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

RESOLUTION NO. 09-07

183A Northern Extension
RTG Work Authorization No. 1

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, the first phase of the CTRMA's 183A Project was opened for use on March 3, 2007 with usage significantly above projections; and

WHEREAS, the design and construction of the 183A main lanes north from FM 1431 was anticipated to begin sometime after 2012; however, due to the success of the first phase of the 183A Project, it was determined that such efforts should be undertaken immediately regarding the extension of the main lanes from north of FM 1431 to north of RM 2243 (the "183A Main Lane Extension"); and

WHEREAS, in Resolution No. 08-50, dated August 27, 2008, the Board of Directors authorized the Executive Director and CTRMA staff to negotiate and enter into a Contract for Engineering Services with Rodriguez Transportation Group for design and engineering services for the 183A Main Lane Extension (the "RTG Contract") and the RTG Contract was finalized and executed; and

WHEREAS, it has been determined that the scope of work under the RTG Contract should be expanded to include extending the northern terminus of the planned 183A Main Lane Extension to include a bridge structure over planned CR 269, as well as address other improvements within the northern portion of 183A that would be beneficial to the 183A Project as a whole, all as described in Work Authorization No. 1 for the RTG Contract, substantially in the form set forth in Attachment "A" attached hereto and incorporated herein; and

WHEREAS, HNTB, as the CTRMA's General Engineering Consultant and the Project Manager for the 183A Main Lane Extension, has represented to the Board of Directors and CTRMA staff that the work reflected in Work Authorization No. 1 and the cost thereof are necessary and appropriate for the continued efficient and timely design of the 183A Main Lane Extension.

NOW THEREFORE, BE IT RESOLVED, that the Board of Directors approves Work Authorization No. 1 under the RTG Contract in substantially the form attached hereto as

Attachment "A" as it relates to the expansion of the scope of services to be provided thereunder, provided that any work commenced under Work Authorization No. 1 be subject to the terms and conditions of the RTG Contract.

Adopted by the Board of Directors of the Central Texas Regional Mobility Authority on the 25th day of February, 2009.

Submitted and reviewed by:

Tom Nielson
General Counsel for the Central
Texas Regional Mobility Authority

Approved:

Robert E. Tesch
Chairman, Board of Directors
Resolution Number 09-07
Date Passed 2/25/09

ATTACHMENT "A"
TO
RESOLUTION NO. 09-07
WORK AUTHORIZATION NO. 1
TO RTG CONTRACT

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Engineers Architects Planners

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www.hntb.com

HNTB

Memorandum

TO: Wes Burford, P.E.
Director of Engineering
CTRMA

FROM: Richard L. Ridings, PE. RPLS

DATE: February 05, 2009

SUBJECT: 183A North Extension PS&E – RTG Supplemental Scope and Fee Review

Rodriquez Transportation Group has submitted a Supplemental Scope and Fee for additional work added to the original Work Authorization No. 01 for CTRMA Contract No. 09183A24601E. This additional work is described as follows:

- Design and prepare construction plans for a new northbound exit ramp that will require a braided ramp configuration just north of New Hope Drive. The plans for this ramp will be incorporated into the plan set developed under the original Work Authorization.
- Extend project terminus north from +/-Station 385+00 to +/-Station 335+00. This extension will include the design and plan preparation for 183A Mainlanes, a bridge over existing RM 2243, a bridge over proposed Reveille Blvd. (CR 269), Reveille Blvd. Intersection within 183A R/W Limits, and temporary ramps from Mainlanes to existing Frontage Roads. The plans for this additional work will be incorporated into the plans developed under the original Work Authorization.
- Design and prepare construction plans for a new intersection at San Gabriel Parkway (CR 274) to include approximately 800-lf of San Gabriel Parkway extending west from 183A and will tie into existing San Gabriel Parkway. The plans for this intersection and short segment of roadway will be incorporated into the plans developed under the original Work Authorization.

The proposed supplemental fee is for the amount of **$1,160,776.**

Based on our review of the scope and fee, I would like to recommend approval of the supplemental scope and fee.

Please let me know if you have any questions or concerns.

Cc: Larry Shumway, P.E. HNTB
File

SUPPLEMENTAL WORK AUTHORIZATION NO. 01
TO WORK AUTHORIZATION NO. 01
CONTRACT FOR ENGINEERING SERVICES

THIS SUPPLEMENTAL 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 Rodriguez Transportation Group, Inc. (the Engineer) dated _____.

The following terms and conditions of Work Authorization No. 01 are hereby amended as follows:

PART I. The Engineer will perform engineering services generally described as transportation engineering and design services for additional work to the 183A North Extension Project. The design services shall include associated Roadway Design, Drainage Design, Structural Design and Landscape/Hardscape Design. The Description of additional work is as follows:

- Design and prepare construction plans for a new northbound exit ramp that will require a braided ramp configuration just north of New Hope Drive. The plans for this ramp will be incorporated into the plan set developed under the original Work Authorization.
- Extend project terminus north from +/-Station 385+00 to +/-Station 335+00. This extension will include the design and plan preparation for 183A Mainlanes, a bridge over existing RM 2243, a bridge over proposed Reveille Blvd. (CR 269), Reveille Blvd. Intersection within 183A R/W Limits, and temporary ramps from Mainlanes to existing Frontage Roads. The plans for this additional work will be incorporated into the plans developed under the original Work Authorization.
- Design and prepare construction plans for a new intersection at San Gabriel Parkway (CR 274) to include approximately 800-lf of San Gabriel Parkway extending west from 183A and will tie into existing San Gabriel Parkway. The plans for this intersection and short segment of roadway will be incorporated into the plans developed under the original Work Authorization.

