b>	108,773,956	17,545,669
<b>Total Assets</b>	<b>\$ 1,853,036,109</b>	<b>\$ 1,226,695,457</b>

## Central Texas Regional Mobility Authority

### Balance Sheet

	as of 10/31/2016	as of 10/31/2015
<b>Liabilities</b>		
<b>Current Liabilities</b>		
Accounts Payable	\$ 3,307,387	\$ 823,595
Construction Payable-Maha Loop	608,608	3,502,147
Overpayments	150,751	112,006
Interest Payable	17,948,657	13,278,492
TCDRS Payable	49,817	61,626
Medical Reimbursement Payable	1,735	227
Due to Other Entities	7,482,692	690,530
<b>Total Current Liabilities</b>	<b>29,549,646</b>	<b>18,468,622</b>
<b>Long Term Liabilities</b>		
Compensated Absences	138,927	189,089
Deferred Inflows (pension related)	172,017	-
<b>Total Long Term Payables</b>	<b>310,944</b>	<b>189,089</b>
<b>Bonds Payable</b>		
Senior Lien Revenue Bonds:		
Senior Lien Revenue Bonds 2010	65,972,833	113,037,332
Senior Lien Revenue Bonds 2011	13,850,900	308,954,507
Senior Refunding Bonds 2013	147,880,000	182,555,000
Senior Lien Revenue Bonds 2015	298,790,000	-
Senior Lien Put Bnd 2015	68,785,000	-
Senior Lien Refunding Revenue Bonds 2016	358,030,000	-
Sn Lien Rev Bnd Prem/Disc 2010	-	39,634
Sn Lien Rev Bnd Prem/Disc 2011	-	(3,356,745)
Sn Lien Rev Bnd Prem/Disc 2013	11,357,189	13,449,513
Sn Lien Revenue Bnd Prem 2015	22,771,523	-
Sn Lien Put Bnd Prem 2015	6,831,664	-
Senior lien premium 2016 revenue bonds	58,898,049	-
<b>Total Senior Lien Revenue Bonds</b>	<b>1,053,167,159</b>	<b>614,679,242</b>
Sub Lien Revenue Bonds:		
Subordinated Lien Bond 2011	-	70,000,000
Sub Refunding Bnds 2013	102,030,000	102,530,000
Sub Debt Refunding Bonds 2016	74,690,000	-
Sub Lien Bond 2011 Prem/Disc	-	(1,756,380)
Sub Refunding 2013 Prem/Disc	2,650,587	3,138,222
Sub Refunding 2016 Prem/Disc	10,608,132	-
<b>Tot Sub Lien Revenue Bonds</b>	<b>189,978,719</b>	<b>173,911,842</b>
<b>Other Obligations</b>		
TIFIA Note 2015	51,658	-
SIB Loan 2015	30,032,385	-
State Highway Fund Loan 2015	30,032,385	-
2011 Regions Draw Down Note	-	952,516
2013 American Bank Loan	5,300,000	5,300,000
2015 Regions Bank Loan	-	21,018,500
<b>Total Other Obligations</b>	<b>65,416,427</b>	<b>27,271,016</b>
<b>Total Long Term Liabilities</b>	<b>1,308,873,249</b>	<b>816,051,189</b>
<b>Total Liabilities</b>	<b>1,338,422,895</b>	<b>834,519,811</b>
<b>Net Assets</b>		
Contributed Capital	35,847,060	35,847,060
Net Assets Beginning	476,432,915	353,268,910
Current Year Operations	2,333,238	3,059,676
<b>Total Net Assets</b>	<b>514,613,213</b>	<b>392,175,646</b>
<b>Total Liabilities and Net Assets</b>	<b>\$ 1,853,036,109</b>	<b>\$ 1,226,695,457</b>

**Central Texas Regional Mobility Authority**  
**Statement of Cash Flows - FY 2016 - Unaudited**  
**as of October 31, 2016**

**Cash flows from operating activities:**

Receipts from toll fees	\$ 23,330,249
Receipts from other fees	51,121
Payments to vendors	1,297,235
Payments to employees	<u>(1,423,964)</u>
Net cash flows provided by (used in) operating activities	<u>23,254,642</u>

**Cash flows from capital and related financing activities:**

Proceeds from notes payable	48,662,339
Refunding of bonds	(10,106,216)
Receipts from Department of Transportation	44,347,612
Payments on interest	(13,601,383)
Acquisition of capital assets	(43,063)
Acquisitions of construction in progress	<u>(51,126,569)</u>
Net cash flows provided by (used in) capital and related financing activities	<u>18,132,720</u>

**Cash flows from investing activities:**

Interest income	803,633
Purchase of investments	(139,133,328)
Proceeds from sale or maturity of investments	<u>29,802,356</u>
Net cash flows provided by (used in) investing activities	<u>(108,527,338)</u>

Net increase (decrease) in cash and cash equivalents (67,139,976)

Cash and cash equivalents at beginning of period	<u>323,150,553</u>
Cash and cash equivalents at end of June	<u>\$ 256,010,577</u>

**Reconciliation of change in net assets to net cash provided by operating activities:**

Operating income	<u>\$ 10,596,396</u>
Adjustments to reconcile change in net assets to net cash provided by operating activities:	
Depreciation and amortization	7,413,498
Changes in assets and liabilities:	
Decrease in accounts receivable	(129,489)
(Increase) decrease in prepaid expenses and other assets	(27,926)
(Increase) in non-cash revenue (due from other agencies)	
(Decrease) increase in accounts payable	(1,329,937)
Increase (decrease) in accrued expenses	<u>6,732,100</u>
Total adjustments	<u>12,658,246</u>
Net cash flows provided by (used in) operating activities	<u>\$ 23,254,642</u>

**Reconciliation of cash and cash equivalents:**

Unrestricted cash and cash equivalents	\$ 1,688,965
Restricted cash and cash equivalents	254,321,612
Total	<u>\$ 256,010,577</u>

**INVESTMENTS by FUND**

		Balance October 31, 2016		
Renewal & Replacement Fund				
TexSTAR	504,092.96		TexSTAR	136,294,039.80
Goldman Sachs	188,329.15		CD's	-
Agencies		692,422.11	Goldman Sachs	254,023,220.08
TxDOT Grant Fund			Agencies	196,461,333.11
TexSTAR	4,086,323.64			
Goldman Sachs	5,460,860.63			
CD's				
Agencies		9,547,184.27		
Senior Debt Service Reserve Fund				
TexSTAR	10,601,925.20			
Goldman Sachs	17,617,227.22			
Agencies	51,473,846.23	79,692,998.65		
2010 Senior Lien DSF				
Goldman Sachs	634,841.26			
TexSTAR	-	634,841.26		
2011 Debt Service Acct				
Goldman Sachs	750,122.81	750,122.81		
2013 Sr Debt Service Acct				
Goldman Sachs	7,185,004.77	7,185,004.77		
2013 Sub Debt Service Account				
Goldman Sachs	1,951,060.77	6,955,802.68		
TexSTAR	5,004,741.91			
2015 Sr Capitalized Interest				
Goldman Sachs	18,041,082.74	68,068,154.73		
TexSTAR	50,027,071.99			
2015A Debt Service Account				
Goldman Sachs	3.30	3.30		
2015B Debt Service Account				
Goldman Sachs	1,146,720.16	1,146,720.16		
2016 Sr Lien Rev Refunding Cost of Issuance				
Goldman Sachs	-	-		
2016 Sr Lien Rev Refunding Debt Service Account				
Goldman Sachs	8,725,481.30	8,725,481.30		
2016 Sub Lien Rev Refunding Cost of Issuance				
Goldman Sachs	-	-		
2016 Sub Lien Rev Refunding Bond Proceeds Clearing Fund				
Goldman Sachs	-	-		
2016 Sub Lien Rev Refunding Debt Service Account				
Goldman Sachs	1,332,200.40	1,332,200.40		
2016 Sub Lein Rev Refunding DSR				
Goldman Sachs	6,627,735.64	6,627,735.64		
Operating Fund				
TexSTAR	433,605.17			
TexSTAR-Trustee	1,116,197.24			
Goldman Sachs	-	1,549,802.41		
Revenue Fund				
Goldman Sachs	2,578,566.71	2,578,566.71		
General Fund				
TexSTAR	25,024,629.59			
Goldman Sachs	14,797,336.74			
Agencies	4,412,127.50	44,234,093.83		
2013 Sub Debt Service Reserve Fund				
Goldman Sachs	3,468,401.74			
Agencies		3,468,401.74		
MoPac Construction Fund				
Goldman Sachs	46,596,492.16	46,596,492.16		
2011 Sub Debt Project fund				
TexSTAR	4,187,950.74			
Agencies				
Goldman Sachs	2,982,225.91	7,170,176.65		
2015B Project Account				
Goldman Sachs	4,885,684.56			
Agencies	20,237,732.51	40,131,538.71		
TexSTAR	15,008,121.64			
2015A Project Account				
TexSTAR	5,285,154.00			
Goldman Sachs	39,253,554.30			
Agencies	120,337,626.87	164,876,335.17		
2015 TIFIA Project Account				
Goldman Sachs	50,209.68	50,209.68		
2015 State Highway Fund Project Account				
Goldman Sachs	28,152,898.72	28,152,898.72		
2015 SIB Project Account				
Goldman Sachs	14,064,923.15	14,064,923.15		
2011 Sr Financial Assistance Fund				
Goldman Sachs	15,151,060.43	30,165,286.15		
TexSTAR	15,014,225.72			
2011 Senior Lien Project Fund				
Goldman Sachs	0.00			
Agencies		0.00		
Developer Deposits				
Goldman Sachs	280,114.03	280,114.03		
183S Utility Custody Deposit				
Goldman Sachs	6,718,205.79			
45SW Trust Account Hays County				
Goldman Sachs	64,177.47	64,177.47		
45SW Trust Account Travis County				
Goldman Sachs	5,318,698.54	5,318,698.54		
		<u>\$ 580,060,387.20</u>		

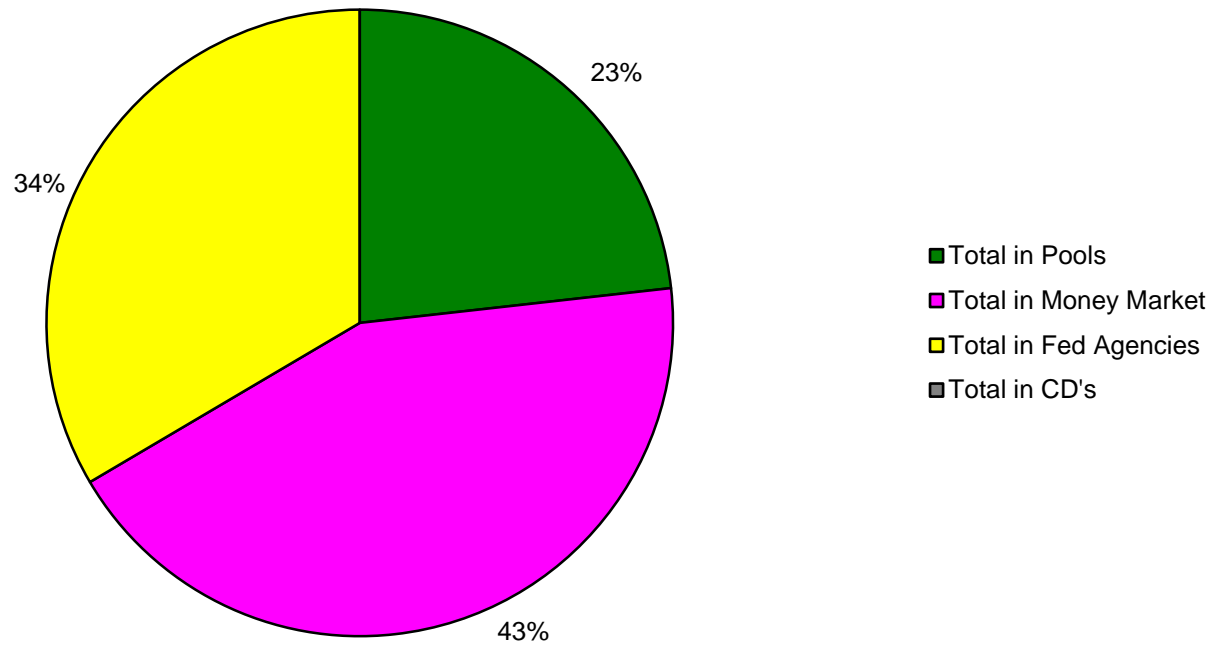
**CTRMA INVESTMENT REPORT**

	Month Ending 10/31/16					Balance 10/31/2016	Rate August
	Balance 10/1/2016	Additions	Discount Amortization	Accrued Interest	Withdrawals		
<b>Amount in Trustee TexStar</b>							
2011 Sub Lien Construction Fund	4,186,456.69			1,494.05		4,187,950.74	0.420%
2011 Sr Lien Financial Assist Fund	15,008,869.44			5,356.28		15,014,225.72	0.420%
2013 Sub Lien Debt Service Reserve General Fund	5,002,956.50			1,785.41		5,004,741.91	0.420%
Trustee Operating Fund	25,015,702.12			8,927.47		25,024,629.59	0.420%
Renewal and Replacement	1,490,996.04	1,624,750.00		451.20	2,000,000.00	1,116,197.24	0.420%
TxDOT Grant Fund	503,913.13			179.83		504,092.96	0.420%
Senior Lien Debt Service Reserve Fund	4,084,865.87			1,457.77		4,086,323.64	0.420%
2015A Sr Ln Project Subaccount	10,598,143.02			3,782.18		10,601,925.20	0.420%
2015A Sr Ln Project Cap Interest	5,283,268.55			1,885.45		5,285,154.00	0.420%
2015B Sr Ln Project	50,009,224.80			17,847.19		50,027,071.99	0.420%
	15,002,767.48			5,354.16		15,008,121.64	0.420%
	<b>136,187,163.64</b>	<b>1,624,750.00</b>		<b>48,520.99</b>	<b>2,000,000.00</b>	<b>135,860,434.63</b>	
<b>Amount in TexStar Operating Fund</b>	<b>883,404.22</b>	<b>2,000,000.00</b>		<b>200.95</b>	<b>2,450,000.00</b>	<b>433,605.17</b>	<b>0.420%</b>
<b>Goldman Sach</b>							
Operating Fund	0.00	1,624,750.00		0.00	1,624,750.00	0.00	0.280%
45SW Trust Account Travis County	5,622,007.90			764.23	304,073.59	5,318,698.54	0.280%
45SW Trust Account Hays County	64,292.70			8.90	124.13	64,177.47	0.280%
2015A Project Account	45,887,240.03	100,125.00		4,033.84	6,737,844.57	39,253,554.30	0.280%
2015B Project Account	4,884,397.48			1,287.08		4,885,684.56	0.280%
2015D State Highway Fund Project Acct	28,149,439.29			3,459.43		28,152,898.72	0.280%
2015C TIFIA Project Account	50,202.96			6.72		50,209.68	0.280%
2015E SIB Project Account	14,063,350.42			1,572.73		14,064,923.15	0.280%
2011 Sub Lien Project Acct	4,066,073.36			545.55	1,084,393.00	2,982,225.91	0.280%
Developer Deposits	280,076.52			37.51		280,114.03	0.280%
183S Utility Custody Deposit	6,717,548.97			656.82		6,718,205.79	0.280%
2011 Sr Financial Assistance Fund	14,930,184.33	219,043.18		1,832.92		15,151,060.43	0.280%
2010 Senior DSF	634,756.24			85.02		634,841.26	0.280%
2011 Senior Lien Debt Service Acct	750,022.35			100.46		750,122.81	0.280%
2013 Senior Lien Debt Service Acct	6,829,369.98	354,735.12		899.67		7,185,004.77	0.280%
2013 Subordinate Debt Service Acct	1,525,871.13	425,003.31		186.33		1,951,060.77	0.280%
2015 Sr Capitalized Interest	18,036,543.62			4,539.12		18,041,082.74	0.280%
2015A Debt Service Acct	3.30					3.30	0.280%
2015B Debt Service Acct	860,085.07	286,532.05		103.04		1,146,720.16	0.280%
2016 Sr Lien Rev Refunding Cost of Issuance	52,615.47			7.05	52,622.52	0.00	0.280%
2016 Sr Lien Rev Refunding Debt Service Account	8,724,312.75			1,168.55		8,725,481.30	0.280%
2016 Sub Lien Rev Refunding Cost of Issuance	78,939.69			10.57	78,950.26	0.00	0.280%
2016 Sub Lien Rev Refunding Debt Service Account	1,332,021.99			178.41		1,332,200.40	0.280%
2016 Sub Lein Rev Refunding DSR	6,626,848.03			887.61		6,627,735.64	0.280%
TxDOT Grant Fund	5,460,129.29			731.34		5,460,860.63	0.280%
Renewal and Replacement	188,303.93			25.22		188,329.15	0.280%
Revenue Fund	3,864,204.89	6,734,329.94		364.13	8,020,332.25	2,578,566.71	0.280%
General Fund	10,295,889.55	4,802,784.07		1,372.06	302,708.94	14,797,336.74	0.280%
Senior Lien Debt Service Reserve Fund	17,614,869.17			2,358.05		17,617,227.22	0.280%
2013 Sub Debt Service Reserve Fund	3,467,937.24			464.50		3,468,401.74	0.280%
MoPac Managed Lane Construction Fund	49,149,133.83			6,777.98	2,559,419.65	46,596,492.16	0.280%
	<b>260,206,671.48</b>	<b>14,547,302.67</b>	<b>0.00</b>	<b>34,464.84</b>	<b>20,765,218.91</b>	<b>254,023,220.08</b>	
<b>Amount in Fed Agencies and Treasuries</b>							
Amortized Principal	196,508,763.56		(47,430.45)			196,461,333.11	
	196,508,763.56	0.00	(47,430.45)	0.00	0.00	196,461,333.11	
<b>Certificates of Deposit</b>						0.00	
<b>Total in Pools</b>	137,070,567.86	3,624,750.00		48,721.94	4,450,000.00	136,294,039.80	
<b>Total in GS FSGF</b>	260,206,671.48	14,547,302.67		34,464.84	20,765,218.91	254,023,220.08	
<b>Total in Fed Agencies</b>	196,508,763.56		(47,430.45)		0.00	196,461,333.11	
<b>Total Invested</b>	<b>593,786,002.90</b>	<b>18,172,052.67</b>	<b>(47,430.45)</b>	<b>83,186.78</b>	<b>25,215,218.91</b>	<b>586,778,592.99</b>	

All Investments in the portfolio are in compliance with the CTRMA's Investment policy.

