

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

RESOLUTION NO. 09-02

WHEREAS, the Central Texas Regional Mobility Authority ("CTRMA") was created pursuant to the request of Travis and Williamson Counties and in accordance with provisions of the Transportation Code and the petition and approval process established in 43 Tex. Admin. Code § 26.01, *et seq.* (the "RMA Rules"); and

WHEREAS, the Board of Directors of the CTRMA has been constituted in accordance with the Transportation Code and the RMA Rules; and

WHEREAS, in a minute order approved on August 25, 2005, the Texas Transportation Commission authorized the CTRMA to pursue the development of the 290 East Turnpike Project (the "Project"); and

WHEREAS, PBS&J is providing project management services to the CTRMA in connection with the Project (the "Project Manager"); and

WHEREAS, in Resolution No. 07-70, dated December 7, 2007, the Board of Directors authorized CTRMA staff to initiate the process for procuring design and engineering services for the design and engineering of the Project in three segments; and

WHEREAS, in Resolution No. 08-16, dated March 26, 2008, the Board of Directors authorized entering into contracts with three engineering design firms [Jacobs Carter Burgess, LJA Engineering ("LJA") and KCI Kennedy Consulting ("Kennedy")] for the three respective segments of the Project; and

WHEREAS, contracts were executed with each of the engineering design firms, including a Work Authorization No. 1 for each of the contracts regarding the general design work to be undertaken, as well as Work Authorizations No. 2 for the LJA and Kennedy contracts for utility design services; and

WHEREAS, in order to have the necessary right of way mapping design and documentation services required for the Project to be undertaken by LJA, it is necessary to enter into Work Authorization No. 3 for the contract with LJA, substantially in the form set forth in Attachment "A" attached hereto and incorporated herein; and


WHEREAS, the Project Manager has represented to the Board of Directors and CTRMA staff that the work reflected in Work Authorization No. 3 and the cost thereof are necessary and appropriate for the continued efficient and timely design of the Project.

NOW THEREFORE, BE IT RESOLVED, that the Board of Directors approves Work Authorization No. 3 under the LJA contract attached hereto as Attachment "A" as it relates to

right of way mapping design and documentation services for the Project, provided that any work commenced under Work Authorization No. 3 be subject to the terms and conditions of the LJA contract.

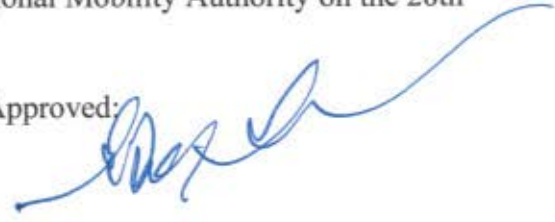
Adopted by the Board of Directors of the Central Texas Regional Mobility Authority on the 28th day of January, 2009.

Submitted and reviewed by:



Tom Nielson
General Counsel for the Central
Texas Regional Mobility Authority

Approved:



Lowell H. Lebermann, Jr.
Vice Chairman, Board of Directors
Resolution Number 09-02
Date Passed 1/28/09

ATTACHMENT "A"
TO
RESOLUTION NO. 09-02
WORK AUTHORIZATION NO. 3
TO LJA CONTRACT

ATTACHMENT C

**WORK AUTHORIZATION
C-1
WORK AUTHORIZATION NO. 3
CONTRACT FOR ENGINEERING SERVICES**

THIS WORK AUTHORIZATION is made pursuant to the terms and conditions of Article 4 of the Contract for Engineering Services (the Contract) entered into by and between the Central Texas Regional Mobility Authority (the Authority) and LJA Engineering & Surveying, Inc. (the Engineer) dated _____.

PART I. The Engineer will perform engineering services generally described as ROW Maps and Documents Revisions for the 290 East Toll Project in accordance with the project description attached hereto and made a part of this Work Authorization. The responsibilities of the Authority and the Engineer as well as the work schedule are further detailed in Exhibits A, B, C, and F which are attached hereto and made a part of the Work Authorization.

PART II. The maximum amount payable under this Work Authorization is **\$279,445.56** and the method of payments are Cost Plus Fixed Fee and Specified Rate. This amount is based upon the Engineer's estimated Work Authorization costs included in Exhibit D and Exhibit E, which is attached and made a part of this Work Authorization. The basis for payment will be as follows:

The amount paid shall be based on actual labor hours worked, billed at actual wage rates, plus allowable direct expenses (only those identified in Exhibit D) at actual costs. Billed labor rates must be equal to or less than the maximum wage rates per classification shown in the Maximum Rate Schedule in Exhibit E. The total amount paid shall not exceed the maximum amount payable. For payment the Engineer is required to provide evidence of actual hours worked, employee classification, actual wage rates, and evidence of allowable direct costs.

