



**CENTRAL TEXAS  
Regional Mobility Authority**

# Regular Meeting of the Board of Directors

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**9:00 a.m.**  
Wednesday, May 31, 2017

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.

### ***Consent Agenda***

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*See Notes at the end of this agenda.*

3. Adopt a written compliance program as required by 43 TAC § 10.51.
4. Approve Work Authorization No. 15 with Kapsch TrafficCom USA for toll system integration services related to the Manor Expressway (290E) Phase III Project.
5. Approve Personal Services Agreement with Neal Spelce for Communications Support Services.

### ***Regular Items***

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

6. Approve the minutes from the April 26, 2017 Regular Board meeting and from the May 15, 2017 Board Workshop meeting.

7. Accept the financial statements for April 2017.
8. Presentation of the draft budget for Fiscal Year 2017-2018.
9. Discuss and take appropriate action to rescind primacy for the east to south direct connector on the Manor Expressway (290E) Phase III Project.
10. Discuss and consider authorizing the procurement of a contractor for miscellaneous work related to the MoPac Improvement Project.

## **Briefings and Reports**

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

11. Executive Director Report.
  - A. Texas 85<sup>th</sup> Legislature Update.
  - B. Interoperability with Kansas Turnpike Authority.
  - C. Commissioner Shea's meeting regarding urban cable.
12. 183 North Delivery Model Update.
13. MoPac Improvement Project Monthly Report.

## **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:*

14. Discuss acquisition of one or more parcels or interests in real property needed for the Bergstrom Expressway (183 South) Project and related legal issues, pursuant to §551.072 (Deliberation Regarding Real Property) and §551.071 (Consultation With Attorney).
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).

## Reconvene in Open Session.

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18. Authorize negotiation and execution of a contract to purchase the following described parcel or property interests for the 183 South (Bergstrom Expressway) Project:
  - A. Parcel 157 of the 183 South (Bergstrom Expressway) Project, a fee taking of 0.163 acres, from 0.527 acres of real estate, **owned by Dr. William Selman and Claire Selman**, and located between Vargas Road and Thompson Lane, on Bastrop Highway, Austin TX 78741.
  - B. Parcel 158 of the 183 South (Bergstrom Expressway) Project, a fee taking of 0.035 acres, from 4.477 acres of real estate, **owned by Cactus Rose OH Delta, LLC.**, and located at 436 Bastrop Highway, Austin TX 78741.

## Regular Items

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

19. 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 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.

*Mobility Authority Board Meeting Agenda  
Wednesday, May 31, 2017*

(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**

May 31, 2017  
**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

May 31, 2017  
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**

May 31, 2017  
**AGENDA ITEM #3**

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Adopt a written compliance program as required by 43 TAC § 10.51.

Strategic Plan Relevance: Regional Mobility  
Department: Law  
Contact: Geoff Petrov, General Counsel  
Associated Costs: N/A  
Funding Source: N/A  
Action Requested: Consider and act on draft resolution

Summary:

Pursuant to 43 TAC § 10.51, the Mobility Authority's internal ethics and compliance program must be in writing, must provide certain standards and procedures that Mobility Authority Board members, employees and agents are expected to follow. The proposed internal compliance and ethics program documents the Mobility Authority's ethics policies and procedures and satisfies all other requirements of 43 TAC § 10.51.

Backup provided: Draft Resolution  
Draft Internal Ethics and Compliance Program

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

**RESOLUTION NO. 17-0XX**

**ADOPTING AN INTERNAL ETHICS AND COMPLIANCE PROGRAM**

WHEREAS, the Mobility Authority is required to have a written internal ethics and compliance program that provides certain compliance standards and procedures as specified by 43 Tex. Admin. Code §10.51; and

WHEREAS, the internal compliance program attached hereto as Exhibit A satisfies the requirements of 43 Tex. Admin. Code §10.51.

NOW, THEREFORE, BE IT RESOLVED that the Board hereby approves and adopts the internal ethics and compliance program attached hereto as Exhibit A.

Adopted by the Board of Directors of the Central Texas Regional Mobility Authority on the 31<sup>st</sup> day of May 2017.

Submitted and reviewed by:

Approved:

\_\_\_\_\_  
Geoffrey S. Petrov, General Counsel

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



**Exhibit A**

## **INTERNAL ETHICS AND COMPLIANCE PROGRAM**

The Central Texas Regional Mobility Authority (“Mobility Authority”) has established an Internal Ethics and Compliance Program (“Program”). The Executive Director and the Deputy Executive Director are charged with monitoring compliance within the organization and taking appropriate action in response to compliance related complaints. These employees, along with the Chief Financial Officer are responsible for oversight of financial reports and establishing and maintaining an adequate internal control structure with appropriate checks and balances.

The Mobility Authority has taken all possible steps to avoid the delegation of substantial discretionary authority to individuals whom the organization knows or should know, have previously engaged in illegal activities. The Mobility Authority will perform criminal background checks on all final applicants for the positions of Executive Director, Chief Financial Officer, General Counsel, and any positions involving the disbursement of Agency funds or the handling of cash, checks or credit cards; negotiable documents and materials; or highly confidential or sensitive information. All applicants admitting a felony conviction on their application materials shall also be subject to a criminal background check. Additionally, the Mobility Authority may, at its discretion, perform criminal background checks on applicants for any other position. The Executive Director shall be responsible for periodically assessing risk of criminal misconduct within the organization.

The Mobility Authority shall take all steps to ensure that compliance standards are effectively communicated to all employees by requiring participation in training and by distributing information that explains the requirements of this Program. A copy of the Program, including any amendments and all related documents will be included in the Employee Handbook. Training will be held during orientation and periodically thereafter. An employee who violates any provision of the Program is subject to disciplinary action up to and including termination. All employees shall perform their official duties in a lawful, professional, and ethical manner; practice responsible stewardship of organizational resources, and report any conduct or activity that they believe to be in violation of this Program. If an employee has a concern about the legitimacy or appropriateness of any employee act, he/she should promptly discuss the matter with his/her manager or with the Human Resources Manager. No employee who, in good faith, reports an alleged incident of noncompliance who participates in an investigation of an alleged incident of noncompliance shall be subjected to discrimination, reprisal or retaliation in any form because of having made such a report or participating in such an investigation.

The Mobility Authority Board of Directors will participate in periodic training in ethics and in the compliance program and ethical behavior generally.

The Mobility Authority shall notify all agents of the organization regarding the Program, and its expectation of ethical behavior and compliance with the law from individuals and companies it does business with through distribution of written materials, electronic communication or verbal communication.

The Mobility Authority will conduct an independent annual external compliance audit and other risk evaluations to monitor compliance and assist in the reduction of identified problem areas.

## **Record Retention**

The Mobility Authority is committed to proper maintenance and retention of records and shall comply with the retention schedule for local government records adopted by the Texas State Library and Archives Commission. If the Texas State Library and Archives Commission adopts a new record retention schedule, or revises an existing record retention schedule, that applies to a record maintained by the Mobility Authority, the Executive Director shall ensure that the Mobility Authority complies with the new or revised retention schedule.

## **Fraud**

Fraud is broadly defined, and may include any type of intentional deception for the purpose of personal or business gain or damage to an individual or organization. Examples of fraud include lying on an employment application, falsifying records, or providing false receipts for reimbursement from the Mobility Authority. Employees shall not knowingly make false or misleading statements, oral or written, in the course of the conducting of the Mobility Authority business. Employees shall not disclose confidential or sensitive organizational business information without prior written authorization.

## **Equal Opportunity Employment**

The Mobility Authority is an equal opportunity employer. This means that decisions regarding the hiring, promotion and compensation of candidates and employees will be made without regard to race, color, religion, national origin, gender (including pregnancy), sexual orientation, age, disability or any other status protected by law.

Management will make decisions regarding the hiring, promotion and compensation of a candidate (whether internal or external) and employee solely upon the basis of the individual's work record, performance history and qualifications for the job for which he/she is being considered.

## **Sexual Harassment and Sexual Misconduct**

All Mobility Authority employees have the right to work in an environment free from any type of unlawful discrimination or harassment based on race, color, religion, national origin, gender (including pregnancy), sexual orientation, age, disability or any other status protected by law. This includes freedom from sexual harassment in the workplace.

Harassment based on any of the above is considered a form of illegal discrimination. The Mobility Authority will not tolerate any form of harassment in the workplace. An employee who believes there has been an incident of harassment shall comply with Workplace Harassment Policy in the Employee Handbook.

## **Conflicts of Interest**

Conflict of interest is a situation in which one's private interest (most often financial in nature) conflict with or raises a reasonable question of conflict with their job-related duties and responsibilities. All employees and other individuals or entities that do business with the Mobility

Authority shall comply with the conflict of interest requirements in the Policy Code and the Employee Handbook.

Local public officials (including members of governing bodies or another officer, whether elected, appointed, paid, or unpaid, of any district including a transit authority or district), as well as certain other employees involved with contracting, are subject to the conflict of interest provisions in Chapter 171 of the Texas Local Government Code. Chapter 171 established the standard for determining when a local official has a conflict of interest that would affect their ability to discuss, decide, or vote on a particular item. Other state and federal laws may be applicable to officials and employees in particular situations.

### **Personal Use of Organization's Property**

Property owned or leased by or provided to the Mobility Authority may only be used for official purposes as authorized by the Board of Directors and the Executive Director. Any misuse or unauthorized use of Mobility Authority property, including information system resources, is subject to disciplinary action. Misuse of official property may also result in criminal prosecution.

### **Gifts and Honoraria**

Employees must not solicit or accept gifts, loans, other compensation, unusual favor or hospitality (other than reasonable tips earned by employees in direct customer service positions) which could influence or even have the *appearance* of influencing them in the performance of their duties.

Under Local Government Code Chapter 176, a local government officer must disclose a vendor's offer of gifts to the officer or the officer's family member worth \$250 or more using the Conflict of Interest Form approved by the Texas Ethics Commission. The form requires disclosure even if the officer refuses the gift. An officer commits a class C misdemeanor if the officer knowingly violates the disclosure requirement.



**CENTRAL TEXAS  
Regional Mobility Authority**

May 31, 2017  
AGENDA ITEM #4

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Approve Work Authorization No. 15 with  
Kapsch TrafficCom USA for toll system  
integration services related to the Manor  
Expressway (290E) Phase III project

Strategic Plan Relevance: Regional Mobility  
Department: Toll Operations  
Contact: Tim Reilly, Director of Toll Operations  
Associated Costs: \$1,735,364.18 (not to exceed)  
Funding Source: Reimbursed with Project Funds  
Action Requested: Consider and act on draft resolution

**Summary:**

Under this proposed work authorization, Kapsch TrafficCom USA (formerly Schneider Electric) will provide tolls systems integration services related to project activities required to assist the Mobility Authority in the development of the Manor Expressway (290E) Phase III project. These efforts will include, but not be limited to: design, procurement, installation, testing, and integration of a complete and fully operational toll collection system and intelligent transportation system.

Backup Provided: Work Authorization No. 15  
Fee Estimate  
Draft Resolution

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

**RESOLUTION NO. 17-0XX**

**APPROVING A WORK AUTHORIZATION NO. 15 WITH  
KAPSCH TRAFFICOM USA FOR TOLL SYSTEMS INTEGRATION SERVICES  
FOR THE MANOR EXPRESSWAY (290E) PHASE III PROJECT**

WHEREAS, the Central Texas Regional Mobility Authority (“Mobility Authority”) entered into a contract with Caseta Technologies, Inc. dated April 27, 2005, for the design, procurement, and installation of a toll collection system on the Authority’s turnpike system (the “Contract”); and

WHEREAS, Kapsch TrafficCom USA (formerly Schneider Electric Mobility NA) is the successor in interest to the Contract with Caseta Technologies, Inc., and all rights and obligations of Caseta Technologies, Inc. under the Contract are now the rights and obligations of Kapsch TrafficCom USA (“Kapsch”); and

WHEREAS, the Executive Director and Kapsch have discussed and agreed to a proposed work authorization for Kapsch to provide toll system integration services and intelligent transportation system services for development of the Manor Expressway (290E) Phase III project (the “Project”); and

WHEREAS, the Executive Director recommends that the Board approve proposed Work Authorization No. 15, a copy of which is attached to this resolution as Exhibit A.

NOW THEREFORE, BE IT RESOLVED that the proposed work authorization with Kapsch for toll system integration services and intelligent transportation system services for the Project is hereby approved; and

BE IT FURTHER RESOLVED that the Board authorizes the Executive Director to finalize and execute the proposed Work Authorization No. 15 with Kapsch 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 31<sup>st</sup> day of May 2017.

Submitted and reviewed by:

Approved:

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Geoff Petrov, General Counsel

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Ray A. Wilkerson  
Chairman, Board of Directors

**Exhibit A**

**CENTRAL TEXAS REGIONAL MOBILITY AUTHORITY**

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**WORK AUTHORIZATION**

**WORK AUTHORIZATION NO. 15**

**TOLL COLLECTION AND INTELLIGENT TRANSPORTATION  
SYSTEMS IMPLEMENTATION**

**Manor Expressway (290E) Phase III Project**

**THIS WORK AUTHORIZATION** is made this, \_\_\_\_ day of May, 2017, pursuant to the terms and conditions of Article 1 of the GENERAL PROVISIONS, Attachment A to the original Contract for Toll System Implementation, dated April 27, 2005 (the Contract) entered into by and between the Central Texas Regional Mobility Authority (the “Mobility Authority”), and Kapsch TrafficCom USA Inc., a.k.a. Schneider Electric Mobility NA (the Contractor).

**PART I.** The Contractor will perform toll collection and traffic management system integration services generally described in the Scope of Work attached hereto as **Attachment A** and illustrated in the Project Layout attached hereto as **Attachment B**. The Contractor’s duties and responsibilities to coordinate with the CTRMA’s contracted designer and roadway contractor is detailed in the Responsibilities Matrix attached hereto as **Attachment C**. The Contractor’s duties are further described in the CTRMA Fixed Price Tolling Standard attached hereto as **Attachment D**.

**PART II.** The maximum amount payable under this Work Authorization No. 15 is \$ 1,735,364.18. This amount is based generally upon the estimated fees set forth in Schedule 1 of the Contract, as superseded by the fee schedule set forth in **Attachment E** hereto which is incorporated herein and made a part of this Work Authorization.

**PART III.** Payment to the Contractor for the services established under this Work Authorization shall be made in accordance with Article 12 of the Contract, and **Attachment A**, Article 1 of the GENERAL PROVISIONS.

**PART IV.** This Work Authorization shall become effective on the date of execution by the parties hereto and shall terminate one (1) year after final acceptance, unless extended by a supplemental Work Authorization as provided in **Attachment A**, Article 1 of the GENERAL PROVISIONS. The work shall be performed in accordance with the Project Schedule and Milestones as set forth in **Attachment F**.

**PART V.** This Work Authorization No. 15 does not waive any of the parties' responsibilities and obligations provided under the Contract, and except as specifically modified by this Work Authorization, all such responsibilities and obligations remain in full force and effect.

**IN WITNESS WHEREOF**, this Work Authorization No. 15 is executed in duplicate counterparts and hereby accepted and acknowledged below.



**THE CONTRACTOR:**

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Signature

Date

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Typed/Printed Name and Title

**CENTRAL TEXAS REGIONAL MOBILITY AUTHORITY**

Executed for and approved by the Central Texas Regional Mobility Authority for the purpose and effect of activating and/or carrying out the orders, established policies or work programs heretofore approved and authorized by the Texas Transportation Commission.

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Signature

Date

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Typed/Printed Name and Title

**LIST OF ATTACHMENTS**

- Attachment A Scope of Work
- Attachment B Project Layout
- Attachment C Toll Facility Responsibility Matrix
- Attachment D Fixed Price Tolling Standards
- Attachment E Fee Schedule/Budget
- Attachment F Project Schedule and Milestones

## **ATTACHMENT A**

*CENTRAL TEXAS REGIONAL MOBILITY AUTHORITY*  
**TOLL COLLECTION AND INTELLIGENT TRANSPORTATION SYSTEMS  
IMPLEMENTATION**  
**Manor Expressway (290E) Phase III Project**

### **SCOPE OF WORK for SYSTEMS INTEGRATOR**

#### **A1.0 General**

##### **A1.01. Background**

The Capital Area Metropolitan Planning Organization (CAMPO) approved the implementation of the proposed Toll Implementation Plan to construct additional capacity on various segments of highway network in the CAMPO Long-Range Plan as toll road facilities in conjunction with plans for development of the Central Texas Turnpike Project. Several of the toll road segments are in various stages of project development, design or construction by the Mobility Authority. It is intended that these proposed segments will be implemented by the Mobility Authority as parts of the Turnpike System.

The Manor Expressway (290E) Phase III project (“Project”) includes the construction of two (2) tolled direct connectors (SH 130 SB to 290E WB and SH 130 NB to 290E WB) and one (1) non-tolled direct connector (290E EB to SH 130 SB) at the 290E/SH130 interchange. In addition, ramp improvements/modifications on 290E and SH130 are required as a part of the project. Construction is expected to begin in 2018 with an open-to-traffic date anticipated for 2020. The Toll Collection System (TCS) for the Manor Expressway (290E) Phase III project will be all Electronic Toll Collection (ETC). Additionally, the Project will require the implementation of an Intelligent Transportation System (ITS). The ITS will be designed as an extension of the existing CTRMA ITS network. An ITS conceptual plan is required to confirm all components required for the proposed extension under this WA are addressed properly. This necessitates the timely completion of a complete ITS Plan.

##### **A1.02. Summary Scope of Work**

The Scope of Work for Work Authorization No. 15 includes, but is not limited to, procurement, installation, testing, and implementation of a complete and fully operational Toll Collection System (TCS) and Intelligent Transportation System (ITS). Services will also include communications and system interfaces design, coordination, and project interface activities to facilitate the design and construction of the infrastructure facilities by others on the Project.

This Work Authorization authorizes the SI to establish and maintain relationships with a wide variety of third parties, and to coordinate the designs for the proposed TCS and ITS, with the entire Project to ensure that the construction of the system infrastructure facilities will be fully compatible and will meet the Mobility Authority’s requirements. In this role, the SI will work closely with the Mobility Authority, TxDOT, and various designers and roadway contractors in developing the required complete TCS, ITS, and network infrastructure.

## A2.0 General Description – Toll Road Infrastructure and Site

The Project includes the construction of two tolled direct connectors (SH 130 SB to 290E WB and SH 130 NB to 290E WB) and one non-tolled direct connector (290E EB to SH 130 SB) at the 290E/SH130 interchange and ramp improvements/modifications on 290E and SH130. The proposed improvements are to be designed with allowance for the ultimate planned improvements to SH130 including frontage roads, ramps and additional mainlines. In the event the non-tolled direct connector (290E EB to SH 130 SB) becomes tolled, the SI shall perform work necessary, in accordance with this Work Authorization, to facilitate the collection of additional tolls. Fee for this additional scope can be found in *Attachment E – Fee Estimate*.

The existing Manor Expressway is a toll facility owned and operated by the CTRMA. The highway consists of three tolled main lanes in east and west directions separated by a grass median. Three lane non-tolled frontage roads, owned and operated by the Texas Department of Transportation (TxDOT), parallel the main lanes in each direction.

The existing SH 130 is a toll facility owned and operated by TxDOT. SH 130 consists of two tolled main lanes in each direction, north and south, separated by a wide grassy median. The median on SH 130 is reserved for future expansion of the main lanes as well as potential transit through the corridor.

**Table 1: Gantry Locations and Lane Counts**

Approximate Station Location	Direction of Travel	No. of Lanes	No. of Shoulders (6' or greater)	Gantry Type	Comments
109+00	290EB - 130SB DC	2	1	Direct Connector	Preliminary schematic typical sections include one 4-foot and one 8-foot shoulder.
113+00 <sup>1</sup>	130NB – 290WB DC	2	1	Ramp	Preliminary schematic typical sections include one 4-foot and one 8-foot shoulder.
<b>TOTAL</b>		<b>2</b>	<b>1</b>		

<sup>1</sup> Potential future gantry location.

Refer to the Manor Expressway (290E) Phase III Project Layout included as *ATTACHMENT B – Project Layout* for the general project layout.

## A3.0 General Requirements

### A3.01. General Requirements - Toll Collection System (TCS)

The TCS for the Project, will be an expansion of the TCS which has been designed and implemented for the 183A Toll Road and the Manor Expressway Projects, using automatic vehicle identification and classification technology, a Video Capture System (VCS) with an integrated camera and triggering system to capture referenced digital images of license plates, a Digital Video Auditing System (DVAS), and a Remote Online

Management System (ROMS). It is required that the TCS be interoperable with the other Texas ETC systems.

The Mobility Authority contracts with the members of the Texas Statewide Interoperability Agreement for CSC services for its customers. The Pay By Mail (PBM) Processing Center is located in a separate facility, and is being administered by a third party under contract to the Mobility Authority.

Expansion of the Mobility Authority's TCS to serve the Project will include coordination and design of appropriate interfaces with the IOPHub and PBM Processing Center. Appropriate communications links between the various toll facilities on the Project and the Mobility Authority's Administrative Offices, the Mobility Authority's TMC, the IOPHub, and the PBM Processing Center are part of the requirements of the design/implementation work.

### **A3.02. General Requirements - Intelligent Transportation System**

The proposed field network will consist of a fiber optic communication network that facilitates communication to various ITS field devices along the Project back to the Mobility Authority's TMC. The ITS devices to be installed on the Project network include 2 closed circuit television (CCTV) cameras and 5 radar vehicle sensing detectors (RVSD).

The general locations, layouts, and implementation schedule for the ITS for the Manor Expressway (290E) Phase III project, as currently proposed, are based on the latest information currently available, and they are intended for informational purposes only. The locations are subject to change, and it should be anticipated that refinements and adjustment to the locations and layouts indicated will be required as designs for the ITS are further developed.

For Advanced Transportation Management System (ATMS) implementation, the SI is proposing to utilize the Kapsch proprietary ATMS.

The proposed ITS network for the Manor Expressway (290E) Phase III project should be fully integrated with both the Mobility Authority and TxDOT TMC software. TxDOT will have a dedicated connection to Mobility Authority, and will be provided bandwidth on the Mobility Authority's network sufficient to allow for shared video and data between the two agencies' systems. The terms of device and data sharing on the Manor Expressway (290E) Phase III project is outlined in the existing "Agreement for Sharing Intelligent Transportation Systems (ITS) Data", a user agreement specifically between TxDOT and the Mobility Authority. Specifically, it addresses the use of TxDOT's Center-to-Center protocol and an application programming interface (API) for access to the Mobility Authority's traffic database.

The SI shall design and install a system that is compatible with the Austin Regional ITS Architecture for both control of devices and reception of images and data. The proposed system shall be an extension of field devices to the already existing TxDOT Austin District System. The database administrator at the TxDOT Austin District TMC will add the new device addresses to the already functioning tables.

All duct banks will be designed, constructed and implemented in accordance with guidelines included in the *Austin District Guidelines for Developing Freeway Corridor Traffic Management System*.

## **A4.0 General Description – Equipment and Installation**

### **A4.01. Equipment and Installation – Toll Collection System**

For all TCS field installations on the various segments of the Project, the SI will be required to provide and install the toll equipment systems and hardware for a complete, tested, and operating TCS under this Work Authorization. The principle items of work and primary components of the TCS at each toll location will include, but are not limited to:

- Furnish and install Lane-side equipment and ancillary devices.
- Furnish and install ETC lane components, including automatic vehicle detection system (AVDS), automatic vehicle classification (AVC), VCS, and automatic vehicle identification (AVI) systems and hardware. Saw cut pavement for any in-pavement sensors.
- Furnish and install all ETC lane equipment wiring and cable, hardware, mounts, and fasteners required to attach the ETC equipment to the gantries provided by others.
- Furnish and install ROMS monitoring for all ETC site equipment (i.e. Lane-side equipment, AVDS, AVC, AVI, VCS, HVAC, generators, power, communications equipment, etc.).
- Furnish and install a fault tolerant, single mode fiber optic IP-based communication system including fiber optic cables, terminations, switches, routers, firewalls, hubs, patch panels, and other network devices.
- Furnish and install master ground system connected to the master ground bus bar provided by others.
- Furnish and install backup electrical power including emergency generators, fuel tanks, and automatic transfer switches.
- Furnish and install UPS, including wiring and cable, hardware, and ROMS interface.
- Furnish and install Toll Equipment Cabinet (TEC), with HVAC for appropriate environmental protection and climate controls for electronic equipment.
- Furnish and install site surveillance cameras and security systems and communications to monitor each Toll Equipment Cabinet and gantry.
- Provide power from the electrical service to the toll locations.
- Prepare and submit all required documents to acquire Federal Communication Commission (FCC) Licensing.
- Provide complete testing, certification and acceptance of all systems for complete, fully operational TCS, furnished and installed.

The procurement, fabrication and installation of all gantries, conduit, ground boxes and toll related infrastructure for the TCS will be completed by others. It is the responsibility of the SI, nevertheless, to work closely with the Mobility Authority, TxDOT, and the various designers and roadway contractors to establish the precise locations for each of the tolling related infrastructure, conduit, ground boxes, pads, access walkways and loop stub-outs and to provide the Roadway Contractor(s) with detailed installation information for the TCS equipment at each location.

### **A4.02. Equipment and Installation – Intelligent Transportation System**

For all ITS field installations on the various segments of the Project, the SI will be responsible for the final ITS design, and the purchase and installation of the ITS equipment for a complete, tested, and operational system under this Work Authorization. The principle items of work and primary components of the system at each location will include, but are not limited to:

- Furnish and install the fiber optic cabling required for the ITS.
- Furnish and install CCTV cameras, communications, and equipment enclosures.
- Furnish and install the DMS, communications, and equipment enclosures.
- Furnish and install RVSD, communications, and equipment enclosures.
- Connect to the existing communication hub at the US 290/SH130 interchange.
- Provide complete testing, certification and acceptance of all systems for complete, fully operational ITS, furnished and installed.

Elements of the ITS infrastructure will be the responsibility of others. Nevertheless, it is the responsibility of the SI to work closely with the Mobility Authority and the various designers and roadway contractors to establish the precise locations for the elements above and to provide the Roadway Contractor(s) with detailed information as needed.

## **A5.0 Coordination and Project Interface**

The SI is to participate in the process for coordination which will enable the contractors and designers of the Project to obtain specific, detailed information regarding the proposed system components, which includes the TCS and ITS, in order to complete the design/construction of the appropriate infrastructure. The SI will be responsible for maintaining relationships with a wide variety of third parties, including designers, roadway contractors, and various suppliers. In this role, the SI will work closely with the Mobility Authority and TxDOT in developing the required network. The work related to this Work Authorization No. 15 generally will include, but not be limited to:

- Provide design input and detailed information, including toll system component details, dimensions, layout configurations, locations and specific technical requirements for elements of the proposed TCS and ITS.
- Prepare construction/installation guidelines for various components of the Mobility Authority's TCS and ITS.
- Review of construction documents prepared by others.
- Attend and participate in coordination meetings as determined by project schedule and/or as requested by the Mobility Authority. This includes attending design coordination meetings, construction meetings, and issue resolution meetings as necessary to resolve outstanding comments.
- Provide "over the shoulder" reviews, as necessary.
- Submit Installation Plan and Installation Drawings to the Mobility Authority for review and approval.
- Provide input in the development of the project schedule as it relates to the installation and testing of the TCS and ITS. The SI shall review the project baseline schedule prepared by the Roadway contractor for acceptance.