William Chapman, CFO

## Allocation of Funds



Amount of investments As of October 31, 2016

Agency	CUSIP #	COST	Book Value	Market Value	Yield to Maturity	Purchased	Matures	FUND
Farmer Mac	31315PV55	2,501,200.00	2,500,200.00	2,502,800.00	0.7751%	3/11/2015	2/23/2017	Senior DSRF
Federal Farm Credit	3133ECA79	4,959,250.00	4,980,756.94	4,987,750.00	1.2155%	3/11/2015	3/19/2018	Senior DSRF
Federal Farm Credit	3133EE4K3	24,928,346.00	24,965,328.71	25,009,500.00	0.7200%	1/13/2016	7/21/2017	Senior DSRF
Federal Farm Credit	3133EFG3	10,057,749.23	10,038,752.71	10,016,200.00	0.8421%	2/8/2016	3/14/2018	2015B Sr Project
Federal Home loan Bank	313378QK0	10,253,642.07	10,198,979.80	10,194,500.00	1.0369%	2/8/2016	3/8/2019	2015B Sr Project
Federal Home loan Bank	3030A3J70	5,001,836.28	5,000,193.97	17,003,230.00	0.5781%	2/9/2016	11/23/2016	2015A Sr Project
Federal Home loan Bank	3030A3J70	12,005,994.72	12,000,499.56		0.5580%	2/23/2016	11/23/2016	2015A Sr Project
Freddie Mac	3137EADF3	16,124,658.17	16,053,099.83	16,056,640.00	0.6259%	2/9/2016	11/23/2016	2015A Sr Project
Freddie Mac	3134G4Z84	9,850,343.91	9,829,137.97	9,834,300.00	0.8097%	2/18/2016	10/10/2017	2015A Sr Project
Federal Farm Credit	3133ECKC7	8,000,866.72	8,000,328.30	8,007,680.00	0.6400%	2/23/2016	3/28/2017	2015A Sr Project
Federal Home loan Bank	3030A62S5	6,984,310.89	6,991,017.68	7,007,070.00	0.9053%	3/14/2016	8/28/2017	2015A Sr Project
Fannie MAE	3035G0GY3	8,037,563.20	8,010,698.38	8,016,400.00	0.7122%	3/14/2016	1/30/2017	2015A Sr Project
Fannie MAE	3135G0JA2	8,031,624.00	8,014,124.86	8,023,440.00	0.9023%	3/14/2016	4/27/2017	2015A Sr Project
Federal Home loan Bank	303370SZ2	14,536,023.18	14,408,901.77	14,439,952.50	0.9023%	3/7/2016	9/8/2017	2015A Sr Project
Federal Home loan Bank	3030A5QL6	8,000,900.56	8,000,450.28	8,010,720.00	0.7913%	3/4/2016	6/30/2017	2015A Sr Project
Freddie Mac	3137EADT3	8,013,462.84	8,004,540.41	8,011,200.00	0.6999%	3/4/2016	2/22/2017	2015A Sr Project
Federal Home loan Bank	313379FW4	8,027,415.64	8,013,451.60	8,018,000.00	0.7098%	3/30/2016	6/9/2017	2015A Sr Project
Federal Home loan Bank	3030A6SW8	10,039,900.00	10,027,562.50	10,029,200.00	0.7616%	4/11/2016	12/19/2016	Senior DSRF
Federal Home loan Bank	3030A6SW8	4,417,556.00	4,412,127.50	4,412,848.00	0.7616%	4/11/2016	12/19/2016	General
Federal Home loan Bank	313371PV2	8,058,893.21	8,011,182.26	8,010,880.00	0.4985%	4/12/2016	12/9/2016	2015A Sr Project
Federal Home loan Bank	3130A7T62	8,999,994.24	8,999,998.08	9,001,620.00	0.5501%	4/18/2016	1/18/2017	Senior DSRF
		<u>196,831,530.86</u>	<u>196,461,333.11</u>	<u>196,593,930.50</u>				

Agency	CUSIP #	COST	Cummulative Amortization	10/31/2016 Book Value	Maturity Value	Interest Income October 31, 2016		
						Accrued Interest	Amortization	Interest Earned
Farmer Mac	31315PV55	2,501,200.00	1,000.00	2,500,200.00	2,500,000.00	1,666.67	(50.00)	1,616.67
Federal Farm Credit	3133ECA79	4,959,250.00	(21,506.94)	4,980,756.94	5,000,000.00	3,916.67	1,131.94	5,048.61
Federal Farm Credit	3133EE4K3	24,928,346.00	(36,982.71)	24,965,328.71	25,000,000.00	15,000.00	3,852.37	18,852.37
Federal Farm Credit	3133EFG3	10,057,749.23	18,996.52	10,038,752.71	10,000,000.00	9,166.67	(2,279.58)	6,887.09
Federal Home loan Bank	313378QK0	10,253,642.07	54,662.27	10,198,979.80	10,000,000.00	15,625.00	(6,861.37)	8,763.63
Federal Home loan Bank	3030A3J70	5,001,836.28	1,642.31	5,000,193.97	5,000,000.00	2,604.17	(193.97)	2,410.20
Federal Home loan Bank	3130A3J70	12,005,994.72	5,495.16	12,000,499.56	12,000,000.00	6,250.00	(499.56)	5,750.44
Freddie Mac	3137EADF3	16,124,658.17	71,558.34	16,053,099.83	16,000,000.00	16,666.67	(7,585.69)	9,080.98
Freddie Mac	3134G4Z84	9,850,343.91	21,205.94	9,829,137.97	9,800,000.00	9,187.50	(2,428.16)	6,759.34
Federal Farm Credit	3133ECKC7	8,000,866.72	538.42	8,000,328.30	8,000,000.00	4,333.33	(65.66)	4,267.67
Federal Home loan Bank	3030A62S5	6,984,310.89	(6,706.79)	6,991,017.68	7,000,000.00	4,375.00	898.23	5,273.23
Fannie MAE	3035G0GY3	8,037,563.20	26,864.82	8,010,698.38	8,000,000.00	8,333.33	(3,566.13)	4,767.20
Fannie MAE	3135G0JA2	8,031,624.00	17,499.14	8,014,124.86	8,000,000.00	7,500.00	(2,354.14)	5,145.86
Federal Home loan Bank	303370SZ2	14,536,023.18	127,121.41	14,408,901.77	14,250,000.00	26,718.75	(15,890.18)	10,828.57
Federal Home loan Bank	3030A5QL6	8,000,900.56	450.28	8,000,450.28	8,000,000.00	5,333.33	(56.28)	5,277.05
Freddie Mac	3137EADT3	8,013,462.84	8,922.43	8,004,540.41	8,000,000.00	5,833.33	(1,135.10)	4,698.23
Federal Home loan Bank	313379FW4	8,027,415.64	13,964.04	8,013,451.60	8,000,000.00	6,666.67	(1,921.66)	4,745.01
Federal Home loan Bank	3030A6SW8	10,039,900.00	12,337.50	10,027,562.50	10,000,000.00	8,333.33	(1,968.75)	6,364.58
Federal Home loan Bank	3030A6SW8	4,417,556.00	5,428.50	4,412,127.50	4,400,000.00	3,666.67	(866.25)	2,800.42
Federal Home loan Bank	313371PV2	8,058,893.21	47,710.95	8,011,182.26	8,000,000.00	10,833.33	(5,591.13)	5,242.20
Federal Home loan Bank	3130A7T62	8,999,994.24	(3.84)	8,999,998.08	9,000,000.00	4,125.00	0.64	4,125.64
		<u>196,831,530.86</u>	<u>370,197.75</u>	<u>196,461,333.11</u>	<u>195,950,000.00</u>	<u>176,135.42</u>	<u>(47,430.45)</u>	<u>128,704.99</u>



October 31, 2016

Certificates of Deposit Outstanding

Bank	CUSIP #	COST	Yield to Maturity	Purchased	Matures	October 31, 2016 Interest	FUND
		- <u>                    </u>				\$ - <u>                    </u>	

Travis County Escrow account					
Balance		Accrued		Balance	
10/1/2016	Additions	Interest	Withdrawals	10/31/2016	
\$ 321,260.76		\$ 43.31	\$ 22,912.30	\$ 298,391.77	



## Monthly Newsletter - October 2016

### Performance

#### As of October 31, 2016

Current Invested Balance	\$5,155,508,603.07
Weighted Average Maturity (1)	44 Days
Weighted Average Maturity (2)	110 Days
Net Asset Value	1.000469
Total Number of Participants	820
Management Fee on Invested Balance	0.05%*
Interest Distributed	\$2,079,522.68
Management Fee Collected	\$220,578.19
% of Portfolio Invested Beyond 1 Year	7.27%
Standard & Poor's Current Rating	AAAm

#### October Averages

Average Invested Balance	\$5,208,568,724.24
Average Monthly Yield, on a simple basis	0.4202%
Average Weighted Average Maturity (1)*	39 Days
Average Weighted Average Maturity (2)*	105 Days

#### Definition of Weighted Average Maturity (1) & (2)

- (1) This weighted average maturity calculation uses the SEC Rule 2a-7 definition for stated maturity for any floating rate instrument held in the portfolio to determine the weighted average maturity for the pool. This Rule specifies that a variable rate instrument to be paid in 397 calendar days or less shall be deemed to have a maturity equal to the period remaining until the next readjustment of the interest rate.
- (2) This weighted average maturity calculation uses the final maturity of any floating rate instruments held in the portfolio to calculate the weighted average maturity for the pool.

\* The maximum management fee authorized for the TexSTAR Cash Reserve Fund is 12 basis points. This fee may be waived in full or in part in the discretion of the TexSTAR co-administrators at any time as provided for in the TexSTAR Information Statement.

Rates reflect historical information and are not an indication of future performance.

### New Participants

We would like to welcome the following entities who joined the TexSTAR program in October:

★ Venus ISD

★ Webb CISD

### Holiday Reminder

In observance of the **Veterans Day** holiday, **TexSTAR will be closed Friday, November 11, 2016**. All ACH transactions initiated on Thursday, November 10th will settle on Monday, November 14th.

In observance of the **Thanksgiving Day** holiday, **TexSTAR will be closed Thursday, November 24, 2016**. All ACH transactions initiated on Wednesday, November 23rd will settle Friday, November 25th. Notification of any early transaction deadlines on the day preceding or following this holiday will be sent out by email to the primary contact on file for all TexSTAR participants. Please plan accordingly for your liquidity needs.

### Economic Commentary

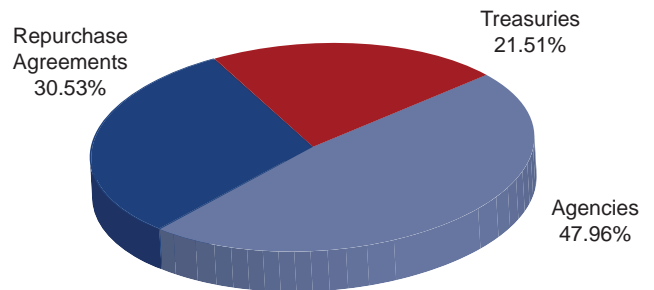
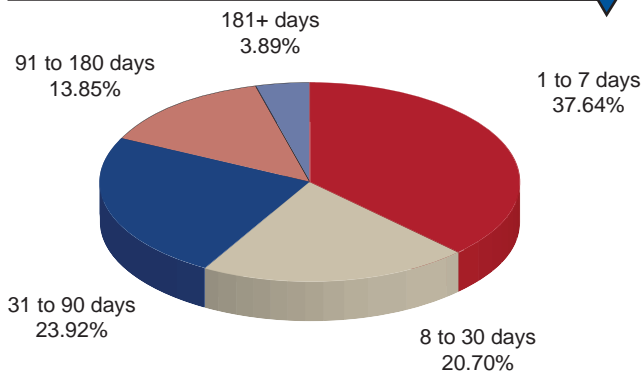
During the month of October, Treasury rates sold off as the market became more convinced that the Federal Reserve (Fed) will raise rates in December. According to Fed Fund futures at month end, traders predict 71% likelihood that the Fed raises rates 25 basis points (bps). US economic data released during the month supported the market's claim, as the first estimate of third-quarter US GDP showed that growth has rebounded from the weakness seen in the first half of the year boosted by consumer spending as well as inventory investment and exports. Improvements in Purchasing Managers' Index (PMI) support the view that manufacturing is picking up which had weighed on growth for much of the year. The US Presidential election continued to dominate headlines as investors try to navigate the potential impact on the markets. Regardless of who wins, both candidates pledged to increase fiscal spending to rebuild infrastructure in the US. While this may be bad news for bondholders, due to increased issuance to pay for the spending, this will be positive for economic growth. SEC money market fund (MMF) reform came into effect on October 14th. Approximately \$1 trillion in assets have shifted from prime MMFs to government MMFs. These reforms did not impact the government investment pools. In terms of the next federal funds rate increase, the Fed has signaled a cautious approach to tightening which is focused more heavily on risk management. The Fed will wait for a clear path to raise rates in which the US economic data as well as financial markets conditions allow them to make a move. The committee has expressed a desire to raise rates once this year. Moderate economic growth in Q3 should allow them to raise rates in December barring a sharp tightening of financial conditions which could be spurred by Presidential election or another exogenous shock. The general forecast continues to support one rate hike during 2016 at the December FOMC.

This information is an excerpt from an economic report dated October 2016 provided to TexSTAR by JP Morgan Asset Management, Inc., the investment manager of the TexSTAR pool.

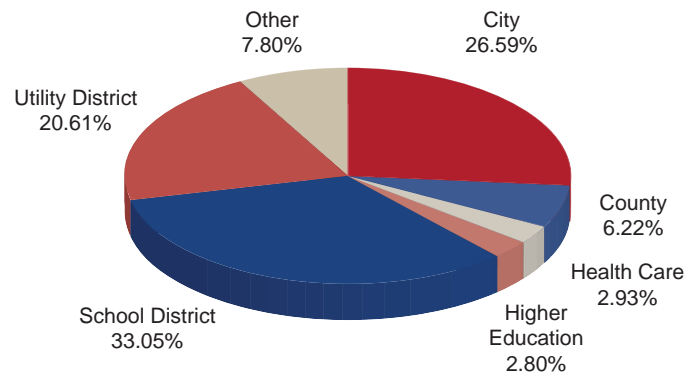
**For more information about TexSTAR, please visit our web site at [www.texstar.org](http://www.texstar.org).**

# Information at a Glance

## Portfolio by Type of Investment As of October 31, 2016



## Portfolio by Maturity As of October 31, 2016



## Distribution of Participants by Type As of October 31, 2016

# Historical Program Information

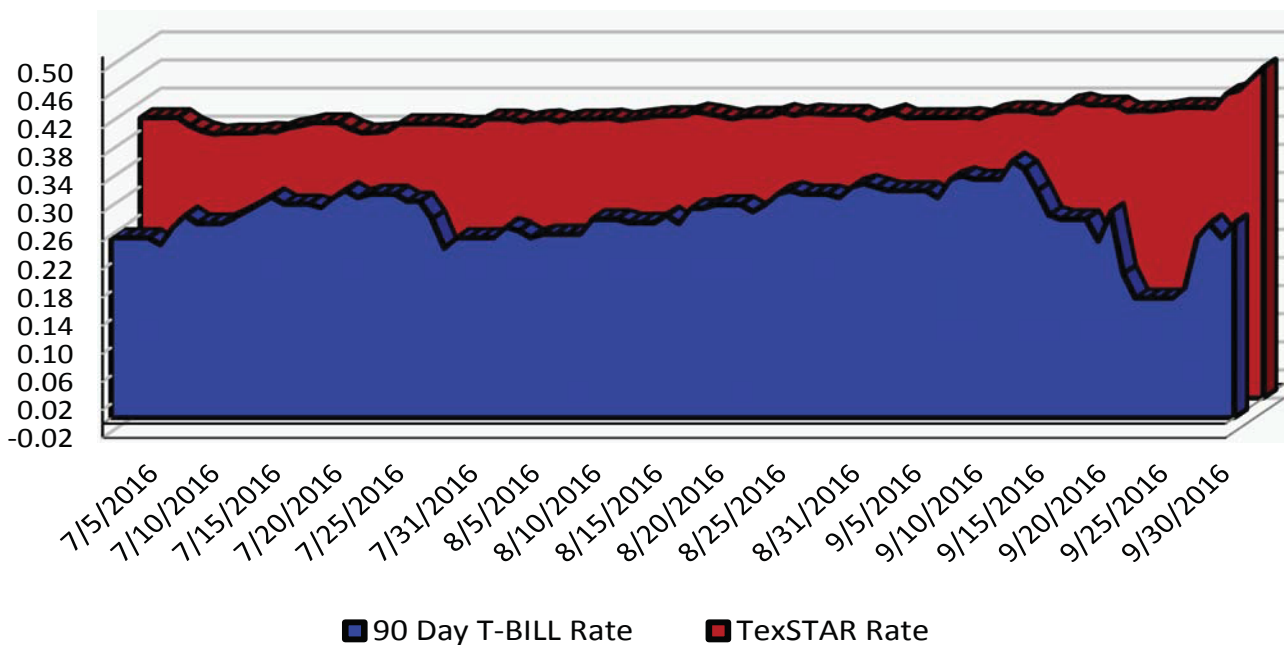
Month	Average Rate	Book Value	Market Value	Net Asset Value	WAM (1)*	WAM (2)*	Number of Participants
Oct 16	0.4202%	\$5,155,508,603.07	\$5,157,927,996.01	1.000469	39	105	820
Sep 16	0.4123%	5,253,367,191.87	5,255,503,092.88	1.000412	43	115	818
Aug 16	0.3990%	5,436,604,745.94	5,438,039,955.56	1.000263	39	114	817
Jul 16	0.3861%	5,602,432,939.56	5,603,475,110.87	1.000186	46	113	813
Jun 16	0.3927%	5,286,667,625.92	5,287,554,140.45	1.000167	47	111	810
May 16	0.3664%	5,716,887,504.32	5,717,379,585.85	1.000086	48	111	807
Apr 16	0.3696%	5,540,251,067.80	5,541,072,494.98	1.000144	46	106	805
Mar 16	0.3450%	5,594,793,523.15	5,595,290,113.49	1.000088	45	86	803
Feb 16	0.3147%	6,329,887,983.78	6,330,019,653.99	1.000020	46	85	797
Jan 16	0.2713%	5,856,455,946.61	5,856,245,669.97	0.999964	41	79	797
Dec 15	0.1868%	5,077,006,074.74	5,076,619,261.50	0.999915	45	75	797
Nov 15	0.1155%	4,985,405,721.88	4,985,138,368.79	0.999946	48	80	797

# Portfolio Asset Summary as of October 31, 2016

	Book Value	Market Value
Uninvested Balance	\$ 26,676.20	\$ 26,676.20
Accrual of Interest Income	6,581,227.83	6,581,227.83
Interest and Management Fees Payable	(2,113,843.22)	(2,113,843.22)
Payable for Investment Purchased	0.00	0.00
Repurchase Agreement	1,572,609,999.68	1,572,609,999.68
Government Securities	3,578,404,542.58	3,580,823,935.52
<b>Total</b>	<b>\$ 5,155,508,603.07</b>	<b>\$ 5,157,927,996.01</b>

Market value of collateral supporting the Repurchase Agreements is at least 102% of the Book Value. The portfolio is managed by J.P. Morgan Chase & Co. and the assets are safekept in a separate custodial account at the Federal Reserve Bank in the name of TexSTAR. The only source of payment to the Participants are the assets of TexSTAR. There is no secondary source of payment for the pool such as insurance or guarantee. Should you require a copy of the portfolio, please contact TexSTAR Participant Services.

# TexSTAR versus 90-Day Treasury Bill



This material is for information purposes only. This information does not represent an offer to buy or sell a security. The above rate information is obtained from sources that are believed to be reliable; however, its accuracy or completeness may be subject to change. The TexSTAR management fee may be waived in full or in part at the discretion of the TexSTAR co-administrators and the TexSTAR rate for the period shown reflects waiver of fees. This table represents historical investment performance/return to the customer, net of fees, and is not an indication of future performance. An investment in the security is not insured or guaranteed by the Federal Deposit Insurance Corporation or any other government agency. Although the issuer seeks to preserve the value of an investment at \$1.00 per share, it is possible to lose money by investing in the security. Information about these and other program details are in the fund's Information Statement which should be read carefully before investing. The yield on the 90-Day Treasury Bill ("T-Bill Yield") is shown for comparative purposes only. When comparing the investment returns of the TexSTAR pool to the T-Bill Yield, you should know that the TexSTAR pool consist of allocations of specific diversified securities as detailed in the respective Information Statements. The T-Bill Yield is taken from Bloomberg Finance L.P. and represents the daily closing yield on the then current 90-day T-Bill.