PART III. Payment to the Engineer for the services established under this Work Authorization shall be made in accordance with Articles 3 thru 5 and Attachment A, Article 1 of the contract.

PART IV. This Work Authorization shall become effective on the date of final acceptance of the parties hereto and shall terminate upon completion of the work, unless extended by a supplemental Work Authorization as provided in Article 4 of the Contract.

PART V. This Work Authorization does not waive the parties' responsibilities and obligations provided under the Contract.

*CTRMA 290 East Design Segment #2
LJA Engineering & Surveying, Inc.*

*Work Authorization #3
CTRMA Contract #08290E22702E*

IN WITNESS WHEREOF, this Work Authorization is executed in duplicate counterparts and hereby accepted and acknowledged below.

THE ENGINEER

**CENTRAL TEXAS REGIONAL
MOBILITY AUTHORITY**

(Signature)

(Signature)

Jeff Collins, P.E.
(Printed Name)

Mike Heiligenstein
(Printed Name)

Senior Vice President

Executive Director

(Date)

(Date)

LIST OF EXHIBITS

- Exhibit A
- Exhibit B
- Exhibit C
- Exhibit D
- Exhibit E
- Exhibit F
- Exhibit H-2

- Scope of Services to be provided by the Authority
- Scope of Services to be provided by the Engineer
- Work Schedule
- Fee Schedule
- Maximum Rate Schedule
- Parcel List for ROW Maps and Documents Revisions
- DBE Subprovider Form

EXHIBIT A
SERVICES TO BE PROVIDED BY THE AUTHORITY

The Authority shall perform and provide the following in a timely manner so as not to delay the Services to be provided by the Engineer:

1. Authorize the Engineer in writing to proceed.
2. Place at Engineer's disposal all reasonably available information pertinent to the Project, including previous reports, drawings, specifications, or any other data relative to the design and construction of the Project.
3. Review and approve the Engineer's progress schedule with milestone activities and/or deliverables identified.
4. Provide timely review and decisions in response to the Engineer's request for information and/or required submittals and deliverables, in order for the Engineer to maintain the agreed-upon work schedule identified in Exhibit C.
5. Provide Project Design Guidelines and CADD Standards Manual.
6. Attend and participate in progress and coordination meetings as required.

EXHIBIT B
SCOPE OF SERVICES TO BE PROVIDED BY THE SEGMENT ENGINEER

The Segment Engineer, herein referred to as the "Surveyor", shall be responsible for the work outlined in this Scope of Services. This scope of services appends the scope set forth in Section 1.06 and Section 1.19 of Work Authorization #1.

1.06 ROW Mapping

All work performed will be to provide revisions of and additions to ROW maps, property descriptions (field notes), plats, and other associated submittals prepared by McGray and McGray Land Surveyors, Inc. as submitted to and reviewed by the Texas Department of Transportation Austin District in March 2007. All products and documents previously submitted and accepted for review were prepared in accordance with the General Standards listed below. All revisions and additions will be developed in accordance with the General Standards listed below. The existing ROW of US290, US183 and SH130, within the project has been retraced and established. Sufficient monumentation to establish property lines for adjacent parcels affected by proposed ROW acquisition has been located. Limited on-the-ground surveying, other than to establish/re-establish control, survey additional parcels and monumentation of the proposed ROW, easements, control of access and ROW acquisitions will be necessary.

A. Ownership Data

Current ownership information for all properties adjacent to the project shall be determined according to county appraisal district records. Data, to include owner name(s), site address, owner mailing address, owner phone number and property description will be compiled and provided to the General Engineering Consultant (GEC) in digital spreadsheet format.

B. Project Control

The North American Datum of 1983 (NAD83), Texas Coordinate System of 1983, Central Zone, 1993 adjustment, with values in U.S. Survey Feet, will be used as the basis for all horizontal coordinates derived. The datum adjustment currently in use by the GEC shall be utilized. Project or surface coordinates will be calculated by applying a Surface Adjustment Factor (SAF) to State Plane Coordinate values of 1.00011 exactly. Elevations will be based on the North American Vertical Datum of 1988 (NAVD88).