All infrastructure facilities for the Project will be provided by others as indicated in *Section A6.0 and Section A7.0* hereof. The SI shall fully coordinate the designs for the TCS and ITS with others and provide the required details and technical requirements to ensure that the construction of the toll system infrastructure facilities will be fully compatible and meet the requirements for the two systems.

The SI is responsible for coordinating with others and for providing all necessary details, system requirements, and reviews of construction documents to ensure that the gantries are located and configured to properly accommodate the SI's own system components as required to meet the Mobility Authority TCS performance and accuracy requirements.

Prior to deploying any toll collection equipment or technology, the SI shall certify to the Mobility Authority that the technology complies with the most current interoperability rules.

## **A6.0 Work by Others – Civil/Roadway Construction**

### **A6.01. Civil/Roadway Construction - Toll Collection System**

The Mobility Authority, through its roadway construction contracts, will provide jointed concrete pavement in each of the areas designated for toll collection facilities. The pavement will be reinforced with glass fiber reinforced polymer (GFRP) bars, if required. Transverse joints and longitudinal joints will be placed at positions equal to lane widths and as shown on the Mobility Authority details. Power and communication lines to support the wide area network (WAN) will be provided by others and terminated at a TEC enclosure in an area within 500 feet of the gantry. The SI is responsible for the communication links between the Host, IOPHub, PBM Processing Center, the Mobility Authority's TMC, TxDOT's TMC, and all toll facilities via a communication trunk line and WAN.

Except as may be expressly indicated elsewhere, all toll system infrastructure required for the TCS at the designated toll locations will be provided and installed by others. The principle items of work and primary components of the TCS infrastructure to be provided by others at each location shall include, but are not limited to:

- GFRP bar reinforced pavement section.
- Retaining walls and coping details.
- Drainage features.
- Civil site work, including grading, access driveways, and fencing.
- All toll gantry procurement and installation, including foundations and gantry structures.
- TEC concrete foundation slab
- Conduit and ground boxes providing connections between the TEC's and the ETC lane equipment installations. NOTE: It is the responsibility of the SI to coordinate with the Roadway Contractor(s) for the placement and installation of these elements to ensure that the construction is acceptable for the TCS as designed.
- Gantry and TEC enclosure lightning protection air terminals, down conductors. TEC system will be consolidated at the TEC and connected to the service ground per NEC. Equipment connection to the ground electrode for the TEC enclosure master ground bus bar will be provided by others.
- Power and WAN communication services up to the location of the TEC enclosures.
- Provide, install, and incorporate natural gas lines, if available. NOTE: SI is to coordinate and provide generator requirements including locations for gas feeds for the emergency generators.
- Concrete foundations for emergency generators and associated fuel tanks.
- All signing, pavement markings, traffic barriers and other roadway appurtenances required at each location.

Refer to the Fixed Price Tolling Standards that were issued by the Mobility Authority on November 2015, which is included as *ATTACHMENT D – Fixed Price Tolling Standards*.

#### **A6.02. Civil/Roadway Construction - Intelligent Transportation System**

Except as may be expressly indicated elsewhere, all ITS infrastructure required will be provided and installed by others. The principle items of work and primary components of the ITS infrastructure to be provided by others shall include, but are not limited to:

- ITS layouts
- Duct bank
- Conduits – each conduit to have dedicated pull string, continuous between ground boxes/vaults and stub-ups.
- Electrical services
- Grounding circuits
- Support structures and associated foundations

#### **A7.0 Toll Facilities Responsibility Matrix**

For this work authorization, the SI is responsible for design and coordination of the various aspects of the TCS, and ITS, as identified in *ATTACHMENT C - Toll Facilities Responsibility Matrix*, and shall work with the Mobility Authority, TxDOT, roadway designers and contractors, and others as described herein.

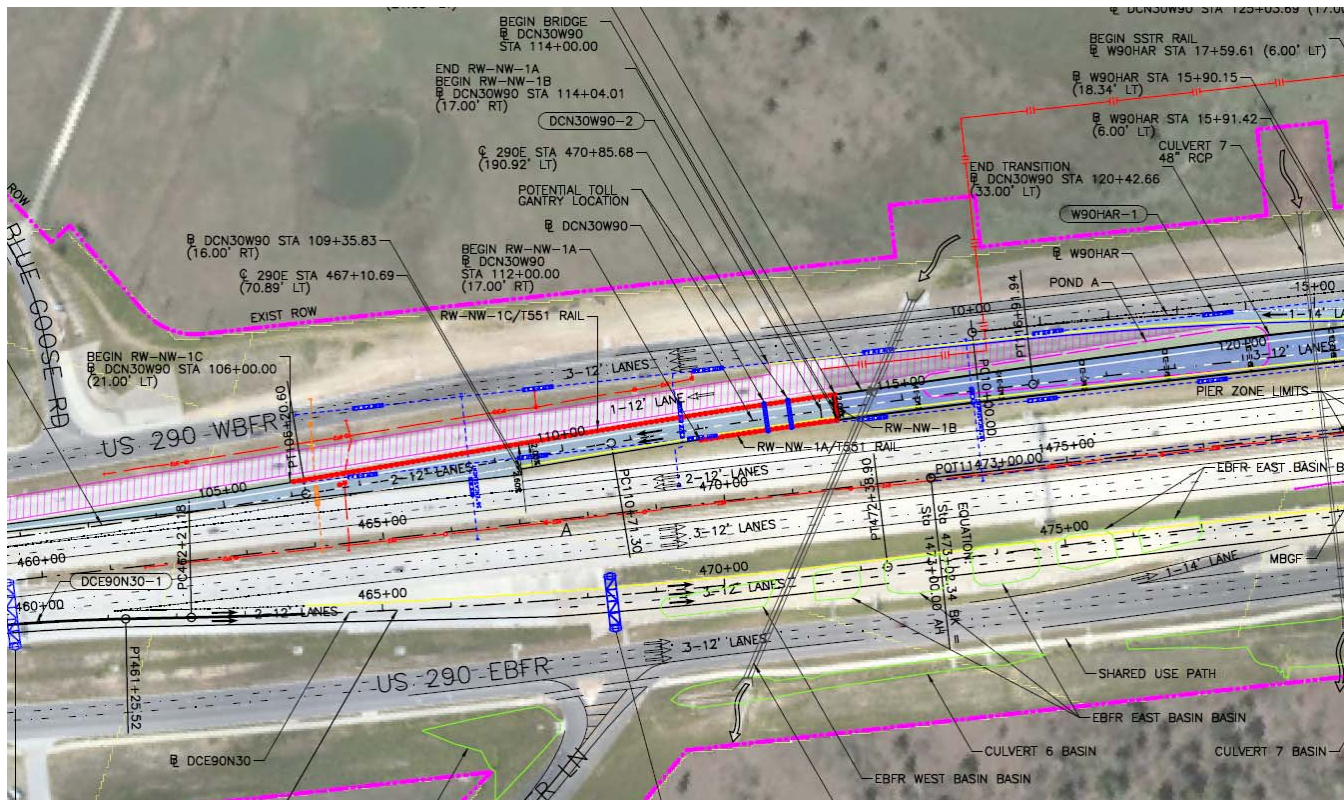
#### **A8.0 Project Schedule**

The Project Schedule shall be developed to incorporate the milestone dates established for this Work Authorization No. 15 as presented in *ATTACHMENT F – Project Schedule and Milestones*.



**ATTACHMENT B**  
**PROJECT LAYOUT**  
**Manor Expressway (290E) Phase III Project Toll Gantry Location**

**Toll Gantry Location\* – WB 290E to NB SH130**



\* Toll Gantry Locations are approximate and subject to change

**ATTACHMENT – C**  
**TOLL FACILITY RESPONSIBILITY MATRIX**  
**CTRMA - Fixed Priced Tolling Projects**

<b>Responsibility Assignment Legend</b>							
Primary Responsibility: P	Support Responsibility: S		Coordination Responsibility Only: C			No Responsibility: N	
Element/Task/Component/ Sub-system	Designer/Contractor			Systems Integrator (SI)			Comments Other Responsibility/Information
	Design	Procure	Install/ Construct	Design	Procure	Install / Construct	
<b>GENERAL REQUIREMENTS</b>							
Schedule	P	P	P	S	C	S	Contractor must accommodate and incorporate the SI scheduled activities into the Contractor schedule. All schedule changes or updates which impact the SI tasks must be agreed to by the SI prior to submittal to the Mobility Authority. A weekly schedule must be distributed and incorporate any SI updates or changes.
Request for Early Opening	P	P	P	S	S	S	SI must be able to match schedule request for early opening to conform to requirements in construction contract documents.
Design Package – Installation and Electrical Design and Plans	P	P	P	C	N	C	Designer to incorporate all SI requirements and specifications into Structural and Electrical Design Packages. SI to provide approval prior to issuance of Released For Construction (RFC) plans.
Grading	P	P	P	C	N	C	
Drainage	P	P	P	C	N	C	No culverts or pipes under tolling zones.
Utilities/Electrical Services	P	P	P	S	C	C	SI to provide specific power requirements for the Toll System. Designer to incorporate into toll facilities design. Contractor to construct power utilities interface, and all power infrastructure.
Traffic Control/Safe work zone	P	P	P	S	N	C	SI to provide Contractor detailed lane closure requirements and schedule for installation and testing.
Signing	P	P	P	C	N	N	All toll signing must be coordinated with and approved by the Mobility Authority. If toll price signs utilize changeable electronic signs, the Contractor will provide the static sign and the SI will provide the electronic insert.
Striping	P	P	P	S	N	C	SI to coordinate striping with pavement loop locations.
Lighting	P	P	P	S	C	S	Roadway and toll location lighting designed by Designer and Provided by contractor. SI to provide lighting requirements in vicinity of toll locations and locations of other Toll System equipment. Designer to confirm that lighting does not obstruct

**ATTACHMENT – C  
TOLL FACILITY RESPONSIBILITY MATRIX  
CTRMA - Fixed Priced Tolling Projects**

<b>Responsibility Assignment Legend</b>							
<b>Primary Responsibility: P</b>	<b>Support Responsibility: S</b>		<b>Coordination Responsibility Only: C</b>			<b>No Responsibility: N</b>	
<b>Element/Task/Component/ Sub-system</b>	<b>Designer/Contractor</b>			<b>Systems Integrator (SI)</b>			<b>Comments Other Responsibility/Information</b>
	<b>Design</b>	<b>Procure</b>	<b>Install/ Construct</b>	<b>Design</b>	<b>Procure</b>	<b>Install / Construct</b>	
							toll related signing or impede the Toll System.
Landscaping	<b>P</b>	<b>P</b>	<b>P</b>	<b>C</b>	<b>N</b>	<b>N</b>	
Fencing/Guardrail/Bollards/Concrete Barrier	<b>P</b>	<b>P</b>	<b>P</b>	<b>S</b>	<b>C</b>	<b>C</b>	SI to provide requirements for specific equipment clearances for Toll System. Designer to incorporate into roadway design. SI to confirm that design plans meet requirements.
<b>TOLL SYSTEM: LOCATIONS, LAYOUTS, STRUCTURES, MOUNTS/BRACKETS</b>							
Locations and Layouts	<b>P</b>	<b>P</b>	<b>P</b>	<b>S</b>	<b>C</b>	<b>C</b>	SI to provide specific locations for the Toll System, SI to provide requirements for specific lane and facility layouts. Designer to incorporate into Design Packages. SI to review and approve.
Gantries/Foundation/Trusses/Junction boxes/Conduits/Grounding	<b>P</b>	<b>P</b>	<b>P</b>	<b>S</b>	<b>C</b>	<b>S</b>	SI to provide requirements for conduits (for SI installed power and communications cables, including specific requirement for below ground conduits for the loops), junction boxes, and power needs for the Toll System. Designer to incorporate into structural design, including electrical grounding, bonding. Contractor to provide and install junction boxes and conduit pull strings and bell ends for all conduits including conduits going up gantry columns. The Contractor will require SI to sign off on belowground conduits for the loops prior to installation of special pavement structure.
Equipment Mounts on Equipment Brackets/Frames	<b>S</b>	<b>N</b>	<b>C</b>	<b>P</b>	<b>P</b>	<b>P</b>	SI to procure and install all Toll System equipment, and related cable & wiring, including communications from roadside cabinets to the equipment mounted on the gantries. SI to provide requirements for all brackets to designer and frames needed to attach SI procured equipment to Contractor provided truss.
Equipment Brackets/Frames on Gantries	<b>P</b>	<b>P</b>	<b>P</b>	<b>S</b>	<b>N</b>	<b>C</b>	Contractor to provide and install all brackets and frames needed to attach all SI procured equipment. SI to provide locations for installation to the designer. SI to provide requirements for hanger and orientation of hanger mount to gantries.
Pavement structure, including special	<b>P</b>	<b>P</b>	<b>P</b>	<b>S</b>	<b>N</b>	<b>C</b>	SI to provide requirements for special pavement

**ATTACHMENT – C**  
**TOLL FACILITY RESPONSIBILITY MATRIX**  
**CTRMA - Fixed Priced Tolling Projects**

<b>Responsibility Assignment Legend</b>							
Primary Responsibility: P	Support Responsibility: S		Coordination Responsibility Only: C			No Responsibility: N	
Element/Task/Component/ Sub-system	Designer/Contractor			Systems Integrator (SI)			Comments Other Responsibility/Information
	Design	Procure	Install/ Construct	Design	Procure	Install / Construct	
nonferrous zones and conduit stub-outs for in-pavement sensors/loops							structure at toll gantry areas. SI shall coordinate joint spacing to avoid conflicts with loop placement and sign off on riser locations before concrete pour. Designer to assure ferrous objects (i.e. rebar, grates, pipes, etc.) are not in toll revenue collection detection system(s) zone of influence. Contractor to locate loop risers after pavement is poured.
<b>EQUIPMENT CABINETS</b>							
Toll Equipment Cabinets	C	N	S	P	P	P	SI to provide size and number of cabinets needed for Toll System. Designer shall incorporate location into site grading and drainage. SI to procure and install environmentally controlled cabinets. The environmentally controlled enclosures provided by SI must comply with the America Society of Heating, Refrigeration, and Air Conditioning Engineers: Thermal Guidelines for Data Processing Environments. Contractor to provide traffic control devices and safe working conditions for SI during installation of all toll equipment.
Toll Equipment Cabinets Site (TEC) and Roadside Equipment Cabinet Base Slabs	P	P	P	S	N	C	SI to provide requirements for specific equipment weight and anchorages for cabinets to the Designer. Designer to incorporate into Roadway Design. Contractor to install slabs with conduit plumbing.
Facility Security and Security Communications at Toll System locations	C	N	C	P	P	P	SI to provide security communications for all toll system equipment. Designer to incorporate into the Roadway Design. Contractor to provide physical security fence as required by SI around TEC/generators and auxiliary fuel tanks.
<b>TOLL SUB-SYSTEMS</b>							
Automatic Vehicle Identification (AVI) Antennas and Readers	N	N	S	P	P	P	SI to provide AVI System Mounts, Wiring and Cables. SI will perform all AVI system installation and terminations, and to make the connections to the electronics in the cabinets.
Automatic Vehicle Classification and	N	N	S	P	P	P	SI to connect and terminate AVC and/or AVD System mounted on the gantries and/or installed in

**ATTACHMENT – C**  
**TOLL FACILITY RESPONSIBILITY MATRIX**  
**CTRMA - Fixed Priced Tolling Projects**

<b>Responsibility Assignment Legend</b>							
Primary Responsibility: P	Support Responsibility: S		Coordination Responsibility Only: C			No Responsibility: N	
Element/Task/Component/ Sub-system	Designer/Contractor			Systems Integrator (SI)			Comments Other Responsibility/Information
	Design	Procure	Install/ Construct	Design	Procure	Install / Construct	
Detection (AVC) and (AVD)							the pavement to the electronics in the cabinets.
In-Pavement Sensors/Loops	N	N	S	P	P	P	SI to saw cut pavement, procure, install, and seal pavement sensors with approved sealant. Designer to assure ferrous objects (i.e. rebar, grates, etc.) are not in toll revenue collection detection system(s) zone of influence.
Video Capture Sub-System (VCS/VES) Cameras, Illumination, Sensors and Servers	N	N	S	P	P	P	SI to provide, install, terminate all Video Capture Sub-System (VCS/VES) equipment.
In-Lane Processing Servers and Electronics	N	N	N	P	P	P	SI to provide, install, connect, and terminate all electronics in the cabinet and assures proper communications to the devices on the gantry and/or in the pavement.
<b>POWER DISTRIBUTION SUB-SYSTEM</b>							
Metered power service at each location:	P	P	P	C	N	C	SI to provide power requirements and special requirements for construction of utilities near each Toll System. Designer should incorporate requirements into roadway design. Contractor to provide and install necessary conductors, ducts & junction/pull boxes, bell ends/pull strings and disconnect switch/fuse at the meter.
Power service at each toll location:	C	N	C	P	P	P	The SI shall provide and install all other wiring, switches, surge protection/suppression, etc. for power from the meter for the Toll System equipment. SI will terminate all power wiring from ATS at Toll System
Generators & Automatic Transfer Switches (ATS)	S	N	C	P	P	P	SI to provide generators, ATS, generator cabinets, wiring, connect and terminate all power at the Toll System sites.
Generator Power Source is Natural Gas	P	P	P	S	N	C	If natural gas is available, the Designer shall incorporate the gas lines into the roadway design. Contractor shall provide and install gas lines for incorporation into generator systems. SI to coordinate and provide generator requirements including location for gas feed including location of

**ATTACHMENT – C**  
**TOLL FACILITY RESPONSIBILITY MATRIX**  
**CTRMA - Fixed Priced Tolling Projects**

<b>Responsibility Assignment Legend</b>							
Primary Responsibility: P	Support Responsibility: S		Coordination Responsibility Only: C			No Responsibility: N	
Element/Task/Component/ Sub-system	Designer/Contractor			Systems Integrator (SI)			Comments Other Responsibility/Information
	Design	Procure	Install/ Construct	Design	Procure	Install / Construct	
							gas cut-off valve adjacent to Toll Pad. SI to install feed from generator to cut-off valve.
Generator Power Source is propane or diesel	S	S	S	P	P	P	The SI shall provide and install the propane/diesel tank for the generator if natural gas is not a viable option for the project. If propane is used, contractor will provide pad and conduit feed from the pad to the cut-off valve. Feeder line cut-off valve to be no further than 10' from the toll pad.
Uninterruptible Power Supplies (UPS)	S	N	C	P	P	P	SI to provide and install Uninterruptible Power Supply Systems (UPS) in the cabinets. UPS will be required for the Toll System,
Lightning Protection & Grounding	P	P	P	S	C	C	SI to provide specific requirements for equipment lightning protection and grounding. Designer should incorporate into plans. Contractor to furnish and install required lightning protection and grounding.
<b>COMMUNICATIONS SUB-SYSTEMS</b>							
Conduits/Ducts & Junction/Pull Boxes/Outlets	P	P	P	S	C	S	SI to provide specific Communications design requirements including location of long-radius sweep conduit bends. Designer to incorporate into the roadway design and contractor to install including conduits, junction boxes and bell ends with pull strings. The Contractor shall verify that all duct banks and conduits are clear/proofoed and have pull strings prior to the beginning of the Toll System installation.
Fiber Optic cabling in conduits for Toll System	S	S	S	P	P	P	SI to provide fiber requirements for Toll System. Designer to incorporate into design of backbone and laterals. SI to furnish and install along the corridor from communication hub to cabinets.
Toll Hardware in Cabinets	C	N	C	P	P	P	SI to provide and install all toll hardware within the cabinets. Equipment must be installed in a clean and organized manner and must not be affected by the environmental controls. The SI must provide and install the redundant environmental controls.

**ATTACHMENT – C  
TOLL FACILITY RESPONSIBILITY MATRIX  
CTRMA - Fixed Priced Tolling Projects**

<b>Responsibility Assignment Legend</b>								
<b>Primary Responsibility: P</b>		<b>Support Responsibility: S</b>			<b>Coordination Responsibility Only: C</b>			<b>No Responsibility: N</b>
<b>Element/Task/Component/ Sub-system</b>	<b>Designer/Contractor</b>			<b>Systems Integrator (SI)</b>			<b>Comments Other Responsibility/Information</b>	
	<b>Design</b>	<b>Procure</b>	<b>Install/ Construct</b>	<b>Design</b>	<b>Procure</b>	<b>Install / Construct</b>		
Routers	C	N	C	P	P	P	SI to provide, install and configure the routers for connection from hub locations to the Mobility Authority's Traffic Management Center. (TMC)	
Hubs	N	N	C	P	P	P	If applicable.	
Switches	N	N	C	P	P	P	SI to provide, install and configure the switches for connection from hub locations to the Mobility Authority's Traffic Management Center. (TMC)	
Firewalls	N	N	C	P	P	P	SI to provide, install and configure the necessary firewall for the toll system	
Patch/Distribution Panels	N	N	C	P	P	P	SI to provide and install all the necessary patch and distribution panels to provide Fault Tolerant Single Mode Fiber Optic IP-Based Communication System.	
Corridor Communications System	S	N	C	P	P	P	SI to provide Fault Tolerant Single Mode Fiber Optic IP-Based Communication System for Toll Revenue Collection Systems.	
Corridor Communications Conduits	P	P	P	C	N	S	Designer to design for any branch off existing duct bank system including conduit, ground boxes and terminations. Contractor to furnish and install.	
Corridor to Traffic Management Center(TMC)	N	N	N	P	P	P	SI to provide Fault Tolerant IP-Based Communication System to the TMC for Toll Revenue Collection Systems.	
Data/Communications Service to each Tolling Location	N	N	N	P	P	P	SI to install any power and communications cable required to interface between the TEC and the service provider's POI. Contractor responsible for conduit, ground boxes and infrastructure terminations.	
<b>SYSTEMS SERVERS AND SPACE</b>								
Toll Collection Systems Computer(s)	N	N	N	P	P	P		
Support Equipment at CTRMA Offices	N	N	N	P	P	P	SI to provide data and power wiring schematics, equipment rack/cabinet requirement, and elevations, layouts, floor plans, air flow diagrams,	

**ATTACHMENT – C**  
**TOLL FACILITY RESPONSIBILITY MATRIX**  
**CTRMA - Fixed Priced Tolling Projects**

<b>Responsibility Assignment Legend</b>							
Primary Responsibility: P	Support Responsibility: S		Coordination Responsibility Only: C			No Responsibility: N	
Element/Task/Component/ Sub-system	Designer/Contractor			Systems Integrator (SI)			Comments Other Responsibility/Information
	Design	Procure	Install/ Construct	Design	Procure	Install / Construct	
							and environmental controls load calculations, electrical power distribution, including grounding, bonding, lightning protection, panel boards, TVSS, circuit breakers conduit, conductors, j-boxes, receptacles.
Systems Servers & Workstations	N	N	C	P	P	P	SI to provide, install and configure all system servers and workstations required at the TMC to support the operations and management of the Project.
Federal Communication Commission License Preparation and Submission	C	N	N	P	P	P	SI to provide all information necessary to acquire FCC Licensing to the Mobility Authority.
<b>DUCT BANK &amp; INTELLIGENT TRANSPORTATION SYSTEMS (ITS) – TXDOT OWNED</b>							
Duct Bank Adjustment & ITS relocations design	P	P	P	N	N	N	Designer is responsible for the design of any necessary ITS relocations including, foundations, conduits, electrical services, grounding circuits, and support structures. Contractor responsible for notifying designer of adjustments needed to any existing duct bank manholes and providing new junction/boxes and manholes if in conflict with the project. Coordination with TxDOT will be required. SI responsible for adjustments to 290E fiber.
Duct Bank Adjustments/new connections	P	P	P	S	N	C	Designer is responsible for designing all manhole adjustments and new manhole ties. Contractor responsible to furnish/install.
Fiber optic cables	N	N	N	P	P	P	Any adjustments to existing 290E cables are SI responsibility.



**ATTACHMENT – C**  
**TOLL FACILITY RESPONSIBILITY MATRIX**  
**CTRMA - Fixed Priced Tolling Projects**

<b>Responsibility Assignment Legend</b>							
<b>Primary Responsibility: P</b>	<b>Support Responsibility: S</b>		<b>Coordination Responsibility Only: C</b>			<b>No Responsibility: N</b>	
<b>Element/Task/Component/ Sub-system</b>	<b>Designer/Contractor</b>			<b>Systems Integrator (SI)</b>			<b>Comments Other Responsibility/Information</b>
	<b>Design</b>	<b>Procure</b>	<b>Install/ Construct</b>	<b>Design</b>	<b>Procure</b>	<b>Install / Construct</b>	
Relocation of existing CCTV & DMS foundations, conduits, grounding, camera poles, and electrical services	<b>P</b>	<b>P</b>	<b>P</b>	<b>C</b>	<b>N</b>	<b>C</b>	Designer is responsible for designing the relocation of any existing CCTV and DMS structures and services impacted by the Project Design, including communications and power. Contractor shall be responsible for relocating aforementioned structures/services. Damaged or inoperable equipment shall be moved but not repaired. Coordinate with TxDOT in regards to proper storage of existing devices until time of reinstall.
Relocation of RVSD Stations	<b>P</b>	<b>P</b>	<b>P</b>	<b>C</b>	<b>C</b>	<b>C</b>	Contractor to coordinate with SI for relocation of CTRMA devices and infrastructure related to RVSD.
Relocation of vehicle detector foundations, conduits, loops, grounding, vehicle detector support structures, and electrical services	<b>P</b>	<b>P</b>	<b>P</b>	<b>C</b>	<b>N</b>	<b>C</b>	Designer to coordinate with TxDOT regarding any existing vehicle detectors/loops within the pavement to determine if they will need to be replaced/relocated. The Contractor will replace/relocate detectors/loops unless TxDOT prefers to do the work. Any damaged detectors/loops that are to remain must be replaced by the Contractor. Coordinate with TxDOT in regards to proper storage of existing devices until time of reinstall.

**ATTACHMENT – C  
TOLL FACILITY RESPONSIBILITY MATRIX  
CTRMA - Fixed Priced Tolling Projects**

<b>Responsibility Assignment Legend</b>							
<b>Primary Responsibility: P</b>	<b>Support Responsibility: S</b>		<b>Coordination Responsibility Only: C</b>			<b>No Responsibility: N</b>	
<b>Element/Task/Component/ Sub-system</b>	<b>Designer/Contractor</b>			<b>Systems Integrator (SI)</b>			<b>Comments Other Responsibility/Information</b>
	<b>Design</b>	<b>Procure</b>	<b>Install/ Construct</b>	<b>Design</b>	<b>Procure</b>	<b>Install / Construct</b>	
<b>DUCT BANK &amp; INTELLIGENT TRANSPORTATION SYSTEMS (ITS) – PROPOSED</b>							
Duct Bank	<b>P</b>	<b>P</b>	<b>P</b>	<b>S</b>	<b>N</b>	<b>C</b>	Designer responsible for the design of any new duct bank.
Conduit/Ducts & Junction/Pull Boxes/Outlets	<b>P</b>	<b>P</b>	<b>P</b>	<b>S</b>	<b>C</b>	<b>S</b>	
CCTV Poles and foundations	<b>P</b>	<b>P</b>	<b>P</b>	<b>S</b>	<b>N</b>	<b>C</b>	CCTV poles shop drawing to be reviewed by SI prior to release for fabrication. Design to provide all elements of lightning protection as noted in TxDOT CCTV Pole details. Drilled shafts for CCTV pole to be confirmed in the field by SI prior to being set.
RVSD Poles and foundations	<b>P</b>	<b>P</b>	<b>P</b>	<b>S</b>	<b>N</b>	<b>C</b>	RVSD poles shop drawing to be reviewed by SI prior to release for fabrication.
DMS Support Structures	<b>P</b>	<b>P</b>	<b>P</b>	<b>S</b>	<b>N</b>	<b>C</b>	DMS support structure shop drawings to be reviewed by SI prior to release for fabrication. Designer to provide all elements of lightning protection as noted in TxDOT DMS details.
Fiber Optic Cable	<b>N</b>	<b>N</b>	<b>S</b>	<b>P</b>	<b>P</b>	<b>P</b>	
CCTV Cameras and control equipment	<b>N</b>	<b>N</b>	<b>S</b>	<b>P</b>	<b>P</b>	<b>P</b>	
RVSD and control equipment	<b>N</b>	<b>N</b>	<b>S</b>	<b>P</b>	<b>P</b>	<b>P</b>	
DMS and control equipment	<b>N</b>	<b>N</b>	<b>S</b>	<b>P</b>	<b>P</b>	<b>P</b>	
Metered power service at each location	<b>P</b>	<b>P</b>	<b>P</b>	<b>C</b>	<b>N</b>	<b>C</b>	ITS devices that cannot be pulled off a toll power panel (Generator Backup) will require a dedicated service drop. SI to provide a list of ITS devices which can be fed from proposed or existing toll power panels.