## Daily Summary for October 2016

Date	Mny Mkt Fund Equiv. [SEC Std.]	Daily Allocation Factor	TexSTAR Invested Balance	Market Value Per Share	WAM Days (1)*	WAM Days (2)*
10/1/2016	0.4695%	0.000012862	\$5,253,367,191.87	1.000412	41	108
10/2/2016	0.4695%	0.000012862	\$5,253,367,191.87	1.000412	41	108
10/3/2016	0.4232%	0.000011594	\$5,229,770,388.25	1.000405	41	108
10/4/2016	0.4373%	0.000011982	\$5,272,767,510.02	1.000387	41	108
10/5/2016	0.4265%	0.000011684	\$5,238,697,483.45	1.000416	42	109
10/6/2016	0.4372%	0.000011978	\$5,234,964,829.37	1.000430	41	108
10/7/2016	0.4188%	0.000011475	\$5,168,448,822.00	1.000424	39	106
10/8/2016	0.4188%	0.000011475	\$5,168,448,822.00	1.000424	39	106
10/9/2016	0.4188%	0.000011475	\$5,168,448,822.00	1.000424	39	106
10/10/2016	0.4188%	0.000011475	\$5,168,448,822.00	1.000424	39	106
10/11/2016	0.4146%	0.000011360	\$5,208,324,239.67	1.000419	38	104
10/12/2016	0.4224%	0.000011573	\$5,194,266,662.67	1.000416	37	104
10/13/2016	0.4248%	0.000011639	\$5,151,095,395.07	1.000503	37	104
10/14/2016	0.4132%	0.000011320	\$5,236,744,837.86	1.000496	35	100
10/15/2016	0.4132%	0.000011320	\$5,236,744,837.86	1.000496	35	100
10/16/2016	0.4132%	0.000011320	\$5,236,744,837.86	1.000496	35	100
10/17/2016	0.4130%	0.000011315	\$5,263,768,799.79	1.000489	36	100
10/18/2016	0.4058%	0.000011117	\$5,246,967,833.73	1.000482	36	100
10/19/2016	0.3979%	0.000010900	\$5,246,341,496.62	1.000049	35	100
10/20/2016	0.4084%	0.000011189	\$5,219,622,583.74	1.000485	35	102
10/21/2016	0.4024%	0.000011026	\$5,213,883,842.90	1.000481	34	99
10/22/2016	0.4024%	0.000011026	\$5,213,883,842.90	1.000481	34	99
10/23/2016	0.4024%	0.000011026	\$5,213,883,842.90	1.000481	34	99
10/24/2016	0.4138%	0.000011336	\$5,180,665,849.81	1.000495	39	105
10/25/2016	0.4118%	0.000011282	\$5,216,080,563.83	1.000481	40	106
10/26/2016	0.4146%	0.000011360	\$5,216,765,979.61	1.000473	39	105
10/27/2016	0.4220%	0.000011563	\$5,163,532,351.48	1.000481	45	110
10/28/2016	0.4217%	0.000011553	\$5,164,691,389.03	1.000475	44	110
10/29/2016	0.4217%	0.000011553	\$5,164,691,389.03	1.000475	44	110
10/30/2016	0.4217%	0.000011553	\$5,164,691,389.03	1.000475	44	110
10/31/2016	0.4268%	0.000011694	\$5,155,508,603.07	1.000469	44	110
<b>Average</b>	<b>0.4202%</b>	<b>0.000011512</b>	<b>\$5,208,568,724.24</b>		<b>39</b>	<b>105</b>

TexSTAR Participant Services  
FirstSouthwest, A Division of Hilltop Securities  
1201 Elm Street, Suite 3500  
Dallas, Texas 75270



### **TexSTAR Board Members**

<i>William Chapman</i>	<i>Central Texas Regional Mobility Authority</i>	<i>Governing Board President</i>
<i>Nell Lange</i>	<i>City of Frisco</i>	<i>Governing Board Vice President</i>
<i>Kenneth Huewitt</i>	<i>Houston ISD</i>	<i>Governing Board Treasurer</i>
<i>David Medanich</i>	<i>FirstSouthwest / Hilltop Securities</i>	<i>Governing Board Secretary</i>
<i>Jennifer Novak</i>	<i>J.P. Morgan Asset Management</i>	<i>Governing Board Asst. Sec./Treas.</i>
<i>Eric Cannon</i>	<i>City of Allen</i>	<i>Advisory Board</i>
<i>Nicole Conley</i>	<i>Austin ISD</i>	<i>Advisory Board</i>
<i>Monte Mercer</i>	<i>North Central TX Council of Government</i>	<i>Advisory Board</i>
<i>Stephen Fortenberry</i>	<i>Plano ISD</i>	<i>Advisory Board</i>
<i>Becky Brooks</i>	<i>Government Resource Associates, LLC</i>	<i>Advisory Board</i>

**For more information contact TexSTAR Participant Services ★ 1-800-TEX-STAR ★ [www.texstar.org](http://www.texstar.org)**





**CENTRAL TEXAS  
Regional Mobility Authority**

November 30, 2016  
AGENDA ITEM #5

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Add the 290E Phase III Project to the Mobility  
Authority Turnpike System

Strategic Plan Relevance: Regional Mobility  
Department: Finance  
Contact: Bill Chapman, Chief Financial Officer  
Associated Costs: N/A  
Funding Source: N/A  
Board Action Required: Yes

Summary:

Currently, the 183 South Project, the Manor Expressway (290 East) Project, and the 183A Turnpike Project (including the Phase II Extension) have been designated by the Board as the "CTRMA Turnpike System" (the "System") and are operated as one operational and financial enterprise. System revenues are accounted for separately and may not be commingled with revenues of other Mobility Authority transportation projects that are not a part of the System.

Under Section 370.034 of the Texas Transportation Code, the Board, after making certain determinations, may expand the System to add a transportation project. The draft resolution makes the required findings and adds the 290E Phase III Project to the existing Mobility Authority Turnpike System.

Backup Provided: Draft Resolution

**GENERAL MEETING OF THE BOARD OF DIRECTORS  
OF THE  
CENTRAL TEXAS REGIONAL MOBILITY AUTHORITY**

**RESOLUTION NO. 16-0XX**

**ADDING THE 290E PHASE III PROJECT  
TO THE MOBILITY AUTHORITY TURNPIKE SYSTEM.**

WHEREAS, pursuant to Section 370.034 of the Texas Transportation Code, the Board established the CTRMA Turnpike System (the “Mobility Authority Turnpike System”, or “System”) to include the Mobility Authority transportation projects commonly known as the 183A Turnpike Project, the 183A Phase II Project, the Manor Expressway (290 East) Project, and the Bergstrom Expressway (183 South Project) as one operational and financial enterprise of the Mobility Authority; and

WHEREAS, the Executive Director has determined and recommends that the 290E Phase III Project could be most efficiently and economically constructed if it were a part of the System, and that the addition of the 290E Phase III Project will benefit the System; and

WHEREAS, the Executive Director has further determined and recommends that the traffic needs of Williamson County, Travis County, and the surrounding region could be most efficiently and economically met by adding the 290E Phase III Project and operating the expanded System as one operational and financial enterprise.

NOW, THEREFORE, BE IT RESOLVED that the Board hereby determines that the 290E Phase III Project could be most efficiently and economically constructed if it were a part of the Mobility Authority Turnpike System, and that the addition of the 290E Phase III Project will benefit the System; and

BE IT FURTHER RESOLVED that the Board hereby determines that the traffic needs of Williamson County, Travis County, and the surrounding region could be most efficiently and economically met by adding the 290E Phase III Project to the System and operating the expanded System as one operational and financial enterprise; and

BE IT FURTHER RESOLVED that the 290E Phase III Project is hereby added to the Mobility Authority Turnpike System.

Adopted by the Board of Directors of the Central Texas Regional Mobility Authority on the 30th day of November 2016.

Submitted and reviewed by:

Approved:

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Geoffrey Petrov, General Counsel

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Ray A. Wilkerson  
Chairman, Board of Directors





**CENTRAL TEXAS  
Regional Mobility Authority**

November 30, 2016  
AGENDA ITEM #6

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Discuss and take appropriate action on an application for Qualified Energy Conservation Bond allocation for Park and Ride facilities

Strategic Plan Relevance: Regional Mobility  
Department: Finance and Engineering  
Contact: Jeff Dailey  
Associated Costs: N/A  
Funding Source: N/A  
Board Action Required: Consider and act on draft resolution

**Summary:**

This item requests Mobility Authority Board consideration and approval of a resolution that authorizes staff to submit an application to secure Qualified Energy Conservation Bond (QECB) authority for the purpose of developing or enhancing up to eight (8) Park and Ride facilities. QECB is a federal bond interest subsidy program under the oversight of the Texas Bond Review Board. This funding mechanism provides an opportunity to expand/improve the region's Park and Ride system and improve mobility. Last July the Board approved a tri-party Memorandum of Agreement (MOA) between the Mobility Authority, Capital Metro and the Capital Area Metropolitan Planning Organization related to the Park and Ride Initiative. The Mobility Authority's role is to support the development of sites with a primary focus on locations that would benefit most directly from the use of Mobility Authority facilities. Design and construction responsibilities are to be determined on a case by case basis. The various allocations to local agencies will be "pooled", including those unused allocations for Travis County, Williamson County, City of Austin, and potentially the State of Texas for a total potential funding of more than \$50,000,000 (see table below).

QECB Unused Allocations	
Travis	\$2,568,900
Williamson	\$3,773,122
City of Austin	\$7,865,291
Statewide	~\$38,000,000
Total	~\$52,207,313



Once approved by the Mobility Authority Board, each respective local agency will need to pass a resolution to waive their allocations and assign them to the Mobility Authority in order to finally “pool” the available allocations and complete the QECB application. Staff will pursue these respective resolutions upon approval of this item.

The Mobility Authority Board, Commissioner Court, and City Council resolutions will finalize the application. This is the first step to secure the QECB bond authority. Once the Texas Bond Review Board makes a determination, a bond parameters resolution will be presented for Board consideration. In the meantime, the Mobility Authority will continue to work with CapMetro and CAMPO to further develop and refine the Park and Ride sites and alternative implementation plans.

Backup Provided:     Draft Resolution;  
                             Draft QECB Application;  
                             Park and Ride Overview Map;  
                             Board Briefing

**GENERAL MEETING OF THE BOARD OF DIRECTORS  
OF THE  
CENTRAL TEXAS REGIONAL MOBILITY AUTHORITY**

**RESOLUTION NO. 16-0XX**

**AUTHORIZING THE FILING OF AN APPLICATION WITH THE  
STATE OF TEXAS FOR AN ALLOCATION OF THE STATE OF TEXAS'  
QUALIFIED ENERGY CONSERVATION BOND AUTHORITY; AND  
MAKING CERTAIN FINDINGS AND AUTHORIZATIONS IN  
CONNECTION THEREWITH**

WHEREAS, the Central Texas Regional Mobility Authority (the "Authority") has been created and organized pursuant to and in accordance with the provisions of Chapter 361, Texas Transportation Code, and operates pursuant to the Constitution and laws of the State, including, particularly, Chapter 370, Texas Transportation Code (the "Act"), for the purposes of constructing, maintaining and operating transportation projects, including turnpike projects, in Travis and Williamson Counties, Texas; and

WHEREAS, pursuant to the Act, the Authority is authorized to: (i) study, evaluate, design, finance, acquire, construct, maintain, repair and operate transportation projects (as defined in the Act), individually or as a system (as defined in the Act); (ii) issue bonds, certificates, notes or other obligations payable from the revenues of a transportation project or system, including tolls, fees, fares or other charges, to pay all or part of the cost of a transportation project and to refund any bonds previously issued for a transportation project; and (iii) impose tolls, fees, fares or other charges for the use of each of its transportation projects and the different parts or sections of each of its transportation projects; and

WHEREAS, pursuant to the Act and other applicable laws, the Authority is authorized to issue revenue bonds, notes, certificates or other obligations for the purposes of (i) financing all or a portion of the cost of the acquisition, construction, improvement, extension or expansion of one or more transportation projects (as defined in the Act) and (ii) paying the expenses of issuing such revenue bonds, notes, certificates or other obligations; and

WHEREAS, the Authority proposes to issue "qualified energy conservation bonds" for the purpose of developing and/or enhancing one or more park and ride facilities that qualify as "mass commuting facilities" (the "Qualified Conservation Projects") under sections 54A and 54D of the Internal Revenue Code of 1986, as amended (the "Code");

WHEREAS, the Authority is authorized and intends to issue revenue bonds (the "Bonds") pursuant to the Act to finance the Qualified Conservation Projects;

WHEREAS, the Authority wishes to designate the Bonds as "qualified energy conservation bonds" pursuant to section 54D of the Code conditioned upon the awarding of an allocation by the State of its unused qualified energy conservation bond limitation as authorized by section 54D(e) of the Code;

THEREFORE BE IT RESOLVED BY THE BOARD OF DIRECTORS OF THE CENTRAL TEXAS REGIONAL MOBILITY AUTHORITY THAT:

Section 1. An application is hereby approved and authorized to be filed with the Bond Review Board of the State, the State Governor's Office and such other agencies and instrumentalities of the State or other organizations as may be necessary seeking the awarding of an allocation by State of its unused qualified energy conservation bond limitation as authorized by section 54D(e) of the Code.

Section 2. The Authority declares its official intent to issue the Bonds to provide financing for the Qualified Conservation Projects and designate such bonds as "qualified energy conservation bonds" pursuant to sections 54A and 54D of the Code.

Section 3. The Executive Director, Chief Financial Officer and Controller of the Authority or their respective designees, Bracewell LLP, as Bond Counsel to the Authority, and Hilltop Securities Inc., as financial advisor to the Authority are hereby authorized to do any and all things necessary or appropriate in order to receive an allocation by the State of its unused qualified energy conservation bond limitation including amending this Resolution in order to (i) correct any ambiguity or mistake or properly or more completely document the transactions contemplated by this Resolution, (ii) obtain an allocation by State of its unused qualified energy conservation bond limitation as authorized by section 54D(e) of the Code, or (iii) obtain the approval of the Bonds by the State Attorney General's office.

Section 4. It is hereby found and determined that the meeting at which this Resolution is adopted was open to the public; and that public notice of the time, place, and purpose of such meeting was given, all as required by Chapter 551, Texas Government Code.

Section 5. This Resolution shall be in full force and effect from and upon its adoption.

Section 6. All orders and resolutions, or parts thereof, which are in conflict or inconsistent with any provision of this Resolution are hereby repealed and declared to be inapplicable, and the provisions of this Resolution shall be and remain controlling as to the matters prescribed herein.

Section 7. If any word, phrase, clause, paragraph, sentence, part, portion, or provision of this Resolution or the application thereof to any person or circumstance shall be held to be invalid, the remainder of this Resolution shall nevertheless be valid and the Board hereby declares that this Resolution would have been enacted without such invalid word, phrase, clause, paragraph, sentence, part, portion, or provisions.

*[The remainder of this page intentionally left blank]*

Adopted, passed and approved by the Board of Directors of the Central Texas Regional Mobility Authority on the 30<sup>th</sup> day of November, 2016.

Submitted and reviewed by:

Approved:

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Geoffrey Petrov, General Counsel

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Ray Wilkerson  
Chairman, Board of Directors



**RECEIVED**  
2016 DEC 24 AM 9:57

**STATE OF TEXAS**  
**APPLICATION FOR QUALIFIED ENERGY**  
**CONSERVATION BOND ALLOCATION**

TX BOND REVIEW BD  
AUSTIN, TEXAS

**TO:** Program Administrator  
Texas Bond Review Board  
300 W. 15<sup>th</sup> Street, #409  
Austin, Texas 78701-1649

**\*\*APPLICATION FEE: \$1000**  
Fees should be sent to: Comptroller of Public Accounts  
Item Processing – Lock Box Section  
208 E. 10<sup>th</sup> Street  
Austin, TX 78701

**DUPLICATE:**  
Office of the Governor  
P.O. Box 12428  
Austin, Texas 78711

Hand delivery: 1100 San Jacinto Avenue  
Austin, TX 78701

**Name of Project: Central Texas Park & Ride Initiative**

**Parties (only include applicable items)**

**1. Issuer**

Issuer Name:	Central Texas Regional Mobility Authority
Principal Contact:	Mike Heiligenstein
Address:	3300 N IH-35, Suite 300, Austin, Texas 78705
Telephone:	(512) 996-9778
E-mail:	<a href="mailto:mstein@ctrma.org">mstein@ctrma.org</a>
Issuer's Authorizing State Statute:	Chapter 370, Texas Transportation Code, as amended, Chapter 1207, Texas Government Code, as amended, and Chapter 1371, Texas Government Code, as amended

**2. Obligor/Project User**

Name:	Central Texas Regional Mobility Authority
Principal Contact:	Bill Chapman, CFO
Address:	3300 N IH-35, Suite 300, Austin, Texas 78705
Telephone:	(512) 450-6284
E-mail:	<a href="mailto:wchapman@ctrma.org">wchapman@ctrma.org</a>
Business Structure:	Political Subdivision of the State of Texas
State and Date of Incorporation/ Creation:	2002

**3. Issuer's Sponsoring Governmental Unit (if any)**

Name:	N/A
Principal Contact:	
Address:	
Telephone:	
E-mail:	

**4. Bond Counsel**

Name:	Bracewell LLP
Principal Contact:	Glenn Opel
Address:	111 Congress Avenue - Suite 2300 Austin, Tx 78701
Telephone:	(512) 542-2114
E-mail:	<a href="mailto:Glenn.Opel@bgllp.com">Glenn.Opel@bgllp.com</a>

**5. Underwriter**

Name:	Morgan Stanley
Principal Contact:	Frank Reed/Blaine Brunson
Address:	755 Mulberry Ave., Suite 300 San Antonio, Tx 78212
Telephone:	(210) 277-4447
E-mail:	<a href="mailto:Frank.Reed@morganstanley.com">Frank.Reed@morganstanley.com</a>

**6. Financial Advisor**

Name:	FirstSouthwest, a division of HilltopSecurities
Principal Contact:	Richard Ramirez
Address:	300 West 6 <sup>th</sup> Street, Suite 1940 Austin, Tx 78701
Telephone:	(512) 481-2007
E-mail:	<a href="mailto:Richard.Ramirez@firstsw.com">Richard.Ramirez@firstsw.com</a>

**7. Authorized Representative of Issuer**

Name:	N/A
Principal Contact:	
Address:	
Telephone:	
E-mail:	

**8. Others:** Please indicate any others you would like to receive emailed requests for further information or notifications regarding reservations.

NAME	E-MAIL

**Bond Qualification Details**

9.

Requested Amount	\$77,973,000
Minimum Amount of allocation required	\$77,973,000
QECB Authority previously allocated to issuer	\$0.00
QECB Authority available to other entities within the jurisdiction of this applicant - City of Austin, Travis County, Williamson County	<u>\$14,207,313</u>

Please briefly describe why additional allocation is necessary.  
 Amounts available in the CTRMA jurisdiction are not adequate to fund total project list



10. Bond Type

Non-Private Activity

Private Activity

Project Category – 100% of available project proceeds will be used for (check one or more):

Capital expenditure incurred for purposes of (check one or more):

- Reducing energy consumption in publicly-owned buildings by at least 20 percent
- Implementing green community programs
- Rural development involving the production of electricity from renewable energy resources
- Any qualified facility (as determined under section 45(d) without regard to paragraphs (8) and (10) thereof and without regard to any placed in service date). Describe: \_\_\_\_\_

Expenditures with respect to research facilities, and research grants, to support research in (check one or more):

- Development of cellulosic ethanol or other non-fossil fuels
- Technologies for the capture and sequestration of carbon dioxide produced through the use of fossil fuels
- Increasing the efficiency of existing technologies for producing non-fossil fuels
- Automobile battery technologies and other technologies to reduce fossil fuel consumption in transportation
- Technologies to reduce energy use in buildings

Mass commuting facilities and related facilities that reduce the consumption of energy, including expenditures to reduce pollution from vehicles used for mass commuting

Demonstration projects designed to promote the commercialization of (check one or more):

- Green building technology
- Conversion of agricultural waste for use in the production of fuel or otherwise
- Advanced battery manufacturing technologies
- Technologies to reduce peak use of electricity
- Technologies for the capture and sequestration of carbon dioxide emitted from combusting fossil fuels in order to produce electricity

Public education campaigns to promote energy efficiency

**Project Details**

11. Location of project (include county and zip codes)

Travis County - 73301, 73344, 78617, 78645, 78651, 78652, 78653, 78660, 78669, 78691, 78701, 78702, 78703, 78704, 78705, 78708, 78709, 78710, 78711, 78712, 78713, 78714, 78715, 78716, 78717, 78718, 78719, 78720, 78721, 78722, 78723, 78724, 78725, 78726, 78727, 78728, 78729, 78730, 78731, 787132, 78733, 78734, 78735, 78736, 78737, 78738, 78739, 78741, 78742, 78744, 78745, 78746, 78747, 78748, 78749, 78750, 78751, 78752, 78753, 78754, 78755, 78756, 78757, 78758, 78759, 78760, 78761, 78762, 78763, 78764, 78765, 78766, 78767, 78768, 78769, 78772, 78773, 78774, 78778, 78779, 78780, 78781, 78783, 78799.