1. Recover primary and/or secondary control monuments within the project limits and adjoining US 183 and SH 130 projects to be utilized and constrained to for this project.

2. Prepare, or provide previously submitted GPS survey report, monument datasheets, and a control drawing (to be included in the ROW Mapsheet submittal). The GPS Survey Report shall include items listed in Section 2, Chapter 8 of the TxDOT GPS User's Manual, latest revision. The survey report should describe the relationship of the developed US290 control network to the existing US183 and SH130 control networks sufficient to establish an integrated control network for the project. Any previous unresolved discrepancies, deficiencies or conflicts, if any, in determining the dimensional relationship of these three projects within the project limits shall be presented immediately.

C. Field Survey

All surveys shall meet or exceed the standards set in the Professional Land Surveying Practices Act, General Rules of Procedures and Practices, promulgated by the Texas Board of Professional Surveying (TBPLS), the latest edition of the Texas Society of Professional Land Surveyors (TSPS) Manual of Practice for Land Surveying in the State of Texas, the Texas Department of Transportation Survey Guide, latest edition, the Texas Department of Transportation TxDOT GPS User's Manual, latest revision, the Texas Department of Transportation Vol 1- ROW Procedures Preliminary to Release, current revision, the current Federal Geodetic Control Subcommittee (FGCS) Geometric Geodetic Accuracy Standards and Specifications for Using GPS Relative Positioning Techniques, the current Federal Geodetic Control Subcommittee (FGCS) Standards and Specifications for Geodetic Control Networks, and shall be accomplished in an organized and workman-like manner, subject to the approval of the GEC. In order to insure accuracy and accountability of the services provided under this contract, the Surveyor may be required to certify work performed under this contract as true and correct according to the standards and specifications contained in the above, as may be applicable.

1. The Surveyor shall provide temporary signing and traffic control in and around survey operations; signing and traffic control will comply with provisions of the Texas Manual of Uniform Traffic Control Devices. All signs, flags and safety equipment shall be provided by the Surveyor. If directed, the GEC shall be notified 24-hours in advance of any lane closures.
2. For parcels listed in Exhibit F, locate property corners at the existing ROW and along property lines upon receipt of the revised proposed ROW, proposed control of access and proposed easements and information of current adjoining properties.
3. Upon receipt of written notice from the GEC, for parcels not listed in Exhibit F, identify any new parcels and locate property corners at the existing ROW and along property lines upon receipt of the revised proposed ROW, proposed control of access and proposed easements and information of current adjoining properties.

4. Secure Right-of-Entry (ROE) by signed letter from any landowners from whom permission will be needed to complete ROW Mapping.

D. ROW Maps and Documents

The Texas Department of Transportation Vol. 1- Right-of-Way Procedures Preliminary to Release, latest revision, and the Texas Department of Transportation Survey Guide, latest edition, will serve as the guide and shall be the basis for the format and preparation of all right-of-way (ROW) documents produced, including Right of Way Maps, property descriptions (including parcel plats), and other ROW work products, unless otherwise directed by the GEC.

1. ROW mapsheets and field notes shall be revised for parcels listed in Exhibit F as required due to changes in ROW limits, Control of Access limits, easements, stationing and offsets, ownership, revised parcel numbering, or as directed by the GEC. All plats and field notes must be signed and sealed by a Registered Professional Land Surveyor (RPLS). A complete set of revised ROW maps, property descriptions and parcel plats shall be produced according to the current specifications in Chapter 4, Texas Department of Transportation Vol 1- ROW Procedures Preliminary to Release, current revision,. The revised ROW maps shall include title sheet, parcel index sheets, control sheets, and plan sheets drawn at the specified scale and shall clearly show all information as required by TxDOT with regard to existing and proposed information, including any required control of access and easements. Reference files, as provided by the GEC, of existing planimetrics and proposed improvements shall be attached and shown as the background on each map sheet. Property descriptions and parcel plats shall be produced for each revised ROW acquisition along the route. Closure sheets shall be generated for each parcel shown on the revised ROW mapsheets, property descriptions, and parcel sketches.