**ATTACHMENT D**

**Fixed Price Tolling Guidelines  
Manor Expressway (290E) Phase III Project**



**CENTRAL TEXAS  
Regional Mobility Authority**

FIXED PRICE TOLLING GUIDELINES  
2 - 4 LANES

ISSUED: APRIL 2015



GENERAL NOTES

- 1 REFERENCE SHEET: THE SYSTEM INTEGRATOR SHALL PROVIDE A SUMMARY STATION AND OFFSET TABLE FOR ALL OF THE FOLLOWING FOR EACH GANTRY LOCATION:  
 AVDS & AVC ENTRY, MIDDLE, EXIT, AND AXLE CONDUIT RISERS (IF NECESSARY)  
 AVDS & AVC ENTRY, MIDDLE, EXIT, AND AXLE LOOPS (IF NECESSARY)
- 2 REFERENCE SHEET: THE DESIGN BUILDER SHALL PROVIDE A SUMMARY STATION AND OFFSET TABLE FOR ALL OF THE FOLLOWING FOR EACH GANTRY LOCATION:  
 GANTRY COLUMNS & TRUSSES  
 PAVEMENT SECTION JOINTS (JOINTS SHALL BE DESIGNED SO THAT NO LOOP CROSSES ANY JOINT)
- 3 TXDOT ELECTRICAL DETAIL SHEETS SHALL APPLY.
- 4 NATIONAL ELECTRIC CODE (NEC), NFPA 780, NESC REQUIREMENTS SHALL APPLY
- 5 TXDOT ITEM 618 SHALL GOVERN FOR ALL CONDUIT REQUIREMENTS
- 6 TXDOT ITEM 620 SHALL GOVERN FOR ALL ELECTRICAL CONDUCTOR REQUIREMENTS
- 7 TXDOT ITEM 624 SHALL GOVERN FOR ALL GROUND BOXES. HS-20 LOAD RATING REQUIREMENTS SHALL GOVERN IN ALL LOCATIONS SUBJECT TO TRAFFIC LOADING.
- 8 TXDOT ITEM 628 SHALL GOVERN FOR ALL ELECTRICAL SERVICES. THE DESIGN BUILDER SHALL CONTACT RESPECTIVE UTILITY FOR LOCATION OF ELECTRICAL SERVICE.
- 9 SITE CONDITIONS MAY REQUIRE MODIFICATION TO THE JCP TO EXISTING PAVEMENT TRANSITION.
- 10 DETAILS ARE SUBJECT TO REVISIONS PERIODICALLY AS REQUIRED BY SYSTEM INTEGRATOR TECHNOLOGIES.

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 P.E. Serial No.: 93753  
 Date: 26-MAY-2015

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**FIXED PRICE  
 TOLLING GUIDELINES  
 GENERAL NOTES**

GN-1

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	6		3
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DW	TEXAS	AUS	
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KK			



GROUND/PULL BOX	☒	CONDUIT	-----
GENERATOR	GEN	PROPANE TANK (250 GALLON TANK)	(LP)
COMMUNICATIONS	Ⓢ	ENCASED CONDUIT	----
ELECTRICAL SERVICE	Ⓟ	BLACK VINYL FENCE (6' TALL)	-----x-----
SUPPORTING COLUMN	⊙	TOLL ELECTRONICS CABINET	TEC
JUNCTION BOX	Ⓜ		
DISCONNECT SWITCH	DS		
AUTOMATIC TRANSFER SWITCH	ATS		
AUTO VEHICLE CLASSIFICATION LOOP	Ⓜ		
AUTO VEHICLE DETECTION LOOP	Ⓜ		

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**FIXED PRICE  
 TOLLING GUIDELINES  
 SYMBOLS USED**

S-1

DESIGNED BY:	FED. RD. DIV. NO.	FEDERAL AID PROJECT NO.	SHEET NO.
	6		5
DRAWN BY:	STATE	DIST.	COUNTY
DW	TEXAS	AUS	
CHECKED BY:	CONT.	SECT.	JOB HIGHWAY NO.
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 Design File name: \\ousw00\pmwork\Jobs\46837\*CTRMA\183A Operations and Maintenance\Tolling\New Fixed Price Tolling Standards\Toll Guidelines\*rev.dgn

TERMS & CONDITIONS

THE CENTRAL TEXAS REGIONAL MOBILITY AUTHORITY (HEREINAFTER REFERRED TO AS MOBILITY AUTHORITY) IS COMMITTED TO PROVIDING ELECTRONIC ACCESS TO FILES OF STANDARDS. MOBILITY AUTHORITY MAKES EVERY REASONABLE EFFORT TO DO SO IN A CROSS-PLATFORM AND COMPLEX MULTI-PROTOCOL ENVIRONMENT. MOBILITY AUTHORITY DOES NOT POSSESS A STAFF THAT IS AVAILABLE TO PROVIDE TECHNICAL SUPPORT TO OUTSIDE PARTIES WHO AVAIL THEMSELVES OF CAD FILES THAT ARE PROVIDED. IT IS IMPORTANT, THEREFORE, THAT ALL POTENTIAL USERS OF THESE FILES READ THE FOLLOWING DISCLAIMER AND ACCEPT ITS TERMS AS A PREREQUISITE TO THE USE OF THE FILES.

IF THE RECEIVER PROCEEDS, THE RECEIVER AGREES TO THE FOLLOWING TERMS AND CONDITIONS:

1. MOBILITY AUTHORITY MAKES NO WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, WITH RESPECT TO THE FILE(S) WHICH ARE THE SUBJECT OF THIS AGREEMENT, AND SPECIFICALLY MAKES NO WARRANTY THAT SAID FILE(S) SHALL BE MARKETABLE OR FIT FOR ANY PARTICULAR PURPOSE. FURTHERMORE, ANY DESCRIPTION OF SAID FILE(S) SHALL NOT BE DEEMED TO CREATE AN EXPRESS WARRANTY THAT SUCH FILES SHALL CONFORM TO SAID DESCRIPTION.
2. RECEIVER ASSUMES ALL RISK AND LIABILITY FOR ANY LOSSES, DAMAGES, CLAIMS OR EXPENSES RESULTING FROM THE USE OR POSSESSION OF ANY FILE(S) FURNISHED BY MOBILITY AUTHORITY PURSUANT TO THIS AGREEMENT.
3. RECEIVER AGREES TO INDEMNIFY, DEFEND AND HOLD HARMLESS MOBILITY AUTHORITY, ITS OFFICERS, AGENTS, AND EMPLOYEES FROM AND AGAINST ANY AND ALL CLAIMS, SUITS, LOSSES, DAMAGES OR COSTS, INCLUDING REASONABLE ATTORNEY'S FEES, ARISING FROM OR BY REASON OF RECEIVERS; USE OR POSSESSION WITH RESPECT TO ANY OF THE FILE(S) FURNISHED BY MOBILITY AUTHORITY PURSUANT TO THIS AGREEMENT, AND SUCH INDEMNIFICATION SHALL SURVIVE ACCEPTANCE OF SAID FILE(S) BY RECEIVER.
4. ALL DESIGN FILE STANDARDS ARE AVAILABLE IN MICROSTATION DRAWING FILES (\*.DGN). RECEIVER AGREES THAT MOBILITY AUTHORITY CANNOT BE HELD RESPONSIBLE FOR PROBLEMS ARISING FROM FILES WHICH HAVE BEEN CONVERTED FOR USE IN NON-NATIVE APPLICATIONS (E.G. MICROSTATION DESIGN FILES TO AUTOCAD).
5. MICROSTATION (\*.DGN) FILENAMES THAT HAVE A COMPANION PDF ICON CAN BE VIEWED IN ADOBE ADOBE ADOBE ACROBAT READER BY CLICKING ON THE PDF ICON. THIS READER CAN BE USED TO PRINT THESE PDF FILES. RECEIVER AGREES THAT MOBILITY AUTHORITY ASSUMES NO RESPONSIBILITIES FOR PRINTING WITH ADOBE. ALSO, RECEIVER AGREES THAT MOBILITY AUTHORITY CANNOT BE HELD RESPONSIBLE FOR ANY PROBLEMS ARISING WITH THE PRINTING OF A PDF FILE.
6. RECEIVER AGREES THAT MOBILITY AUTHORITY CANNOT PROVIDE THE FILES IN OTHER FILE FORMATS OR COMPRESSED FORMATS, AND AGREES TO ACCEPT THE FILES IN THE FORMAT PROVIDED.
7. SINCE REVISIONS OR ADDITIONS TO THE DESIGN FILE STANDARDS MAY OCCUR AT ANY TIME, THE RECEIVER AGREES TO INDEMNIFY, DEFEND AND HOLD HARMLESS MOBILITY AUTHORITY, ITS OFFICERS, AGENTS, EMPLOYEES, AND CONSULTANTS FROM AND AGAINST ANY AND ALL CLAIMS, SUITS, LOSSES, DAMAGES OR COSTS, INCLUDING REASONABLE ATTORNEY'S FEES, ARISING FROM THE USE OF OUTDATED DESIGN FILE STANDARDS, SUCH INDEMNIFICATION SHALL SURVIVE ACCEPTANCE OF SAID FILE(S) BY RECEIVER.
8. THE DESIGN FILES STANDARDS ARE COPYRIGHTED BY MOBILITY AUTHORITY AND MAY NOT BE RESOLD.
9. THESE TERMS AND CONDITIONS CONSTITUTE THE COMPLETE AND FINAL AGREEMENT OF THE PARTIES HERETO. RECEIVER ACCEPTS THE AFOREMENTIONED TERMS AND CONDITIONS.

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**FIXED PRICE  
 TOLLING GUIDELINES  
 TERMS AND  
 CONDITIONS**

TC-1

DESIGNED BY:	FED. RD. DIV. NO.	FEDERAL AID PROJECT NO.		SHEET NO.
	6			6
DRAWN BY:	STATE	DIST.	COUNTY	
DW	TEXAS	AUS		
CHECKED BY:	CONT.	SECT.	JOB	HIGHWAY NO.
KK				





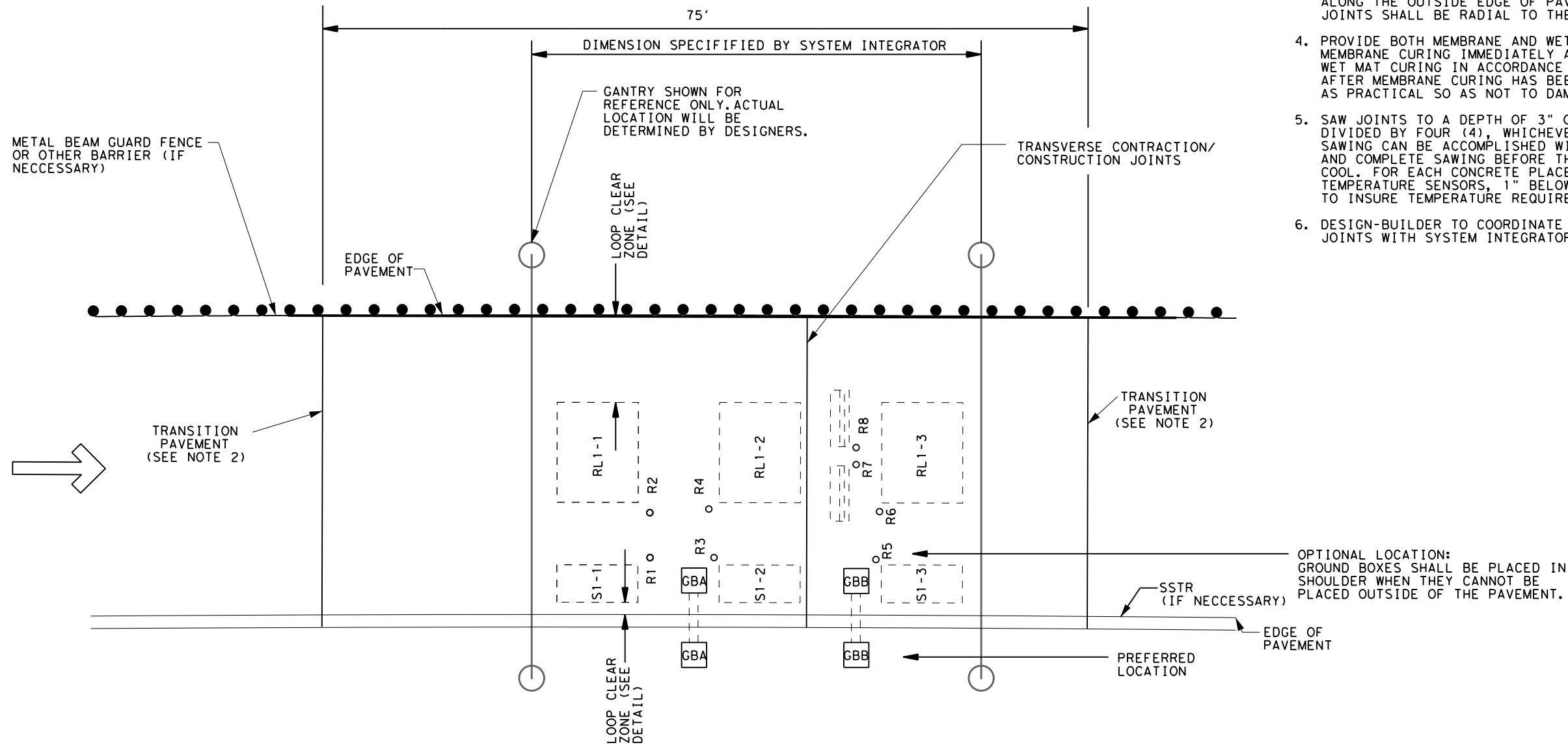






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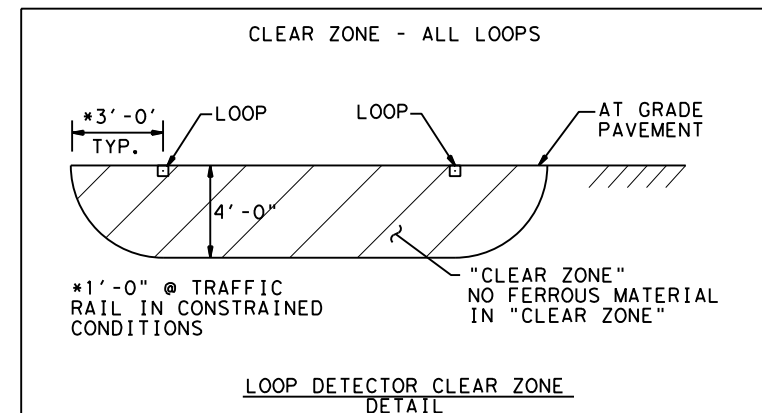


GENERAL NOTES

1. JOINT DETAILS ARE PROVIDED ON THE JOINTED CONCRETE PAVEMENT (JC-1) STANDARD DETAIL SHEET.
2. SEE TERMINAL ANCHOR JOINT DETAIL FOR CRCP TO JCP PAVEMENT DETAIL ON SHT. 22. SEE CATD-1 FOR JCP TRANSITION TO ASPHALT.
3. TRANSVERSE JOINT SPACINGS SHOWN ARE MEASURED ALONG THE OUTSIDE EDGE OF PAVEMENT. TRANSVERSE JOINTS SHALL BE RADIAL TO THE BASELINE.
4. PROVIDE BOTH MEMBRANE AND WET MAT CURING. PLACE MEMBRANE CURING IMMEDIATELY AFTER TEXTURING. PROVIDE WET MAT CURING IN ACCORDANCE WITH TXDOT ITEM 420.20(A), AFTER MEMBRANE CURING HAS BEEN APPLIED AND AS SOON AS PRACTICAL SO AS NOT TO DAMAGE THE SURFACE FINISH.
5. SAW JOINTS TO A DEPTH OF 3" OR THE PAVEMENT THICKNESS DIVIDED BY FOUR (4), WHICHEVER IS GREATER, AS SOON AS SAWING CAN BE ACCOMPLISHED WITH ONLY MINOR RAVELING AND COMPLETE SAWING BEFORE THE PAVEMENT BEGINS TO COOL. FOR EACH CONCRETE PLACEMENT INSTALL ONE OR MORE TEMPERATURE SENSORS, 1" BELOW THE SURFACE AND MONITOR TO INSURE TEMPERATURE REQUIREMENTS ARE MET.
6. DESIGN-BUILDER TO COORDINATE LOCATION OF CONSTRUCTION JOINTS WITH SYSTEM INTEGRATOR.

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OPTIONAL LOCATION: GROUND BOXES SHALL BE PLACED IN SHOULDER WHEN THEY CANNOT BE PLACED OUTSIDE OF THE PAVEMENT.



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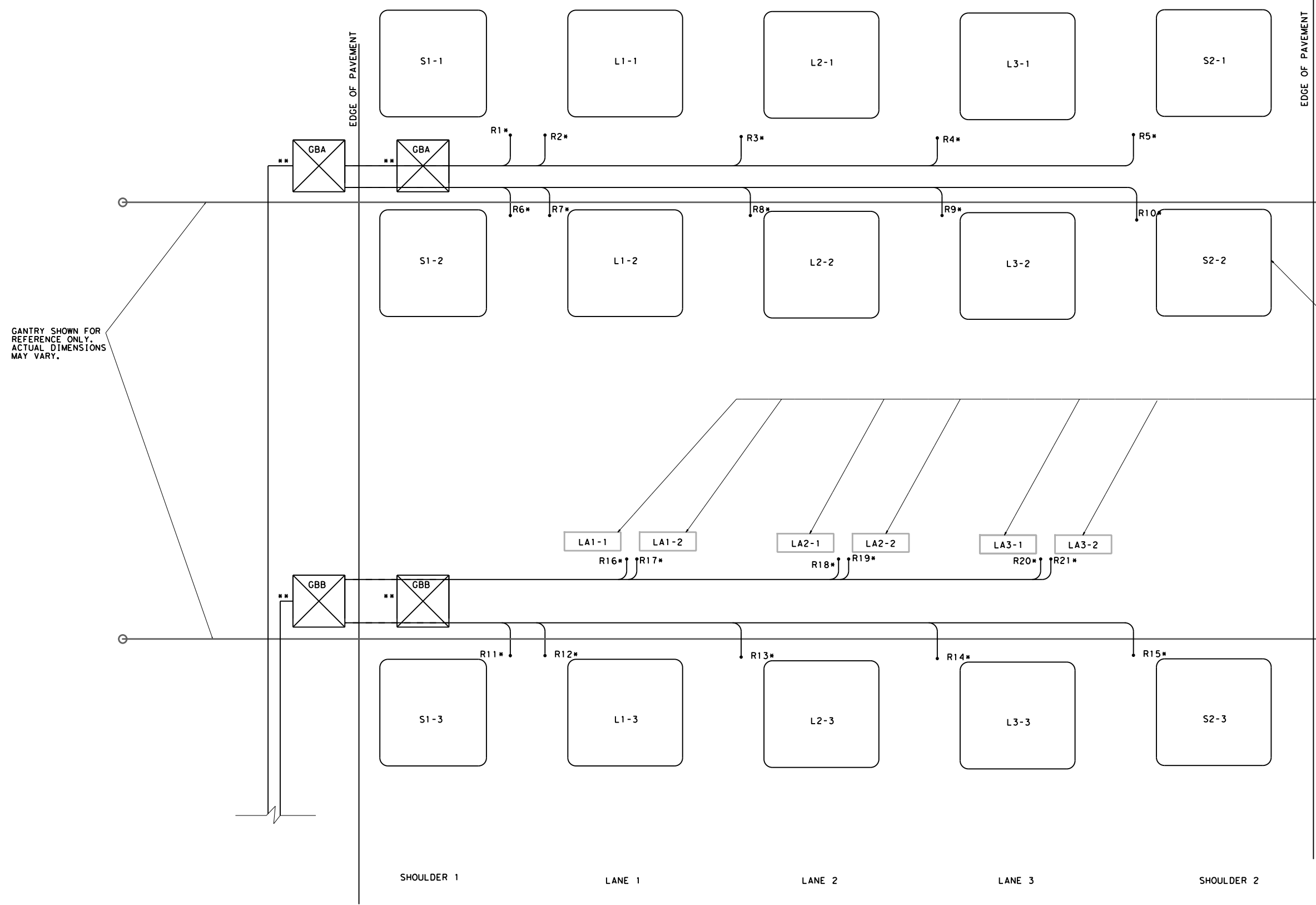
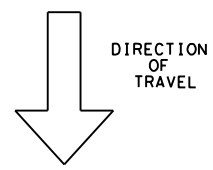
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**FIXED PRICE  
TOLLING GUIDELINES  
RAMP PAVEMENT  
JOINTING PLAN  
AND GROUND  
BOX LAYOUT  
P1-RMP**

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CHECKED BY:	CONT.	SECT.	JOB HIGHWAY NO.
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# SAMPLE LOOP LAYOUT



- GENERAL NOTES:
- 1) THE NUMBER AND LOCATION OF LOOPS AND RISERS TO BE SPECIFIED BY SYSTEM INTEGRATOR.
  - 2) NOT TO BE USED FOR LOOP PLACEMENT MARK RISER LOCATION TO BE VERIFIED BY ENGINEER.
  - 3) PVC SEE DETAIL A2 "CONDUIT RISER DETAIL LOOP TAIL TO GROUND BOX CONDUIT TRENCH DETAIL."
  - 4) ADDITIONAL GBC'S MAY BE REQUIRED. COORDINATE NUMBER AND LOCATION WITH SYSTEMS INTEGRATOR.
  - 5) FOR 2 MAIN LANES, REMOVE L3. FOR 4 MAIN LANES, ADD L4.
  - 6) ALL GROUND BOX SIZES AND MODELS MUST BE APPROVED BY THE MOBILITY AUTHORITY OR SYSTEMS INTEGRATOR.
- \* SEE DETAIL A3 ON CONDUIT RISER DETAIL SHEET. RISER LOCATIONS TO BE SPECIFIED BY SYSTEMS INTEGRATOR.
- \*\* SEE DETAIL A1, A4, ON CONDUIT RISER DETAIL SHEET. PREFERRED LOCATION FOR GROUND BOXES IS OUTSIDE OF PAVEMENT. IF INSUFFICIENT ROOM IS AVAILABLE OUTSIDE OF PAVEMENT, GROUND BOX SHALL BE HS-20 TRAFFIC RATED. IF GROUND BOX IS IN PAVEMENT, IT MUST BE NON-FERROUS.

AUTO VEHICLE DETECTION (AVDS) (LOOP FRAMING)

AUTO VEHICLE CLASSIFICATION (AVC)

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 Date: 26-MAY-2015

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## FIXED PRICE TOLLING GUIDELINES GROUND BOX PLACEMENT AND CONDUIT RISER LOCATION (MAIN LANES) P2-ML

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DW	TEXAS	AUS	
CHECKED BY:	CONT.	SECT.	JOB
KK			HIGHWAY NO.