Williamson County - 76527, 76530, 76537, 76573, 76574, 76578, 78613, 78615, 78626, 78627, 78628, 78630, 78633, 78634, 78641, 78642, 78646, 78664, 78655, 78673, 78674, 78680, 78680, 78681, 78682, 78683, 78717, 78729

**12.** Please briefly describe the project and its benefits.

The program will include the construction of eight (8) or more Park & Ride Facilities throughout the Central Texas Area along tolled facilities and managed lane projects being developed by CTRMA. Transit buses will utilize these facilities at no cost. Utilizing tolled facilities and managed lane project will reduce travel time thereby increasing ridership. Increased ridership thereby reduces vehicle miles traveled (VMT). Also, CapMetro will utilize Electric or Compressed Natural Gas (CNG) Transit Service and help reduce pollution by providing mass commuting opportunities and traffic mitigation throughout the Central Texas Area.

Describe the extent to which this project will result in energy savings, and the criteria you used to estimate the savings.

Eight park and ride sites have the potential to reduce vehicle miles traveled (VMT) by approximately 12,874,950 miles annually. The reduction in VMT results in an estimated savings of 377,800 gallons of fuel annually.

This estimate is based on a preliminary planning study of the park and ride sites proving 2,431 spaces with the following criteria:

- 85% lot usage.
- 90% of the users previously drove alone.
- Length of the trip is calculated from the proposed park and ride location to the Austin Central Business District (CBD).
- 250 operating days per year.
- Auto fuel efficiency based on 23.41 mpg per the USDOT Bureau of Transportation Statistics.
- Bus fuel efficiency based on 3.26 mpg per the American Public Transit Association’s Public Transportation Fact Book.

These Park & Ride Facilities will also be utilized by customers who carpool or rideshare utilizing several programs endorsed by the CTRMA which also serve to reduce fuel consumption, maintenance costs, and congestion which contributes to higher emissions.

What is the expected life of the project?

Thirty-Five (35) years

**13.** Estimated project costs broken down by:

Land	20,000,000
Building	52,155,400
Equipment	
Interest during Construction	4,258,140
Costs of Issuance	1,559,460
net Original Issue Discount	
Other (please specify)	
<b>TOTAL</b>	<b>77,973,000</b>
Less other sources of funds	
<b>Bond Amount*</b>	<b>77,973,000</b>

\*The total bond amount should equal the requested amount in Question 9.



14. Anticipated total payroll resulting from or expected to be saved by project: \$ 29,327,000.00

Based on American Public Transportation Association “Job Impacts of Spending on Public Transportation: An Update”, April 29, 2009; 8,200 direct effect jobs per billion dollar of spending and \$23.83 mean hourly wage according to the U.S. Bureau of Labor Statistics for a one year duration.

15. Unemployment from the Texas Workforce Commission from the most recent month of the county (ies) or Metropolitan Statistical Area (MSA) in which the project is located?

Austin-Round Rock Metropolitan Statistical Area = May 2016 - 2.9%

16. Number of expected full-time equivalent jobs to be created? 207  
 Number of expected full-time construction/temporary jobs? 385

Based on American Public Transportation Association “Job Impacts of Spending on Public Transportation: An Update”, April 29, 2009; 8,200 direct effect jobs per billion dollar of spending. 65% estimated to be planning, design and construction/temporary and 35% estimated to be full-time equivalent jobs.

17. Average salary of permanent jobs created

\$23.83 mean hourly wage according to the U.S. Bureau of Labor Statistics

18. Does the project development plan provide jobs that enhance opportunities for Texas in technology, advanced manufacturing, environmental processing or other areas that provide for a specialized workforce? If so, how?

The CTRMA is on the forefront of using technology to assist in the reduction of traffic congestion as evidenced by the recent opening of the Traffic Management Center in Cedar Park which is being used to manage the MoPac Express lanes and for rapid identification and response to traffic incidents on CTRMA facilities which will result in safer roadways and decreased travel times. Technology will also be utilized to monitor the Park & Ride Facilities to ensure operations are running smoothly resulting in reliable travel times that will benefit bus service. The CTRMA has also encourage the use and development of traffic management applications such as Carma and Metropia and has been a champion of the Commute Solutions program which is helping to develop ridesharing pools among major employers in the Austin MSA.

19. Is a workforce training program a component of the project’s development plan?

No

20. Key Dates

<b>Milestones</b>	<b>DATE (MM/DD/YY)</b>
When designation is required	12/31/2016
Estimated completion of plans and specs	1 <sup>st</sup> Quarter 2017
Estimated commencement of project	1 <sup>st</sup> Quarter 2017
Estimated completion of project	12/31/2019
Estimated date project to be placed in service	12/31/2019

\*10% must be committed (Via a Signed Contract) within 6 months

\*\* 100% of proceeds must be spent within 3 years.

## **Project Financing**

**21.** Expected Closing Date  
1<sup>st</sup> Quarter 2017

**22.** Besides the QECCB issuance, what alternative financing has been considered for this project and what are the advantages and disadvantages of a QECCB issuance for the project compared with other financing alternatives?

City of Austin - Bond Program

TxDOT - Congestion Mitigation Funds

CAMPO - FTA Grants:

- Buses and Bus Facilities Grants Program - 5339
- Capital Investment Grants - 5309
- Flexible Funding Programs - Congestion Mitigation and Air Quality Program - 23 USC 149

While all of these programs could theoretically be used to fund Park & Ride facilities, it was evident that the QECCB program had the most attractive overall cost of capital for the Authority.

**23. a.** How will the QECCB transaction be memorialized?

Bond indenture (CTRMA Series 2017 Senior Lien Revenue Bonds)

**b.** Statutory authority reference for the obligation:

The Bonds will be issued by the Authority pursuant to the laws of the State, particularly Chapter 370, Texas Transportation Code, as amended, Chapter 1207, Texas Government Code, as amended, and Chapter 1371, Texas Government Code, as amended

**24.** Please describe the security for the obligation.

Toll revenues and other available funds.

**25.** What is the final maturity for the memorializing obligation?

Maximum allowable term at time of pricing (Currently 35 years)

## Application Attachments (as applicable)

(BRB Use only)

26.  Certification Regarding Fees & Check Copy, on the form prescribed by the Board
- Inducement Resolution or Preliminary Action
- Legal Counsel Opinion (QECB and authorization under state law)
- Estimated Sources and Uses of Funds
- Detailed Report of Energy Savings Analysis
- ESPC Addendum
- Issuer's Certified Articles of Incorporation and Bylaws
- Issuer's Certificate of Continued Existence
- Obligor's/User's Articles of Incorporation and Bylaws
- Obligor's/User's Certificate of Continued Existence
- Obligor's/User's Certificate of Good Standing (including partners or parents)

DISTRIBUTION INSTRUCTIONS FOR CERTIFICATES OF RESERVATION/ALLOCATION:	
Please indicate who should receive the Certificates	Street Address
Issuer <input type="checkbox"/> Bond Counsel <input type="checkbox"/>	
Name of Firm:	
Contact Name & Phone #:	
Please indicate the preferred Method of Delivery (Note: Certificates will not be sent by regular mail.)	
Messenger <input type="checkbox"/>	Account #
Fed Ex <input type="checkbox"/>	
Other Carrier (Specify Below) <input type="checkbox"/>	

## Project Certification

27. Certification: The information contained in this Application for qualified energy conservation bond issuing authority and related attachments is, to the best of our knowledge, true and accurate.

CENTRAL TEXAS REGIONAL Mobility Authority  
(Name of Issuer)

  
(Signature)

William Chapman CFO  
(Name/Title/Date)

10/24/16



## Attachment 1 Map of Potential Park and Ride Projects



## Attachment 2 Preliminary Park and Ride Program Cost Estimates

Map ID	Site Location	Total Estimated Project Costs <sup>1</sup>
17	South MoPac/Slaughter	\$ 8,008,200.00
18	South MoPac/South Bay	\$ 2,259,200.00
19	South MoPac/Escarpment	\$ 2,054,600.00
20	Oak Hill	\$ 16,969,500.00
21	Howard	\$ 12,258,750.00
22	US 183 North/SH 620	\$ 8,359,125.00
23	SH 71	\$ 12,556,125.00
24	US 290/Manor	\$ 9,689,400.00
<b>Total Estimated Program Cost</b>		<b>\$ 72,154,900.00</b>

<sup>1</sup> Estimated costs include property acquisition, planning, environmental, design, and construction based on 8/12/2016 Program Estimate.

Reservation Docket # \_\_\_\_\_

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Date & Time Received  
2016 OCT 24 AM 9: 57

**TEXAS BOND REVIEW BOARD  
CERTIFICATION REGARDING FEES**

TX BOND REVIEW BD  
AUSTIN, TEXAS

**THIS FORM & A COPY OF THE CHECK MUST BE SENT TO THE FOLLOWING ADDRESS:**

**TEXAS BOND REVIEW BOARD  
300 W. 15<sup>TH</sup> ST, SUITE 409  
AUSTIN, TX 78701-1649**

The undersigned certifies that as of the 24<sup>th</sup> day of October, 2016 a check, representing the  
DAY MONTH YEAR  
Application \_\_\_\_\_ fee, in the amount of \$ 1,000.00, was sent by overnight mail  
(APPLICATION, CLOSING)  
to the COMPTROLLER OF PUBLIC ACCOUNTS, ITEM PROCESSING - LOCKBOX SECTION.

**A copy of the check must be attached to this certification.**

<u>W. H. P. O. S.</u> Signature of Bond Counsel	Glenn Opel-Bracewell Typed Name of Bond Counsel
Central Texas Regional Mobility Authority Name of Issuer	10/24/2016 Date
Central Texas Regional Mobility Authority Name of User	Park & Ride Facilities Project

**THE FEE MUST BE RECEIVED WITHIN 24 HOURS OF THE RECEIPT OF THE APPLICATION OR ANY REQUIRED SUBSEQUENT FILINGS.**

**This certification must be filed with documents each time a fee is required to be submitted.**



Texas Comptroller of Public Accounts 10/24/2016

Document No.	Document Date	Posting Description	Amount	Discount	Net Amount
ENERGY	10/21/2016	Invoice PI014393	1,000.00		1,000.00

**Total 1,000.00**

18173

**CENTRAL TEXAS**  
REGIONAL MOBILITY AUTHORITY  
3300 N IH-35, SUITE 300  
AUSTIN, TX 78705  
(512) 996-9778

**REGIONS BANK**  
TEXAS  
88-78/1119

E2Shield™ Check Fraud Protection for Business

\*\*\*\*ONE THOUSAND AND 0/100

**PAY** *COPY*

10/24/2016 \$\*\*\*\*\*1,000.00  
DATE AMOUNT

Texas Comptroller of Public Accounts  
PO Box 13186  
Austin, Texas 78711-3186

TO THE ORDER OF

*Manjiv Sengupta*  
AUTHORIZED SIGNATURE

⑈018173⑈ ⑆111900785⑆ 0101887041⑈

Details on back.

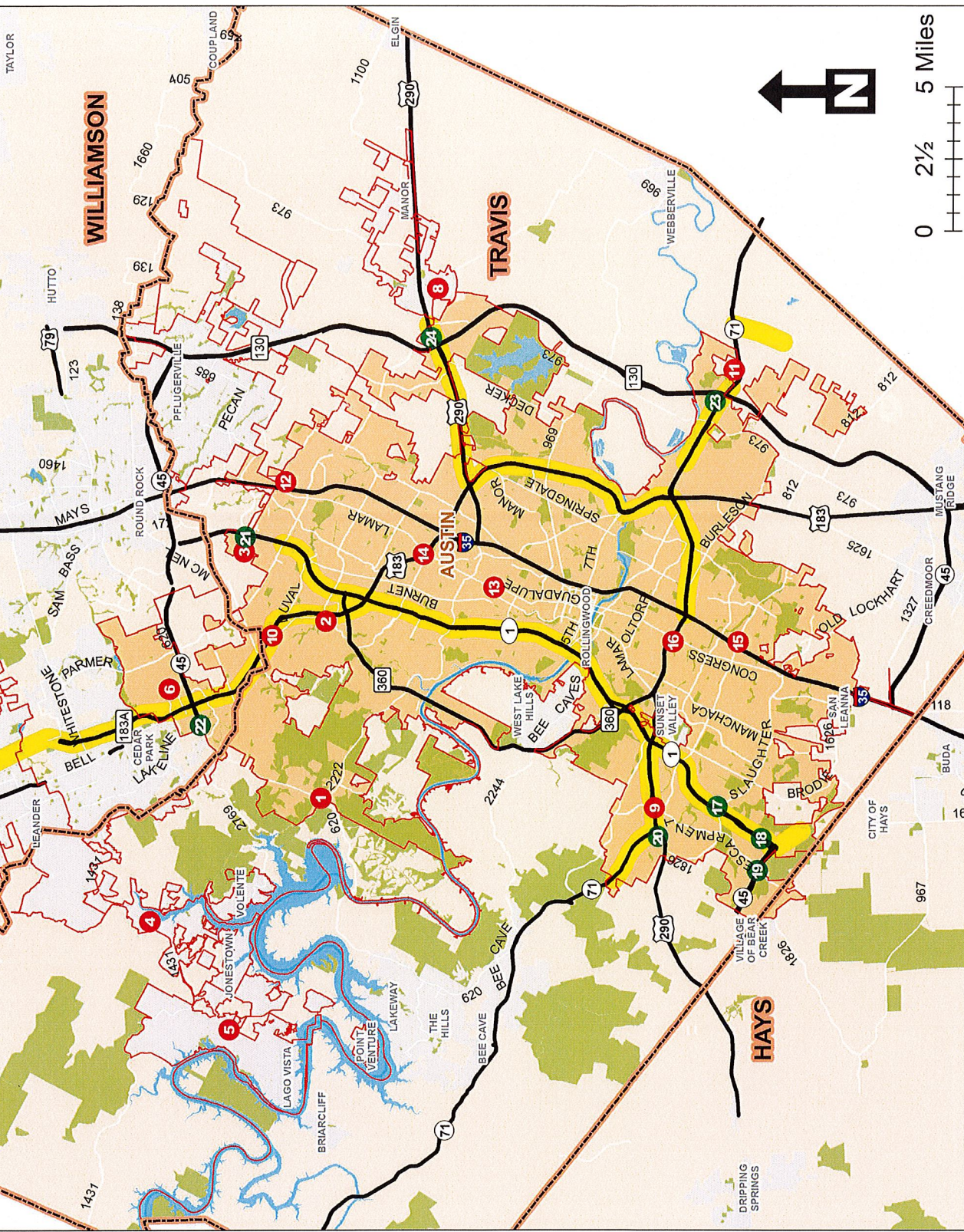
Texas Comptroller of Public Accounts 10/24/2016

Document No.	Document Date	Posting Description	Amount	Discount	Net Amount
ENERGY	10/21/2016	Invoice PI014393	1,000.00		1,000.00

**Total 1,000.00**







**EXISTING PARK & RIDE**

Facility and Number of Spaces

- 1 Four Points
- 2 Great Hills, 125
- 3 Howard Station, 200
- 4 Jonestown, 13
- 5 Lago Vista, 16
- 6 Lakeline, 485
- 7 Leander, 635
- 8 Manor, 70
- 9 Oak Hill, 82
- 10 Pavilion, 348
- 11 Southeast, 27
- 12 Tech Ridge, 476
- 13 Triangle, 200
- 14 North Lamar, 268
- 15 Southpark Meadows, 75
- 16 South Congress, 32

**POTENTIAL PARK & RIDE**

- Facility
- 17 Slaughter
- 18 South Bay
- 19 Escarpment
- 20 Oak Hill
- 21 Howard
- 22 183 North
- 23 SH 71
- 24 Manor

**Basemap**

- Major Roadways
- CTRMA Project Areas
- County Boundaries
- City Boundaries
- City of Austin Boundary
- CapMetro Service Area
- Parks and Open Spaces
- Water Features



**EXISTING PARK & RIDE**

**Facility and Number of Spaces**

- 1 Four Points
- 2 Great Hills, 125
- 3 Howard Station, 200
- 4 Jonestown, 13
- 5 Lago Vista, 16
- 6 Lakeline, 485
- 7 Leander, 635
- 8 Manor, 70
- 9 Oak Hill, 82
- 10 Pavilion, 348
- 11 Southeast, 27
- 12 Tech Ridge, 476
- 13 Triangle, 200
- 14 North Lamar, 268
- 15 Southpark Meadows, 75
- 16 South Congress, 32

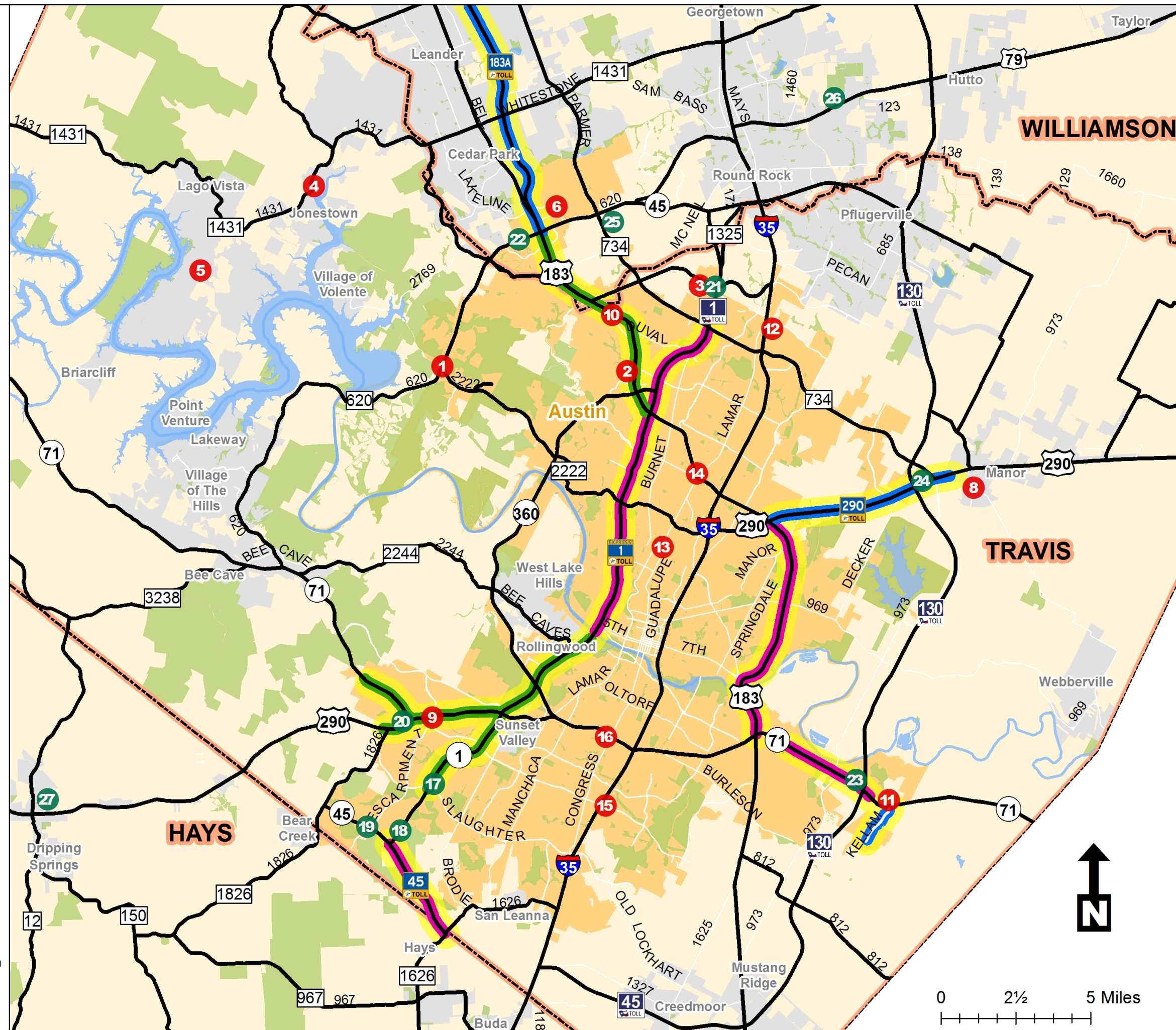
**POTENTIAL PARK & RIDE**

**Facility**

- 17 Slaughter\*
- 18 South Bay\*
- 19 Escarpment\*
- 20 Oak Hill\*
- 21 Howard\*
- 22 183 North\*
- 23 SH 71\*
- 24 Manor\*
- 25 SH 45 Toll/O'Connor Rd
- 26 Dell Diamond
- 27 Dripping Springs

**Basemap**

- Major Roadways
- CTRMA Project Areas
  - Development/Construction
  - Environmental Study
  - Open to Traffic
- County Boundaries
- Parks and Open Spaces
- Water Features
- \* Site included in QECB Application







**CENTRAL TEXAS  
Regional Mobility Authority**

November 30, 2016  
AGENDA ITEM# 7

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Approve Work Authorization No. 5 for  
Parsons Brinckerhoff, Inc. for general  
engineering services related to the  
183A Phase III Project.