2. Upon receipt of written notice from the GEC, additional ROW mapsheets and field notes shall be prepared for parcels not listed in Exhibit F as required due to changes in ROW limits, Control of Access limits, easements, stationing and offsets, ownership, revised parcel numbering, or as directed by the GEC. All plats and field notes must be signed and sealed by a Registered Professional Land Surveyor (RPLS). A complete set of revised ROW maps, property descriptions and parcel plats shall be produced according to the current specifications in Chapter 4, Texas Department of Transportation Vol 1- ROW Procedures Preliminary to Release, current revision,. The revised ROW maps shall include title sheet, parcel index sheets, control sheets, and plan sheets drawn at the specified scale and shall clearly show all information as required by TxDOT with regard to existing and proposed information, including any required control of access and easements. Reference files, as provided by the GEC, of existing planimetrics and proposed improvements shall be attached and shown as the background on each map sheet. Property descriptions and parcel plats shall be produced for each revised ROW acquisition along the route. Closure sheets shall be

generated for each parcel shown on the revised ROW mapsheets, property descriptions, and parcel sketches.

3. The existing and proposed ROW, along with parcel corners shall be monumented on the ground for parcels listed in Exhibit F according to the specification of the Texas Department of Transportation Vol 1- ROW Procedures Preliminary to Release, current revision. Monumentation shall include TxDOT Type II monuments at all PC's, PT's, PI's, and 1500-foot intervals along the proposed ROW and TxDOT Type III monuments at easement corners, beginning and ending of control of access and at the intersection of parcel property lines and the proposed ROW. Monuments to be set shall be 5/8 or 1/2 inch iron rods (provided by the surveyor). The minimum length of all iron rods shall be two feet. Any deviation from the two feet minimum length of iron rods will require prior TxDOT approval. The GEC will provide aluminum caps stamped "TxDOT ROW", Type II Brass Discs, and also witness markers if required. In addition, missing ROW monumentation along the existing ROW line within the project where no additional ROW is to be required shall be restored with the appropriate TxDOT monument type.

4. Upon receipt of written notice from the GEC, the existing and proposed ROW, along with parcel corners shall be monumented on the ground for parcels not listed in Exhibit F according to the specification of the Texas Department of Transportation Vol 1- ROW Procedures Preliminary to Release, current revision. Monumentation shall include TxDOT Type II monuments at all PC's, PT's, PI's, and 1500-foot intervals along the proposed ROW and TxDOT Type III monuments at easement corners, beginning and ending of control of access and at the intersection of parcel property lines and the proposed ROW. Monuments to be set shall be 5/8 or 1/2 inch iron rods (provided by the surveyor). The minimum length of all iron rods shall be two feet. Any deviation from the two feet minimum length of iron rods will require prior TxDOT approval. The GEC will provide aluminum caps stamped "TxDOT ROW", Type II Brass Discs, and also witness markers if required. In addition, missing ROW monumentation along the existing ROW line within the project where no additional ROW is to be required shall be restored with the appropriate TxDOT monument type.

E. Quality Assurance \ Quality Control

The Surveyor shall perform Quality Control\Quality Assurance on all procedures, field surveys, data, and products prior to delivery to the GEC. If, at any time, during the course of reviewing a submittal of any item it becomes apparent to the GEC that the submittal contains errors, omissions, and inconsistencies, the GEC may cease its review and return the submittal to the Surveyor immediately for the appropriate action by the Surveyor. A submittal returned to the Surveyor for this reason is not a submittal for purposes of the submission schedule.

F. Deliverables

1. Electronic Data (original and processed) for the parcels listed in Exhibit F shall be provided to the GEC on a compact disc and shall be fully compatible with the 290E Cadd Standards Manual at the time of submission, without further modification or conversion. The program formats used by the GEC are: Microstation Word for word processing; Microstation v8 for graphics applications, GeoPak and SDMS for survey data. Variations from these software applications or other requirements listed above shall only be allowed if requested in writing by the Surveyor and approved by the GEC.

2. Upon receipt of written notice from the GEC, Electronic Data (original and processed) for the additional parcels identified by the GEC and not listed in Exhibit F shall be provided to the GEC on a compact disc and shall be fully compatible with the 290E Cadd Standards Manual at the time of submission, without further modification or conversion. The program formats used by the GEC are: Microstation Word for word processing; Microstation v8 for graphics applications, GeoPak and SDMS for survey data. Variations from these software applications or other requirements listed above shall only be allowed if requested in writing by the Surveyor and approved by the GEC.