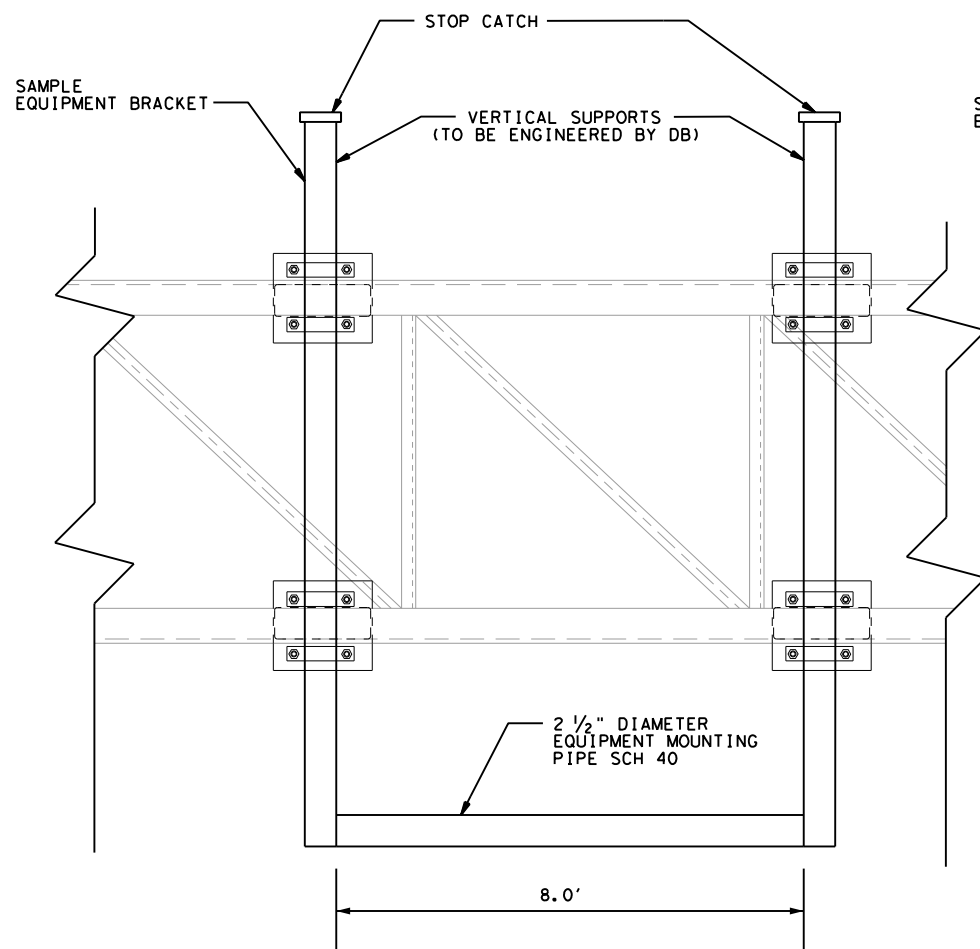




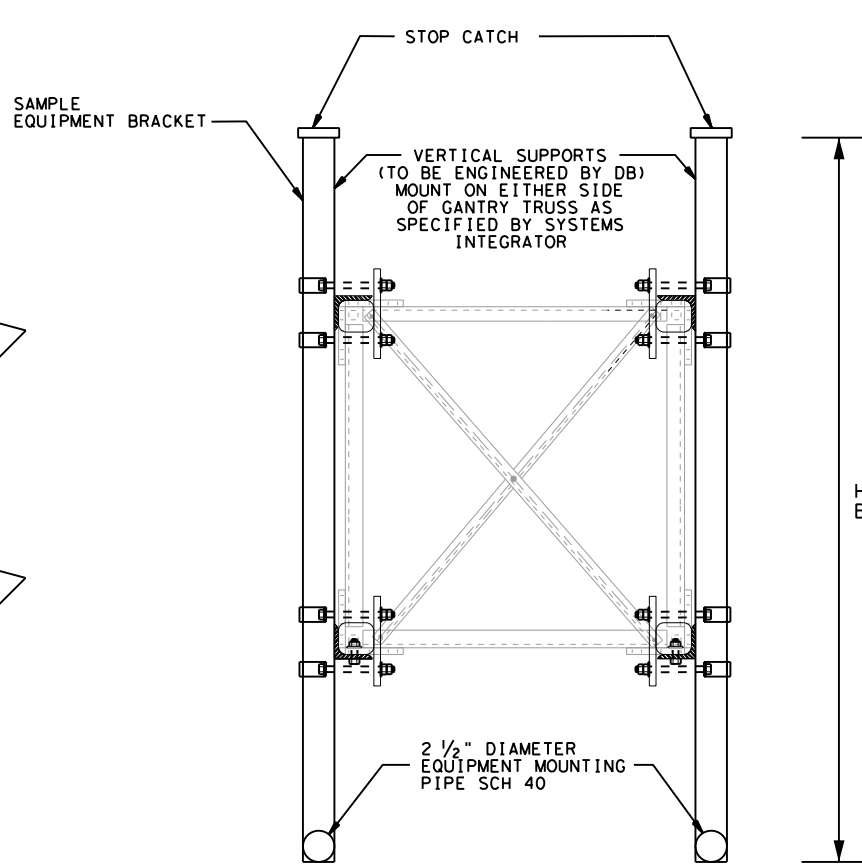




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ELEVATION TOLL GANTRY BRACKET



CROSS SECTION OF TOLL GANTRY BRACKET

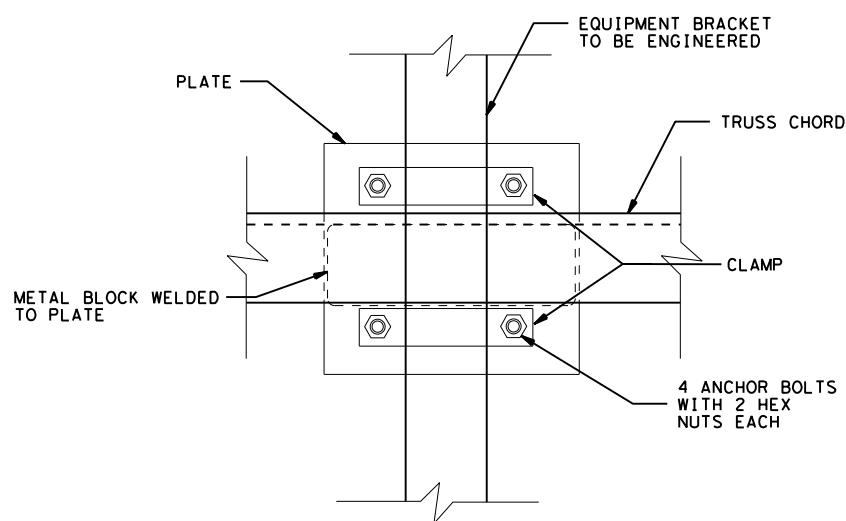
HEIGHT TO BE SPECIFIED BY SYSTEMS INTEGRATOR

**GENERAL NOTES:**

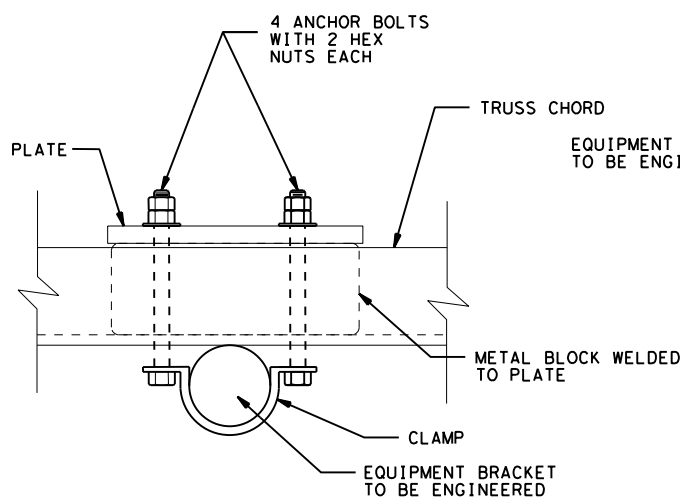
- 1) THESE DETAILS ARE FOR USE WITH TXDOT STANDARD OVERHEAD SIGN BRIDGE (OSB) OR CANTILEVER OVERHEAD SIGN SUPPORT (COSS).
- 2) FOR CONNECTION DETAILS NOT SHOWN SEE OVERHEAD SIGN BRIDGE TRUSS DETAILS (OSBC) OR CANTILEVER OVERHEAD SIGN SUPPORT DETAILS (COSSD).
- 3) MATERIALS SHALL BE COMPATIBLE WITH THE REQUIREMENTS OF THE ASSOCIATED REFERENCE SIGN BRIDGE STANDARDS.
- 4) QUANTITY OF EQUIPMENT BRACKETS AND LOCATION TO BE SPECIFIED BY SYSTEM INTEGRATOR.
- 5) DESIGN OF EQUIPMENT BRACKET AND CONNECTION TO OVERHEAD TRUSS TO BE PROVIDED BY DESIGN BUILDER. AVI ANTENNA AND CAMERA MOUNTING HARDWARE AND CONNECTION DETAILS TO BE PROVIDED BY SYSTEM INTEGRATOR.
- 6) SHOP DRAWINGS FOR AVI ANTENNA AND VES CAMERA SUPPORT SHALL BE PROVIDED FOR ENGINEER'S REVIEW.
- 7) DESIGNER BUILDER TO SPECIFY APPROPRIATE, SPAN, ICE LOADING, AND WIND ZONE. TRUSS DYNAMIC RESPONSE AND DEFLECTION SHALL BE COMPATIBLE WITH TOLL SYSTEM REQUIREMENTS.
- 8) DESIGN OF OSB AND COSS COLUMNS, DRILLED SHAFTS, AND TRUSS TO COLUMN CONNECTION TO BE PROVIDED BY DESIGN BUILDER.
- 9) EQUIPMENT BRACKET AND ALL MOUNTING HARDWARE SHALL BE HOT DIP GALVANIZED.

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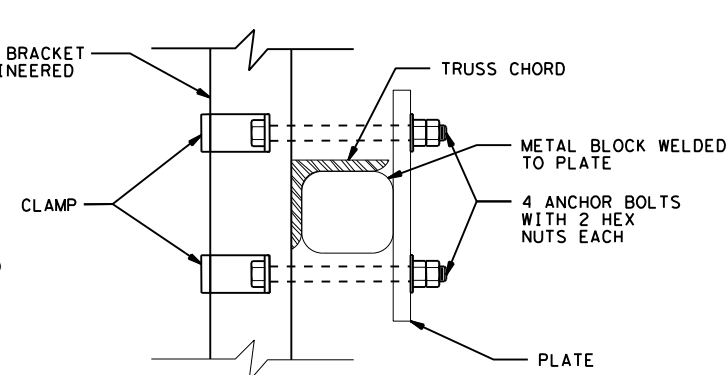
NOT TO SCALE



FRONT VIEW  
 (TOP CHORD SHOWN, FLIP HORIZ. FOR BOTTOM CHORD)



TOP VIEW  
 (TOP CHORD SHOWN, BOTTOM VIEW FOR BOTTOM CHORD)



SIDE VIEW  
 (TOP CHORD SHOWN, FLIP HORIZ. FOR BOTTOM CHORD)

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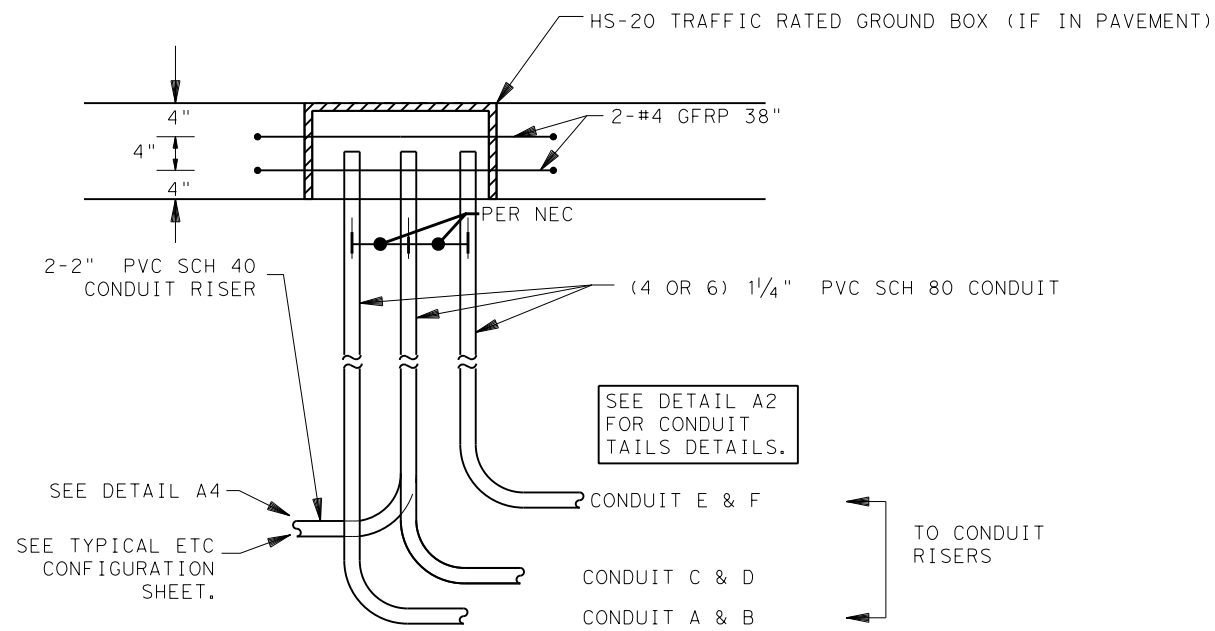
**FIXED PRICE TOLLING GUIDELINES TOLL GANTRY MISCELLANEOUS DETAILS**

MG-1

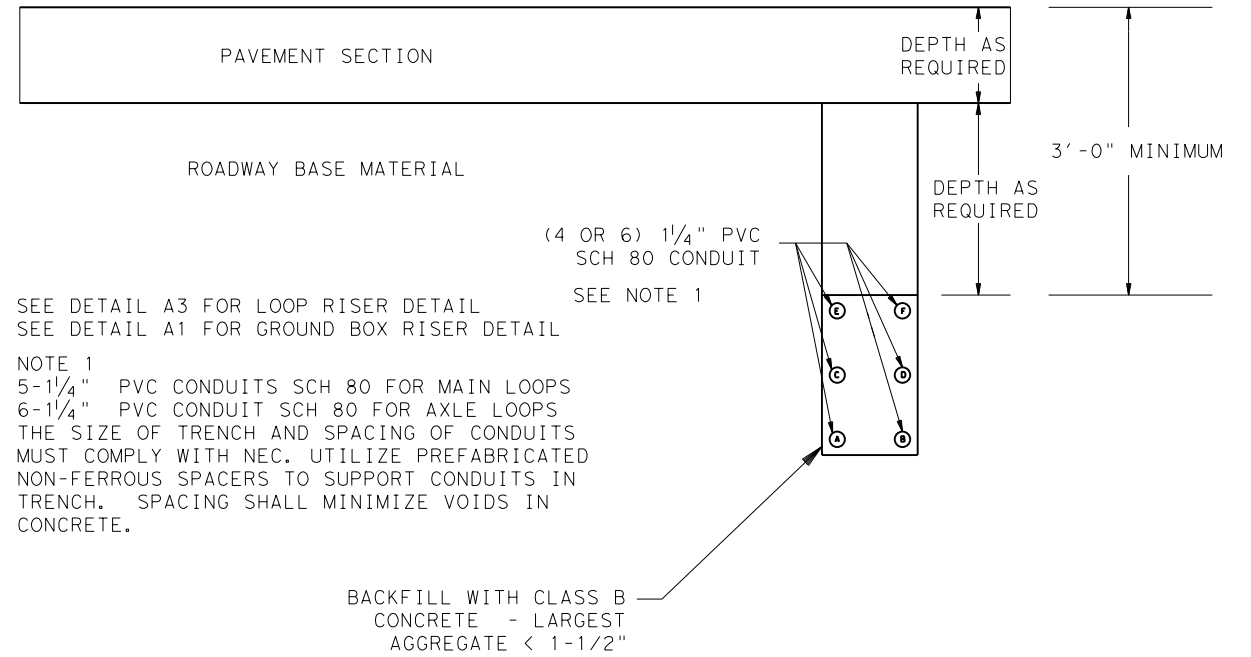
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			HIGHWAY NO.



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 Date: 26-MAY-2015



**CONDUIT RISER DETAIL A1**  
 LOOP TAIL TO GROUND BOX  
 CONDUIT TRENCH DETAIL



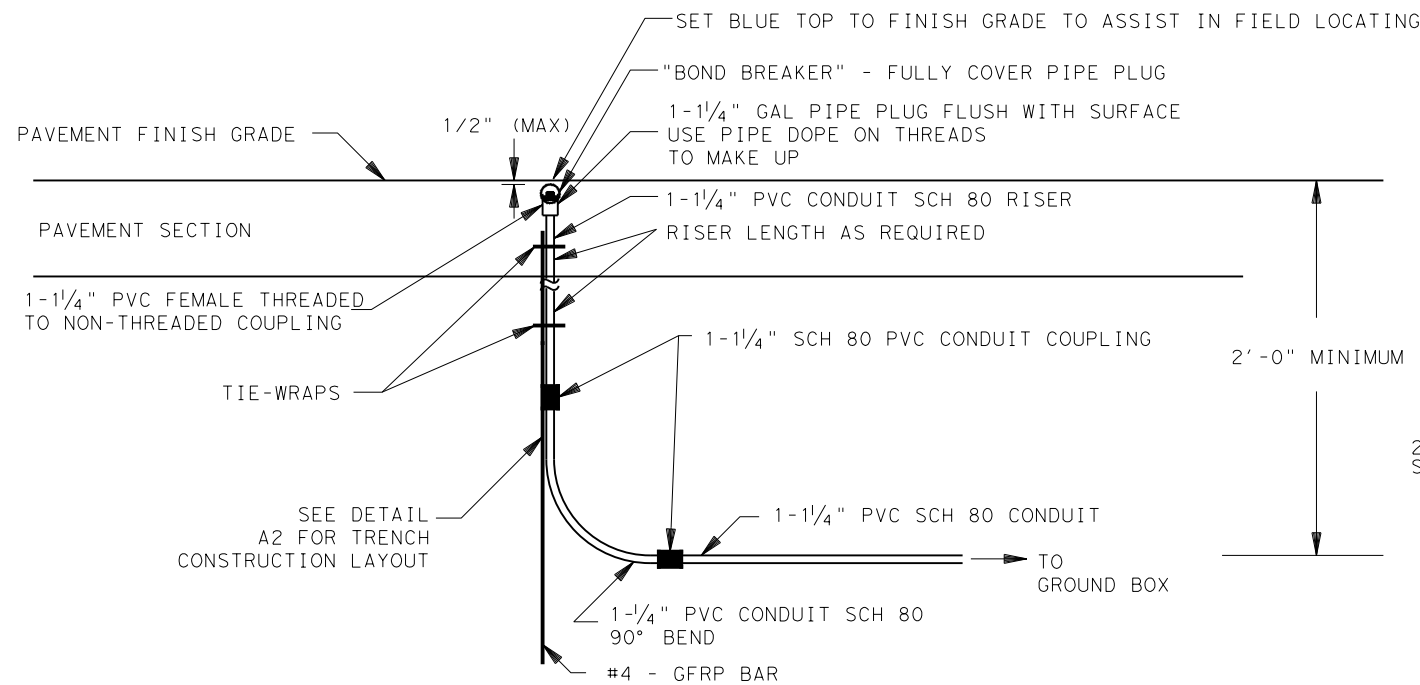
**CONDUIT RISER DETAIL A2**  
 LOOP TAIL TO GROUND BOX  
 CONDUIT TRENCH DETAIL

SEE DETAIL A3 FOR LOOP RISER DETAIL  
 SEE DETAIL A1 FOR GROUND BOX RISER DETAIL

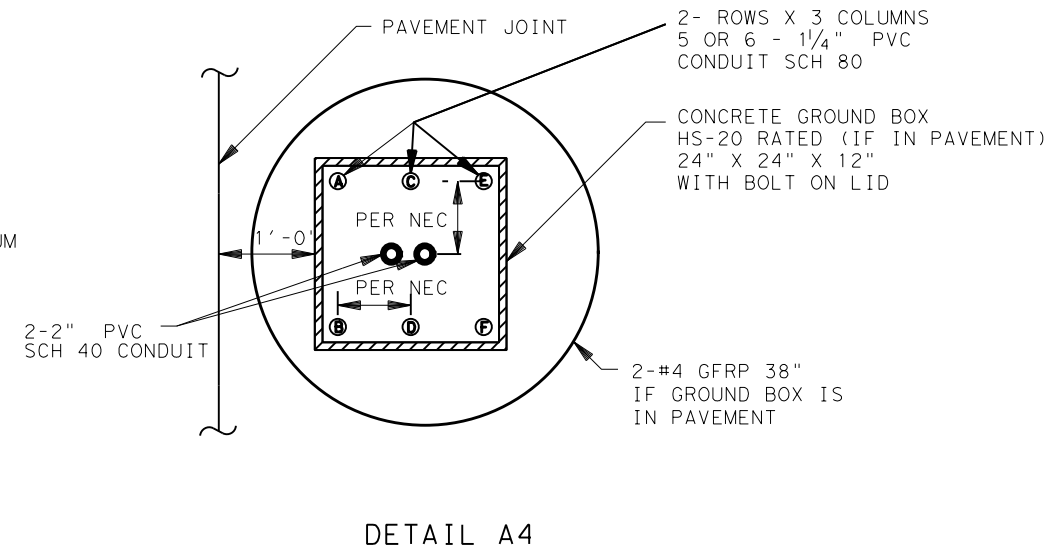
**NOTE 1**  
 5-1/4\"/>

BACKFILL WITH CLASS B  
 CONCRETE - LARGEST  
 AGGREGATE < 1-1/2"

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**CONDUIT RISER DETAIL A3**  
 LOOP TAIL TO GROUND BOX  
 CONDUIT LOOP RISER DETAIL



**DETAIL A4**

NOT TO SCALE

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**FIXED PRICE  
 TOLLING GUIDELINES  
 CONDUIT RISER  
 DETAILS**

A1-A4

DESIGNED BY:	FED. RD. DIV. NO.	FEDERAL AID PROJECT NO.	SHEET NO.
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DRAWN BY:	STATE	DIST.	COUNTY
DW	TEXAS	AUS.	
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KK			HIGHWAY NO.

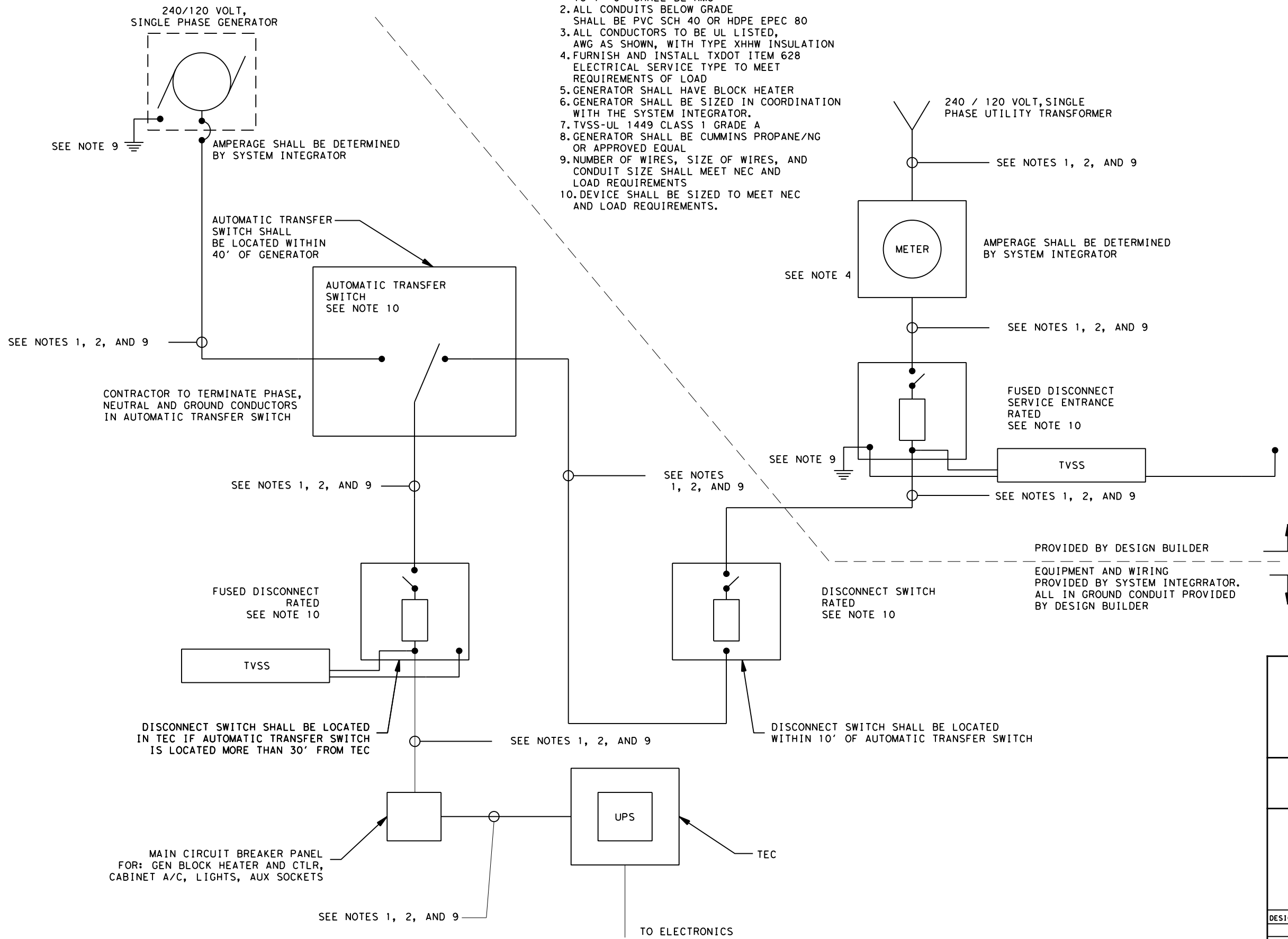
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NOTES:

- 1) ALL INFORMATION REGARDING EXISTING ITS INFRASTRUCTURE SHOWN HAS BEEN TAKEN FROM RECORD PLANS AND/OR FILES.
- 2) ALL LOCATIONS SHOWN ARE APPROXIMATE ONLY, FINAL LOCATION TO BE DETERMINED BY DESIGN BUILD CONTRACTOR AND APPROVED BY CTRMA.

NOTES

1. ALL CONDUITS ABOVE GRADE TO 1'-0" SHALL BE RMC
2. ALL CONDUITS BELOW GRADE SHALL BE PVC SCH 40 OR HDPE EPEC 80
3. ALL CONDUCTORS TO BE UL LISTED, AWG AS SHOWN, WITH TYPE XHHW INSULATION
4. FURNISH AND INSTALL TXDOT ITEM 628 ELECTRICAL SERVICE TYPE TO MEET REQUIREMENTS OF LOAD
5. GENERATOR SHALL HAVE BLOCK HEATER
6. GENERATOR SHALL BE SIZED IN COORDINATION WITH THE SYSTEM INTEGRATOR.
7. TVSS-UL 1449 CLASS 1 GRADE A
8. GENERATOR SHALL BE CUMMINS PROPANE/NG OR APPROVED EQUAL
9. NUMBER OF WIRES, SIZE OF WIRES, AND CONDUIT SIZE SHALL MEET NEC AND LOAD REQUIREMENTS
10. DEVICE SHALL BE SIZED TO MEET NEC AND LOAD REQUIREMENTS.