Strategic Plan Relevance: Regional Mobility  
Department: Engineering  
Contact: Justin Word, P.E., Director of Engineering  
Associated Costs: \$1,173,117.85  
Funding Source: Project Funds  
Board Action Required: Yes

Summary:

On July 1, 2016, the Mobility Authority entered into an Agreement with Parsons Brinckerhoff, Inc. for General Consulting Civil Engineering Services. This work authorization approves Parsons Brinckerhoff, Inc. to provide support of current activities which include schematic design, preparation of environmental document, project management and administration in an initial amount of \$1,020,102.48. The Draft Resolution authorizes \$1,173,117.85, which includes an additional \$153,015.37 as contingency.

Backup Provided: Work Authorization No. 5  
Draft Resolution  
Fee Estimate

**GENERAL MEETING OF THE BOARD OF DIRECTORS  
OF THE  
CENTRAL TEXAS REGIONAL MOBILITY AUTHORITY**

**RESOLUTION NO. 16-0XX**

**APPROVAL OF WORK AUTHORIZATION NO. 5 WITH PARSONS  
BRINCKERHOFF, INC. FOR GENERAL ENGINEERING CONSULTANT SERVICES  
RELATED TO THE 183A PHASE III PROJECT**

WHEREAS, by Resolution 16-034 dated June 15, 2015, the Board of Directors authorized the Executive Director to negotiate and execute on behalf of the Mobility Authority an agreement with Parsons Brinckerhoff, Inc. for general engineering consultant services; and

WHEREAS, on July 1, 2016 the Mobility Authority entered into an agreement with Parsons Brinckerhoff, Inc. for general consulting civil engineering services; and

WHEREAS, the Executive Director and Parsons Brinckerhoff, Inc. have agreed to proposed Work Authorization No. 5 for general engineering consultant services for the 183A Phase III Project; and

WHEREAS, the Executive Director estimates the reasonable fees associated with the services to be provided under Work Authorization No. 5 to be in an amount not to exceed \$1,173,117.85, including contingency; and

WHEREAS, the services to be provided under in Work Authorization No. 5 shall be substantially complete by December 31, 2017. However, Work Authorization No. 5 will not expire until all tasks associated with the Scope of Services are completed; and

WHEREAS, the Executive Director recommends that the Board approve proposed Work Authorization No. 5, a copy of which is attached to this resolution as Exhibit A.

NOW THEREFORE, BE IT RESOLVED, that the Board approves an amount not to exceed \$1,173,117.85 for the services described in Work Authorization No. 5; and

BE IT FURTHER RESOLVED, that the Board authorizes the Executive Director to finalize and execute proposed Work Authorization No. 5 with Parsons Brinckerhoff, Inc., in the form or substantially the same form as Exhibit A.

Adopted by the Board of Directors of the Central Texas Regional Mobility Authority on the 30<sup>th</sup> day of November, 2016.

Submitted and reviewed by:

Approved:

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Geoffrey Petrov, General Counsel

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Ray A. Wilkerson  
Chairman, Board of Directors

**Exhibit A**

## APPENDIX D

### WORK AUTHORIZATION

#### WORK AUTHORIZATION NO. 05

This Work Authorization is made as of this 30<sup>st</sup> day of November, 2016, under the terms and conditions established in the AGREEMENT FOR GENERAL CONSULTING ENGINEERING SERVICES, dated as of July 1, 2016 (the “Agreement”), between the Central Texas Regional Mobility Authority (“Authority”) and **Parsons Brinckerhoff, Inc.** (“GEC”). This Work Authorization is made for the following purpose, consistent with the services defined in the Agreement:

#### *183A Phase III – Environmental Assessment and Schematic Design*

##### **Section A. - Scope of Services**

A.1. GEC shall perform the following Services:

*Please reference Attachment A – Scope of Work*

A.2. The following Services are not included in this Work Authorization, but shall be provided as Additional Services if authorized or confirmed in writing by the Authority.

*N/A*

A.3. In conjunction with the performance of the foregoing Services, GEC shall provide the following submittals/deliverables (Documents) to the Authority:

*Please reference Attachment A – Scope of Work*

##### **Section B. - Schedule**

GEC shall perform the Services and deliver the related Documents (if any) according to the following schedule:

Services defined herein shall expire on December 31<sup>st</sup>, 2017 or when all tasks associated with the Scope of Services are complete as defined by the Authority.

##### **Section C. - Compensation**

C.1. In return for the performance of the foregoing obligations, the Authority shall pay to the GEC the amount not to exceed **\$1,020,102.48** based on a Cost Plus fee listed in Attachment B – Fee Estimate. Compensation shall be in accordance with the Agreement.

The Authority and the GEC agree that the budget amounts contained in Attachment B-Fee Estimate for the GEC are estimates and that these individual figures may be redistributed and/or adjusted as necessary over the duration of this Work Authorization. The GEC may alter the compensation distribution between tasks or work assignments to be consistent with

the Services actually rendered within the total Work Authorization amount. The GEC shall not exceed the maximum amount payable without prior written permission by the Authority.

C.2. Compensation for Additional Services (if any) shall be paid by the Authority to the GEC according to the terms of a future Work Authorization.

**Section D. - Authority's Responsibilities**

The Authority shall perform and/or provide the following in a timely manner so as not to delay the Services of the GEC. Unless otherwise provided in this Work Authorization, the Authority shall bear all costs incident to compliance with the following:

N/A

**Section E. - Other Provisions**

The parties agree to the following provisions with respect to this specific Work Authorization:

N/A

Except to the extent expressly modified herein, all terms and conditions of the Agreement shall continue in full force and effect.

**Authority:**

**CENTRAL TEXAS REGIONAL  
MOBILITY AUTHORITY**

By: \_\_\_\_\_

Name: Mike Heiligenstein

Title: Executive Director

Date: \_\_\_\_\_

**GEC:**

**Parsons Brinckerhoff, Inc.**

By: \_\_\_\_\_

Name: Mario Medina, P.E.

Title: Vice President

Date: \_\_\_\_\_

## SERVICES TO BE PROVIDED BY THE ENGINEER

### I. INTRODUCTION

The ENGINEER shall perform work generally consisting of alternatives development and evaluation, environmental studies, public involvement, preliminary engineering, design, field survey, hydraulic studies, and schematic development for the Central Texas Regional Mobility Authority's (Mobility Authority) proposed US 183A Phase 3 Project (Project) located in Williamson County, Texas. Work to be performed under this contract shall be in compliance with applicable environmental laws, rules and regulations governing the development of transportation projects including but not limited to 23 CFR 771, the Federal Highway Administration's (FHWA) Technical Advisory 6640.A, the Texas Department of Transportation's (TxDOT) Environmental and Public Involvement rules, and TxDOT and/or FHWA guidance in effect at the time of contract execution.

The Project Limits are anticipated to extend from 0.5 miles north of State Highway (SH) 29 south to Hero Way.

The ENGINEER shall complete the following tasks:

- A comprehensive investigation and documentation of appropriate environmental components.
  - Draft and Final Environmental Assessment (EA)
  - Draft and Final Finding of No Significant Impact (FONSI)
- Public involvement
- Design surveying and aerial mapping
- Pertinent hydrologic and hydraulic engineering
- Traffic engineering and level of service analysis
- Development of a geometric schematic for the preferred alternative

### Location Map



## **II. PROJECT MANAGEMENT AND ADMINISTRATION**

The ENGINEER shall perform project administration and coordination duties, including contract administration, project management, meeting minutes of all meetings and telephone conversations, and other related administrative tasks associated with the project, including:

### **A. PROJECT MANAGEMENT AND ADMINISTRATION**

#### **Task 1: Progress Reports and Invoices**

For the Project, prepare monthly invoices and progress reports for the work tasks and provide evidence of work accomplished during the time period since the previous report. Monthly progress reports shall be submitted and shall include: activities completed, initiated, or ongoing during the reporting period; activities planned for the coming period; problems encountered and actions to remedy them; overall status, including a tabulation of percentage complete by task; and updated project schedules.

#### **Task 2: Record Keeping and File Management**

The ENGINEER shall maintain all records and files related to the project throughout the duration of the services. e-Builder will be used for all records and files.

#### **Task 3: Correspondence**

Prepare written materials, letters, survey forms etc. used to solicit information or collect data for the project and submit them to the Mobility Authority for review and approval prior to use or distribution. A letter of transmittal shall accompany each document submittal to the Mobility Authority. At a minimum, the letter of transmittal shall include the Project Name, State CSJ number, County, and project limits.

#### **Task 4: Schedule**

Prepare a detailed, graphic schedule linking Work Authorization tasks, subtasks, critical dates, milestones, deliverables and the required reviews using the latest version of Primavera. The project schedule shall be in a format which depicts the order and inter-dependence of the various tasks, subtasks, milestones, and deliverables for each of the tasks identified therein. Progress shall be reviewed monthly for conformance to the contracted Work Schedule and should these reviews indicate a substantial change in progress, a recovery plan will be developed by the ENGINEER and provided to the Mobility Authority.

### **B. COORDINATION**

The ENGINEER shall schedule and attend meetings to coordinate among project team members and the Mobility Authority. The ENGINEER shall be responsible for



project coordination for the review of deliverables with relevant project team members including TxDOT and agencies. The ENGINEER shall attend monthly progress/coordination meetings with the Mobility Authority. In preparation for each meeting, the ENGINEER shall prepare and distribute a Meeting Agenda which shall include a brief description of the meeting objectives, a list of the topics to be covered and who shall facilitate the discussion of each topic. When action items arise from the meeting discussion, an assignment of responsibility, a priority level and due date for each action item shall be made immediately and distributed amongst the team. The ENGINEER shall prepare all meeting minutes. This task includes a team project kick-off meeting.

#### **Deliverables**

- Monthly invoices and progress reports
- Detailed graphic schedules for each project
- Meeting agendas and minutes

### **III. ROUTE AND DESIGN STUDIES**

#### **Task 1: Alternatives Development and Analysis**

##### **Subtask A: Design Criteria**

The ENGINEER shall use design criteria as set forth in Roadway Design Manual, Bridge Design Manual, Hydraulic Design Manual, and other deemed necessary State approved manuals. In addition, the ENGINEER shall prepare the Design Summary Report, (DSR). The ENGINEER shall prepare all work in accordance with the latest version of applicable State procedures, specifications, manuals, guidelines, standard drawings, standard specifications or previously approved special provisions and special specifications to include: the Roadway Design Manual, Hydraulic Design Manual, the Texas Manual on Uniform Traffic Control Devices (TMUTCD), Standard Specifications for Construction and Maintenance of Highways, Streets and Bridges, 2014, and other State approved manuals. When design criteria are not identified in State manuals, the ENGINEER shall notify the Mobility Authority and refer to the American Association of State Highway and Transportation Officials (AASHTO), A Policy on Geometric Design of Highways and Street, (latest Edition). In addition, the ENGINEER shall follow the guidelines shown in the PS&E Preparation Manual which the ENGINEER may download from the TxDOT website. The ENGINEER shall obtain written concurrence from the Mobility Authority prior to proceeding with a design if any questions arise during the design process regarding the applicability of the design criteria.

#### **Deliverables**

- Draft Design Summary Report

##### **Subtask B: Design Concept Conference**

The ENGINEER shall organize and conduct a Design Concept Conference (DCC) in accordance with TxDOT's Project Development Process Manual. In preparation for the DCC, the ENGINEER shall finalize the Design Summary Report (DSR) to serve as a checklist for the minimum required design considerations.

### **Deliverables**

- Meeting agenda and exhibits for DCC
- Final Design Summary Report

### **Subtask C: Preliminary Alternatives Development**

The ENGINEER shall prepare one (1) plan and profile for the preliminary alternative based on the original ramping and crossover locations. The ENGINEER shall prepare plan view exhibits for additional alternatives showing differences in grade separation locations and/or ramp configurations. One typical section shall be prepared for the preliminary alternative to accompany the line diagram.

In assessing various preliminary alternatives (including the No-Build Alternative), the following design and engineering considerations shall be documented, as appropriate:

- a. Constructability
- b. Conceptual Design including special design considerations at various locations
- c. Construction Costs
- d. Engineering Costs
- e. Utility impacts
- f. Operation and Maintenance
- g. Level of Service for mainlanes, ramps, and frontage roads
- h. Environmental constraints as collected under **IV, Task 1, Subtask A** – below

The ENGINEER shall screen the preliminary alternatives based on the design and engineering considerations to a reduced number of reasonable alternatives, with the potential of one alternative, in addition to the No Build, carried into the environmental analysis

### **Subtask D: Alternatives Finalization and Analysis**

- a. The ENGINEER shall integrate environmental stewardship and sustainability strategies into the reasonable alternative. Environmental stewardship and sustainability strategies are developed to address such issues as improved quality of access to goods and services, improved air quality, noise reduction, improved water quality, protection of habitat and open space, historic preservation, increased social equity, economic development, and a satisfying quality of life, in addition to local goals consistent with the overall project purpose and need.
- b. The ENGINEER shall perform the associated environmental analyses of the reasonable alternative and shall combine this data with the engineering and

traffic assessments into a draft Reasonable Alternatives Evaluation Matrix.

**Deliverables**

- Plan/Profile of the base alternative, exhibits of alternate grade separation(s) and/or ramping configurations, and typical section of the Reasonable Alternative(s) (hard copies and electronic files)
- Handouts for project team coordination meeting- Reasonable Alternative(s)
- Summaries of project team coordination meeting – Reasonable Alternative(s)
- Draft and Final Reasonable Alternatives Evaluation Matrix (Final shall be incorporated into EA)

**Task 2: Preliminary Cost Estimates**

The ENGINEER shall develop a preliminary construction cost estimate, total project cost estimate, and operations and maintenance estimate for all reasonable build alternatives using most current relevant industry unit prices.

**Deliverables**

- Preliminary cost estimates

**Task 3: Design Schematics**

For the Preferred Alternative, the ENGINEER shall:

- a. The ENGINEER will develop the geometric design that will include the refinement of the proposed typical sections and a fully calculated geometric design that includes all necessary horizontal and vertical alignments.
- b. The ENGINEER will develop preliminary design cross sections at 200' increments and at other intermediate locations as necessary (such as drainage channels, retaining wall limits, bridge limits, etc.). The cross sections will be used to identify the preliminary ROW requirements and assist in locating proposed retaining walls, bridge locations, etc. Earthwork quantities derived from the cross sections will be used in the development of the preliminary construction cost estimate.
- c. The ENGINEER will prepare a geometric schematic plan and profile drawing in accordance with the Chapter 1, Section 3, of the State's *Roadway Design Manual*. The limits of the geometric schematic shall be based on the logical termini with appropriate transitions on each end. The ENGINEER shall deliver 3 copies of the schematic design to the Mobility Authority for approval.
- d. The ENGINEER will perform basic preliminary engineering to determine general bent placements and structure depths for all bridge widening and new bridges including direct connections.

- e. If required by the noise analysis, the ENGINEER will develop preliminary designs for noise barriers for use in the Noise Workshops:
  1. Assess the feasibility of each proposed location and recommend a construction type most appropriate for each site.
  2. Identify issues associated with proposed barriers and drainage constraints.
  3. Assess the feasibility of aesthetic treatments and collect sample cost estimates for various aesthetic treatments
  4. Identify limits of clearing and impacts associated with proposed barriers.
  5. Provide preliminary quantities and construction cost estimates for each proposed barrier.
  6. Prepare typical details for aesthetic concept development.
  7. Revise details for preferred aesthetic treatments and wall types.
  8. Develop preliminary wall layouts

**Deliverables**

- Geometric schematic for preferred alternative utilizing the TxDOT Austin District Schematic Checklist (in both DGN and PDF formats).
- Preliminary design cross sections in both electronic and roll format
- Preliminary quantities, construction cost estimates, total project cost estimates, and operations and maintenance estimates
- Preliminary wall layouts.
- Preliminary bridge layouts.

**Task 4: Traffic Engineering Studies**

The ENGINEER shall conduct the traffic engineering studies for the Reasonable Alternatives Analysis, safety analysis and future traffic demand for the Purpose and Need statement, traffic analyses for various environmental efforts and Operations Analysis for the schematic design.

The ENGINEER shall:

- a. Prepare level of service and traffic operations analysis to evaluate mainlane, frontage road, ramp and intersection operations
- b. Prepare traffic projections to support the air quality analysis, MSAT analysis, and traffic noise analysis.
- c. Develop existing and projected turning movements for each intersection for inclusion on the geometric schematic.
- d. Prepare safety analysis using TxDOT Crash Record Inventory System (CRIS) data for the preceding three full years.

**Deliverables**

- Traffic pattern diagrams for reasonable alternatives
- Safety analysis
- Traffic projections for the design year
- Turning movement projections at intersections
- Level of service analysis
- Microstation files or GIS shape files of traffic volume maps

#### **IV. SOCIAL, ECONOMIC AND ENVIRONMENTAL STUDIES AND PUBLIC INVOLVEMENT**

The ENGINEER shall provide environmental and public involvement services necessary to produce an EA for the Project. The following analyses are not applicable:

- Wild and Scenic Rivers
- U.S. Coast Guard Section 9 Permit

##### **Task 1: Preliminary Environmental Constraints**

###### **Subtask A: Constraints Identification**

The ENGINEER shall perform a desktop review of environmental constraints within the study area. Constraints to be identified include but are not limited to:

- a. Cemeteries
- b. Parks, Preserves, Trails & Greenbelts
- c. Soils
- d. Edwards Aquifer Contributing Zones
- e. Hazardous material sites
- f. Historic Properties
- g. Archeological sites
- h. Williamson County Regional Habitat Conservation Plan Golden-cheeked Warbler & Black-capped Vireo habitat areas
- i. Data from the Texas Parks and Wildlife Department's Natural Diversity Database
- j. United States Fish and Wildlife Service's Critical Habitat Mapper
- k. National Wetland Inventory Data
- l. Floodplains
- m. National Hydrography Dataset
- n. Land uses identified through aerial photo interpretation
- o. Existing and planned development

The above information shall be mapped in Geographic Information System (GIS) and utilized for the evaluation of alternatives.

###### **Subtask B: Project Scope for Environmental Review Document (EA)**

The ENGINEER shall complete a draft Project Scope for Environmental Review Document for the EA using TxDOT's TXDOT

Scope Development Tool. The completed draft will be submitted to Mobility Authority and TxDOT (Austin District and ENV) for review and approval. A workshop with Mobility Authority and TxDOT (Austin District and ENV) may be required to complete the process. Upon approval, the ENGINEER shall draft an Environmental Classification Letter to be submitted to TxDOT for review and approval (Austin District and ENV).

### **Deliverables**

- Constraints Map
- Scope Development Tool
- Project Scope for Environmental Review Document
- Environmental Classification Letter
- Meeting Minutes, if meetings related to this task are held.

## **Task 2: Environmental Process Initiation**

### **Subtask A: Notification Letter**

A project classification letter with the purpose of notifying TxDOT of the initiation of the NEPA process for the Project and asking for concurrence regarding document type shall be prepared and submitted to the Mobility Authority for review that shall include a description of proposed work, termini, length, general location and anticipated approvals. This letter shall include documentation to demonstrate logical termini for the Project.

### **Subtask B: Resource and Regulatory Agency Coordination**

The ENGINEER shall identify and create a database of State, Federal and local resource agencies that may be contacted for input on the Project (as appropriate).

A letter shall be sent to the appropriate agencies in the database inviting them to be part of the Project. The letter shall contain project information, a project area map, a description of the process, and a deadline for agency responses. The ENGINEER shall track the responses received.