3. Hard Copy Deliverables for the parcels listed in Exhibit F will be provided to the GEC for review and shall include Current Ownership spreadsheet, property descriptions and parcel plats, four (4) copies of 22-inch-by-34-inch map sheets on bond paper, one (1) copy of half scale 11-inch-by-17-inch map sheets on bond paper, copies of field notes, printouts of field data, copies of subdivision plats, owner deeds, ROE letters, closure sheets, and MicroStation\GeoPak electronic files of the ROW maps. All hard copy deliverables shall be marked "preliminary." Upon completion of review by the GEC, and any revisions, final ROW maps and property descriptions, signed and sealed by a Texas registered professional land surveyor (RPLS), shall be prepared and submitted. Final ROW map submittal will include one complete set plotted on 22-inch-by-34-inch mylar and one complete set plotted on half-scale 11-inch-by-17-inch mylar.

4. Upon receipt of written notice from the GEC, Hard Copy Deliverables for the additional parcels identified by the GEC and not listed in Exhibit F and will be provided to the GEC for review and shall include Current Ownership spreadsheet, property descriptions and parcel plats, four (4) copies of 22-inch-by-34-inch map sheets on bond paper, one (1) copy of half scale 11-inch-by-17-inch map sheets on bond paper, copies of field notes, printouts of field data, copies of subdivision plats, owner deeds, ROE letters, closure sheets, and MicroStation\GeoPak electronic files of the ROW maps. All hard copy deliverables shall be marked "preliminary." Upon completion of review by the GEC, and any revisions, final ROW maps and property

descriptions, signed and sealed by a Texas registered professional land surveyor (RPLS), shall be prepared and submitted. Final ROW map submittal for the additional parcels identified by the GEC and not included in Exhibit F will include one complete set of the affected Map sheets plotted on 22-inch-by-34-inch mylar and one complete set of the affected Map sheets plotted on half-scale 11-inch-by-17-inch mylar.

1.19 Coordination, Meetings & Invoicing

- A. The Surveyor will attend ROW Coordination Meetings as directed by the GEC.
- B. The Surveyor will follow invoice procedures as described in Section 3.2 of the 290 East Project Manual, as outlined below. Invoice and Progress Report Format shall include the following:
 - 1. Original signature of appropriate personnel of the Surveyor
 - 2. Dates of the billing period
 - 3. Documentation of hours worked
 - 4. Past months activities and accomplishments
 - 5. Pending issues and decisions
 - 6. Problem areas and recommended corrective actions
 - 7. Next month's planned activities
 - 8. Current period budget status summary (showing task percent complete vs cost percent complete per task)
 - 9. Job to date budget status summary (showing task percent complete vs. cost percent complete per task)
 - 10. Total amount of Work Authorization spent to date
 - 11. Total amount of Work Authorizations spent in current period

Work Schedule For Parcels Included in Exhibit F																
NTP	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12	Week 13	Week 14	Week 15	Week 16
Task #1:	█															
Task #2:	█															
Task #3:		█														
Task #4:			█													
Review #1:					█											
Task #5:				█												
Task #6:						█										
Task #7:							█									
Review #2:									█							

- Task # 1: Obtain Ownership Information/ Deed Research
- Task # 2: Recover Existing Control
- Task # 3: Identify and Survey New Parcels
- Task # 4: Prepare new Parcels and Revise Documents
- Task # 5: Revise ROW Map
- Task # 6: Set Monumentation
- Task # 7: QA/QC and Delivery

- Review # 1: GEC Review of New Parcels and Revised Documents
- Review # 2: GEC Review of Final Deliverables

Work Schedule For Additional Parcels Identified by the GEC and Not Included in Exhibit F																
Written Notice From GEC	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12	Week 13	Week 14	Week 15	Week 16
Task #1:																
Task #2:																
Task #3:																
Task #4:																
Task #5:																
Task #6:																
Task #7:																
Review #1:																

- Task # 1: Obtain Ownership Information/ Deed Research
- Task # 2: Recover Existing Control
- Task # 3: Identify and Survey New Parcels
- Task # 4: Prepare new Parcels and Revise Documents
- Task # 5: Revise ROW Map
- Task # 6: Set Monumentation
- Task # 7: QA/QC and Delivery

Review # 1: GEC Review of Final Deliverables

EXHIBIT D
FEE SCHEDULE

FOR
LJA Engineering & Surveying, Inc.

290E WORK AUTHORIZATION No. 3
ROW MAPS AND DOCUMENTS REVISIONS

For services describe in the Scope of Services, we request the compensation as detailed below. Cost breakdowns for engineering services and explanation of expenses are shown on the following pages.