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FIXED PRICE  
 TOLLING GUIDELINES  
 TOLL GANTRY ELECTRICAL  
 SINGLE-LINE DRAWING

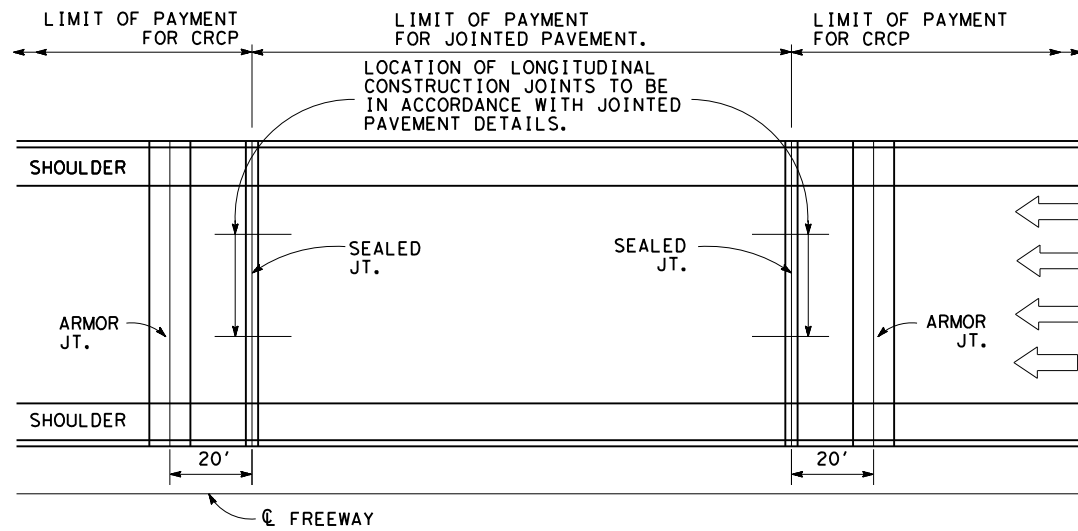
DESIGNED BY:		FED. RD. DIV. NO.		FEDERAL AID PROJECT NO.		SHEET NO.	
6		6		6		20	
DRAWN BY:	STATE	DIST.	COUNTY				
DW	TEXAS	AUS.					
CHECKED BY:	CONT.	SECT.	JOB	HIGHWAY NO.			
KK							



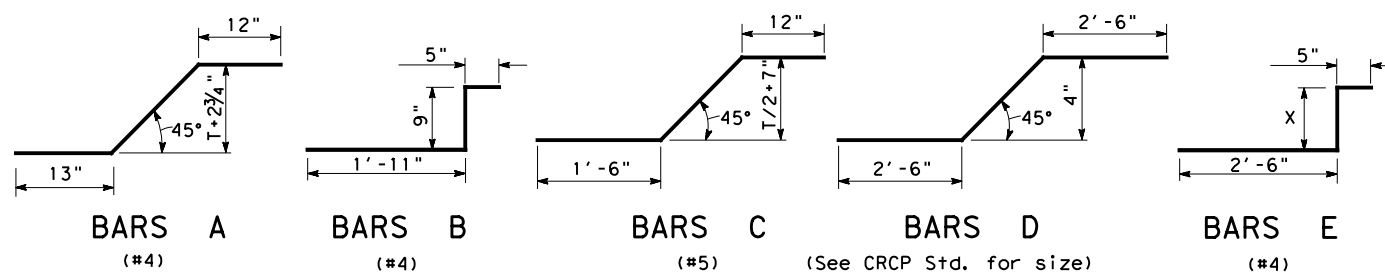


Scale: 1:230  
 Plotted on: \$DATE\$

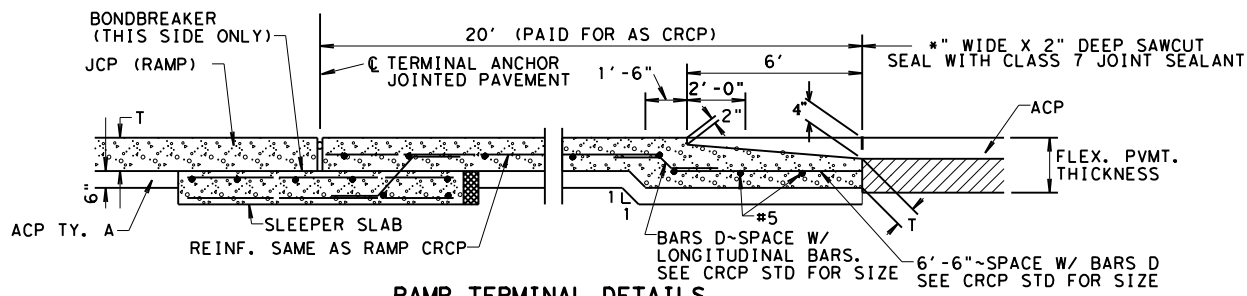
Pen Table: \\ous00\pmor\k\Jobs\46837\*CTRMA\Loop1\ML\Project Development\Design\CAD Files\PIOT\MOPAC\1117.dgn  
 Design File Name: \\ous00\pmor\k\Jobs\46837\*CTRMA\183A Operations and Maintenance\Tolling\New Fixed Price Tolling Standards\TAJ-JCP.dgn



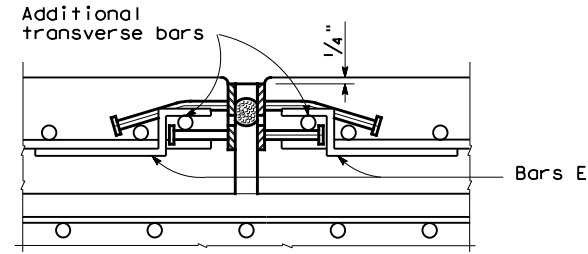
**TYPICAL FREEWAY LAYOUT  
 CONCRETE MEDIAN AND SHOULDERS**  
 (SHOWING 2 TERMINAL ANCHORS)



T	X
8"	2 1/4"
9"	2 3/4"
10"	3 1/4"
11"	3 3/4"
12"	4 1/4"
13"	4 3/4"

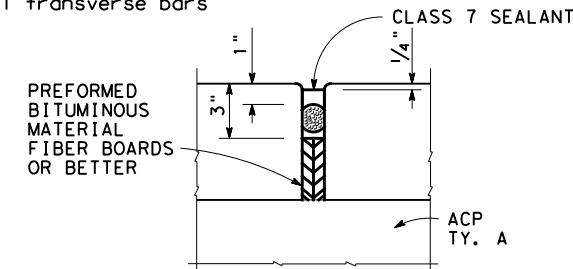


**RAMP TERMINAL DETAILS**



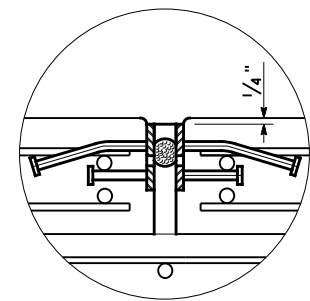
**SINGLE LAYER REINFORCEMENT**

Two additional transverse bars shall be placed to engage Nelson Studs when single layer of continuous steel is present. Bars E shall be placed along longitudinal bars to engage additional transverse bars



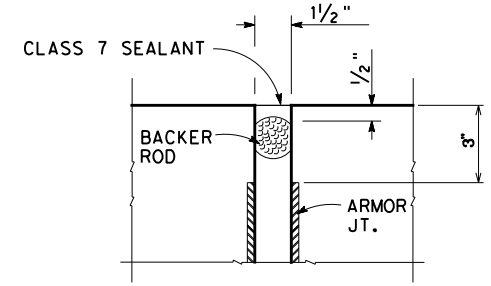
**SEALED JOINT**

1/4" to 3/8" radius tool to be used at concrete edge. Joint shall be cleaned prior to sealing



**OPTIONAL ARMOR JT DESIGN**

Note: Armor Joint may be depressed by 1/4" across roadway for construction concerns. 1/4" to 3/8" radius tool to be used at concrete edge. Optional Armor Joint design shall not be used at abutment.



**PLAN VIEW**

**TREATMENT OF VERTICAL EDGE**

Vertical edge shall be sealed with backer rod and class 7 sealant flush with pavement edge. Horizontal limits of backer rod along the length of the armor joint shall be extended to the outside of pavement. Joint shall be cleaned prior to sealing.

**NOTES:**

POLYETHYLENE FOAM (6# DENSITY), SAW CUTS, EXPANSION JOINTS, AND EXPANSION JOINT MATERIALS SUBSIDIARY TO PERTINENT ITEM.

SUPPORT SLAB AND SLEEPER SLAB SHALL BE PAID FOR IN ACCORDANCE WITH SPECIAL SPECIFICATION ITEM "TERMINAL ANCHORAGE SYSTEM".

EXCAVATION OF A.C.P. IN VICINITY OF SLEEPER AND SUPPORT SLABS SUBSIDIARY TO PERTINENT ITEM.

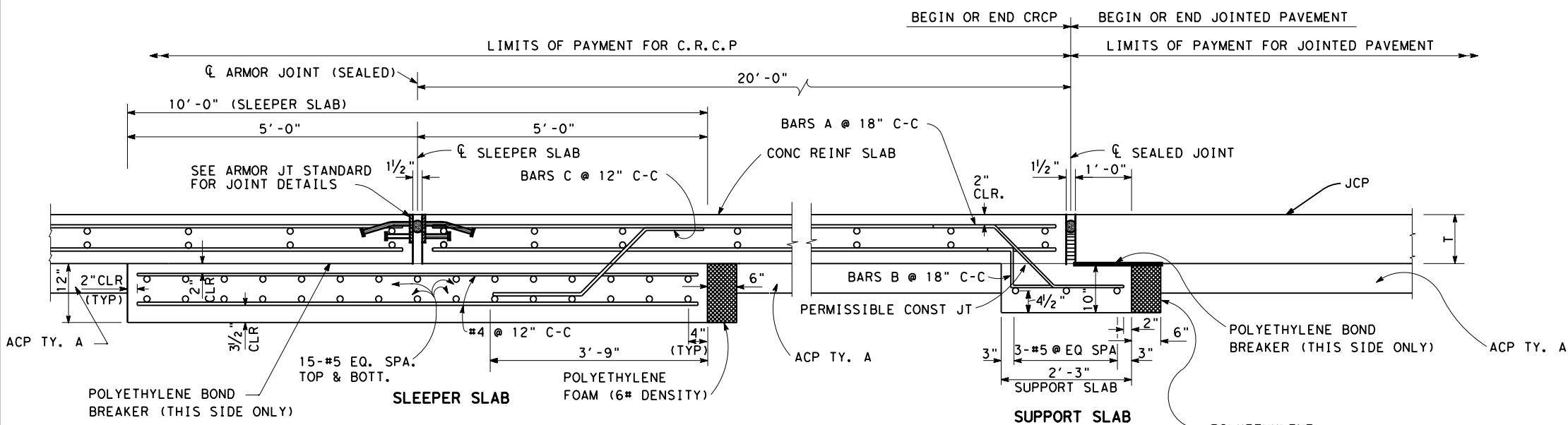
SEE C.R.C.P. STANDARD FOR LOCATION OF REINFORCEMENT AND DETAILS. C.R.C.P. IN VICINITY OF SLEEPER AND SUPPORT SLAB TO BE PAID UNDER PERTINENT ITEM

JOINTED CONCRETE PAVEMENT (JCP) DETAILS ARE SHOWN ELSEWHERE IN THE PLANS.

DETAILS FOR PAVEMENT WIDTH, AND CROWN CROSS-SLOPE SHALL BE AS SHOWN ELSEWHERE ON THE PLANS.

ITEM	PAVEMENT THICKNESS (INCHES)								
	8	9	10	11	12	13	14	15	
SLEEPER SLAB	CONC (TERM ANCH)	0.37 CY/LF	0.37 CY/LF	0.37 CY/LF	0.37 CY/LF	0.37 CY/LF	0.37 CY/LF	0.37 CY/LF	0.37 CY/LF
	REINF STL (TERM ANCH)	49.0 LBS/LF	49.1 LBS/LF	49.2 LBS/LF	49.3 LBS/LF	49.5 LBS/LF	49.6 LBS/LF	49.7 LBS/LF	49.8 LBS/LF
	UNCL EXCAV (TERM ANCH)	0.19 CY/LF	0.19 CY/LF	0.19 CY/LF	0.19 CY/LF	0.19 CY/LF	0.19 CY/LF	0.19 CY/LF	0.19 CY/LF
SUPPORT SLAB	CONC (TERM ANCH)	0.07 CY/LF	0.07 CY/LF	0.07 CY/LF	0.07 CY/LF	0.07 CY/LF	0.07 CY/LF	0.07 CY/LF	0.07 CY/LF
	REINF STL (TERM ANCH)	7.3 LBS/LF	7.4 LBS/LF	7.5 LBS/LF	7.5 LBS/LF	7.6 LBS/LF	7.7 LBS/LF	7.8 LBS/LF	7.9 LBS/LF
	UNCL EXCAV (TERM ANCH)	0.03 CY/LF	0.03 CY/LF	0.03 CY/LF	0.03 CY/LF	0.03 CY/LF	0.03 CY/LF	0.03 CY/LF	0.03 CY/LF

**ESTIMATED QUANTITIES (FOR ONE TERMINAL ANCHOR)**



**SECTION THRU TERMINAL ANCHORAGE**  
 (SHOWING ONE TERMINAL ANCHOR)

Texas Department of Transportation  
 Austin District Design

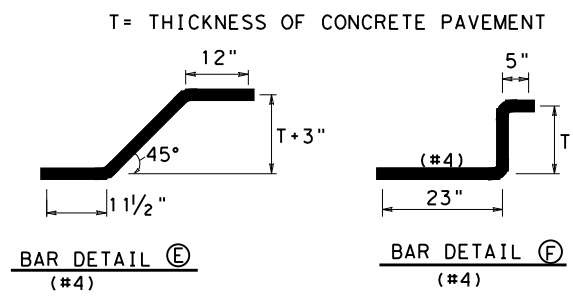
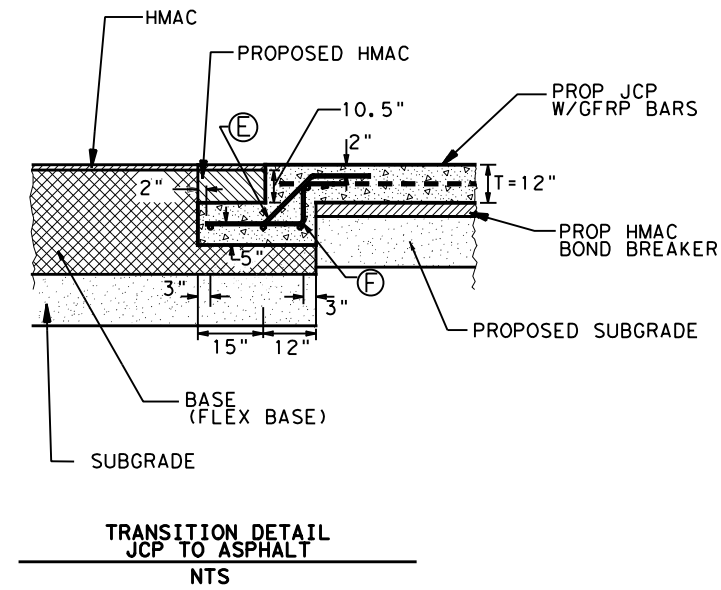
**TERMINAL ANCHOR  
 JOINT - JOINTED**

**TAJ-1**

Austin District Standard

© TXDOT 2006	DIST	FED REG	FEDERAL AID PROJECT	SHEET
REVISIONS	AUS	6		22
	COUNTY	CONTROL	SECT	JOB
				HIGHWAY

Pen Table: \\ousw00\pmwork\Jobs\46837\*CTRMA\Loop\*1\*ML\Project Development\Design\CAD Files\Plot\MOPAC\*11X17.dgn  
 Design Filename: \\ousw00\pmwork\Jobs\46837\*CTRMA\183A Operations and Maintenance\Tolling\New Fixed Price Tolling Standards\ Pavmt Jointing PlanDetail.dgn  
 Scale: 1:5  
 Date: 26-MAY-2015



NOTE: STEEL REINFORCING ALLOWED FOR BARS E AND F AND SPACED AT 18" C-C

- GENERAL NOTES
- DESIGN-BUILDER TO COORDINATE WITH SYSTEM INTEGRATOR FOR ACTUAL JOINT LOCATIONS.
  - TRANSVERSE JOINT SPACINGS SHOWN ARE MEASURED ALONG THE OUTSIDE EDGE OF PAVEMENT. TRANSVERSE JOINTS SHALL BE RADIAL TO THE BASELINE.
  - PROVIDE BOTH MEMBRANE AND WET MAT CURING. PLACE MEMBRANE CURING IMMEDIATELY AFTER TEXTURING. PROVIDE WET MAT CURING IN ACCORDANCE WITH TXDOT ITEM 420, AFTER MEMBRANE CURING HAS BEEN APPLIED AND AS SOON AS PRACTICAL SO AS NOT TO DAMAGE THE SURFACE FINISH.
  - SAW JOINTS TO A DEPTH OF 3" OR THE PAVEMENT THICKNESS DIVIDED BY FOUR (4), WHICHEVER IS GREATER, AS SOON AS SAWING CAN BE ACCOMPLISHED WITH ONLY MINOR RAVELING AND COMPLETE SAWING BEFORE THE PAVEMENT BEGINS TO COOL. FOR EACH CONCRETE PLACEMENT INSTALL ONE OR MORE TEMPERATURE SENSORS, 1" BELOW THE SURFACE AND MONITOR TO INSURE TEMPERATURE REQUIREMENTS ARE MET.

**INTERIM REVIEW ONLY**  
 Document incomplete: not intended for permit, bidding or construction.  
 Engineer: KRIS Z. KEITH  
 P.E. Serial No.: 93753  
 Date: 26-MAY-2015

NOT TO SCALE

**HNTB**      HNTB Corporation  
 The HNTB Companies  
 Engineers Architects Planners  
 TBPE FIRM REGISTRATION NO.: 420

CENTRAL TEXAS  
 Regional Mobility Authority

**FIXED PRICE  
 TOLLING GUIDELINES  
 CONCRETE TO ASPHALT  
 TRANSITION DETAIL**

CATD-1

DESIGNED BY:	FED. RD. DIV. NO.	FEDERAL AID PROJECT NO.	SHEET NO.
	6		23
DRAWN BY:	STATE	DIST.	COUNTY
DW	TEXAS	AUS	
CHECKED BY:	CONT.	SECT.	JOB HIGHWAY NO.
KK			



**ATTACHMENT E**

**FEE SCHEDULE/BUDGET**  
**Manor Expressway (290E) Phase III Project**

**290 Phase III Pricing Submittal**

PRICE SHEET						
CTRMA 290 Phase III						
Toll System Installation/Integration						
Task No.	Description	Qty	Unit	Unit Price (US \$'s)	Extended Price (US \$'s)	
	System Integration					
1	Toll Zone - Materials / Equipment	1	Lot	569,287.51	569,287.51	
2	Corridor Devices: Equip & Install	1	Lot	99,063.35	99,063.35	
3	Program Management	1	Lot	206,439.34	206,439.34	
4	Systen Design & Documentation	1	Lot	148,697.31	148,697.31	
5	NVDC	1	Lot	94,834.35	94,834.35	
6	System Integration/Testing	1	Lot	281,465.07	281,465.07	
7	Installation	1	Lot	268,112.65	268,112.65	
8	Fiber	1	Lot	54,922.45	54,922.45	
B	Bonding	1	LS	12,542.14	12,542.14	
<b>TOTAL</b>						<b>1,735,364.18</b>
<u>The Pricing shown above Excludes:</u>						
-- All Recurring Data Communication Costs						
-- Lane Closures & MOT (if needed)						
-- Recurring 3rd-Party SW/HW Support Agreements & SW Licenses						
-- Spares Replenishment Costs						
-- System HW/SW Warranty/Maintenance Services & Support						

**Labor Hours**

	<b>TOTAL A&amp;I HOURS (Excl's Optional Items &amp; Warr/Maint)</b>						
	<b>Total Hrs</b>	<b>Program Management</b>	<b>System Design &amp; Documentation</b>	<b>NVDC</b>	<b>System Integration/Testing</b>	<b>Installation</b>	<b>Fiber</b>
Database Administrator	-						
Database Developer	600		200	40	280	80	
Software Engineer - Image Processing	-		-		-		
Software Engineer - Real Time / OCR	840		120	80	520	120	
Software Managers / Leads	400		160	80	120	40	
Software Programmer - Web/Middle Tier	480		80	40	320	40	
Documentation / Technical Writer / CAD	240		80		80	80	
Test / QA Manager	160			80	80		
Test Engineer	320			80	240		
Network / Systems Administrator	80			40	40		
System Engineer	280		80		80	80	40
Sr. Project Manager	-						
Project Manager	1,470	980	160		80	240	10
Field Tech Team Lead	195		40		40	115	
Field Technician	385		55		55	275	
Installation/Field Manager/Supervisors	109	40				69	
Software Support (Maint)	-						
Customer Service Representative/Operator	-						
Other (Exec/Sr Mgmt, Prog Dir, PA, Support)	254	71	68	31	-	80	4
<b>TOTAL HOURS</b>	<b>5,812</b>	<b>1,091</b>	<b>1,043</b>	<b>471</b>	<b>1,935</b>	<b>1,218</b>	<b>54</b>

**ATTACHMENT F**

**PROJECT SCHEDULE AND MILESTONES**  
**Manor Expressway (290E) Phase III Project**  
*(Dates and Durations Subject to Change)*

<b>Task</b>	<b>Duration and/or Milestone Date</b>
Begin Construction (Approximate)	2018
Construction Duration (Approximate)	2 years
Open to Traffic (Interim Milestone, Approximate)	2020
Open to Traffic (Full Project, Approximate)	2020

Note: Dates and construction duration are preliminary. Contractor is to review the project baseline schedule prepared by the contractor for acceptance, and provide input in the development of the project schedule as it relates to the installation and testing of the toll collection and intelligent transportation systems.



**CENTRAL TEXAS  
Regional Mobility Authority**

May 31, 2017  
AGENDA ITEM #5

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Approve Personal Services Agreement with  
Neal Spelce for Communications Support  
Services

Strategic Plan Relevance:	Regional Mobility
Department:	Communications and Marketing
Contact:	Dee Anne Heath, Director of External Affairs
Associated Costs:	Not to exceed \$238,000
Funding Source:	Operating Fund
Board Action Required:	Consider and act on draft resolution

Summary:

Pursuant to Section 401.026 of the Mobility Authority Policy Code, the Executive Director must submit justification to the Board for entering into a single source contract. In order to maintain the continuity and level of expertise of the Communications and Marketing efforts, the Executive Director has determined that it is in the best interest of the Mobility Authority to contract directly with Neal Spelce (the Neal Spelce Company) as a single-sourced consultant for approximately two years.

Neal Spelce has been functioning as an integral part of the community and media outreach efforts for CTRMA. He has significant familiarity with the history of Central Texas and key stakeholders throughout the region and will help to develop an overall communications strategy to help educate Central Texans on CTRMA's role in transportation and quality of life solutions. (Approximate value of \$178,000)

In addition to the educational initiative, Neal Spelce has been critical to public outreach and media efforts for projects such as MoPac Improvement, 183 South and MoPac South. We anticipate continued community and media efforts on all three projects and his experience and expertise provide a consistent, respected and unique perspective. (Approximate value of \$60,000)

This agreement would be effective July 1, 2017 and extend through June 30, 2019 at which time we would re-assess communications needs consistent with the future needs of the Mobility Authority.

Backup Provided:	Draft Resolution Draft Personal Services Agreement
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**GENERAL MEETING OF THE BOARD OF DIRECTORS  
OF THE  
CENTRAL TEXAS REGIONAL MOBILITY AUTHORITY**

**RESOLUTION NO. 17-0XX**

**APPROVING A PERSONAL SERVICES AGREEMENT WITH NEAL SPELCE FOR  
COMMUNICATION AND OUTREACH SERVICES**

WHEREAS, the Mobility Authority is currently developing comprehensive communications plans to help educate Central Texans about mobility solutions and how they can improve their quality of life; and

WHEREAS, Neal Spelce has extensive experience and knowledge of communities affected by congestion as well as communities affected by the MoPac Improvement Project, the 183 South Project, the MoPac South Project, the 183 North Project and the Oak Hill Parkway Project and has been a valued contributor to the Mobility Authority's communications and outreach efforts; and

WHEREAS, the Executive Director recommends continuing to engage Neal Spelce for communication and outreach services; and

WHEREAS, the Executive Director and Neal Spelce have agreed to a personal services agreement in an amount not to exceed \$238,000, including a monthly retainer of \$8,000, a copy of which is attached to this resolution as Exhibit A.

NOW THEREFORE, BE IT RESOLVED, that the Board authorizes the Executive Director to finalize and execute the proposed agreement with Neal Spelce in the form or substantially the same form as Exhibit A; and

BE IT FURTHER RESOLVED pursuant to Section 401.0061 of the Policy Code, the Board exempts this personal services agreement from any competitive bidding or competitive proposal requirements otherwise applicable under the Policy Code.

Adopted by the Board of Directors of the Central Texas Regional Mobility Authority on the 31<sup>st</sup> day of May 2017.

Submitted and reviewed by:

Approved:

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

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

**Exhibit A**

# PERSONAL SERVICES AGREEMENT

**Date:** July 1, 2017  
**To:** Mike Heiligenstein, Executive Director  
**From:** Neal Spelce, d/b/a The Neal Spelce Company  
**Re:** FY 2018-2019 Working Arrangement

## Scope of Proposed Work

The Mobility Authority has identified a number of issues where Neal Spelce's communications experience, community involvement, visibility and reputation will be of tremendous value in message development and delivery for CTRMA as well as MoPac Improvement Project, 183 South, MoPac South, 183 North and Oak Hill Parkway projects.

Some examples include coordination with neighborhoods, as well as other areas of concern such as construction impact, sound walls, moving of trees, drainage flow, asbestos removal, bicycle/pedestrian and environmental improvements and understanding of the Mobility Authority's mission and role in the region.

Additionally, and at the request of the Mobility Authority, this may also include proactive measures and/or trouble-shooting to provide a better understanding with the community as well as maintaining a favorable relationship with this affected community and the public at large. Other selected assignments could include presentations, involvement of area public officials and civic organizations, input in public meeting preparations, MoPac Moment videos, It's Time podcasts, and responses to feedback from community members.

Neal Spelce has long advocated working on short-term action with long-term view. This would include, for example, involvement with messaging and strategy on educational and informative advertising and other vehicles for communication to target markets. It could also involve assessing opportunities/needs and impact of future projects (MoPac South, Oak Hill Parkway and 183 North) that are in various stages of planning and development.

Both parties understand the need to be prepared for unforeseen events that might occur during the term of this agreement. Therefore, we place a high priority on the ability to be nimble and react quickly.

### **Unique Background for this Consultation**

Neal has owned and operated a large Austin advertising, marketing and public relations firm, winning national accolades. For decades Neal Spelce was a highly-rated and national award-winning local TV news anchor and has a deep and unique understanding of media and their commitment to reporting information. Neal has also been named Austin's Most Worthy Citizen for his civic involvement that included service as Chair of the Austin Chamber of Commerce, Chair of United Way, Chair of Better Business Bureau, Chair of 15-County Capitol Area Boy Scouts of America, Founder and President of Austin Area Research Foundation (AARO), Chair of Leadership Austin, Chair of American Health and Fitness Foundation, holder of 3 communications degrees from the University of Texas at Austin.

This wide range of experience and community involvement also includes deep and expanding knowledge of Central Texas as exemplified by writing a well-circulated weekly newsletter since 1979 containing insights, perspectives and analysis of business public affairs, growth and development, transportation, real estate, education and environmental issues in the Austin area.

### **Contractual Terms**

I agree with work the agreed upon hours below to work on behalf of the Mobility Authority, with the understanding that those hours may fluctuate depending upon the Mobility Authority's requests.

I propose a monthly retainer between Neal Spelce and the Mobility Authority effective July 1, 2017, to terminate on June 30, 2019.

The monthly retainer is for a commitment of 10 hours per week, averaged over the preceding period, at a compensation of \$8,000 per calendar month. Starting July 28, 2017, and on the 28<sup>th</sup> day of each following month through June 2019, I will provide the Mobility Authority with an invoice that describes the services I provided to Mobility Authority (project specific work separated from CTRMA work) and noting the date and amount of time devoted to those services for the period covered by the invoice.

This agreement is intended to be effective on July 1, 2017, with the first retainer (for all services provided after July 1, 2017 and before July 29, 2017) payable on July 30, 2017. The remaining monthly retainers will be payable on the 29<sup>th</sup> day of each following month through June 2019.

In addition to the retainer payments, the Mobility Authority agrees to reimburse expenses that may be incurred by Neal Spelce on behalf of the Mobility Authority when the proposed expense is approved by the Mobility Authority in writing before the expense is incurred. Also, the Mobility Authority agrees to pay Neal Spelce for project specific work up and above the retainer (not to exceed \$60,000 each fiscal year) when the proposed project specific work is approved by the Mobility Authority before the work is initiated. It is understood the amount could be adjusted at any time depending upon the level of project specific work during the 2-year contract period.

This agreement may be terminated by Neal Spelce or the Mobility Authority at any time for convenience by written notice to the other party, with the retainer to be prorated as necessary and paid as of that termination date, together with any approved expenses that have been incurred but not reimbursed.

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Mike Heiligenstein, Executive Director

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Neal Spelce  
d/b/a The Neal Spelce Company



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

May 31, 2017  
AGENDA ITEM #6

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Approve the minutes from the April 26, 2017  
Regular Board meeting and from the May 15, 2017  
Board Workshop 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 April 26, 2017 Regular Board Meeting and the attached draft minutes for the May 15, 2017 Board Workshop.

Backup provided: Draft Minutes, April 26, 2017 Regular Board Meeting  
Draft Minutes, May 15, 2017 Board Workshop

## MINUTES

### Regular Meeting of the Board of

### Directors of the

### CENTRAL TEXAS REGIONAL MOBILITY AUTHORITY

**Wednesday, April 26, 2017**

The meeting was held in the Mobility Authority's Lowell H. H. Lebermann, Jr. Board Room at 3300 N. Interstate 35, #300, Austin, Texas 78705-1849. Notice of the meeting was posted April 19, 2017 at the respective County Court Houses 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:**

[www.mobilityauthority.com/about/vod.php](http://www.mobilityauthority.com/about/vod.php)

**1. Welcome and opening remarks by the Chairman and the members of the Board of Directors.**

After noting that a quorum of the Board was present, Chairman Ray Wilkerson called the meeting to order at 9:04 a.m. with the following Board members present: David Singleton, Nikelle Meade, Charles Heimsath, David Armbrust, Amy Ellsworth and Mark Ayotte.