### **Subtask C: Technical Reports**

The ENGINEER shall prepare a technical report for environmental subject areas determined to be of concern for the Project. The technical reports shall incorporate guidance provided during meetings with TxDOT, Mobility Authority, and resource agencies, as applicable. Technical reports shall document existing conditions, methods used, study areas evaluated, and direct impacts assessed for each subject area.

### **Subtask D: Purpose and Need Statement**

A draft Purpose and Need will be developed for the project. The Draft Purpose and Need Statement, including backup documentation, shall be submitted to the Mobility Authority for review and subsequent submittal to and review by TxDOT (Austin District and ENV) prior to the first agency coordination meeting and the first public meeting. The Draft Purpose and Need statement shall be presented during the first public meeting to provide an “opportunity for involvement” by the public. The Purpose and Need statement shall be finalized after applicable comments are incorporated from the public meeting, and shall be incorporated into the EA.

### **Task 3: Environmental Analysis for inclusion in the EA**

#### **Subtask A: Analysis of Social and Economic Conditions** (including relocations and disproportionate impacts):

- a. The ENGINEER shall use appropriate and most current data sources, such as U.S. Census Bureau population estimates, windshield surveys, maps, and aerial photographs to assess the existing conditions for socioeconomic conditions and land use in the study area. Potential social conditions to be documented include:
  1. Demographics (population, ethnic/racial distribution, income) based on the most recent American Community Survey data.
  2. Other populations (disabled, elderly).
  3. Land uses in the project area (community services, schools, etc.).
  4. Mobility patterns.
  5. Safety (data).
  6. Other potential resources identified during data collection studies.
- b. The ENGINEER shall identify the property owners and tenants, as appropriate, adjacent to the Project.
- c. The ENGINEER shall identify the racial, ethnic and income level of affected individuals and communities, as available, to be used in subsequent analysis of the potential for disproportionate impacts on any minority or low-income individuals or communities.
- d. The ENGINEER shall develop a project level Environmental Justice Toll Analysis.
- e. The ENGINEER shall develop mitigation measures for social, economic and community impacts.
- f. The ENGINEER shall use public contact and public involvement to gather information from individuals and communities regarding social impacts.

- g. The ENGINEER shall identify, by use of land use plans and windshield surveys, current land uses and any anticipated land uses.
- h. The ENGINEER shall evaluate travel modes and patterns in a study area in order to determine any impacts the project may have on access to homes, businesses and community services.
- i. The ENGINEER shall identify and evaluate the potential for impacts to disabled and elderly individuals and populations. The ENGINEER shall use the most current U. S. Census Bureau data and public contact to determine how the project may impact these individuals and populations.
- j. The ENGINEER shall ensure federally conducted programs and activities are meaningfully accessible to Limited English Proficiency (LEP) individuals as required by Executive Order 13166.

**Deliverables**

- Draft and final project-level Environmental Justice Toll Analysis
- Draft and final community impacts section of EA

**Subtask B: Geology and Soils Impacts**

The ENGINEER shall identify and describe the existing earth resources in the study area, including soils and geologic features.

The ENGINEER shall also identify farmland impacts in the study area in accordance with the Farmland Protection Policy Act (7 U. S. C. 4201 et. seq.).

**Deliverables**

- Geology and Soils Technical Memo

**Subtask C: Environmental Justice**

The ENGINEER shall perform an environmental justice analysis in accordance with requirements of Executive Order 12898 (on Environmental Justice).

**Deliverables**

- Environmental Justice Technical Memo

**Subtask D: Consideration of Pedestrians and Bicycles**

The ENGINEER shall identify considerations affecting pedestrians and bicycles in accordance with requirements of FHWA Technical Advisory TA-T6640.8A (1987) and include data from the CAMPO 2035 Plan for bike/pedestrian facilities.



**Deliverables**

- Findings will be summarized in the Environmental Assessment.

**Subtask E: Air Quality Analysis**

The ENGINEER shall perform an air quality analysis in accordance with the current approved version of the TxDOT Air Quality Guidelines. The ENGINEER shall download and review the current Environmental Compliance Toolkit for Air Quality from TxDOT's website.

Since the projected traffic volumes are not expected to exceed 140,000 ADT, the ENGINEER shall prepare a qualitative analysis technical memorandum on air quality.

**Deliverables**

- Air Quality Technical Memo

**Subtask F: Traffic Noise Analysis**

The ENGINEER shall perform a traffic noise analysis in accordance with the most current version of TxDOT's "Guidelines for Analysis and Abatement of Roadway Traffic Noise."

- a. The ENGINEER shall identify representative receivers that might be impacted by highway traffic noise and may benefit from feasible and reasonable noise abatement.
- b. The ENGINEER shall determine existing and predicted noise levels for representative receivers, as follows:
  1. The ENGINEER shall perform computer modeling of existing noise levels and predicted (future) noise levels. Computer modeling shall be accomplished with the FHWA Traffic Noise Model (TNM), Version 2.5 (or most current version), in areas where there is an existing roadway/traffic.
  2. The ENGINEER shall identify impacted receivers in accordance with State's absolute and relative impact criteria.
  3. The ENGINEER shall consider and evaluate all required noise abatement measures for impacted receivers in accordance with the feasible and reasonable criteria.
  4. The ENGINEER shall propose noise abatement measures that are both feasible and reasonable.
- c. The ENGINEER shall prepare a report documenting the results and methods used in the traffic noise analysis.
- d. If there are noise impacts and barriers are reasonable and feasible, the ENGINEER shall conduct Noise Workshops (if necessary):

1. The ENGINEER will conduct an initial internal workshop to review the location, length, height, utilities, ROW, constructability, vegetation impacts, etc. associated with each barrier. Participants will include the ENGINEER, the Mobility Authority, TxDOT, and the GEC.
2. The ENGINEER will conduct up to four (4) noise workshops:
  - a. Develop talking points
  - b. Identify and document information to be communicated to the public (mailings, notices, advertising, etc.)
  - c. Develop a workshop agenda
  - d. Develop necessary exhibits such as:
    - i. aerial maps illustrating proposed barrier locations and property lines
    - ii. Graphics illustrating proposed barrier types (up to five)
    - iii. Graphic display of proposed surface treatments and colors
    - iv. Perspective drawings for example walls for workshops (up to five)
    - v. Develop voting information and ballots
    - vi. Produce handouts for noise workshop participants
    - vii. Develop PowerPoint presentation
  - e. Identify and propose for approval locations for the four (4) workshops. The ENGINEER will make recommendations of locations that are a convenient distance to the proposed barrier location, attempt to identify meeting locations that are free of charge, and recommend up to four (4) facilities for approval.
3. The ENGINEER will notify property owners of the workshops:
  - a. Prepare a draft notification packet for review and approval by the Mobility Authority.
  - b. Notification packets will be sent via certified mail, return receipt requested, to adjacent property owners 30 days prior to the workshop
  - c. If a return receipt is not received within 15 days of the mailing, a phone call will be placed to the property owner of record.
  - d. Provide and place door-hangers on the adjacent properties 7 days prior to the workshop.
4. The ENGINEER will notify other interested parties and local elected officials:
  - a. Notify relevant elected officials
  - b. Notify City representatives
  - c. Notify other interested parties and neighborhood associations.
  - d. Post the schedule and meeting materials on the project website maintained by the Mobility Authority
5. The ENGINEER will compile documentation of workshop attendance. The ENGINEER will:
  - a. Record the attendance of property owners who are eligible to vote on the noise barrier.
  - b. Provide property owners with a name badge that clearly identifies their status as an eligible voter.

- c. Record the attendance of other individuals, which may include representatives of neighborhood associations, community groups, agency staff, or elected officials.
  - d. Take photographs to document the meetings.
6. The ENGINEER will develop a draft summary of the results of the noise workshop process to document the outcome and provide design information to the design team. Upon review and approval of the draft summary, the ENGINEER will provide a Final Summary Report.

#### **Deliverables**

- Draft and final noise workshop notification packets
- Draft and final noise workshop exhibits, handouts, talking points/ PowerPoint presentation, advertisements, voting materials
- Draft and final Noise Analysis Technical Memo
- Noise workshops draft and final Summary Report

#### **Subtask G: Water Quality Studies**

The ENGINEER shall determine whether the proposed project has the potential to affect water quality as it relates to each reasonable alternative, addressing the following:

- a. TCEQ/TxDOT MOU.
- b. Surface water resources – identification of threatened and impaired water bodies as listed in the TCEQ's 2014 303(d) list.
- c. Sources of public drinking water and assess any potential impacts.
- d. Edwards Aquifer (Recharge Zone and Contributing Zone) impacts
- e. Texas Pollutant Discharge Elimination System program.
- f. Geologic Assessment (can be added if needed)
- g. Input from Stakeholders

#### **Deliverables**

- Findings will be summarized in the Environmental Assessment.

#### **Subtask H: U.S. Army Corps of Engineers Permits/Waters of the U.S.**

- a. Section 401 of the Clean Water Act (33 U.S.C. 1341). For each reasonable alternative being considered, the ENGINEER shall determine whether the proposed project requires a Section 401 water quality certification.

- b. Section 404 of the Clean Water Act (33 U.S.C. 1344). For each reasonable alternative being considered, The ENGINEER shall perform a Waters of the U.S. assessment based on the constraints map data and published data and field reconnaissance of the reasonable alternatives. For the Preferred Alternative, the ENGINEER shall determine whether the proposed project requires a Section 404 permit (Nationwide or Individual) and if necessary, shall perform coordination with the USACE. The ENGINEER will be required to prepare and submit any necessary 404 permitting.
- c. Draft Final and Final Report. The ENGINEER shall produce a draft report of Waters of the U.S. The ENGINEER shall submit four copies of the draft report to the Mobility Authority for review and approval. In the final report, ENGINEER shall address Mobility Authority comments on the draft report. The ENGINEER shall submit four copies of the final report to the Mobility Authority for review and approval.

**Deliverables**

- USACE 404 Permitting documentation (NWP is anticipated)
- Waters of the US report, draft and final

**Subtask I: Vegetation and Wildlife Habitat**

The ENGINEER shall identify and assess the potential for water body modifications and the existing conditions of wildlife habitat in the study area in accordance with the requirements of TXDOT's MOU with TPWD.

**Deliverables**

- Findings will be summarized in the Environmental Assessment.

**Subtask J: Invasive Species Studies**

The ENGINEER shall address invasive species in accordance with the requirements of Executive Order 13112.

**Deliverables**

- Findings will be summarized in the Environmental Assessment.

**Subtask K: Beneficial Landscaping**

The ENGINEER shall discuss beneficial landscaping in accordance with the requirements of Executive Memorandum of April 26, 1994.

**Deliverables**

- Findings will be summarized in the Environmental Assessment.

### **Subtask L: Floodplain Impacts**

The ENGINEER shall determine whether the proposed project has the potential to affect floodplains. Studies for floodplain impacts shall follow the requirements of Executive Order 11988 and 23 C.F.R. 650, Subpart A.

#### **Deliverables**

- Findings will be summarized in the Environmental Assessment.

### **Subtask M: Threatened or Endangered Species**

- a. The ENGINEER shall examine all available existing commercial and scientific data to determine the likelihood that protected species, their habitat, or designated critical habitat (per 50 C.F.R. 17.94-95) could be impacted by the proposed project. Existing data shall include the records of the TPWD Natural Diversity Database, USFWS records or files, and any other records available to the public.
  1. Surveys for Habitat of Protected Species. For the purposes of this contract, protected species shall include:
    - a) All species listed by the USFWS as threatened or endangered or proposed for listing as threatened or endangered (50 C.F.R. 17.11-12);
    - b) All species that are candidates for review for listing by USFWS as threatened or endangered (per most recently updated list in Federal Register);
    - c) Species listed as threatened or endangered species by TPWD (State of Texas Threatened and Endangered Species Listings, TPWD);
    - d) Species protected by the Migratory Bird Treaty Act (50 C.F.R. 10.13).
- b. The ENGINEER shall conduct early coordination with TxDOT and the USFWS to determine the most appropriate regulatory process (§7, §10 or a combination) for clearance under the Endangered Species Act if habitat for listed species will be affected.
- c. Incorporating the results of b. above (if required), prepare Biological Evaluation (BE) for the proposed project.
- d. Habitat Analysis. For inclusion in the BE and for use in coordination with TPWD the ENGINEER shall perform an analysis/characterization of habitat for the study area. If the ENGINEER encounters protected species or habitat for protected species, the ENGINEER shall notify the Mobility Authority immediately. In accordance with Provision (4)(A)(ii) of the TxDOT – TPWD MOU, some habitats may be given consideration for non-regulatory mitigation during project planning (at the TxDOT Austin District's discretion).

#### **Deliverables**

- Biological Evaluation

#### **Subtask N: Archeological Studies**

The ENGINEER shall perform an archeological background study for the proposed project Archeological survey, testing or data recovery, if required, would be covered under a separate supplemental work authorization

##### **Deliverables**

- Archeological background study.

#### **Subtask O: Historic Resource Studies**

The ENGINEER shall perform historic resource project coordination request. If required, a Historic Resources Survey Report (HRSR) would be prepared under a supplemental work authorization.

##### **Deliverables**

- Historic project coordination request.

#### **Subtask P: Initial Site Assessment of Hazardous Materials**

- a. The ENGINEER shall perform an initial site assessment (ISA) for potential hazardous materials impacts. The ISA shall determine the potential for encountering hazardous materials in the study area. The hazardous materials ISA is outlined by TxDOT and is in accordance with the American Society for Testing and Materials (ASTM) Environmental Site Assessment standard practices (ASTM E 1527 and ASTM E 1528) or equivalent (i.e., satisfies "due diligence" and "appropriate inquiry" requirements under the Comprehensive Environmental Response and Compensation Liability Act (42 USC 9601(35)(B)). The following components of the hazardous materials ISA shall be reviewed, assessed, and/or documented to an appropriate project-specific level:
  1. Existing and previous land use information from readily available resources (topographic maps, available aerial photos, right-of-way maps, files and other information;
  2. Initial site/corridor field surveys by a hazardous materials expert;
  3. A regulatory agency database search (list search) and/or review of regulatory agency files.
- b. The ENGINEER shall produce and submit to the Mobility Authority an ISA for hazardous materials. The ISA shall include, when applicable, full list search reports, copies of agency file information, recommendations, and any other supporting information gathered by the ENGINEER. The ENGINEER also shall include a discussion of hazardous materials impacts based on the ISA suitable for inclusion in the EA.

**Deliverables**

- Hazardous Materials ISA checklist and supporting attachments

**Subtask Q: Visual Impacts**

The ENGINEER shall identify visual impacts in accordance with the requirements of FHWA Technical Advisory TA-T6640.8A (1987).

**Deliverables**

- Visual impacts summary

**Subtask R: Indirect Impacts**

The Council on Environmental Quality (CEQ) regulations requires that all federal agencies consider the indirect effects of any proposed action. The ENGINEER shall identify indirect impacts in accordance with the requirements of FHWA Technical Advisory TA-T6640.8A (1987), NCHRP's Report 466: Desk Reference for Estimating the Indirect Effects of Proposed Transportation Projects (2002), NCHRP's Report 25-25, Task 22: Forecasting Indirect Land Use Effects of Transportation Projects (2007), and TxDOT's Indirect Impacts Analysis Guidance (July 2016) or most current version at contract execution. The ENGINEER will organize and conduct a collaborative judgment process with expert individuals. The ENGINEER shall document the indirect impacts analysis in a technical report. The results included in the technical report will also be used in the EA.

**Deliverables**

- Indirect Impacts Technical Report

**Subtask S: Cumulative Impacts**

The Council on Environmental Quality (CEQ) regulations requires that all federal agencies consider the cumulative effects of any proposed action. The ENGINEER shall identify cumulative impacts in accordance with the requirements of FHWA Technical Advisory TA-T6640.8A (1987), CEQ's handbook, Considering Cumulative Effects Under the National Environmental Policy Act (1997) and TxDOT's Cumulative Impacts Analysis Guidelines (July 2016) or most current guidance at contract execution. The ENGINEER shall document the cumulative impacts analysis in a technical report. The results included in the technical report will also be used in the EA.

**Deliverables**

- Cumulative Impacts Technical Report

**Subtask T: Construction Impacts**

The ENGINEER shall prepare a general discussion of construction impacts for each reasonable alternative for inclusion in the environmental document.

**Deliverables**

- Findings will be summarized in the Environmental Assessment.

**Subtask U: Section 4(f)/Section 6(f) Evaluations**

The ENGINEER shall identify Section 4(f) properties in the study area in accordance with 49 USC 303 and assess the potential for project-related impacts on those properties. The properties identified shall include all property types listed in 23 C.F.R. 771.135 (49 USC 303). Potential impacts on the Bryson Farmstead (NRHP) shall be evaluated and a determination of potential constructive use completed.

The ENGINEER shall also identify any land use that has applied funds from the Land & Water Conservation Fund Act (LWCFA), 16 U.S.C. §§ 4601-4 to 4601-11 (commonly referred to as Section 6(f), as the provision was originally contained in Section 6(f)(3) of the LWCFA, Public Law 88-578 of 1962, before codification); and the Urban Park and Recreation Recovery Act (UPARRA), 16 U.S.C. §§ 2501 to 2514 restrict the future use of parklands or open spaces that have been improved with funds received through the LWCFA and UPARRA (collectively, "Section 6(f) resources").

- a. The ENGINEER shall use existing engineering data, archeological and historical studies, and parks records to determine whether 4(f)/6(f) properties may be present. If in the ENGINEER's opinion there is insufficient archeological, historic or engineering data upon which to base a determination of 4(f)/6(f) status, the ENGINEER shall contact the Mobility Authority to obtain further direction on how to proceed.
- b. The ENGINEER shall organize and analyze existing data to enable TxDOT to make a determination of applicability in conformance with FHWA 4(f) Policy Paper (Sept. 24, 1987) and FHWA Technical Advisory T6640.8A (Oct. 30, 1987).

**Task 4: Environmental Document Preparation****Subtask A: Draft Environmental Assessment (EA)**

- a. The ENGINEER shall prepare an EA which shall include discussions of purpose and need, existing and proposed design, alternative descriptions, alternatives analysis, air quality assessment, noise computer modeling, historical/archeological assessment, wildlife and endangered species review, right-of-way, displacements, socioeconomic analysis and environmental justice impacts, water quality, wetlands, floodplains, aesthetics/visual effects, and construction impacts as well as indirect and cumulative impacts. Assume the EA will evaluate the No-Build Alternative and Preferred Alternative.
- b. The ENGINEER shall prepare exhibits including, but not limited to, the following: vicinity map, floodplain map, existing and proposed typical sections,



- line diagrammatic schematic, noise receiver location map, wetlands inventory map, USGS map, site photographs and hazardous sites map, as appropriate.
- c. Exhibits in the document shall be limited in size to 8 1/2" x 11" or 11" x 17" for ease of reproduction.
  - d. The ENGINEER shall schedule and attend a review meeting to be held with the Mobility Authority for the Project. The purpose of the review is for the ENGINEER to receive comments from the Mobility Authority and TxDOT (Austin District and ENV).
  - e. The ENGINEER shall revise the EA, addressing those comments obtained from the Mobility Authority, TxDOT Austin District, TxDOT ENV, and Agency review.

**Deliverables**

- Draft EA
- Revised EA per review comments (6 review cycles)

Note: The ENGINEER agrees that all efforts utilized during the development of technical reports under this section are also considered preliminary work products for the development of the EA document, and that applicable work product generated during technical reports shall be utilized during the development of the EA to prevent duplication of effort.

**Subtask B: Final EA**

- a. After the public hearing, the ENGINEER shall update the environmental document. The ENGINEER shall address the engineering and environmental issues raised at the public hearing and effect disposition of same. This action is an important part of the study process and shall involve evaluating suggestions received as a result of the hearing. This shall be done in coordination with the Mobility Authority, TxDOT Austin District, and TxDOT ENV.
- b. The ENGINEER shall revise the draft environmental document to discuss changes to the preferred alternative in response to agency and public hearing comments, as required.
- c. The ENGINEER shall review the draft impacts section and revise this section to reflect the preferred alternative and pertinent comments received during the hearing. As appropriate, the ENGINEER shall include a summary of further agency comments and a discussion of results of agency coordination.
- d. The ENGINEER shall prepare and list public hearing comments and responses. This summary shall be included as an appendix to the environmental document, as appropriate.