TOTAL COMPENSATION

ROW Coordination (LJA Engineering & Surveying, Inc.)	\$ 13,298.56
ROW Coordination and Maps and Documents Revisions (McGray & McGray Land Surveyors, Inc.)	\$ 266,147.00
	<u>\$ 279,445.56</u>

Exhibit D
Summary of Manhours by Classification & Major Task Analysis
290E Work Authorization No. 3
ROW Maps and Documents Revisions

CATEGORY	LJA		McGray & McGray		TOTALS	
	HOURS	COST	HOURS	COST	HOURS	COST
1.02 GOVERNMENTAL AGENCY COORDINATION		\$ -		\$ -		\$ -
1.03 DATA COLLECTION		\$ -		\$ -		\$ -
1.04 GEOTECHNICAL INVESTIGATION		\$ -		\$ -		\$ -
1.05 SUPPLEMENTAL SURVEYING		\$ -		\$ -		\$ -
1.06 ROW MAPPING		\$ -	2736	\$ 261,645.00		\$ 261,645.00
1.07 UTILITY COORDINATION AND DESIGN		\$ -		\$ -		\$ -
1.08 INITIAL DESIGN AND DOC		\$ -		\$ -		\$ -
1.09 ROADWAY DESIGN		\$ -		\$ -		\$ -
1.10 DRAINAGE DESIGN		\$ -		\$ -		\$ -
1.11 STRUCTURAL DESIGN		\$ -		\$ -		\$ -
1.12 RETAINING WALL DESIGN		\$ -		\$ -		\$ -
1.13 SIGNING, MARKINGS AND SIGNALIZATION		\$ -		\$ -		\$ -
1.14 TRAFFIC CONTROL PLAN		\$ -		\$ -		\$ -
1.15 TRAFFIC MANAGEMENT SYSTEMS		\$ -		\$ -		\$ -
1.16 ILLUMINATION		\$ -		\$ -		\$ -
1.17 TOLL FACILITY DESIGN		\$ -		\$ -		\$ -
1.18 MISCELLANEOUS		\$ -		\$ -		\$ -
1.19 COORDINATION, MEETINGS & INVOICING	100	\$ 13,298.56	308	\$ 4,422.00		\$ 17,720.56
TOTAL LABOR COST		\$ 13,298.56		\$ 266,067.00		\$ 279,365.56
DIRECT EXPENSES		\$ -		\$ 60.00		\$ 60.00
TOTALS	100	\$ 13,298.56	2774	\$ 266,147.00	2874	\$ 279,445.56
FIXED FEE		\$ 1,329.86		N/A (Specified Rate)		\$ 1,329.86
OVERALL PERCENTAGES		4.8%		95.2%		100.0%

Exhibit D
Summary of Manhours by Classification & Major Task Analysis
 290E Work Authorization No. 3
 ROW Maps and Documents Revisions
 LJA Engineering & Surveying, Inc.

Fee/Rate Schedule	\$69.52	\$50.00	\$48.88	\$45.00	\$36.00	\$20.80	OH RATE	MARGIN RATE	PROJECT MULTIPLIER
Average Billing Rate	\$112.36	\$152.74	\$140.70	\$137.46	\$116.15	\$63.54	177.70%	30.66%	3.655
Average Loaded Rate									
Description of Work or Task	Project Manager \$212.36/Hr	Senior Prof Engr \$152.74/Hr	Engineer \$140.70/Hr	Sr. Engr. Tech. \$137.46/Hr	Engr. Tech. \$116.15/Hr	Admin / Clerical \$63.54/Hr	Staff-Hr. Totals	Staff Cost / Task Totals	Plan Sheet Total
1.18 Coordination, Meetings and Invoicing	8	16	0	26	0	0	60	\$ 9,091.20	0
A) Attend Row Coordination Meetings	4	12	0	0	0	24	40	\$ 4,807.20	0
B) Invoicing								\$ -	
Basic General Expenses (see detail below)								\$ -	
Coordination, Meeting and Invoicing Total:	12	28	0	26	0	24	100	\$ 13,298.56	0

Exhibit D
Summary of Manhours by Classification & Major Task Analysis
 290E Work Authorization No. 3
 ROW Maps and Documents Revisions
 McCray & McCray Land Surveyors, Inc.