**2. Opportunity for public comment.**

**3. Welcome newly appointed Board Member and administer the oath of office.**

Chairman Wilkerson introduced Mark Ayotte, the new Board member replacing Jim Mills, and administered the oath of office.

Chairman Wilkerson recessed the Board Meeting and reconvened as the Audit Committee.

**Audit Committee Meeting:**

David Singleton, Chairman of the Audit Committee called the Audit Committee Meeting to order at 9:08 a.m.

- A. Mary Temple, Controller introduced auditor Michael Brian and Tino Robledo, from RSM US, LLP.
- B. Accept the letter of engagement for annual independent auditing services.

Michael O’Brian and Tino Robledo, RSM US, LLP spoke on this item.

Chairman Wilkerson mentioned that the Mobility Authority complies annually with audits and accountability reports that include an Independent External Audit, a Single Audit required by the federal government, an annual report to County Commissioner Courts, the annual disclosure report sent to Southwest Securities and posted electronically on EMMA, and numerous other reports filed with the Texas Transportation Commission and other agencies.

Audit Committee Chairman Singleton entertained a motion to accept the letter of engagement.

**MOTION:** Accept the letter of engagement for annual independent auditing services.

**RESULT:** Approved (Unanimous); 7-0

**MOTION:** Charles Heimsath

**SECONDED BY:** David Armbrust

**AYE:** Wilkerson, Meade, Singleton, Heimsath, Armbrust, Ellsworth, Ayotte

**NAY:** None.

**ADOPTED AS:** **RESOLUTION NO. 17-019**

- C. Insurance Audit.

Bill Chapman, Chief Financial Officer presented this item. Mr. Chapman mentioned the Mobility Authority undergoes an insurance audit every three years as required by bond covenants.

- D. Adjourn Audit Committee.



After completing the Audit Committee, Chairman Singleton adjourned the Audit Committee meeting at 9:19 a.m. Chairman Wilkerson reconvened in open meeting at 9:20 a.m.

#### **Regular Board Items**

#### **4. Approve the minutes from the March 29, 2017 Regular Board Meeting.**

**MOTION:** Approval for the March 29, 2017, Board Meeting minutes.

**RESULT:** Approved (Mark Ayotte abstained); 6-0

**MOTION:** David Singleton

**SECONDED BY:** Charles Heimsath

**AYE:** Wilkerson, Meade, Singleton, Heimsath, Armbrust, Ellsworth

**NAY:** None.

#### **5. Accept the financial statements for March 2017.**

Mary Temple, Controller presented this item.

**MOTION:** Accept the March 2017 financial statements.

**RESULT:** Approved (Unanimous); 7-0

**MOTION:** Amy Ellsworth

**SECONDED BY:** Nikelle Meade

**AYE:** Wilkerson, Meade, Singleton, Heimsath, Armbrust, Ellsworth, Ayotte

**NAY:** None.

**ADOPTED AS:** RESOLUTION NO. 17-020

#### **6. Approve financial institutions and qualified brokers authorized to provide investment services and engage in investment transactions with the Mobility Authority and reaffirm the CTRMA investment policy.**

Bill Chapman, Chief Financial Officer, presented this item.

**MOTION:** Approve financial institutions and qualified brokers authorized to provide investment services and engage in investment transactions with the Mobility Authority.

**RESULT:** Approved (Unanimous); 7-0  
**MOTION:** Meade  
**SECONDED BY:** Heimsath  
**AYE:** Wilkerson, Meade, Singleton, Heimsath, Armbrust,  
Ellsworth, Ayotte  
**NAY:** None.

**ADOPTED AS: RESOLUTION NO. 17-021**

**7. Approve the annual compliance report to the Texas Department of Transportation required by 43 Texas Administrative Code § 26.65.**

Bill Chapman, Chief Financial Officer presented this item.

**MOTION:** Approve the annual compliance report to the Texas Department of Transpiration required by 43 Tex. Admin. Code § 26.65.

**RESULT:** Approved (Unanimous); 7-0  
**MOTION:** Heimsath  
**SECONDED BY:** Ayotte  
**AYE:** Wilkerson, Meade, Singleton, Heimsath, Armbrust,  
Ellsworth, Ayotte  
**NAY:** None.

**ADOPTED AS: RESOLUTION NO. 17-022**

**8. Exercise the option of the Mobility Authority under state law to develop, finance, construct, and operate the 183 North Project as a toll project.**

Justin Word, Director of Engineering presented this item.

**MOTION:** Exercise the option of the Mobility Authority under state law to develop, finance, construct, and operate the 183 North Project as a toll project.

**RESULT:** Approved (Unanimous); 7-0  
**MOTION:** Armbrust  
**SECONDED BY:** Meade  
**AYE:** Wilkerson, Meade, Singleton, Heimsath, Armbrust,  
Ellsworth, Ayotte  
**NAY:** None.

**ADOPTED AS: RESOLUTION NO. 17-022**

- 9. Discuss and consider approval of Amendment No. 4 to the Agreement for HNTB's General Consulting Civil Engineering Services and Supplement No. 4 to Work Authorization No. 16 for the MoPac Improvement Project.**

Justin Word, Director of Engineering provided presentation and mentioned this was a time extension only.

**MOTION:** Approve Amendment No. 4 to the HNTB Agreement for consulting engineering services and Supplement No. 4 to Work Authorization No. 16 for the MoPac Improvement Project.

**RESULT:** Approved (Unanimous); 7-0

**MOTION:** Heimsath

**SECONDED BY:** Meade

**AYE:** Wilkerson, Meade, Singleton, Heimsath, Armbrust, Ellsworth, Ayotte

**NAY:** None.

**ADOPTED AS: RESOLUTION NO. 17-023**

### **Briefings and Reports**

**10. Executive Director Report.**

A. Quarterly update on transportation projects under construction.

I. 183 South Project.

Justin Word, Director of Engineering, Steve Pustelnyk, Director of Community Relations, and Dan Freeman, GEC Deputy Project Manager, Atkins presented.

II. SH 45 SW Project.

Justin Word, Director of Engineering and Cris Peña, GEC Project Manager, RS&H presented.

III. MoPac Improvement Project.

Steve Pustelnyk, Director of Community Relations presented.

IV. Status of Change Orders.

Justin Word, Director of Engineering and Mike Heiligenstein, Executive Director presented.

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

- 11.** 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).
- 12.** Discuss legal issues relating to procurement and financing of Mobility Authority transportation projects, as authorized by §551.071 (Consultation with Attorney).
- 13.** Discuss personnel matters as authorized by §551.074 (Personnel Matters).

Chairman Wilkerson announced that the Board would not meet in Executive Session.

After confirming that no member of the public wished to address the Board, Chairman Wilkerson declared the meeting adjourned at 10:38 a.m.

**Minutes  
Board of Directors of the  
CENTRAL TEXAS REGIONAL MOBILITY AUTHORITY  
Workshop  
Monday, May 15, 2017**

**Hotel Ella – Azalea Meeting Rooms 1&2  
1900 Rio Grande  
Austin, TX**

*Items presented at the Workshop were for briefing and discussion only. The Board took no action. There is a Board Workshop PowerPoint containing additional information. The PowerPoint for the May 15, 2017 Board of Directors Workshop is available on the CTRMA website at the following link:*

<https://www.mobilityauthority.com/board-meetings/05-15-2017>

1. *Opening Remarks from Chairman Wilkerson and Executive Director Heiligenstein.*
  - a. After noting that a quorum of the Board was present, Chairman Ray Wilkerson called the workshop to order at 9:15am with the following Board Members present: David Singleton, Nikelle Meade, Charles Heimsath, David Armbrust, Amy Ellsworth, and Mark Ayotte.
2. *Public Comment*
  - a. No members of the public in attendance.
3. *National/State/Local Legislative:* Presenters: Karen Johnson/ISI Consulting, Jerry Valdez/Valdez Government Affairs, Brian Cassidy/Locke Lorde, and Ashby Johnson, Capital Area Metropolitan Organization (CAMPO).
  - a. Karen Johnson/ISI Consulting: Provided transportation updates on the federal level and described what is included in the proposed \$1 Trillion Transportation plan, and ways in which it might be funded.
  - b. Jerry Valdez/Valdez Government Affairs. Provided status update on Texas Legislation regarding transportation bills affecting the RMAs. Also, described the bill process and how bills are amended.
  - c. Brian Cassidy/Locke Lord: Discussed in detail the various transportation bills that directly affect the RMAs, focusing on anti-toll bills such as Sunset Review. Described how many have now been funneled down a select few that he cited as fundamentally problematic for the RMAs.

- d. Ashby Johnson/CAMPO discussed the Regional Transportation Plan.
  - i. Provided background on CAMPO, its organizational structure and the long-term transportation plan and how it becomes implemented. Discussed the status of the CDA Bill and the projects that would be affected by its outcome.
  - ii. Discussed the possibility of the RMA having a seat on CAMPO's board.
4. *Financial Report*: Presenters: Bill Chapman, Vince Dolan and Prakash Ganesh with KPMG).
5. *Project Report*: Presenters: Justin Word and Jeff Dailey
6. *Ethics Presentation*: Presenter: Geoff Petrov
7. *Consensus building on regional solutions*: Presenters: Bill Ihlo / Stantec, Matthew Jukes / Kapsch, Clarke Heidrick / AARO. Tina Geiselbrecht / Texas Transportation Institute also present.
  - a. Bill Ihlo/Stantec – discussed how we determine toll rate increases.
  - b. Matthew Jukes/Kapsch – Discussed ways in which the RMA can partner with local agencies to address future mobility in the region
  - c. Clarke Heidrick/AARO: Discussed AARO's (Austin Area Research Organization) background, organizational structure, and purpose, specifically how their organization is connected with transportation throughout the region covering six counties in Central Texas.

NOTE: The Board Members had discussions and provided comments and feedback throughout the Workshop as each item was presented instead of reserving discussion and comments for Items 8 & 9.

8. Roundtable Discussion (Board and staff roles, practices, and procedures)
9. Closing Comments and Feedback
10. Adjourn Meeting

Chairman Wilkerson declared the Board Workshop adjourned at 3:30pm.



**CENTRAL TEXAS  
Regional Mobility Authority**

May 31, 2017  
AGENDA ITEM #7

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Accept the financial statements for  
April 2017

Strategic Plan Relevance: Regional Mobility  
Department: Finance  
Contact: Bill Chapman, Chief Financial Officer  
Associated Costs: N/A  
Funding Source: N/A  
Action Requested: Consider and act on draft resolution

Summary:

Presentation and acceptance of the monthly financial statements for April 2017.

Backup Provided: Draft Resolution  
Draft financial statements for April 2017.

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

**RESOLUTION NO. 17-0XX**

**ACCEPT THE FINANCIAL STATEMENTS FOR APRIL 2017**

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 April 2017, 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 accept the Financial Statements for April 2017, attached as Exhibit A.

Adopted by the Board of Directors of the Central Texas Regional Mobility Authority on the 31<sup>st</sup> day of May 2017.

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**  
**For the Period Ending April 30, 2017**

	Budget Amount FY 2017	Actual Year to Date	Percent of Budget	Actual Prior Year to Date
<b>REVENUE</b>				
<b>Operating Revenue</b>				
Toll Revenue - Tags	46,555,037	44,758,963	96.14%	38,655,752
Video Tolls	16,030,043	11,711,748	73.06%	9,889,060
Fee Revenue	6,876,980	4,681,632	68.08%	3,892,128
<b>Total Operating Revenue</b>	<b>69,462,060</b>	<b>61,152,343</b>	<b>88.04%</b>	<b>52,436,940</b>
<b>Other Revenue</b>				
Interest Income	250,000	774,626	309.85%	1,364,695
Grant Revenue	700,000	19,428,596	2775.51%	65,453,856
Reimbursed Expenditures	1,555,396	207,873	13.36%	2,849
Misc Revenue	-	6,010	-	48,322
<b>Total Other Revenue</b>	<b>2,505,396</b>	<b>20,417,105</b>	<b>814.93%</b>	<b>66,869,723</b>
<b>TOTAL REVENUE</b>	<b>\$71,967,456</b>	<b>\$81,569,447</b>	<b>113.34%</b>	<b>119,306,662</b>
<b>EXPENSES</b>				
<b>Salaries and Benefits</b>				
Salary Expense-Regular	2,967,036	2,647,133	89.22%	2,365,632
Salary Reserve	80,000	-	-	-
TCDRS	415,385	367,202	88.40%	326,354
FICA	128,873	119,578	92.79%	109,405
FICA MED	45,627	38,864	85.18%	34,433
Health Insurance Expense	332,091	284,476	85.66%	214,306
Life Insurance Expense	14,167	6,871	48.50%	3,623
Auto Allowance Expense	10,200	8,500	83.33%	8,500
Other Benefits	269,785	180,915	67.06%	154,894
Unemployment Taxes	15,463	4,231	27.36%	4,404
<b>Total Salaries and Benefits</b>	<b>4,278,627</b>	<b>3,657,771</b>	<b>85.49%</b>	<b>3,221,551</b>

**Central Texas Regional Mobility Authority**  
**Income Statement**  
**For the Period Ending April 30, 2017**

	Budget Amount FY 2017	Actual Year to Date	Percent of Budget	Actual Prior Year to Date
<b>Administrative</b>				
<b>Administrative and Office Expenses</b>				
Accounting	20,000	6,449	32.24%	15,173
Auditing	74,000	53,880	72.81%	36,247
Human Resources	30,000	14,095	46.98%	20,159
IT Services	88,000	60,295	68.52%	49,042
Internet	1,700	2,001	117.73%	4,769
Software Licenses	55,725	61,601	110.54%	22,157
Cell Phones	14,542	12,844	88.33%	9,493
Local Telephone Service	12,000	12,947	107.89%	11,931
Overnight Delivery Services	850	63	7.39%	119
Local Delivery Services	1,050	-	-	276
Copy Machine	12,000	12,776	106.47%	11,666
Repair & Maintenance-General	1,000	2,030	203.00%	2,950
Meeting Facilities	1,000	-	-	-
Community Meeting/ Events	2,000	-	-	616
Meeting Expense	15,250	7,469	48.98%	6,378
Public Notices	2,000	25	1.25%	-
Toll Tag Expense	1,900	1,024	53.87%	810
Parking	3,600	1,313	36.48%	2,364
Mileage Reimbursement	11,200	3,811	34.03%	3,564
Insurance Expense	150,000	123,573	82.38%	108,409
Rent Expense	558,000	443,823	79.54%	393,595
Legal Services	525,000	41,872	7.98%	96,481
<b>Total Administrative and Office Expenses</b>	<b>1,580,817</b>	<b>861,891</b>	<b>54.52%</b>	<b>796,198</b>
<b>Office Supplies</b>				
Books & Publications	6,150	730	11.86%	1,082
Office Supplies	21,000	14,632	69.68%	17,830
Computer Supplies	17,000	11,452	67.37%	12,063
Copy Supplies	2,500	764	30.58%	1,760
Other Reports-Printing	10,000	6,054	60.54%	5,088
Office Supplies-Printed	2,700	789	29.21%	3,214
Misc Materials & Supplies	3,750	1,098	29.29%	2,238
Postage Expense	5,850	358	6.12%	485
<b>Total Office Supplies</b>	<b>68,950</b>	<b>35,877</b>	<b>52.03%</b>	<b>43,760</b>

**Central Texas Regional Mobility Authority**  
**Income Statement**  
**For the Period Ending April 30, 2017**

	Budget Amount	Actual Year to	Percent of	Actual Prior Year
	FY 2017	Date	Budget	to Date
<b>Communications and Public Relations</b>				
Graphic Design Services	75,000	6,625	8.83%	20,335
Website Maintenance	140,000	104,270	74.48%	14,222
Research Services	105,000	87,828	83.65%	-
Communications and Marketing	469,900	282,751	60.17%	140,643
Advertising Expense	336,500	159,751	47.47%	115,035
Direct Mail	10,000	-	-	380
Video Production	35,000	8,820	25.20%	34,229
Photography	10,000	2,954	29.54%	9,232
Radio	10,000	-	-	-
Other Public Relations	125,000	5,000	4.00%	71,430
Promotional Items	10,000	972	9.72%	8,322
Displays	5,000	-	-	-
Annual Report printing	5,000	-	-	1,706
Direct Mail Printing	11,300	-	-	-
Other Communication Expenses	1,000	2,426	242.64%	802
<b>Total Communications and Public Relations</b>	<b>1,348,700</b>	<b>661,397</b>	<b>49.04%</b>	<b>416,337</b>
<b>Employee Development</b>				
Subscriptions	3,300	1,467	44.46%	8,550
Memberships	50,750	35,612	70.17%	38,336
Continuing Education	11,750	135	1.15%	331
Professional Development	6,700	-	-	303
Other Licenses	1,250	257	20.52%	430
Seminars and Conferences	44,000	21,344	48.51%	13,486
Travel	88,000	47,221	53.66%	49,781
<b>Total Employee Development</b>	<b>205,750</b>	<b>106,036</b>	<b>51.54%</b>	<b>111,217</b>
<b>Financing and Banking Fees</b>				
Trustee Fees	15,000	19,773	131.82%	12,900
Bank Fee Expense	8,000	4,803	60.03%	4,848
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>46,030</b>	<b>64.83%</b>	<b>35,433</b>
<b>Total Administrative</b>	<b>3,275,217</b>	<b>1,711,232</b>	<b>52.25%</b>	<b>1,402,945</b>

**Central Texas Regional Mobility Authority**  
**Income Statement**  
**For the Period Ending April 30, 2017**

	Budget Amount FY 2017	Actual Year to Date	Percent of Budget	Actual Prior Year to Date
<b>Operations and Maintenance</b>				
<b>Operations and Maintenance Consulting</b>				
GEC-Trust Indenture Support	165,000	97,799	59.27%	101,073
GEC-Financial Planning Support	10,500	47	0.45%	440
GEC-Toll Ops Support	45,000	20,558	45.68%	3,180
GEC-Roadway Ops Support	331,667	388,659	117.18%	292,114
GEC-Technology Support	40,000	19,026	47.56%	37,787
GEC-Public Information Support	30,000	52,700	175.67%	43,368
GEC-General Support	1,176,000	616,851	52.45%	341,374
General System Consultant	70,000	85,511	122.16%	136,208
Traffic and Revenue Consultant	80,000	68,937	86.17%	73,267
<b>Total Operations and Maintenance Consulting</b>	<b>1,948,167</b>	<b>1,350,089</b>	<b>69.30%</b>	<b>1,028,811</b>
<b>Roadway Operations and Maintenance</b>				
Roadway Maintenance	4,871,600	2,481,597	50.94%	993,491
Landscape Maintenance	5,000	-	-	108,103
Signal & Illumination Maint	20,000	25,041	125.21%	141,816
Maintenance Supplies-Roadway	45,000	396	0.88%	68,460
Tools & Equipment Expense	750	22	2.95%	475
Gasoline	6,000	4,940	82.34%	2,211
Repair & Maintenance-Vehicles	1,500	1,566	104.37%	7,621
Roadway Operations	-	-	-	521
Electricity - Roadways	180,000	124,961	69.42%	121,066
<b>Total Roadway Operations and Maintenance</b>	<b>5,129,850</b>	<b>2,638,523</b>	<b>51.43%</b>	<b>1,443,764</b>
<b>Toll Processing and Collection Expense</b>				
Image Processing	2,300,000	1,161,644	50.51%	1,463,653
Tag Collection Fees	3,240,000	3,015,537	93.07%	2,587,585
Court Enforcement Costs	40,000	11,416	28.54%	10,525
DMV Lookup Fees	5,000	397	7.93%	1,974
<b>Total Processing and Collection Expense</b>	<b>5,585,000</b>	<b>4,188,993</b>	<b>75.00%</b>	<b>4,063,737</b>

**Central Texas Regional Mobility Authority**  
**Income Statement**  
**For the Period Ending April 30, 2017**

	Budget Amount FY 2017	Actual Year to Date	Percent of Budget	Actual Prior Year to Date
<b>Toll Operations Expense</b>				
Facility maintenance	-	30	-	787
Generator Maintenance	-	-	-	5,512
Generator Fuel	6,000	58	0.96%	1,291
Fire and Burglar Alarm	500	276	55.27%	370
Elevator Maintenance	3,000	-	-	-
Refuse	1,200	1,181	98.40%	699
Pest Control	1,600	-	-	3,074
Custodial	2,500	-	-	1,313
Telecommunications	90,000	43,971	48.86%	63,370
Water	10,500	12,193	116.13%	9,086
Electricity	1,200	1,734	144.54%	-
ETC spare parts expense	1,600	-	-	-
Repair & Maintenance Toll Equip	275,000	11,928	4.34%	365,029
Law Enforcement	273,182	182,856	66.94%	178,233
ETC Maintenance Contract	1,755,098	966,626	55.08%	1,140,774
ETC Toll Management Center System Operation	49,098	73,647	150.00%	-
ETC Testing	10,000	-	-	-
<b>Total Toll Operations Expense</b>	<b>2,480,478</b>	<b>1,294,502</b>	<b>52.19%</b>	<b>1,769,539</b>
<b>Total Operations and Maintenance</b>	<b>15,143,495</b>	<b>9,472,107</b>	<b>62.55%</b>	<b>8,305,851</b>
<b>Other Expenses</b>				
<b>Special Projects and Contingencies</b>				
HERO	700,000	914,213	130.60%	911,814
Special Projects	125,000	12,027	9.62%	683,208
Other Contractual Svcs	105,000	67,728	64.50%	36,369
Contingency	300,000	10,578	3.53%	21,342
<b>Total Special Projects and Contingencies</b>	<b>1,230,000</b>	<b>1,004,547</b>	<b>81.67%</b>	<b>1,652,733</b>

**Central Texas Regional Mobility Authority**  
**Income Statement**  
**For the Period Ending April 30, 2017**

	Budget Amount	Actual Year to	Percent of	Actual Prior Year
	FY 2017	Date	Budget	to Date
<b>Non Cash Expenses</b>				
Amortization Expense	383,230	319,836	83.46%	319,358
Amort Expense - Refund Savings	1,027,860	860,539	83.72%	856,550
Dep Exp- Furniture & Fixtures	2,207	2,043	92.55%	1,104
Dep Expense - Equipment	9,692	12,829	132.37%	7,787
Dep Expense - Autos & Trucks	6,406	8,762	136.77%	4,312
Dep Expense-Buildng & Toll Fac	177,115	147,596	83.33%	147,596
Dep Expense-Highways & Bridges	22,012,091	14,602,232	66.34%	14,106,715
Dep Expense-Communic Equip	196,115	163,429	83.33%	163,429
Dep Expense-Toll Equipment	2,756,238	2,296,865	83.33%	2,294,852
Dep Expense - Signs	325,893	271,578	83.33%	271,578
Dep Expense-Land Improvemts	884,934	737,445	83.33%	737,445
Depreciation Expense-Computers	16,203	11,505	71.00%	13,610
<b>Total Non Cash Expenses</b>	<b>27,797,984</b>	<b>19,434,657</b>	<b>69.91%</b>	<b>18,924,337</b>
<b>Total Other Expenses</b>	<b>29,027,984</b>	<b>20,439,203</b>	<b>70.41%</b>	<b>20,577,069</b>
<b>Non Operating Expenses</b>				
Bond issuance expense	200,000	1,128,769	564.38%	177,924
Interest Expense	42,813,675	26,182,827	61.16%	34,660,565
Community Initiatives	100,000	28,500	28.50%	35,000
<b>Total Non Operating Expenses</b>	<b>43,113,675</b>	<b>27,340,096</b>	<b>63.41%</b>	<b>34,873,488</b>
<b>TOTAL EXPENSES</b>	<b>\$94,838,998</b>	<b>\$62,620,409</b>	<b>66.03%</b>	<b>\$68,380,904</b>
<b>Net Income</b>	<b>(\$22,871,542)</b>	<b>\$18,949,039</b>		<b>50,925,758</b>

**Central Texas Regional Mobility Authority**  
**Balance Sheet**  
**as of April 30, 2017**

	as of 04/30/2017	as of 04/30/2016
<b>ASSETS</b>		
<b>Current Assets</b>		
<b>Cash</b>		
Regions Operating Account	\$ 416,804	\$ 575,866
Cash in TexStar	655,148	582,231
Regions Payroll Account	78,066	54,465
<b>Restricted Cash</b>		
Goldman Sachs FSGF 465	245,370,134	332,914,322
Restricted Cash - TexSTAR	133,425,441	7,030,417
Overpayments account	165,348	133,797
<b>Total Cash and Cash Equivalents</b>	380,110,942	341,291,097
<b>Accounts Receivable</b>		
Accounts Receivable	14,485	14,485
Due From TTA	823,320	566,017
Due From NTTA	554,804	450,466
Due From HCTRA	658,798	798,947
Due From TxDOT	386,784	1,032,703
Interest Receivable	362,891	360,782
<b>Total Receivables</b>	2,801,082	3,223,399
<b>Short Term Investments</b>		
Agencies	157,611,481	217,797,320
<b>Total Short Term Investments</b>	157,611,481	217,797,320
<b>Total Current Assets</b>	540,523,504	562,311,816
<b>Total Construction in Progress</b>	479,331,270	297,089,527
<b>Fixed Assets (Net of Depreciation)</b>		
Computer	28,767	42,972
Computer Software	840,657	1,205,786
Furniture and Fixtures	15,682	32,006
Equipment	150	(4,415)
Autos and Trucks	53,237	21,888
Buildings and Toll Facilities	5,320,058	5,497,173
Highways and Bridges	602,032,940	611,085,270
Communication Equipment	54,992	251,108
Toll Equipment	14,959,830	17,716,068
Signs	10,984,778	11,310,671
Land Improvements	10,771,428	11,656,362
Right of way	87,944,995	86,849,829
Leasehold Improvements	152,029	164,808
<b>Total Fixed Assets</b>	733,159,543	745,829,526
<b>Other Assets</b>		
Intangible Assets-Net	102,489,326	12,043,873
2005 Bond Insurance Costs	4,537,050	4,750,558
Prepaid Insurance	62,640	59,025
Deferred Outflows (pension related)	780,064	-
Pension Asset	202,023	-
<b>Total Other Assets</b>	108,071,103	16,853,457
<b>Total Assets</b>	\$ 1,861,085,420	\$ 1,622,084,325