- e. The ENGINEER shall submit the revised draft EA for Mobility Authority, TxDOT Austin District, and TxDOT ENV review.
- f. The ENGINEER shall revise the Final EA document to respond to Mobility Authority, TxDOT, and Agency comments. Following final revisions, the ENGINEER shall provide to the Mobility Authority hard copies and electronic copies in native and PDF format of the Final EA on e-Builder.

**Deliverables**

- Draft Final EA (digital only)
- Revised FINAL EA per review comments (digital and 4 hard copies)

**Subtask C: FONSI/Final Approval**

The ENGINEER shall prepare and submit to the Mobility Authority the Draft FONSI, as appropriate, for their use in obtaining final clearance of the Project. The Draft FONSI shall be submitted to the Mobility Authority following the submission and review of the Final EA.

**Deliverables**

- One electronic copy (in native and PDF format) of a Draft FONSI

**Task 5: Environmental Support Services****Subtask A: Administrative Record (AR)**

The ENGINEER shall establish, track, organize and manage the project's administrative record, which is the written record supporting the agency's decisions. The documents and materials shall be organized in chronological order by date and indexed. The index should include a brief description of each document. The index should be updated on a regular basis and a copy of the index provided to the Mobility Authority monthly. The administrative record shall be maintained by the ENGINEER throughout the duration of this work authorization. Documentation and materials to be compiled as part of the AR include:

- a. Privileged and non-privileged documents and materials (once the AR is compiled, protected documents and materials shall be retracted or removed from the record. The index shall identify the documents or materials, reflect that they are being withheld, and state on what basis they are being withheld.)
- b. Draft and final documents and materials
- c. Technical information, sampling results, survey information, engineering reports or studies
- d. E-Mail messages and attachments

- e. Correspondence and attachments
- f. Documented communications among organizations involved in the project
- g. Policies, guidelines, directives, and manuals relevant to the development of project NEPA documentation
- h. Modeling results and factual data
- i. Public involvement materials, communications, comments, and other information that documents public participation in the project
- j. Meeting minutes or transcripts
- k. Maps, drawings, and displays
- l. Photographs
- m. Field and personal notes (under special circumstances)
- n. Primary Sources

An index and a database of documents contained within the AR shall be created and maintained in chronological order by the ENGINEER. The index shall have a cover page that shall include the title of the project, date that the AR was originally compiled, date(s) AR was updated. In addition, the index would have a brief introduction and preface that explains the contents of the index, how it was organized, how to use the index, as well as a brief project description. The majority of the index would comprise a matrix that contains the following information for each item within the AR:

- a. Temporary number that corresponds to a number placed on the item
- b. Date of document or material development
- c. Author of document or material
- d. Recipient of document or material
- e. Title or Description of document or material
- f. Number of Pages

A permanent number may be placed on the documents when the AR is complete or is reviewed by appropriate personnel.

Each information item (see above) with regards to each AR item shall be designated

as a separate field within the database. The database and index shall be burned onto a DVD and placed within the AR along with a hardcopy of the index (matrix). The database can be used to prepare a variety of reports with regards to the AR sorted by any of the fields.

Provide an electronic copy of the AR on a DVD and e-Builder and the documents not already in electronic format will be scanned. The scanned documents will be legible.

### **Deliverables**

- Indexed Project Record (to be submitted monthly)
- Indexed and numbered Administrative Record, electronic file and hard copy

## **Task 6: Public Involvement**

The ENGINEER shall perform public involvement activities in accordance with 43 TAC 2.40 – 2.50 as well as with the current version of TxDOT's environmental procedures manual.

### **Subtask A: Public Involvement Plan**

The ENGINEER shall develop a public involvement plan to facilitate meaningful participation to ascertain stakeholder input on initiatives to promote environmental stewardship and sustainability planning as part of the environmental decision-making process. Involvement must be early, inclusive, continuous and tailored to address the identified needs within the project area including LEP needs. The public involvement plan should include an education component to explain to the public the concepts and purpose of environmental stewardship and project sustainability.

### **Deliverables**

- Public Involvement Plan

### **Subtask B: Stakeholder Engagement**

- a. The ENGINEER shall compile, maintain and update a mailing list of people, agencies and organizations interested in the proposed project. The Mobility Authority shall provide the ENGINEER with relevant data available to the Mobility Authority.
- b. The ENGINEER shall provide content for inclusion on a Project Website or Public Engagement forum. Content could include, but not be limited to:
  1. Project description information
  2. Upcoming events and activities
  3. Project Reports and documentation
  4. Project newsletters and fact sheets
  5. Frequently Asked Questions
  6. Links to audio and video recordings of project events such as open houses and hearings

7. Links to related websites
  8. Public engagement forum questions and responses
- c. Project Fact Sheets  
The ENGINEER will:
1. Prepare Fact Sheets to provide more in depth information on special project topics than can be provided in the project newsletter (e.g. explanation of alternatives, noise analysis and mitigation options, etc.). The fact sheets will be no longer than two (2) two-sided pages with appropriate graphics.
  2. Mail fact sheets to community members upon request.
  3. Make the fact sheets available in PDF format on the project website and at public involvement activities including neighborhood and public meetings, project presentations, and noise workshops.
- d. Frequently Asked Questions (FAQs)  
The ENGINEER will prepare FAQs, with responses, for approval by the Mobility Authority, TxDOT Austin District, TxDOT ENV and FHWA and posting on the project website.
- e. Community Engagement
1. Develop and maintain a list of potential community members (neighborhood associations, special interest groups, business associations, etc.) to contact for informal meetings/discussions.
  2. Send project information to community groups and offer to meet with them.
  3. Respond to requests from community members for meetings with project staff.
  4. Conduct up to 5 meetings with community groups to discuss the Project.
  5. Coordinate with the Mobility Authority and TXDOT on meeting logistics.
  6. Maintain a complete correspondence file for the stakeholder meetings, including printed and electronic letters and other correspondence.
  7. Prepare a neighborhood meeting summary for each meeting.
- f. The ENGINEER shall make all arrangements for up to one (1) Public Meeting/Open House, and one (1) Public Hearing (2 events total). Each Public Meeting/Hearing shall be coordinated and held in accordance with the following:
1. The ENGINEER shall secure the meeting/hearing location, date and time (includes securing a/v equipment, chairs/tables, podium, etc.) In the interest of the community outreach and cost, the ENGINEER should ideally pursue non-commercial, community sites for the Public Meetings/Hearings when possible.
  2. The ENGINEER shall prepare and publish legal notices and Display Advertisements for each meeting/hearing. The ENGINEER shall prepare and distribute meeting notices for distribution to the contacts on project databases. The ENGINEER shall provide the Mobility Authority draft copies

- of legal notices and display ads at least three (3) weeks prior to first publication date.
3. The ENGINEER shall prepare meeting/hearing handouts, agendas, name tags, sign-in sheets, speaker cards, comment cards and Power Point presentations with accompanying speech (a version for each meeting/hearing). Up to four (4) different line diagrams and up to fourteen (14) exhibit boards shall be prepared by the ENGINEER per meeting/hearing.
  4. The ENGINEER shall provide a translator (if needed), audio/video equipment (projector, screen, microphones, podium, etc.) (if needed).
  5. The ENGINEER shall provide a court reporter for each Public Meeting/Hearing.
  6. The ENGINEER shall compile and prepare responses to comments at each Public Meeting/Hearing.
  7. The ENGINEER shall make up to four (4) rounds of revisions on all meeting materials. The ENGINEER shall obtain the Mobility Authority's approval on all materials prior to production or publication.
- g. The ENGINEER shall arrange and attend up to two (2) pre-meetings (a pre-meeting prior to the public meeting and the hearing) with the Mobility Authority and TxDOT to review all exhibits and other materials to be used at public meetings or hearings.
- h. The ENGINEER shall provide personnel to staff up to two (2) meetings/hearings including three (3) public involvement and coordination staff to perform registration, make presentations, and answer questions.
- i. The ENGINEER shall develop and submit to the Mobility Authority up to two (2) Public Meeting/Hearing Summary Reports and a Summary and Analysis of each public hearing that document the activities for each meeting/ hearing conducted. These reports shall contain the outreach, notifications, and contacts conducted prior to the meetings/hearings; meeting/hearing details such as presentations, attendance, and pertinent details regarding the meeting/hearing; and a comment and response section that documents comments received before, during and after the meeting/hearing, and a response to each. The Public Meeting Summary Report and Public Hearing Summary and Analysis shall be sufficiently detailed to provide a full record of officially submitted comments from the meetings/hearings.

### **Deliverables**

- Updated project database/ mailing list
- Website content as described above
- List of potentially interested community groups
- Up to five (5) community meeting summary reports
- Two (2) Public Meeting/Hearing Summary and Analysis Reports

### **Subtask C: Elected Official/Agency Involvement and Coordination**

This task is to assure coordination with local and regional jurisdictions and agencies related to the Project; to actively solicit their participation in the planning and decision process for the project. The ENGINEER will work with the Mobility Authority to identify public agencies and jurisdictions that should be included in the Project outreach program.

The ENGINEER will:

- a. Work with the Mobility Authority and TxDOT to identify elected officials at the local, regional, and federal levels who need to be briefed at key points in the project (e.g. city council members, board members of regional agencies, and federal elected representatives).
- b. Work with the Mobility Authority to prepare briefings of elected officials on a regular basis, in advance of major project related community events or activities.
- c. Prepare a briefing summary report to summarize all briefings.

#### **Deliverables**

- Updated project elected officials database/mailing list
- Briefing Summary Report

#### **Subtask D: Media Outreach and Coordination**

- a) The ENGINEER will work with the Mobility Authority to keep the public informed about the project.
- b) Issues Management. The ENGINEER will develop an advanced list of potential significant issues of public interest or concern and prepare contingencies for dealing with each issue and pre-prepared language or response outlines for each issue.
- c) Crisis Communications. The ENGINEER shall work with the Mobility Authority to assist in communications of a crisis nature requiring rapid response times, in particular to the local news media.

#### **Subtask E: Context Sensitive Solutions (CSS)**

The ENGINEER will coordinate CSS activities into the project as necessary. This includes coordination with adjacent Williamson County projects.

### **IV. FIELD SURVEYING AND PHOTOGRAMMETRY**

#### **Task 1: Field Survey**

Surveying services shall include use of geodetic methods to establish horizontal and vertical control network of the preferred alternative. Survey limits of the project, as will be from the northbound eastern edge of the frontage road to the southbound western edge of the frontage road from 0.5 miles north of SH 29 south to Hero Way and extending 500 feet from the centerline down cross streets. All survey activities shall be coordinated with TxDOT for access to the right of way.

- a. The ENGINEER shall perform each survey in accordance with the TxDOT's latest practices, specifications, procedures and standards. Each survey shall meet or exceed the standards set in the Professional Land Surveying Practices Act, General Rules of Procedures and Practices promulgated by the Texas Board of Professional Land Surveying (TBPLS), the latest edition of the Texas Society of Professional Surveyors (TSPS) Manual of Practice for Land Surveying in the State of Texas, current Federal Geodetic Control Subcommittee's (FGCS) Geometric Geodetic Accuracy Standards and Specifications for Using GPS Relative Positioning Techniques, FGCS Standards and Specifications for Geodetic Control Networks, the State GPS Manual of Practice, and, the State Survey Guide, latest edition. Each survey shall be conducted in an organized and workman-like manner and shall be subject to the approval of the Mobility Authority.
- b. The ENGINEER shall use The North American Datum of 1983 (NAD83), Texas State Plane Coordinate System (SPCS) Central Zone, NAD83 CORS Adjustment, based upon state monuments. All coordinates and distances shown shall be project surface values expressed in units of survey feet. The project grid-to-surface combined adjustment factor shall be determined by the ENGINEER. The ENGINEER shall submit the proposed scale factor, in writing, to the Mobility Authority and TxDOT for approval. The ENGINEER shall base elevations on North American Vertical Datum 88 (NAVD88), unless otherwise directed by the Mobility Authority.
- c. The ENGINEER shall certify work performed under this contract as true and correct according to FGCS Standards, the State Survey Guide, latest edition, the State GPS Manual of Practice, latest edition or the TSPS Manual of Practice for Land Surveying in the State of Texas, as may be applicable.
- d. Survey standards for services that relate to surveying for engineering projects that are non-boundary related may be determined by the Mobility Authority, construction specifications, or design specifications.

The ENGINEER shall provide a design survey for the preferred alternative route. This work may include right-of-entry, establishing control, leveling control, performing an aerial flight, aerial mapping, mobile mapping and locating obscured areas.

- a. The ENGINEER shall notify the Mobility Authority prior to performing the work if:



1. Sufficient primary control monumentation previously set cannot be found.
  2. The work is delayed due to weather or other circumstances beyond the ENGINEER's direct control.
- b. The ENGINEER shall perform design in compliance with the following technical requirements:
1. Design survey shall be performed under the direct supervision of a Registered Professional Land Surveyor currently registered with the Texas Board of Professional Land Surveying. All survey work shall conform to the TxDOT Survey Manual latest addition and the TxDOT GPS Manual latest addition.
  2. Horizontal and Vertical ground control established by conventional methods conducted by the ENGINEER shall meet standards of accuracy as set forth in the TxDOT Survey Manual and the TSPS Manual of Practice for Land Surveying in the State of Texas to the category and condition delineated. The ENGINEER shall run vertical control using digital levels only unless otherwise approved by the Mobility Authority.
  3. Horizontal and/or vertical ground control used for design surveys based on GPS surveys shall meet standards of accuracy as set forth in the Federal Geodetic Control Committee publication entitled Geometric Geodetic Accuracy Standards and Specifications for Using GPS Relative Positioning Techniques, reprinted with corrections August 1, 1989, or the TxDOT GPS Manual of Practice, latest edition, as specified.
  4. Side shots or short traverse procedures used to determine horizontal and vertical locations shall meet the following criteria:
    - i. Side shots or short traverses shall begin and end on horizontal and vertical ground control as described in the TSPS Manual of Practice for Land Surveying in the State of Texas to the category and condition delineated.
    - ii. The ENGINEER shall use standards, procedures and equipment such that horizontal locations relative to the control may be reported within the following limits:
      - a. Bridges and other roadway structures less than 0.1 of one foot.
      - b. Utilities and improvements less than 0.2 of one foot.
      - c. Cross-sections and profiles less than 1 foot.
      - d. Bore holes less than 3 feet.
    - iii. The ENGINEER shall use standards, procedures and equipment such that vertical locations relative to the control may be reported within the following limits:
      - a. Bridges and other roadway structures less than 0.05 of one foot.
      - b. Utilities and improvements less than 0.1 of one foot.
      - c. Cross-sections and profiles less than 0.1 of one foot.
      - d. Bore holes less than 0.1 of one foot.

### **Deliverables**

- Design survey for Preferred Alternative

## **Task 2: Mobile Mapping**

The purpose of mobile mapping is to provide planimetric digital mapping (DGN) and digital terrain modeling (DTM) in support of roadway design.

### **Subtask A: Mobile Mapping**

Provide Mobile LiDAR mapping appropriate for detailed design. The mapping corridor will be limited to the edges of the existing pavement and include all existing striping.

- a. TxDOT standards shall be utilized.
- b. Translate all vector data to GEOPAK, ESRI, and MICROSTATION and project the data to GRID and SURFACE coordinates as required.
- c. Horizontal ground control provided shall meet standards of accuracy required by the Mobility Authority and as described in the FGCS Standards and Specifications for Geodetic Control Networks, latest edition, the Texas Department of Transportation Survey Manual, latest edition, the Texas Department of Transportation GPS Manual of Practice, latest edition, or the TSPS Manual of Practice for Land Surveying in the State of Texas, as may be applicable.
- d. Vertical ground control provided shall meet standards of accuracy required by the State and as described in the FGCS Standards and Specifications for Geodetic Control Networks, latest edition, the Texas Department of Transportation Survey Manual, latest edition, the Texas Department of Transportation GPS Manual of Practice, latest edition, or the TSPS Manual of Practice for Land Surveying in the State of Texas, as may be applicable.

#### **Deliverables**

- Calibrated .LAS files.
- Certification that the data was captured on the date indicated, signed by the data provider.

### **Subtask B: DGN and DTM Files**

- a. Prepare DGN files covering the specific work location, meeting standards and specifications as required.
- b. Prepare DTM files covering the specific work location, meeting standards and specifications as required.

#### **Deliverables**

- 2D DGN and 3D DTM files on a medium and in a format acceptable to the

Mobility Authority, delivered in e-Builder.

### **Task 3: Level Control**

The ENGINEER shall verify and adjust the control vertically with digital differential leveling. The ENGINEER shall perform leveling throughout the entire limits or length of the Preferred Alternative. Primary and secondary control points shall be tied together to establish adjusted vertical control for the project. The ENGINEER shall base the adjusted vertical datum on the values derived for the adjusted primary control.

### **Task 4: Water Crossing Sections**

The ENGINEER shall survey cross sections of waterbody crossings (at approximate 500' intervals) up to 2000' right and left from the proposed ROW of the preferred alternative alignment.

#### **Deliverables**

- Cross section survey for water crossings.
- Two copies of the Surveyor's project field books.

## **VI. DRAINAGE & WATER QUALITY**

### **Task 1: General**

- a. Unless otherwise specified, the current online State Hydraulics Design Manual shall serve as the basis for all drainage policy, procedures, guidelines, report, and plan sheet documentation required for this project. The manual can be downloaded from the TxDOT's website. Likewise, the Austin District Hydraulics Engineer (DHE) shall be consulted for guidance on policy, regulations, standards, and District preferences. Local drainage criteria shall not be used for the project without the prior approval of the Mobility Authority.
- b. Computation of floodplain impacts generally requires flood routing and the use of a unit hydrograph methodology that takes into consideration the effects of infiltration, storage, timing parameters, etc. The NRCS curve number method is preferred, but other unit hydrograph techniques could also be used. Coordination with the Mobility Authority and the DHE is required on the hydrologic method to be used if different than the NRCS curve number method for areas 200 acres or larger and the Rational Method for areas less than 200 acres.

- c. Detail ditch and/or storm sewer analysis is generally not expected at this level, which concentrates on addressing environmental and schematic drainage concerns. However, the effects on streams from addition of impervious cover, encroachments, changes in roadway horizontal and vertical alignments, and changes in topography, as a result of the roadway project, must be determined.

### **Task 2: Hydrology and Hydraulics – Non-FEMA Regulated Crossings**

It is anticipated there will be up to 15 Non-FEMA crossings within the project limits. The ENGINEER will obtain and fully utilize all available data including past drainage plans and reports. This data will serve as the baseline for the cross-drainage modeling effort and will be utilized as much as possible.

- a. Not including FEMA regulated crossings, the ENGINEER shall model the hydrology of all crossing structures along the preferred alternative.
- b. The ENGINEER shall model the hydraulics of all crossing structures using appropriate software. The full range of storm frequencies should be evaluated in the analysis, from the 50 percent to the 1 percent annual exceedance probability storm event.
- c. Not including FEMA regulated stream crossings, all cross-drain structures (culverts and bridges) shall be identified and evaluated for the preferred alternative only. The following considerations shall be included in the proposed hydraulics analysis and design:
  1. Proposed roadway profile and encroachment
  2. Degree of upstream and downstream development
  3. Proposed alignment/roadway features that could create increases in water surface elevations outside of the State right of way
  4. Proposed alignment/roadway features that could create increases in water velocities and erosion impacts. Evaluation of soil types and erosion potential is included here.
  5. Impacts and mitigation alternatives.
- d. For the preferred alternative, the ENGINEER shall analyze ditches and channels adequately enough to establish proposed project ROW and necessary easements.
- e. The ENGINEER shall provide a preliminary construction cost estimate for all drainage structures for the preferred alternative only.

### **Deliverables**

- Input and output files in electronic format of all hydrologic and hydraulic modeling software used in the project.
- Hydraulic Analysis for inclusion in design
- Preliminary cost estimate for all drainage structures for the preferred alternative.

### **Task 3: Hydrology and Hydraulics – FEMA Regulated Crossings**

All FEMA regulated streams will be modeled for the preferred alternative only. It is anticipated there will be up to 3 FEMA crossings within the project limits.