Specified Rate	Description of Work or Task	3-MAN CREW	RTK FIELD CREW	PRINCIPAL	SPLS	PROJECT MANAGER	SURVEY TECH	SUA SURVEY TECH	FIELD COORDINATOR	RESEARCH	GPS PROCESSING	CLERICAL	SUA/ONV	SVA	N/A
1.00 ROW MAPPING															
A) Chainable Data		0	0	0	4	2	4	0	0	0	0	4		22	\$ 1,408.00
B) Project Control															
1 Recover Control Monuments		10	16	1	4	1	12	0	2	0	2	0		48	\$ 6,717.00
2 Provide GPS Control Report		0	0	4	18	4	16	24	0	0	0	0		68	\$ 6,844.00
C) Field Survey															
1 Set TOP		0	0	0	0	0	0	0	0	0	0	0		0	\$ -
2 Identify New Parcels/Lot/Locate Property Corners		50	20	2	24	0	43	0	6	4	8	0		172	\$ 22,348.00
3 Identify New Parcels/Lot/Locate Property Corners as Directed by GEC		50	20	2	24	0	43	0	6	4	8	0		172	\$ 22,246.00
4 Secure Right of Entry (ROE)		0	0	0	0	0	0	0	0	0	0	0		0	\$ -
D) ROW Maps and Documents															
1 Revised ROW Maps and Documents		0	0	0	100	20	550	100	0	0	0	04		878	\$ 63,986.00
2 Revised ROW Maps and Documents as Directed by GEC		0	0	0	100	20	550	100	0	0	0	04		878	\$ 66,980.00
3 Set Ground Monuments		70	40	2	6	2	30	4	4	0	14	0		172	\$ 23,818.00
4 Set Ground Monuments as Directed by GEC		70	40	2	6	2	30	4	4	0	14	0		172	\$ 23,818.00
E) Quality Assurance / Quality Control															
1 Deliverables		0	0	0	60	4	24	6	0	0	0	0		94	\$ 13,418.00
2 Electronic Deliverables		0	0	1	1	1	4	0	0	0	0	0		7	\$ 717.00
3 Electronic Deliverables as Directed by GEC		0	0	1	1	1	4	0	0	0	0	0		7	\$ 717.00
4 Hand Copy Deliverables		0	0	1	0	1	12	0	0	0	0	4		24	\$ 2,321.00
5 Hand Copy Deliverables as Directed by GEC		0	0	1	0	1	12	0	0	0	0	4		24	\$ 2,321.00
ROW Mapping Total:		250	150	20	260	91	1320	358	22	16	46	200		2728	\$ 201,658.00
1.19 COORDINATION, MEETINGS AND INVOICING															
A) Attend Row Coordination Meetings		0	0	2	0	12	0	4	0	0	0	0		18	\$ 2,514.00
B) Invoicing		0	0	0	0	8	0	0	0	0	0	52		20	\$ 1,908.00
Coordination, Meeting and Invoicing Total:		0	0	2	0	20	0	4	0	0	0	12		38	\$ 4,422.00

Exhibit D
Summary of General Expenses
290E Work Authorization No. 3
ROW Maps and Documents Revisions
McGray & McGray Land Surveyors, Inc.

Item Description	Unit	Quantity	Unit Cost	Total Cost
Basic General Expenses				
I. Basic Printing and Reproduction				
A. Property Deeds	EA.	800	\$ 0.10	\$ 80.00
B. 66% Submittal 11" x 17"	EA.	0	\$ -	\$ -
C. Pre-Final Submittal 11" x 17"	EA.	0	\$ -	\$ -
D. Final Submittal 11" x 17"	EA.	0	\$ -	\$ -
E. Final Submittal 11" x 17" Mylar	EA.	0	\$ -	\$ -
II. Overnight Deliveries (FedEx)	EA.	0	\$ -	\$ -
III. Travel - Mingo	Miles	0	\$ 0.50	\$ -
Total Basic General Expenses:				\$ 80.00

Exhibit E
Rate Schedule
290E Work Authorization #3
ROW Maps and Documents Revisions

Labor Classification	Maximum Rate
LJA Engineering & Surveying, Inc.	
Project Manager	\$ 69.52
Senior Project Engineer	\$ 50.00
Engineer	\$ 46.06
Senior Engineering Technician	\$ 45.00
Engineering Technician	\$ 38.06
Clerical	\$ 20.80
The negotiated overhead rate:	177.70%
The negotiated profit rate:	10.00%
Actual billed rates are not to exceed the maximum rate.	
Documentation of hours worked is necessary to receive reimbursement.	