**Central Texas Regional Mobility Authority**  
**Balance Sheet**  
**as of April 30, 2017**

	as of 04/30/2017	as of 04/30/2016
<b>LIABILITIES</b>		
<b>Current Liabilities</b>		
Accounts Payable	\$ (188,150)	\$ 294,947
Construction Payable	315,676	3,118,236
Overpayments	167,868	136,012
Interest Payable	17,376,992	19,019,154
TCDRS Payable	55,343	63,915
Medical Reimbursement Payable	1,735	1,860
Due to Other Entities	6,677,954	749,715
Other	-	650,000
<b>Total Current Liabilities</b>	<b>24,407,418</b>	<b>24,033,838</b>
<b>Long Term Liabilities</b>		
Compensated Absences	138,927	189,089
Deferred Inflows (pension related)	172,017	-
<b>Long Term Payables</b>	<b>310,944</b>	<b>189,089</b>
<b>Bonds Payable</b>		
<b>Senior Lien Revenue Bonds:</b>		
Senior Lien Revenue Bonds 2010	68,153,634	115,061,728
Senior Lien Revenue Bonds 2011	14,287,931	309,365,339
Senior Refunding Bonds 2013	144,183,000	147,880,000
Senior Lien Revenue Bonds 2015	298,790,000	298,790,000
Senior Lien Put Bnd 2015	68,785,000	68,785,000
Senior Lien Refunding Revenue Bonds 2016	358,030,000	-
Sn Lien Rev Bnd Prem/Disc 2010	-	18,949
Sn Lien Rev Bnd Prem/Disc 2011	-	(3,274,058)
Sn Lien Rev Bnd Prem/Disc 2013	10,356,661	12,394,898
Sn Lien Revenue Bnd Prem 2015	22,173,271	23,369,776
Sn Lien Put Bnd Prem 2015	5,900,012	7,763,765
Senior lien premium 2016 revenue bonds	56,737,925	-
<b>Total Senior Lien Revenue Bonds</b>	<b>1,047,397,434</b>	<b>980,155,398</b>
<b>Sub Lien Revenue Bonds:</b>		
Subordinated Lien Bond 2011	-	70,000,000
Sub Refunding Bnds 2013	101,530,000	102,030,000
Sub Debt Refunding Bonds 2016	74,690,000	-
Sub Lien Bond 2011 Prem/Disc	-	(1,707,390)
Sub Refunding 2013 Prem/Disc	2,406,262	2,895,294
Sub Refunding 2016 Prem/Disc	10,170,444	-
<b>Total Sub Lien Revenue Bonds</b>	<b>188,796,706</b>	<b>173,217,904</b>
<b>Other Obligations</b>		
TIFIA note 2015	52,448	50,874
SIB loan 2015	30,371,574	38,025
State Highway Fund Loan 2015	30,371,574	38,025
2013 American Bank Loan	3,570,000	5,300,000
<b>Total Other Obligations</b>	<b>64,365,596</b>	<b>5,426,925</b>
<b>Total Long Term Liabilities</b>	<b>1,300,870,681</b>	<b>1,158,989,316</b>
<b>Total Liabilities</b>	<b>1,325,278,098</b>	<b>1,183,023,155</b>
<b>NET ASSETS</b>		
Contributed Capital	40,347,060	35,847,060
Net Assets Beginning	476,432,916	352,288,352
Current Year Operations	19,027,346	50,925,758
<b>Total Net Assets</b>	<b>535,807,322</b>	<b>439,061,171</b>
<b>Total Liabilities and Net Assets</b>	<b>\$ 1,861,085,420</b>	<b>\$ 1,622,084,325</b>

Central Texas Regional Mobility Authority  
Statement of Cash Flows  
as of April 30, 2017

**Cash flows from operating activities:**

Receipts from toll fees	\$	60,274,580
Receipts from other fees		213,883
Payments to vendors		(7,640,252)
Payments to employees		(3,573,224)
Net cash flows provided by (used in) operating activities		49,274,987

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

Proceeds from notes payable		49,341,509
Refunding of bonds		(12,817,762)
Receipts from Department of Transportation		101,631,827
Receipt from Hays County		4,500,000
Payments on interest		(28,625,042)
Acquisition of capital assets		(151,600)
Acquisitions of construction in progress		(172,037,395)
Net cash flows provided by (used in) capital and related financing activities		(60,388,463)

**Cash flows from investing activities:**

Interest income		2,253,640
Purchase of investments		(187,356,162)
Proceeds from sale or maturity of investments		119,095,797
Net cash flows provided by (used in) investing activities		(66,006,725)
Net increase (decrease) in cash and cash equivalents		(77,120,202)
Cash and cash equivalents at beginning of period		323,150,553
Cash and cash equivalents at end of February	\$	246,030,351

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

Operating income	\$	26,748,217
Adjustments to reconcile change in net assets to net cash provided by operating activities:		
Depreciation and amortization		18,574,118
Changes in assets and liabilities:		
Decrease in accounts receivable		(877,763)
(Increase) decrease in prepaid expenses and other assets		44,961
(Decrease) increase in accounts payable		(1,412,595)
Increase (decrease) in accrued expenses		6,198,048
Total adjustments		22,526,770
Net cash flows provided by (used in) operating activities	\$	49,274,987

**Reconciliation of cash and cash equivalents:**

Unrestricted cash and cash equivalents	\$	660,217
Restricted cash and cash equivalents		245,370,133
Total	\$	246,030,351

**INVESTMENTS by FUND**

		Balance April 30, 2017		
Renewal & Replacement Fund				
	TexSTAR	505,483.97		134,080,589.03
	Goldman Sachs	188,717.90		245,098,597.15
	Agencies		694,201.87	157,591,937.90
Grant Fund				\$ 536,771,124.08
	TexSTAR	4,097,599.77		
	Goldman Sachs	5,472,133.11		
	Agencies		9,569,732.88	
Senior Debt Service Reserve Fund				
	TexSTAR	10,631,181.14		
	Goldman Sachs	29,374,761.78		
	Agencies	39,991,741.51	79,997,684.43	
2010 Senior Lien DSF				
	Goldman Sachs	390,045.17		
	TexSTAR	-	390,045.17	
2011 Debt Service Acct				
	Goldman Sachs	751,671.23	751,671.23	
2013 Sr Debt Service Acct				
	Goldman Sachs	3,666,291.07	3,666,291.07	
2013 Sub Debt Service Account				
	Goldman Sachs	2,026,841.20	7,045,393.58	
	TexSTAR	5,018,552.38		
2015 Sr Capitalized Interest				
	Goldman Sachs	10,599,637.92	60,764,759.15	
	TexSTAR	50,165,121.23		
2015A Debt Service Account				
	Goldman Sachs	3.30	3.30	
2015B Debt Service Account				
	Goldman Sachs	1,147,439.93	1,147,439.93	
2016 Sr Lien Rev Refunding Debt Service Account				
	Goldman Sachs	8,633,251.82	8,633,251.82	
2016 Sub Lien Rev Refunding Debt Service Account				
	Goldman Sachs	1,254,856.74	1,254,856.74	
2016 Sub Lein Rev Refunding DSR				
	Goldman Sachs	6,641,416.82	6,641,416.82	
Operating Fund				
	TexSTAR	655,147.54		
	TexSTAR-Trustee	2,508,886.08		
	Goldman Sachs	-	3,164,033.62	
Revenue Fund				
	Goldman Sachs	3,171,223.82	3,171,223.82	
General Fund				
	TexSTAR	25,093,684.78		
	Goldman Sachs	24,497,157.50		
	Agencies	4,406,930.00	53,997,772.28	
2013 Sub Debt Service Reserve Fund				
	Goldman Sachs	3,475,561.34		
	Agencies		3,475,561.34	
71E Revenue Fund				
	Goldman Sachs	412,798.47	412,798.47	
MoPac Revenue Fund				
	Goldman Sachs	113,690.21	113,690.21	
MoPac Construction Fund				
	Goldman Sachs	43,738,282.01	43,738,282.01	
2011 Sub Debt Project fund				
	TexSTAR	-		
	Agencies			
	Goldman Sachs	0.00	0.00	
2015B Project Account				
	Goldman Sachs	5,044,569.73		
	Agencies	20,182,886.77	40,276,992.99	
	TexSTAR	15,049,536.49		
2015A Project Account				
	TexSTAR	5,299,738.33		
	Goldman Sachs	26,417,704.81		
	Agencies	63,134,156.70		
	Treasury Notes	29,876,222.92	124,727,822.76	
2015 TIFIA Project Account				
	Goldman Sachs	50,313.32	50,313.32	
2015 State Highway Fund Project Account				
	Goldman Sachs	29,606,453.91	29,606,453.91	
2015 SIB Project Account				
	Goldman Sachs	19,739,079.91	19,739,079.91	
2011 Sr Financial Assistance Fund				
	Goldman Sachs	11,457,690.16	26,513,347.48	
	TexSTAR	15,055,657.32		
Develper Deposits				
	Goldman Sachs	0.00	0.00	
183S Utility Custody Deposit				
	Goldman Sachs	5,826,249.35	5,826,249.35	
45SW Trust Account Hays County				
	Goldman Sachs	94,757.79	94,757.79	
45SW Trust Account Travis County				
	Goldman Sachs	1,305,996.83	1,305,996.83	
			\$ 536,771,124.08	\$ -

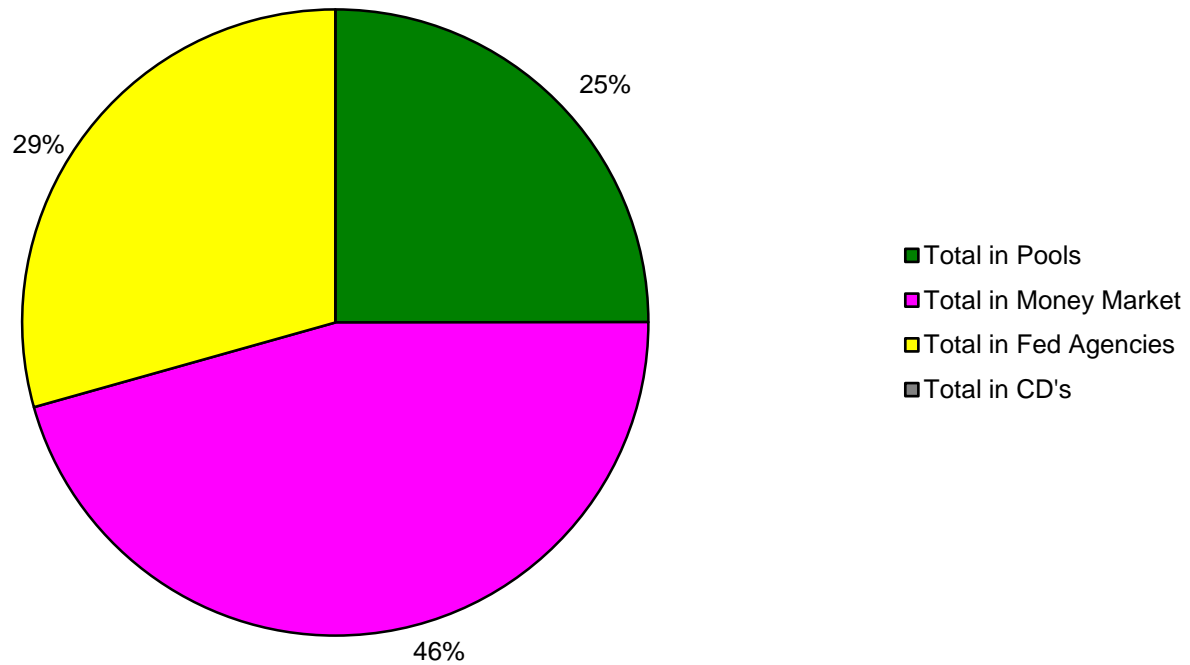
**CTRMA INVESTMENT REPORT**

	Month Ending 4/30/17					Rate April	
	Balance 4/1/2017	Additions	Discount Amortization	Accrued Interest	Withdrawals		Balance 4/30/2017
<b>Amount in Trustee TexStar</b>							
2011 Sr Lien Financial Assist Fund	15,046,827.94			8,829.38		15,055,657.32	0.714%
2013 Sub Lien Debt Service Reserve	5,015,609.27			2,943.11		5,018,552.38	0.714%
General Fund	25,078,968.60			14,716.18		25,093,684.78	0.714%
Trustee Operating Fund	2,402,869.35	1,704,501.33		1,515.40	1,600,000.00	2,508,886.08	0.714%
Renewal and Replacement	505,187.52			296.45		505,483.97	0.714%
Grant Fund	4,095,196.76			2,403.01		4,097,599.77	0.714%
Senior Lien Debt Service Reserve Fund	10,624,946.49			6,234.65		10,631,181.14	0.714%
2015A Sr Ln Project account	5,296,630.30			3,108.03		5,299,738.33	0.714%
2015A Sr Ln Project Cap Interest	50,135,701.94			29,419.29		50,165,121.23	0.714%
2015B Sr Ln Project	15,040,710.70			8,825.79		15,049,536.49	0.714%
	<b>133,242,648.87</b>	<b>1,704,501.33</b>		<b>78,291.29</b>	<b>1,600,000.00</b>	<b>133,425,441.49</b>	
<b>Amount in TexStar Operating Fund</b>	<b>554,792.55</b>	<b>1,600,000.00</b>		<b>354.99</b>	<b>1,500,000.00</b>	<b>655,147.54</b>	<b>0.714%</b>
<b>Goldman Sachs</b>							
Operating Fund	26,190.00	1,678,307.89		3.44	1,704,501.33	0.00	0.280%
45SW Trust Account Travis County	1,675,389.33			1,239.20	370,631.70	1,305,996.83	0.280%
45SW Trust Account Hays County	229,887.40			112.43	135,242.04	94,757.79	0.280%
2015A Project Account	20,434,957.47	8,000,000.00		117,618.86	2,134,871.52	26,417,704.81	0.280%
2015B Project Account	5,042,299.88			2,269.85		5,044,569.73	0.280%
2015D State Highway Fund Project Acct	29,593,029.59			13,424.32		29,606,453.91	0.280%
2015C TIFIA Project Account	50,290.51			22.81		50,313.32	0.280%
2015E SIB Project Account	19,730,129.71			8,950.20		19,739,079.91	0.280%
Developer Deposits	370.97			0.17	371.14	0.00	0.280%
183S Utility Custody Deposit	5,823,539.83			2,709.52		5,826,249.35	0.280%
2011 Sr Financial Assistance Fund	11,452,494.95			5,195.21		11,457,690.16	0.280%
2010 Senior DSF	389,868.31			176.86		390,045.17	0.280%
2011 Senior Lien Debt Service Acct	751,330.40			340.83		751,671.23	0.280%
2013 Senior Lien Debt Service Acct	2,751,305.07	913,901.08		1,084.92		3,666,291.07	0.280%
2013 Subordinate Debt Service Acct	1,520,014.53	506,227.52		599.15		2,026,841.20	0.280%
2015 Sr Capitalized Interest	10,594,831.78			4,806.14		10,599,637.92	0.280%
2015A Debt Service Acct	3.30					3.30	0.280%
2015B Debt Service Acct	860,710.00	286,390.62		339.31		1,147,439.93	0.280%
2016 Sr Lien Rev Refunding Debt Service Account	8,581,238.80	48,128.90		3,884.12		8,633,251.82	0.280%
2016 Sub Lien Rev Refunding Debt Service Account	941,803.16	312,682.17		371.41		1,254,856.74	0.280%
2016 Sub Lein Rev Refunding DSR	6,638,405.43			3,011.39		6,641,416.82	0.280%
Grant Fund	5,469,651.91			2,481.20		5,472,133.11	0.280%
Renewal and Replacement	188,632.33			85.57		188,717.90	0.280%
Revenue Fund	4,214,329.09	6,792,541.37		1,440.44	7,837,087.08	3,171,223.82	0.280%
General Fund	18,627,923.78	7,503,409.94		8,219.29	1,642,395.51	24,497,157.50	0.280%
Senior Lien Debt Service Reserve Fund	29,361,448.53			13,313.25		29,374,761.78	0.280%
MoPac Revenue Fund	73,003.01	40,656.64		30.56		113,690.21	0.280%
71E Revenue Fund	0.00	412,798.47		0.00		412,798.47	0.280%
2013 Sub Debt Service Reserve Fund	3,473,985.43			1,575.91		3,475,561.34	0.280%
MoPac Managed Lane Construction Fund	44,038,423.08	273,468.67		20,585.87	594,195.61	43,738,282.01	0.280%
	<b>232,535,487.58</b>	<b>26,768,513.27</b>	<b>0.00</b>	<b>213,892.23</b>		<b>245,098,597.15</b>	
<b>Amount in Fed Agencies and Treasuries</b>							
Amortized Principal	165,631,378.88		(39,440.98)		8,000,000.00	157,591,937.90	
	165,631,378.88	0.00	(39,440.98)	0.00	8,000,000.00	157,591,937.90	
<b>Certificates of Deposit</b>						0.00	
<b>Total in Pools</b>	133,797,441.42	3,304,501.33		78,646.28	3,100,000.00	134,080,589.03	
<b>Total in GS FSGF</b>	232,535,487.58	26,768,513.27		213,892.23		245,098,597.15	
<b>Total in Fed Agencies and Treasuries</b>	165,631,378.88	0.00	(39,440.98)		8,000,000.00	157,591,937.90	
<b>Total Invested</b>	<b>531,964,307.88</b>	<b>30,073,014.60</b>	<b>(39,440.98)</b>	<b>292,538.51</b>	<b>11,100,000.00</b>	<b>536,771,124.08</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 April 30, 2017

Agency	CUSIP #	COST	Book Value	Market Value	Yield to Maturity	Purchased	Matures	FUND
Federal Farm Credit	3133ECA79	4,959,250.00	4,987,548.61	4,987,450.00	1.2155%	3/11/2015	3/19/2018	Senior DSRF
Federal Farm Credit	3133EE4K3	24,928,346.00	24,988,442.90	24,993,250.00	0.7200%	1/13/2016	7/21/2017	Senior DSRF
Federal Farm Credit	3133EFSG3	10,057,749.23	10,025,075.20	9,999,800.00	0.8421%	2/8/2016	3/14/2018	2015B Sr Project
Federal Home loan Bank	313378QK0	10,253,642.07	10,157,811.57	10,095,000.00	1.0369%	2/8/2016	3/8/2019	2015B Sr Project
Freddie Mac	3137EADF3	16,124,658.17	16,007,585.69	16,002,400.00	0.6259%	2/9/2016	5/12/2017	2015A Sr Project
Freddie Mac	3134G4Z84	9,850,343.91	9,814,569.00	9,812,446.00	0.8097%	2/18/2016	10/10/2017	2015A Sr Project
Federal Home loan Bank	3030A62S5	6,984,310.89	6,996,407.07	6,996,220.00	0.9053%	3/14/2016	8/28/2017	2015A Sr Project
Fannie MAE	3135G0JA2	<b>Matured</b>	<b>Matured</b>	<b>Matured</b>	0.9023%	3/14/2016	4/27/2017	2015A Sr Project
Federal Home loan Bank	303370SZ2	14,536,023.18	14,313,560.71	14,313,127.50	0.9023%	3/7/2016	9/8/2017	2015A Sr Project
Federal Home loan Bank	3030A5QL6	8,000,900.56	8,000,112.57	7,999,920.00	0.7913%	3/4/2016	6/30/2017	2015A Sr Project
Federal Home loan Bank	313379FW4	8,027,415.64	8,001,921.66	8,001,520.00	0.7098%	3/30/2016	6/9/2017	2015A Sr Project
Federal Home loan Bank	3030A6SW8	10,039,900.00	10,015,750.00	9,996,400.00	0.7616%	4/11/2016	12/19/2017	Senior DSRF
Federal Home loan Bank	3030A6SW8	4,417,556.00	4,406,930.00	4,398,416.00	0.7616%	4/11/2016	12/19/2017	General
US Treasury Note	912828TB6	29,888,668.75	29,876,222.92	29,870,000.00	0.6266%	12/28/2016	6/30/2017	2015A Sr Project
		<u>158,068,764.40</u>	<u>157,591,937.90</u>	<u>157,465,949.50</u>				

Agency	CUSIP #	COST	Cummulative Amortization	4/30/2017 Book Value	Maturity Value	Interest Income April 30, 2017		
						Accrued Interest	Amortization	Interest Earned
Federal Farm Credit	3133ECA79	4,959,250.00	(28,298.61)	4,987,548.61	5,000,000.00	3,916.67	1,131.94	5,048.61
Federal Farm Credit	3133EE4K3	24,928,346.00	(60,096.90)	24,988,442.90	25,000,000.00	15,000.00	3,852.37	18,852.37
Federal Farm Credit	3133EFSG3	10,057,749.23	32,674.03	10,025,075.20	10,000,000.00	9,166.67	(2,279.58)	6,887.09
Federal Home loan Bank	313378QK0	10,253,642.07	95,830.50	10,157,811.57	10,000,000.00	15,625.00	(6,861.37)	8,763.63
Freddie Mac	3137EADF3	16,124,658.17	117,072.48	16,007,585.69	16,000,000.00	16,666.67	(7,585.69)	9,080.98
Freddie Mac	3134G4Z84	9,850,343.91	35,774.91	9,814,569.00	9,800,000.00	9,187.50	(2,428.16)	6,759.34
Federal Home loan Bank	3030A62S5	6,984,310.89	(12,096.18)	6,996,407.07	7,000,000.00	4,375.00	898.23	5,273.23
Fannie MAE	3135G0JA2	<b>Matured</b>	<b>Matured</b>	<b>Matured</b>	8,000,000.00	7,500.00	(2,354.14)	5,145.86
Federal Home loan Bank	303370SZ2	14,536,023.18	222,462.47	14,313,560.71	14,250,000.00	26,718.75	(15,890.18)	10,828.57
Federal Home loan Bank	3030A5QL6	8,000,900.56	787.99	8,000,112.57	8,000,000.00	5,333.33	(56.28)	5,277.05
Federal Home loan Bank	313379FW4	8,027,415.64	25,493.98	8,001,921.66	8,000,000.00	6,666.67	(1,921.66)	4,745.01
Federal Home loan Bank	3030A6SW8	10,039,900.00	24,150.00	10,015,750.00	10,000,000.00	8,333.33	(1,968.75)	6,364.58
Federal Home loan Bank	3030A6SW8	4,417,556.00	10,626.00	4,406,930.00	4,400,000.00	3,666.67	(866.25)	2,800.42
US Treasury Note	912828TB6	29,888,668.75	12,445.83	29,876,222.92	29,870,000.00	18,688.75	(3,111.46)	15,577.29
		<u>158,068,764.40</u>	<u>476,826.50</u>	<u>157,591,937.90</u>	<u>165,320,000.00</u>	<u>150,845.01</u>	<u>(39,441.00)</u>	<u>111,404.03</u>

April 30, 2017

Certificates of Deposit Outstanding

Bank	CUSIP #	COST	Yield to Maturity	Purchased	Matures	April 30, 2017 Interest	FUND
		<u>          -</u>				<u>\$          -</u>	

Travis County Escrow account

Balance		Accrued		Balance
4/1/2017	Additions	Interest	Withdrawals	4/30/2017
\$ 272,480.20		\$ 123.61	\$ 1,066.79	\$ 271,537.02



# 183 South Design-Build Project

Change Order Status 4/26/17



<b>Executed Contract Values</b>	<b>\$581,545,700</b>
<b>Executed Change Orders</b>	
CO#1 City of Austin ILA Adjustment	(\$2,779,934)
CO#2 Addition of Coping to Soil Nail Walls	\$742,385
CO#4 Greenroads Implementation	\$362,280
CO#6 51st Street Parking Trailhead	\$477,583
Others Less than \$300,000 (3)	\$100,553
<b>Subtotal</b>	<b>(\$1,097,133)</b>
<b>Current Contract Value</b>	<b>\$580,448,567</b>
<b>Change Orders in Negotiations/ Potential Contractual Obligations</b>	<b>\$16,300,000</b>
<b>Total Project Contingency</b>	<b>\$ 47,900,000</b>
<b>(-) Total Potential Obligations (Includes Executed Change Orders)</b>	<b>\$15,200,000</b>
<b>Remaining Project Contingency</b>	<b>\$ 32,700,000</b>





# SH 45SW Construction

Change Order Status 4/26/17



<b>Executed Contract Value</b>	<b>\$75,103,623</b>
<b>Executed Change Orders</b>	
	<b>None To Date</b>
	<b>Subtotal</b>
	<b>\$0</b>
<b>Current Contract Value</b>	<b>\$75,103,623</b>
<b>Change Orders in Negotiations/ Potential Contractual Obligations</b>	<b>\$5,380,000</b>
<b>Total Project Contingency</b>	<b>\$7,520,000</b>
<b>(-) Total Potential Obligations (Includes Executed Change Orders)</b>	<b>\$5,380,000</b>
<b>Remaining Project Contingency</b>	<b>\$2,140,000</b>



# MOPAC Construction

Change Order Status 4/26/17



<b>Executed Contract Value</b>	<b>\$136,632,100</b>
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<b>Executed Change Orders</b>		
CO#01B	5th & Cesar Chavez SB Reconfig (Construction)	\$593,031
CO#05B	FM 2222 Bridge NB Ret Wall Abutment Repair (Construction)	\$850,000
CO#07	FM 2222 Exit Storage Lane	\$426,000
CO#08C	Refuge Area: Added Shoulder Adjustment Soundwall #1	\$2,508,548
CO#12	Barrier Rail Opaque Seal	\$542,419
CO#17	Bike and Ped Improvements at Far West Blvd Bridge/RM 2222	\$971,889
	Total of Others Less than \$300,000 (20)	\$1,073,504
	<b>Subtotal</b>	<b>\$6,965,390</b>

<b>Current Contract Value</b>	<b>\$143,597,490</b>
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<b>Change Orders in Negotiations/ Potential Contractual Obligations</b>	<b>\$ 40,800,000</b>
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<b>Total Project Contingency</b>	<b>\$32,300,000</b>
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<b>(+) Assessed Liquidated Damages (as of November 2016 Draw #41)</b>	<b>\$20,000,000</b>
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<b>(-) Total Potential Obligations (includes executed change orders)</b>	<b>\$47,800,000</b>
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<b>Remaining Project Contingency</b>	<b>\$4,500,000</b>
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## Monthly Newsletter - April 2017

### Performance

#### As of April 30, 2017

Current Invested Balance	\$6,279,219,607.16
Weighted Average Maturity (1)	31 Days
Weighted Average Maturity (2)	104 Days
Net Asset Value	1.000045
Total Number of Participants	832
Management Fee on Invested Balance	0.06%*
Interest Distributed	\$4,130,472.86
Management Fee Collected	\$320,218.03
% of Portfolio Invested Beyond 1 Year	4.65%
Standard & Poor's Current Rating	AAAm

#### April Averages

Average Invested Balance	\$6,493,847,712.85
Average Monthly Yield, on a simple basis	0.7140%
Average Weighted Average Maturity (1)*	36 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 April:

★ Fort Bend County ESD 5      ★ Fort Bend County LID 17      ★ Harris County MUD 62

### Holiday Reminder

In observance of **Memorial Day**, **TexSTAR will be closed on Monday, May 29, 2017**. All ACH transactions initiated on Friday, May 26th will settle on Tuesday, May 30th. Notification of any early transaction deadlines on the business day preceding this holiday will be sent by email to the primary contact on file for all TexSTAR participants. Please plan accordingly for your liquidity needs.

### Economic Commentary

Interest rates were under pressure again during the month of April as discussion over the ability and timing of the Trump administration to implement fiscal policy reform continued. Q1 2017 growth slowed, as anticipated, however the growth backdrop for the rest of 2017 looks promising. With business and consumer confidence near cycle highs and realized investment spending already improving, in addition to any form of fiscal stimulus, the outlook for growth has significant upside. As we move through Q2, consumer spending should rebound, investment spending already accelerating, global growth remains firm and fiscal policy initiatives should become clearer. Consumption should continue to be the principal driver of the U.S. economy. Tighter labor markets, rising income, modest employment growth and rising net worth should all continue to be supportive of consumption.