Existing basin conditions are the normal design criteria used by TxDOT. The use of ultimate basin conditions on this project shall be considered on a case by case basis, and after an assessment performed by TxDOT and the Mobility Authority. Therefore, coordination with the Mobility Authority and the DHE shall be required if the ENGINEER deems necessary to use ultimate basin conditions.

- a. The ENGINEER shall coordinate with the floodplain administrator (FPA) of Williamson County and other appropriate jurisdictions to obtain hydrologic and hydraulic information on the FEMA regulated streams that cross this project. The ENGINEER and its staff shall not represent themselves to the FPA as having decision-making authority on behalf of The Mobility Authority. This task includes acquisition of the hydrologic and hydraulic models for the pertinent streams.
- b. For Zone AE stream crossings, the ENGINEER shall review the effective hydrological model for recent changes in development and update to a current effective model if necessary.
- c. For Zone A stream crossings, the ENGINEER shall create a current effective hydrological model (by using a unit hydrograph methodology such as the NRCS Curve Number Method.)
- d. For Zone A and Zone AE stream crossings, the ENGINEER shall create a proposed hydrological model by updating the effective or current hydrologic model to account for the proposed project changes. Proposed project changes could include additional impervious cover, potential sub-basin area changes, potential changes to timing parameters, etc. In those basins along the project where the hydrologic analysis for the proposed conditions determines that the runoff drains into the stream before the main flood peak on the stream arrives, no additional hydrologic analysis of the stream shall be required and the current or effective hydrological model shall be used.

In the basins where the proposed hydrologic analysis indicates a potential timing conflict between the main flood peak and the basin specific peak, additional hydraulic analysis shall be performed to determine increases in proposed water surface elevation along the stream. Runoff hydrographs representing the existing and increased impervious area roadway conditions, as well as other relevant project changes shall be used to determine impacts based on timing.

- e. For Zone AE stream crossings, the ENGINEER shall review the effective hydraulic model for recent changes in development and update to a current effective model if necessary.
- f. For Zone A stream crossings, the ENGINEER shall create a current effective hydraulic model using existing project parameters.
- g. For Zone A and Zone AE stream crossings, the ENGINEER shall create a proposed hydraulic model by updating the effective or current effective hydraulic model to account for the proposed project changes.
- h. If water surface elevations are increased outside of the State right-of-way, the ENGINEER shall determine the extent of the impact, and discuss and propose mitigation alternatives.
- i. The ENGINEER shall prepare a draft Hydraulics report to be reviewed by the Mobility Authority. The report shall adequately address environmental concerns related to floodplain impacts, as well as discuss assumptions, parameters, procedures, results, and recommendations. This report shall also present and discuss impacts and mitigation. After review, the ENGINEER shall address the comments and produce a final report.

#### **Deliverables**

- Hydrologic models for the preferred alternative
- Hydraulic models for the preferred alternative
- Draft hydraulics report
- Final hydraulics report.

#### **Task 4: Water Quality**

It is anticipated that the entire project limits will be located within the Edwards Aquifer Contributing Zone, thus requiring the proposed design to comply with TCEQ regulations with permanent Best Management Practices (BMP) features.

- a. The ENGINEER shall obtain and review past Water Pollution Abatement Plan (WPAP) submittals from TCEQ to understand previous permanent BMP design that currently existing within the project limits.
- b. The ENGINEER shall develop load calculations for the constituents of concern for the preferred alternative, as well as existing conditions to facilitate comparison of the two. Load calculations must consider existing BMP performance to ensure proposed construction impacts to existing BMPs are properly assessed in the total load calculations.
- c. The ENGINEER shall provide the type and locations for Best Management

Practices (BMP) for the preferred alternative. The BMPs evaluated should include Low Impact Development Practices as well as conventional end-of-pipe controls. At a minimum any recommended BMPs must comply with the requirements of the Edwards rules.

- d. The ENGINEER shall identify and document BMP's in the draft and final hydraulics reports and provide preliminary cost estimates.

**Deliverables**

- Calculations for load removal and BMP design
- Location of proposed BMPs
- Preliminary construction cost estimates for all permanent BMP features
- Summary of WQ design within final hydraulic report

In coordination with the Mobility Authority, the ENGINEER shall determine any necessary drainage easements for safely conveying drainage, providing detention and/or water quality BMPs for the preferred alternative.

**ATTACHMENT B - Fee Estimate**

Task Name - 183A Phase III	Sr. Engineering Mgr.	Sr. Supervising Engineer	Sr. Engineer	Supervising Engineer	Sr. Engineering Mgr.	CADD Mgr. II	Engineer I	Sr. Engineering Mgr.	Lead Planner	Sr. Supervising Engineer	Supervising Engineer	Public Involvement	Graphics Designer	Sr. Supervising Planner	Noise	NEPA	NEPA	NEPA	Air Quality	GIS - Planner I	Senior Scheduler	Admin/Clerical II	TOTAL	TOTAL
<b>TASK / WORK DESCRIPTION</b>																								
<b>Task Name - 183A Phase III</b>																								
2. Project Management and Administration	40	330																			20	40	430	\$86,152.05
<b>3. Route and Design Studies</b>																								
3.1 Alternatives Development and Analysis			80	40	4	80	80	20		40													344	\$46,281.64
3.2 Preliminary Cost Estimate			80				40	8															128	\$13,984.67
3.3 Design Schematics			200	160	4	40	260	40															704	\$84,654.05
3.4 Design Concept Conference			8	8				8		8													32	\$5,472.81
3.5 Traffic Engineering Studies							20			60	280												360	\$53,989.85
<b>4. Social, Economic, and Environmental Studies and</b>																								
4.1 Preliminary Environmental Constraints									36	8						16	20			32			112	\$13,791.30
4.2 Environmental Process Initiation									24	8						24							56	\$8,852.27
4.3 Environmental Analysis									192	62	50				226	100	72	200		18			920	\$131,122.47
4.4 Environmental Document Preparation									48	12										20			104	\$13,437.46
4.5 Environmental Support Services																							0	\$0.00
4.6 Public Involvement	8	20	40			80			8	12		500	60									40	768	\$89,363.53
<b>5. Field Survey and Photogrammetry</b>																								
5.1 Field Survey			40																				40	\$4,618.00
5.2 Aerial Mapping																							0	\$0.00
5.3 Aerial Photography Control Surveys																							0	\$0.00
5.4 Establish Primary Control																							0	\$0.00
5.5 Level Control																							0	\$0.00
5.6 Locate Existing ROW																							0	\$0.00
5.7 Supplemental Survey																							0	\$0.00
<b>6. Drainage and Water Quality</b>																								
6.2 Hydrology and Hydraulics (non-FEMA regulated)			40	20						16													76	\$11,393.56
6.3 Hydrology and Hydraulics (FEMA regulated)			8							8													16	\$2,641.47
6.4 Water Quality			16							8													24	\$3,565.07
<b>TOTAL DIRECT LABOR</b>																								
	48	350	512	228	8	200	400	76	308	242	330	500	60	0	226	140	104	212	0	70	20	80	4114	
<i>% Total by Classification</i>	1.17%	8.51%	12.45%	5.54%	0.19%	4.86%	9.72%	1.85%	7.49%	5.88%	8.02%	12.15%	1.46%	0.00%	5.49%	3.40%	2.53%	5.15%	0.00%	1.70%	0.49%	1.94%		
Labor Costs	\$ 3,865.44	\$ 26,600.00	\$ 21,171.20	\$ 13,636.68	\$ 654.00	\$ 9,508.00	\$ 11,652.00	\$ 5,088.20	\$ 14,528.36	\$ 18,612.22	\$ 16,665.00	\$ 19,235.00	\$ 2,701.20	\$ -	\$ 11,042.36	\$ 8,302.00	\$ 4,628.00	\$ 10,593.64	\$ -	\$ 1,619.10	\$ 1,322.20	\$ 2,160.00		
Overhead Rate	1.5382	1.5382	1.5382	1.5382	1.5382	1.5382	1.5382	1.5382	1.5382	1.5382	1.5382	1.5382	1.5382	1.5382	1.5382	1.5382	1.5382	1.5382	1.5382	1.5382	1.7	1.7	1.7	
Overhead Costs	\$ 5,945.82	\$ 40,916.12	\$ 32,565.54	\$ 20,975.94	\$ 1,005.98	\$ 14,625.21	\$ 17,923.11	\$ 7,826.67	\$ 22,347.52	\$ 28,629.32	\$ 25,634.10	\$ 29,587.28	\$ 4,154.99	\$ -	\$ 16,985.36	\$ 12,770.14	\$ 7,118.79	\$ 16,295.14	\$ -	\$ 2,752.47	\$ 2,247.74	\$ 3,672.00		
Profit	10.00%	10.00%	10.00%	10.00%	10.00%	10.00%	10.00%	10.00%	10.00%	10.00%	10.00%	10.00%	10.00%	10.00%	10.00%	10.00%	10.00%	10.00%	10.00%	10.00%	10.00%	10.00%	10.00%	
Profit Costs	\$ 981.13	\$ 6,751.61	\$ 5,373.67	\$ 3,461.26	\$ 166.00	\$ 2,413.32	\$ 2,957.51	\$ 1,291.49	\$ 3,687.59	\$ 4,724.15	\$ 4,229.91	\$ 4,882.23	\$ 685.62	\$ -	\$ 2,802.77	\$ 2,107.21	\$ 1,174.68	\$ 2,688.88	\$ -	\$ 437.16	\$ 356.99	\$ 583.20		
<b>Total Loaded Labor</b>	\$ 10,792.39	\$ 74,267.73	\$ 59,110.41	\$ 38,073.88	\$ 1,825.98	\$ 26,546.53	\$ 32,532.62	\$ 14,206.36	\$ 40,563.47	\$ 51,965.69	\$ 46,529.01	\$ 53,704.50	\$ 7,541.80	\$ -	\$ 30,830.49	\$ 23,179.35	\$ 12,921.47	\$ 29,577.65	\$ -	\$ 4,808.73	\$ 3,926.93	\$ 6,415.20	\$	<b>\$69,320.20</b>
<i>% Total by Class</i>	1.90%	13.04%	10.38%	6.69%	0.32%	4.66%	5.71%	2.50%	7.12%	9.13%	8.17%	9.43%	1.32%	0.00%	5.42%	4.07%	2.27%	5.20%	0.00%	0.84%	0.69%	1.13%		
<b>Total Direct Expenses</b>	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$
<b>Total</b>	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$

\$86,152.05

\$204,383.01

\$256,567.03

\$4,618.00

\$17,600.11

\$569,320.20

**Additional Subconsultants (see attached detail):**

McGray & McGray (Field Survey)	\$	147,748.00
CJ Hench (Traffic Counts)	\$	5,000.00
Cox McLain (Environmental)	\$	66,869.28
K. Friese (Drainage)	\$	184,405.00
Monkee Boy (Web Design)	\$	17,500.00
Whiddon Group (Utility)	\$	9,174.00
<b>Total Work Authorization No. 5</b>	\$	<b>1,020,102.48</b>





**CENTRAL TEXAS  
Regional Mobility Authority**

November 30, 2016  
AGENDA ITEM #8

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Approve a legislative program for issues and proposals affecting the Mobility Authority in the 85<sup>th</sup> Texas Legislature

Strategic Plan Relevance: Economic Vitality; Sustainability; Innovation

Department: Law

Contact: Geoffrey Petrov, General Counsel

Associated Costs: N/A

Funding Source: N/A

Board Action Required: Briefing and board discussion only

Summary:

The 85<sup>th</sup> Legislature will convene January 10, 2016, and will consider legislative proposals and issues that affect the Mobility Authority.

In previous legislative sessions, the Mobility Authority has worked with other regional mobility authorities and tolling entities to address issues of common concern to tolling entities. The proposed legislative program attached as an exhibit to the draft resolution includes common issues anticipated in the upcoming session as well as items of specific concern to the Mobility Authority.

Backup Provided: Draft Resolution

**GENERAL MEETING OF THE BOARD OF DIRECTORS  
OF THE  
CENTRAL TEXAS REGIONAL MOBILITY AUTHORITY**

**RESOLUTION NO. 16-0XX**

**APPROVING A LEGISLATIVE PROGRAM FOR ISSUES AND PROPOSALS  
AFFECTING THE MOBILITY AUTHORITY IN THE 85<sup>th</sup> TEXAS LEGISLATURE.**

WHEREAS, the Texas Legislature is scheduled to convene at noon, Tuesday, January 10, 2017, and to adjourn on Monday, May 29, 2017, in the 85<sup>th</sup> Regular Legislative Session; and

WHEREAS, action on legislation considered by the 85<sup>th</sup> Legislature can affect the powers, duties, and ability of the Mobility Authority to fulfill its statutory mission as a regional mobility authority existing and operating under Chapter 370 of the Texas Transportation Code; and

WHEREAS, the Board of Directors supports consideration and adoption by the 85<sup>th</sup> Legislature of legislation that addresses issues identified and supported by other regional mobility authorities throughout Texas, as well as issues that affect only the Mobility Authority, as set forth on the legislative program attached to this resolution as Exhibit A.

NOW THEREFORE, BE IT RESOLVED that the Board of Directors approves the legislative program set forth in Exhibit A to this Resolution.

Adopted by the Board of Directors of the Central Texas Regional Mobility Authority on the 30<sup>th</sup> day of November, 2016

Submitted and reviewed by:

Approved:

\_\_\_\_\_  
Geoffrey Petrov, General Counsel

\_\_\_\_\_  
Ray A. Wilkerson  
Chairman, Board of Directors

**Exhibit A**

## **CTRMA Legislative Priorities 85th Texas Legislative Session**

The following is a list of priorities for the 85th Texas Legislative Session:

1. **Preserve Existing Procurement and Financing Tools:** Current statutory authority for regional mobility authorities (“RMAs”) provides tools which facilitate the efficient and economic development, financing, and operation of transportation projects under local control. Any effort to restrict or remove those tools, including the elimination of system financing, will undermine the ability of RMAs to deliver critical infrastructure projects. The CTRMA will work to assure that such tools are preserved.
2. **Facilitate Sharing of Customer Data Between TxDOT and LTPEs:** Efficient toll enforcement and collection efforts and enhanced customer service are integral to the successful operation of toll projects. TxDOT has indicated that current law precludes the sharing of information possessed by TxDOT with CTRMA for customers using CTRMA facilities. Amendments to existing legislation are required to clarify that this information can be shared between agencies.
3. **CDA Authority:** The CTRMA is faced with challenges in financing two projects important for the region - 183 North and Mopac South. A public-private-partnership (through a comprehensive development agreement) may be the most feasible way to finance and develop one or both of these projects. The CTRMA supports allowing MPOs to approve the use of CDAs for projects in their region. Alternatively, the CTRMA supports seeking project-specific CDA authorization for both 183 North and Mopac South.
4. **Preserve Local Decision Making and Autonomy of MPOs:** Currently TxDOT allocates funds to MPOs for use on tolled and non-tolled projects as identified in the Unified Transportation Plan. Notwithstanding the local decision to allocate funds to a non-tolled project, TxDOT has indicated that Transportation Commission approval may be required for the use of such funding. While TxDOT retains an oversight role in the use of funds (and an enhanced role for toll projects due to interoperability and other requirements), Transportation Commission approval of funding for non-toll projects is cumbersome and unnecessary. CTRMA supports statutory changes necessary to remove this requirement.
5. **Eliminate Requirement for RMA’s to Seek TxDOT Approval to Apply for Federal Funds:** Current law precludes an RMA from applying for federal highway or rail funds without the approval of TxDOT. Recent actions to increase funding (Prop 1 and Prop 7) have included restrictions on the use of state-controlled funds for toll projects, thus making reliance on federal funding more important. With the possibility of increased federal funding for infrastructure from a new administration (coupled with increased restrictions on use of state funds for toll projects), CTRMA should be allowed to pursue funds from federal sources without requiring the consent of TxDOT. The statutory requirement for consent should be removed.

6. **Transportation Reinvestment Zones:** Transportation Reinvestment Zones (“TRZs”) are an important tool for generating local funding for projects without raising taxes. Current law allows a city or county to assign TRZ revenues to an RMA to support the funding and development of an RMA project. However, recent Attorney General opinions and certain constitutional language have created issues related to a county’s use of a TRZ to generate and leverage potential project funding. The CTRMA supports efforts to enhance the use of TRZs by counties, and will support legislation, including a constitutional amendment, if necessary, to clarify the ability of counties to form a TRZ and to pledge TRZ revenues (or allow an RMA to pledge TRZ revenues) to secure bonds to pay the cost of a transportation project.

7. **Support Opportunities for Enhanced Toll Enforcement:** Efficient toll collection and appropriate enforcement remedies are key components of all tolling programs. Local tolling entities across the State are continuously working to improve toll collection efforts. The CTRMA will work with other tolling entities in supporting legislation that improves efficiency for toll collection or provides for enhanced enforcement remedies.



**CENTRAL TEXAS  
Regional Mobility Authority**

November 30, 2016  
AGENDA ITEM #9

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Monthly briefing on the MoPac  
Improvement Project

Strategic Plan Relevance: Regional Mobility  
Department: Engineering  
Contact: Steve Pustelnyk, Director of Community Relations  
Associated Costs: N/A  
Funding Source: N/A  
Action Requested: Briefing and Board Discussion Only

Summary:

The report is a construction status update of the MoPac Improvement Project.

Backup provided: None



**CENTRAL TEXAS  
Regional Mobility Authority**

November 30, 2016  
AGENDA ITEM #10

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Monthly briefing on the 183 South Project;  
City of Austin water/wastewater  
permitting status

Strategic Plan Relevance: Regional Mobility  
Department: Engineering  
Contact: Justin Word  
Associated Costs: N/A  
Funding Source: N/A  
Board Action Required: Briefing and board discussion only

Summary:

The report is a status update of the water/wastewater permitting with the City of Austin on the 183 South Project.

Backup Provided: None



November 30, 2016  
AGENDA ITEM #11

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Executive Director's Report

**CENTRAL TEXAS  
Regional Mobility Authority**

Strategic Plan Relevance: Regional Mobility  
Department: Executive  
Contact: Mike Heiligenstein, Executive Director  
Associated Costs: N/A  
Funding Source: N/A  
Action Requested: Briefing and Board Discussion Only

Summary:

- A. Discussion regarding the development of the Mogan right-of-way.
- B. Introduction of new employee.

Backup provided: Letter from Dennis Christiansen, Director,  
Texas A&M Transportation Institute





Texas A&M Transportation Institute  
3135 TAMU  
College Station, TX 77843-3135

979-845-1713  
Fax: 979-845-9356  
<http://tti.tamu.edu>

November 9, 2016

Mr. Michael Heiligenstein  
Executive Director  
Central Texas Regional Mobility Authority  
3300 N IH-35, Ste. 300  
Austin TX 78705

Dear Mike:

Thank you for taking time from your busy schedule to attend the TTI Advisory Council annual meeting last month. These gatherings are very productive for the TTI leadership. Your participation is of great assistance to us in identifying the most pressing transportation issues in our state and in defining our research initiatives.

Our discussions transportation research needs and legislative session priorities were especially helpful to us in setting our research agenda.

You are providing a tremendous service to TTI and the state of Texas through your service on the TTI Advisory Council. We appreciate your input and ongoing support. Enclosed is a copy of our group photo to commemorate our time together.

I appreciate the Council's recognition of my decade of service as TTI's Agency Director. One of the highlights of my tenure has been the great honor of working with all of you. If I or TTI can ever do anything to be of assistance to you, please feel free to contact me.

Very truly yours,

  
Dennis L. Christiansen, P.E.  
Agency Director

Enclosure



**CENTRAL TEXAS  
Regional Mobility Authority**

November 30, 2016  
AGENDA ITEM #12

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Executive Session

*Executive Session:*

Discuss legal issues related to claims by or against the Mobility Authority; pending or contemplated litigation and any related settlement offers; or other matters as authorized by §551.071 (Consultation With Attorney).



**CENTRAL TEXAS  
Regional Mobility Authority**

November 30, 2016  
AGENDA ITEM #13

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Executive Session

*Executive Session:*

Discuss legal issues relating to procurement and financing of Mobility Authority transportation projects, as authorized by §551.071 (Consultation With Attorney).



**CENTRAL TEXAS  
Regional Mobility Authority**

November 30, 2016  
AGENDA ITEM #14

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Executive Session

*Executive Session:*

Discuss personnel matters as authorized by §551.074 (Personnel Matters).