Labor Classification	Specified Rate
McGray & Mcgray Land Surveyors, Inc.	
RTK Field Crew	\$ 210.00
Principal	\$ 175.00
Project Manager	\$ 150.00
3-Man Crew	\$ 143.00
RPLS	\$ 128.00
2-Man Crew	\$ 112.00
GPS Processing	\$ 97.00
Field Coordinator	\$ 93.00
Senior Survey Tech	\$ 91.00
Survey Tech	\$ 66.00
Research	\$ 62.00
Clerical	\$ 59.00
Documentation of hours worked is necessary to receive reimbursement.	

EXHIBIT F
PARCEL LIST FOR ROW MAPS AND DOCUMENTS REVISIONSCreate new Parcels:

- 8A, parcel split
- 8B, parcel split
- 8B-E, new easement
- Tetco, new parcel
- 9A, parcel split
- 9B, parcel split
- 10A, parcel split
- 10B, parcel split
- Agan, new parcel
- 28-E, new easement
- 29-E, new easement
- 29-E, 2nd new easement
- 36A, parcel split
- 36A-E, new easement
- 36B, parcel split
- 36B-E, new easement
- 44A, parcel split
- 44B, parcel split
- 42-E, new easement
- 49-E, new easement
- 50-E, new easement
- 44-E, new easement
- 57-E, new easement
- SH130 easement, new easement
- 58-E, new easement
- 60-E, new easement
- 61-E, new easement
- 61-E, 2nd new easement
- "Lot 6" and "Lot 2", two new parcels; South of Parcel 15
- Corner Clip at North West Quadrant of US 290 and Parmer Lane

Revise Parcels:

- 2-AC, new location, revise Control of Access
- 4, add additional area
- 14, add additional area
- 15, add additional area
- 23-AC, new location
- 26, revise parcel
- 28, 29, 30-AC, 31, 32, 33-AC, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 44-AC, 45, 46, 47A, 47B, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, and 61, revised do to new Engineers Baseline alignment.
- 28, add additional area, revise ROW Line
- 29, new owner
- 31, new owner
- 32, new owner
- 39, new owner
- 41, add additional area
- 42, add additional area
- 46, add additional area
- 47A, add additional area
- 47B, add additional area, revise Control of Access
- 48, add additional area
- 49, add additional area
- 44, add additional area
- 57, add additional area
- 56, revise ROW line
- 7, add additional area
- 58, add additional area
- 60, add additional area
- 61, add additional area

EXHIBIT H-2
Central Texas Regional Mobility Authority
Subprovider Monitoring System Commitment Agreement

This commitment agreement is subject to the award and receipt of a signed contract from the Central Texas Regional Mobility Authority. *NOTE: Exhibit H-2 is required to be attached to each contract that does not include work authorizations. Exhibit H-2 is required to be attached with each work authorization. Exhibit H-2 is also required to be attached to each supplemental work authorization. If DBE/HUB Subproviders are used, the form must be completed and signed. If no DBE/HUB Subproviders are used, indicate with "N/A" on this line: _____ and attach with the work authorization or supplemental work authorization.*

Contract #: 08290E22702E Assigned Goal: 12.7 % Prime Provider: LJA Engineering & Surveying, Inc.

Work Authorization (WA)#: 3 WA Amount: \$279,445.56 Date: _____

Supplemental Work Authorization (SWA) #: _____ to WA #: _____ SWA Amount: _____

Revised WA Amount: _____

Description of Work <i>(List by category of work or task description. Attach additional pages, if necessary.)</i>	Dollar Amount <i>(For each category of work or task description shown.)</i>
Maps and Documents Revisions	\$279,445.56
Total Commitment Amount (Including all additional pages.)	\$279,445.56

IMPORTANT: The signatures of the prime and the DBE/HUB and Second Tier Subprovider, if any (both DBE and Non-DBE) and the total commitment amount must always be on the same page.

Provider Name: <u>LJA Engineering & Surveying, Inc.</u> Address: <u>5316 Highway 290 West, Suite 150</u> Phone # & Fax #: <u>512.439.4700 / 512.439.4716</u> Email: <u>jcollins@ljaengineering.com</u>	Name: <u>Jeff Collins, P.E.</u> <i>(Please Print)</i> Title: <u>Senior Vice President</u> _____ <div style="display: flex; justify-content: space-between;">SignatureDate</div>
DBE/HUB Sub Provider Subprovider Subprovider Name: VID Number: Address:	Name: _____ <i>(Please Print)</i> Title: _____ _____ <div style="display: flex; justify-content: space-between;">SignatureDate</div>