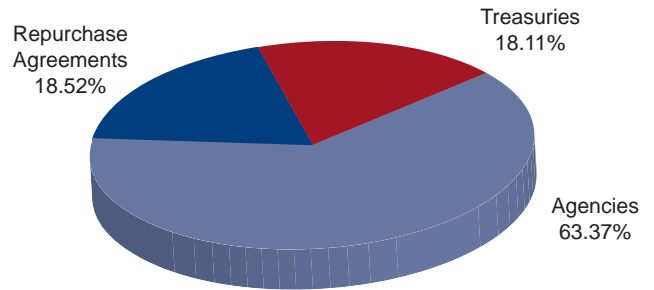
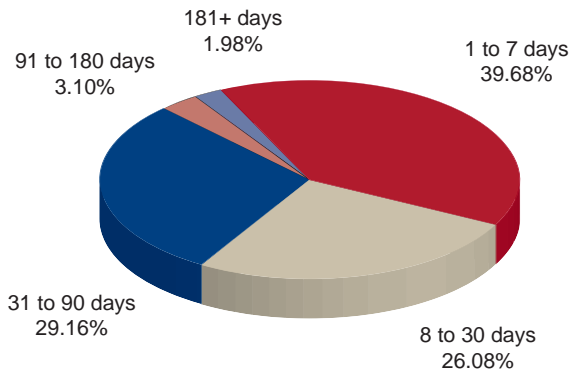
The Federal Reserve (Fed) did not meet in April, but communication from key Fed members continued to focus on the positive economic outlook, despite some softer data points. Balance sheet reduction has come into focus as changes to the Fed's reinvestment policy could come as early as this year according to Fed officials, but the details of the plan have yet to be revealed. In terms of the timing for the next federal funds rate increase, the committee has indicated that their objective is to continue to keep the pace of rate hikes "gradual". The median of the committee expects two additional rate hikes in 2017, as of the March 2017 meeting. However, if growth and inflation outperformed, financial conditions continued to ease or fiscal stimulus was enacted in the second half of 2017, the committee may become more anxious to move at a faster pace. We expect at least two more rates hikes in 2017. In addition, we expect the Fed to make an announcement to change the reinvestment policy of the balance sheet by year-end. Continued easing in financial conditions and further steady improvement in the labor market since the March FOMC has presented the Fed with the opportunity to raise rates again at the June meeting. President Trump will also be able to appointment three new Board of Governors, as well as a Vice Chair of Supervision, this year. These appointments are unlikely to make a major impact on monetary policy in 2017. However, when Chair Yellen's term is complete in 2018, the potential for a new Chair poses large risks for a major change in the Fed's approach to monetary policy going forward.

This information is an excerpt from an economic report dated April 2017 provided to TexSTAR by JP Morgan Asset Management, Inc., the investment manager of the TexSTAR pool.

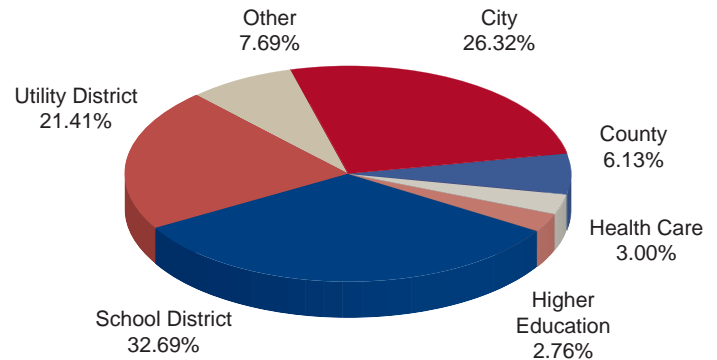
**For more information about TexSTAR, please visit our web site at [www.texstar.org](http://www.texstar.org).**

# Information at a Glance

## Portfolio by Type of Investment As of April 30, 2017



## Portfolio by Maturity As of April 30, 2017



## Distribution of Participants by Type As of April 30, 2017

# Historical Program Information

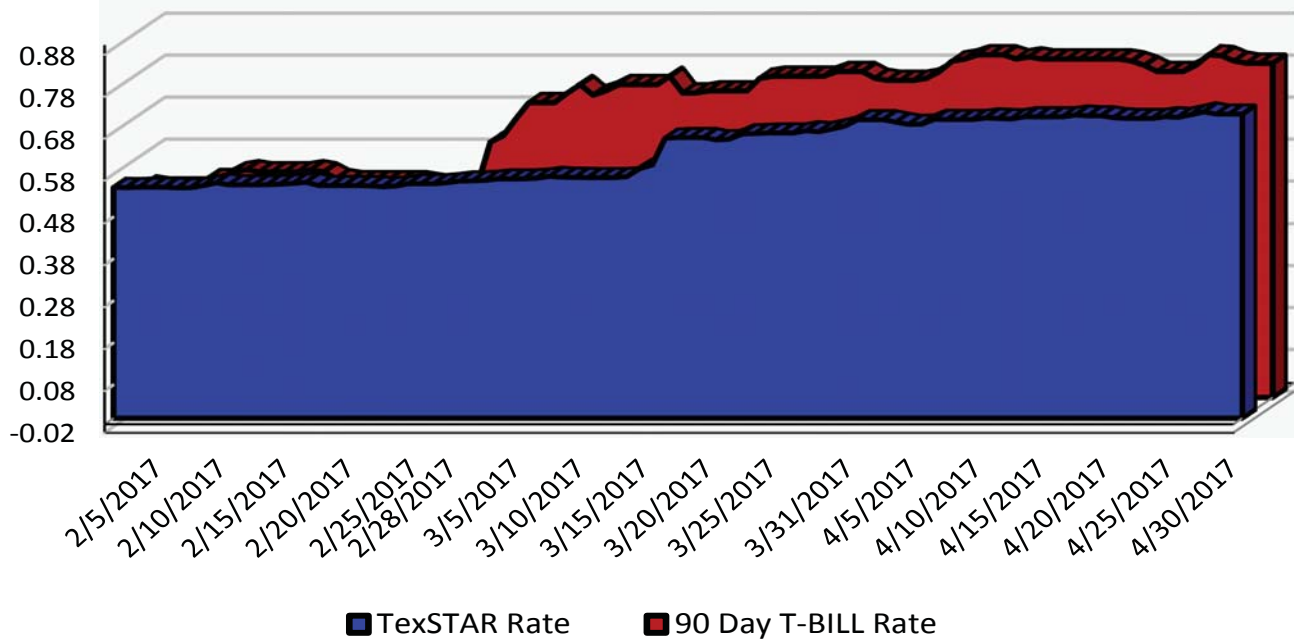
Month	Average Rate	Book Value	Market Value	Net Asset Value	WAM (1)*	WAM (2)*	Number of Participants
Apr 17	0.7140%	\$6,279,219,607.16	\$6,279,507,477.47	1.000045	36	105	832
Mar 17	0.6269%	6,551,167,144.50	6,551,621,726.22	1.000064	42	110	829
Feb 17	0.5533%	7,267,565,993.07	7,269,212,259.58	1.000226	43	111	827
Jan 17	0.5452%	7,011,113,225.83	7,012,695,761.41	1.000225	44	96	823
Dec 16	0.4815%	6,128,094,216.46	6,129,417,408.96	1.000215	49	100	822
Nov 16	0.4144%	5,250,402,124.93	5,251,596,034.74	1.000227	47	109	821
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

# Portfolio Asset Summary as of April 30, 2017

	Book Value	Market Value
Uninvested Balance	\$ 277,602,122.45	\$ 277,602,122.45
Accrual of Interest Income	4,821,087.37	4,821,087.37
Interest and Management Fees Payable	(4,250,173.28)	(4,250,173.28)
Payable for Investment Purchased	0.00	0.00
Repurchase Agreement	1,162,277,999.77	1,162,277,999.77
Government Securities	4,838,768,570.85	4,839,056,441.16
<b>Total</b>	<b>\$ 6,279,219,607.16</b>	<b>\$ 6,279,507,477.47</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 April 2017

Date	Mny Mkt Fund Equiv. [SEC Std.]	Daily Allocation Factor	TexSTAR Invested Balance	Market Value Per Share	WAM Days (1)*	WAM Days (2)*
4/1/2017	0.7093%	0.000019434	\$6,551,167,114.50	1.000064	41	108
4/2/2017	0.7093%	0.000019434	\$6,551,167,114.50	1.000064	41	108
4/3/2017	0.7034%	0.000019270	\$6,581,906,109.56	1.000063	40	106
4/4/2017	0.6982%	0.000019128	\$6,609,962,010.38	1.000073	41	105
4/5/2017	0.6987%	0.000019143	\$6,603,577,600.57	1.000061	40	108
4/6/2017	0.7104%	0.000019462	\$6,585,290,825.89	1.000059	41	110
4/7/2017	0.7099%	0.000019448	\$6,607,889,874.25	1.000063	40	108
4/8/2017	0.7099%	0.000019448	\$6,607,889,874.25	1.000063	40	108
4/9/2017	0.7099%	0.000019448	\$6,607,889,874.25	1.000063	40	108
4/10/2017	0.7135%	0.000019548	\$6,600,116,538.03	1.000064	39	107
4/11/2017	0.7123%	0.000019514	\$6,557,835,181.70	1.000054	39	107
4/12/2017	0.7113%	0.000019488	\$6,563,098,416.85	1.000050	38	106
4/13/2017	0.7163%	0.000019624	\$6,479,980,161.44	1.000054	36	105
4/14/2017	0.7163%	0.000019624	\$6,479,980,161.44	1.000054	36	105
4/15/2017	0.7163%	0.000019624	\$6,479,980,161.44	1.000054	36	105
4/16/2017	0.7163%	0.000019624	\$6,479,980,161.44	1.000054	36	105
4/17/2017	0.7205%	0.000019741	\$6,513,174,745.55	1.000044	36	103
4/18/2017	0.7186%	0.000019689	\$6,453,455,003.55	1.000058	35	104
4/19/2017	0.7186%	0.000019689	\$6,518,914,721.95	1.000051	34	102
4/20/2017	0.7141%	0.000019564	\$6,543,594,903.95	1.000049	34	101
4/21/2017	0.7124%	0.000019517	\$6,484,822,469.40	1.000055	33	99
4/22/2017	0.7124%	0.000019517	\$6,484,822,469.40	1.000055	33	99
4/23/2017	0.7124%	0.000019517	\$6,484,822,469.40	1.000055	33	99
4/24/2017	0.7165%	0.000019630	\$6,453,625,115.31	1.000049	33	98
4/25/2017	0.7149%	0.000019587	\$6,386,137,810.99	1.000039	33	99
4/26/2017	0.7211%	0.000019755	\$6,350,743,159.08	1.000044	32	105
4/27/2017	0.7281%	0.000019948	\$6,355,948,514.82	1.000047	32	106
4/28/2017	0.7227%	0.000019800	\$6,279,219,607.16	1.000045	31	104
4/29/2017	0.7227%	0.000019800	\$6,279,219,607.16	1.000045	31	104
4/30/2017	0.7227%	0.000019800	\$6,279,219,607.16	1.000045	31	104
Average	0.7140%	0.000019561	\$6,493,847,712.85		36	105

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>Eric Cannon</i>	<i>City of Allen</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>Nicole Conley</i>	<i>Austin ISD</i>	<i>Advisory Board</i>
<i>Becky Brooks</i>	<i>Government Resource Associates, LLC</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>David Pate</i>	<i>Richardson ISD</i>	<i>Advisory Board</i>
<i>James Mauldin</i>	<i>University of North Texas System</i>	<i>Advisory Board</i>

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



**J.P.Morgan**  
Asset Management



**CENTRAL TEXAS  
Regional Mobility Authority**

May 31, 2017  
AGENDA ITEM #9

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Discuss and take appropriate action to rescind primacy for the east to south direct connector on the Manor Expressway (290E) Phase III Project

Strategic Plan Relevance: Regional Mobility  
Department: Engineering  
Contact: Justin Word, P.E., Director of Engineering  
Associated Costs: N/A  
Funding Source: N/A  
Action Requested: Consider and act on draft resolution

**Summary:**

On September 28, 2016, the Mobility Authority Board of Directors exercised its option as a local toll project entity to develop, finance, construct, and operate the Manor Expressway (290E) Phase III project. The subsequent letter of Primacy, authorized by Mobility Authority Resolution 16-080, was submitted to TxDOT by the Mobility Authority Executive Director on September 29, 2016.

During on-going coordination, the Texas Department of Transportation (TxDOT) has indicated a desire for the Mobility Authority to continue with project development and construction, and build the east to south direct connector on behalf of TxDOT, who would fund development and construction costs of this connector. Prior to being able to develop an agreement between the two agencies to support this outcome, the Mobility Authority would be required to rescind primacy on the east to south direct connector and its associated roadway improvements.

To advance development of an agreement between the two agencies, staff recommends rescinding primacy on the east to south portion of the direct connector for this project.

Backup Provided: Draft Resolution to be provided at Board Meeting  
Mobility Authority Resolution No. 16-080 (9/28/16)  
Primacy Letter Notification to TxDOT (9/29/16)

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

**AUTHORITY RESOLUTION NO. 17-0XX**

**RESCINDING THE PREVIOUSLY EXERCISED OPTION OF THE  
MOBILITY AUTHORITY UNDER STATE LAW TO DEVELOP,  
FINANCE, CONSTRUCT, AND OPERATE A PORTION OF THE  
MANOR EXPRESSWAY (290E) PHASE III PROJECT**

WHEREAS, under Section 373.052, Transportation Code, the Central Texas Regional Mobility Authority (“Mobility Authority”) has the first option to develop, finance, construct, and operate any new toll project located in the territory of the Mobility Authority, including Travis County; and

WHEREAS, the Mobility Authority supports the goal of improving mobility in the Central Texas region through development of three (3) additional 290 East / SH130 direct connectors in order to improve safety and operations, as generally depicted in Exhibit A (the “Manor Expressway (290E) Phase III Project”); and

WHEREAS, the Mobility Authority exercised its option under Section 373.052, Transportation Code, to develop, finance, construct, and operate Manor Expressway (290E) Phase III Project by issuing Resolution No. 16-080 dated September 28, 2016; and

WHEREAS, the Texas Department of Transportation (TxDOT) has since expressed a desire to develop, finance, construct and operate the eastbound 290 East to southbound SH 130 direct connector and associated improvements, as generally depicted in Exhibit B (TxDOT Improvements), as part of the Central Texas Turnpike System; and

WHEREAS, TxDOT has requested that, in the interest of efficiency, the Mobility Authority develop and construct the TxDOT Improvements on TxDOT’s behalf under the same contracts as the rest of the Manor Expressway (290E) Phase III Project; and

WHEREAS, the Mobility Authority and TxDOT have agreed to negotiate and execute such further agreements as are necessary to reflect relative commitments and obligations related to the TxDOT Improvements; and

WHEREAS, the Mobility Authority expects the Texas Transportation Commission to commit funding for the development and construction of the TxDOT Improvements through the adoption of a minute order at the June 29, 2017, Texas Transportation Commission Meeting;

WHEREAS, in an effort to accommodate TxDOT, the Executive Director recommends that the Mobility Authority rescind its previous exercise of the option to develop, finance, construct, and operate the TxDOT Improvements portion of the Manor Expressway (290E) Phase III Project.



NOW THEREFORE, BE IT RESOLVED that, effective upon the commitment of funding by the Texas Transportation Commission to pay for the actual costs of the development and construction of the TxDOT improvements, the Board of Directors hereby rescinds its previous exercise of the option to develop, finance, construct, and operate the TxDOT Improvements portion of the Manor Expressway (290E) Phase III Project; and

BE IT FURTHER RESOLVED, that the Executive Director is directed to take such actions and to negotiate and execute such further agreements as necessary to reflect the relative commitments and obligations of the Mobility Authority and TxDOT related to the TxDOT Improvements.

Adopted by the Board of Directors of the Central Texas Regional Mobility Authority on the 31<sup>st</sup> day of May 2017.

Submitted and reviewed by:

Approved:

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Geoffrey Petrov, General Counsel

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Ray A. Wilkerson  
Chairman, Board of Directors

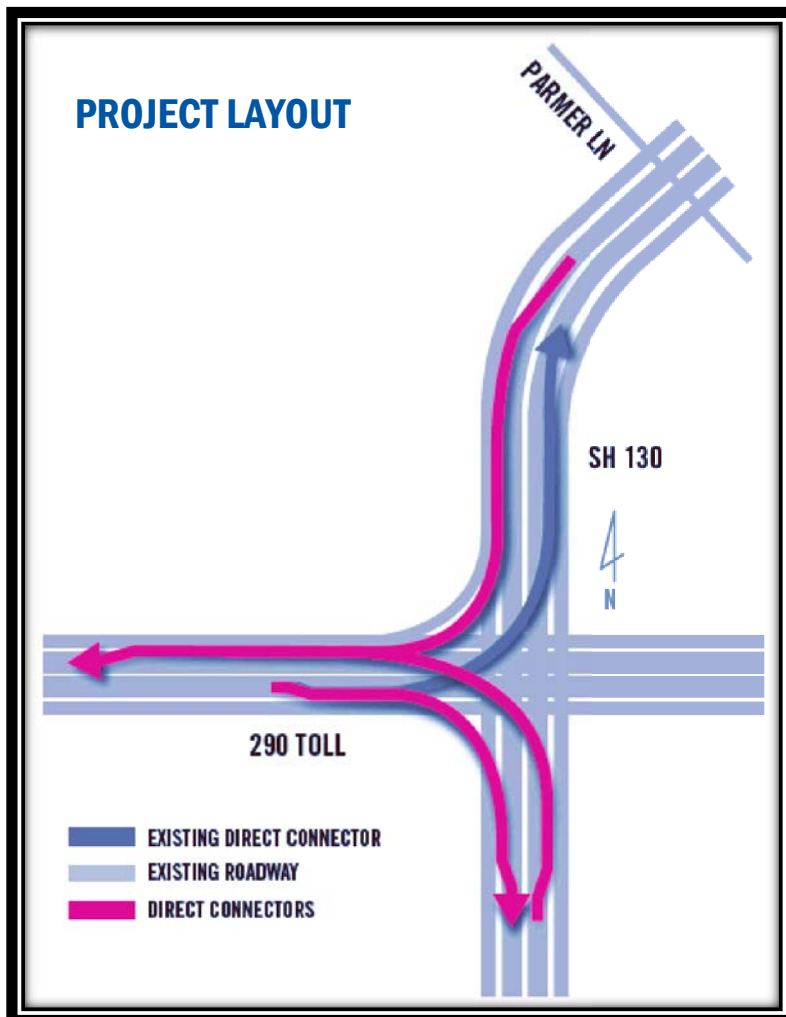
**Exhibit A**

**PROJECT LOCATION MAP**



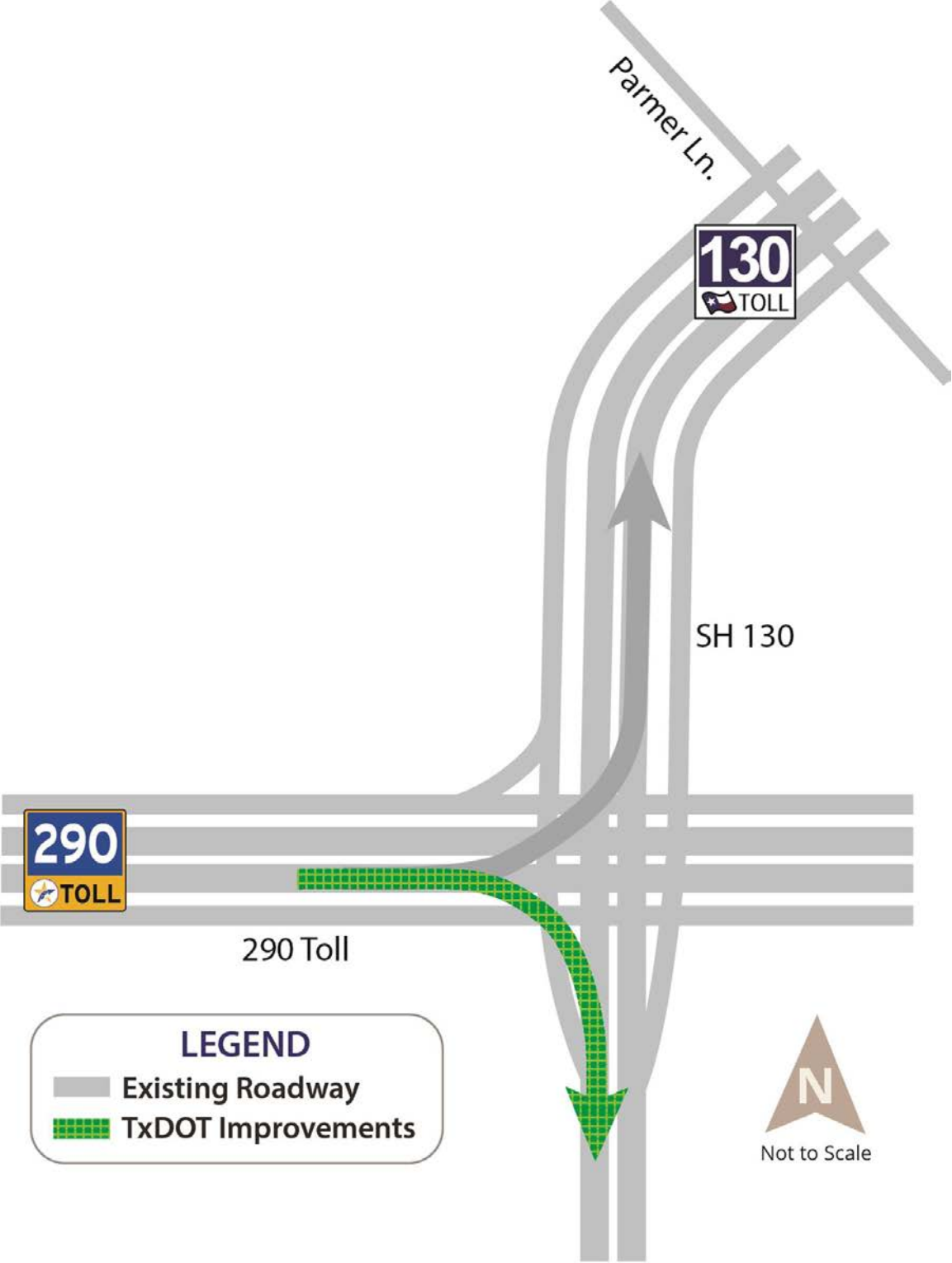
**AREA  
DETAIL**

**PROJECT LAYOUT**



**Exhibit B**

LOCATION MAP





**CENTRAL TEXAS  
Regional Mobility Authority**

May 31, 2017  
**AGENDA ITEM #10**

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Discuss and consider authorizing the procurement of a contractor for miscellaneous work related to the MoPac Improvement Project

Strategic Plan Relevance: Regional Mobility  
Department: Engineering  
Contact: Justin Word, P.E., Director of Engineering  
Associated Costs: not to exceed \$5M  
Funding Source: Project Funds  
Action Requested: Consider and act on draft resolution

**Summary:**

In 2012, the Mobility Authority completed an environmental assessment (“EA”) for the MoPac corridor from Cesar Chavez Street to Parmer Lane. Noise mitigation studies were conducted and sound wall locations were identified throughout the corridor. In 2016, two soundwall locations at NB 04 and NB 08 (Westminster) were included in an environmental reevaluation and noise abatement was determined to be feasible and reasonable. Construction plans and specifications are being prepared to be advertised in an effort to procure a contractor.

Additional elements include aesthetic features to two existing soundwalls approved in the original EA, rehabilitation plans for the bridge abutment at MoPac and RM 2222, a shared use path at MoPac and US 183, and other miscellaneous items.

Staff requests Board authorization for the procurement of construction services for the MoPac Improvement Project. Following receipt of bids, the responsive low bidder is anticipated to be presented to the Board of Directors by staff for final approval for the award of contract at the October 11, 2017 Board Meeting. No funds will be committed until the contract is executed.

Backup Provided: Draft Resolution

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

**RESOLUTION NO. 17-0XX**

**AUTHORIZE THE PROCUREMENT OF A CONTRACTOR FOR MISCELLANEOUS  
WORK RELATED TO THE MOPAC IMPROVEMENT PROJECT**

WHEREAS, upon the completion of an environmental reevaluation for the MoPac Improvement Project (“Project”) in 2016, noise abatement was determined to be reasonable and feasible for two new sound wall locations and the Executive Director has determined it would be beneficial to construct these soundwalls as part of the Project; and

WHEREAS, the Executive Director has determined that it would also be beneficial to add other work to the Project, including aesthetic features to existing soundwalls approved in the original environmental assessment, rehabilitation plans for the bridge abutment at MoPac and RM 2222, a shared use path at MoPac and US 183, and other miscellaneous items; and

WHEREAS, the Executive Director recommends that the Mobility Authority procure construction services to perform this work for the MoPac Improvement Project.

NOW THEREFORE, BE IT RESOLVED, that the Board of Directors authorize the Executive Director to procure construction services to construct the additional soundwalls and other work for the MoPac Improvement Project.

Adopted by the Board of Directors of the Central Texas Regional Mobility Authority on the 31<sup>st</sup> day of May 2017.

Submitted and reviewed by:

Approved:

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

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



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

May 31, 2017  
AGENDA ITEM #11

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Executive Director Report

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:

Executive Director Comments.

- A. Texas 85<sup>th</sup> Legislature Update.
- B. Interoperability with Kansas Turnpike Authority.
- C. Commissioner Brigid Shea's meeting regarding urban cable.

Backup provided: None





**CENTRAL TEXAS  
Regional Mobility Authority**

May 31, 2017  
AGENDA ITEM #12

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183 North Delivery Model Update

Strategic Plan Relevance: Regional Mobility  
Department: Engineering  
Contact: Justin Word, P.E., Director of Engineering  
Associated Costs: N/A  
Funding Source: N/A  
Action Requested: Briefing and Board Discussion Only

Summary:

Mobility Authority staff will be providing a presentation on the recommended delivery model for the 183 North Project. Staff has evaluated design-build and design-bid-build delivery models, analyzing comparative schedules, costs, risks and advantages of each and is prepared to move forward with design-build delivery.

Backup Provided: None



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

May 31, 2017  
AGENDA ITEM #13

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MoPac Improvement Project Monthly Report.

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 for the MoPac Improvement Project.

Backup provided: None



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

May 31, 2017  
AGENDA ITEM #14

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Executive Session

*Executive Session:*

Discuss acquisition of one or more parcels or interests in real property needed for the 183 South Project (Bergstrom Expressway) and related legal issues, pursuant to §551.072 (Deliberation Regarding Real Property) and §551.071 (Consultation with Attorney).



CENTRAL TEXAS  
**Regional Mobility Authority**

May 31, 2017  
AGENDA ITEM #15

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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**

May 31, 2017  
AGENDA ITEM #16

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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**

May 31, 2017  
AGENDA ITEM #17

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Executive Session

*Executive Session:*

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



**CENTRAL TEXAS  
Regional Mobility Authority**

May 31, 2017  
AGENDA ITEM #18A - 18B

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Authorize negotiation and execution of a contract to purchase a certain parcel, utility easement or other property interest for the 183 South Project

Strategic Plan Relevance: Regional Mobility  
Department: Engineering / Law  
Contact: Justin Word P.E., Director of Engineering / Geoff Petrov, General Counsel  
Associated Costs: N/A  
Funding Source: N/A  
Action Requested: Consider and act on draft resolutions

Summary:

The Mobility Authority must acquire certain parcels, utility easements and/or related property interests ("Property") from real estate that abuts or is near the existing 183 South Project right-of-way. Each owner of a parcel or property interest identified has received an official written offer to purchase the Property for an amount determined by an independent, professional appraiser. The Mobility Authority or its agent is required to pay no less than the offer made for the Property.

The parcels for your consideration and action at this meeting are:

- A. Parcel 157 of the 183 South (Bergstrom Expressway) Project, a fee taking of 0.163 acres, from 0.527 acres of real estate, **owned by Dr. William Selman and Claire Selman**, and located between Vargas Road and Thompson Lane, on Bastrop Highway, Austin TX 78741.
- B. Parcel 158 of the 183 South (Bergstrom Expressway) Project, a fee taking of 0.035 acres, from 4.477 acres of real estate, **owned by Cactus Rose OH Delta, LLC.**, and located at 436 Bastrop Highway, Austin TX 78741.

Backup provided: To be provided at the meeting.