The additional responsibilities of the State and Engineer are further detailed in Exhibits A and B, which are attached hereto and made a part of the Supplemental Work Authorization.

PART II. The maximum amount payable under this Lump Sum Work Authorization is increased by **$ 1,160,776.00** from **$ 3,772,580.00** to **$ 4,933,356.00**. The additional costs are shown in Exhibit D, Fee Schedule, attached hereto.

This Supplemental Work Authorization shall become effective on the date of final execution of the parties hereto. All other terms and conditions of Work Authorization No. 01 not hereby amended are to remain in full force and effect.

IN WITNESS WHEREOF, this Supplemental Work Authorization No. 1 is executed in duplicate counterparts and hereby accepted and acknowledged below.

THE ENGINEER	**CENTRAL TEXAS REGIONAL MOBILITY AUTHORITY**
_____	_____
(Signature)	(Signature)
_____	_____
(Printed Name)	Mike Heiligenstein
_____	_____
(Title)	Executive Director
_____	_____
(Date)	(Date)

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. Render reviews, decisions and approvals as promptly as necessary to allow for the expeditious performance of the Services to be provided by the Engineer.
3. 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.
4. Coordinate with the Engineer, local agencies, and utility companies in developing the design.
5. Review and approve the Engineer's progress schedule with milestone activities and/or deliverables identified.
6. 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.
7. Provide Project Design Guidelines.
8. Attend and participate in progress and coordination meetings, as required.

EXHIBIT B

SERVICES TO BE PROVIDED BY THE ENGINEER

The Design Consultant Engineer, herein referred to as the "Engineer", shall be responsible for the work described in this Scope of Services.

The additional Scope of Work to be performed by the Engineer under this Supplemental Work Authorization is described as follows:

- Design and prepare construction plans for a new northbound exit ramp that will require a braided ramp configuration just north of New Hope Drive. The plans for this ramp will be incorporated into the plan set developed under the original Work Authorization.
- Extend project terminus north from +/-Station 385+00 to +/-Station 335+00; referred to herein as the "**extended project limits**". This extension will include the design and plan preparation for 183A Mainlanes, a bridge over existing RM 2243, a bridge over proposed Reveille Blvd. (CR 269), Reveille Blvd. Intersection within 183A R/W Limits, and temporary ramps from Mainlanes to existing Frontage Roads. The plans for this additional work will be incorporated into the plans developed under the original Work Authorization.
- Design and prepare construction plans for a new intersection at San Gabriel Parkway (CR 274) to include approximately 800-lf of San Gabriel Parkway extending west from 183A and will tie into existing San Gabriel Parkway. The plans for this intersection and short segment of roadway will be incorporated into the plans developed under the original Work Authorization.

1.01 Design Features

A. The design progression for the elements associated with Work Authorization No. 1 and this Supplemental Work Authorization shall be as follows:

Initial Design – Review and refine horizontal and vertical geometry and proposed typical cross section for the design section. In preparation for the Design Concept Conference, the Engineer shall incorporate the supplemental design sections into the draft drainage impact study prepared for the original 183A Extension section, and also include supplemental sections on the Schematic design that illustrates any proposed changes. The supplemental sections shall also be included in the preliminary construction cost estimate.

60% Design - Prepare 60% plans for the roadway, striping, large guide signs, proposed structures, illumination, signals, ITS, Shared-Use Path, drainage design and erosion control.

Final Submittal – The final submittal shall be signed and sealed by a Professional Engineer registered in the State of Texas and provided in hard copy, electronic, and *.pdf formats with all comments resolved. The added scope items as defined by this scope shall be incorporated into the original set of construction documents developed under the original contract to form a single set of construction documents.

1.03 Data Collection

A. The Engineer shall collect, review and evaluate data associated with the design prepared by others for the Reveille Blvd (CR 269) and the San Gabriel Parkway (CR 274) cross street.

1.04 Geotechnical Investigation

A. The Engineer will present recommendations for the design of the additional bridge foundations, additional retaining wall foundations and additional sign structures as more fully described in Sections 1.11, 1.12 and 1.13 of this document. Recommendations will be based on the requirements set forth in Work Authorization No. 1 (Section 1.04, B thru F).

1.05 Supplemental Surveying

A. Topographic Survey

The Engineer shall:

1. Supplement existing topographic survey within the extended project limits as follows:
   a. Evaluate critical ROW points, at San Gabriel Parkway (CR 274), Reveille Blvd.(CR 269), and for the Shared-Use Path.
   b. Tie down existing drainage features including drop inlets, cross culvert and driveway culverts within the extended project limits.
   c. Tie down existing ramp abutment for the NB exit ramp just north of FM 1431.
   d. Tie down existing edge of pavement at the following proposed Frontage Road ramp gores: At the new NB Braided Ramp just north of New Hope Drive; at the two temporary ramp tie-ins just south of San Gabriel Parkway.
   e. Tie down the existing driveways within the extended project limits, tie down existing pavement at proposed San Gabriel Parkway (CR274) and Reveille Blvd. (CR269) intersections, provide topographic survey of a 200-ft wide swath of San Gabriel Parkway from the 183A R/W west for 1,000-ft.
   f. Visible utilities shall be located at the proposed intersections of Reveille Blvd. (CR 269) and San Gabriel Pkwy. (CR 274), and where the temporary ramps will tie into the Frontage Roads.

1.07 Utility Coordination and Design

A. The Engineer shall illustrate existing and proposed utility locations on the additional plan sheets that are a result of the extended project limits.

B. The Engineer shall review all available utility designs prepared or being proposed by others, within the extended project limits, for conflicts with the construction plans.

1.08 Initial Design and Design Concept Conference

A. The Engineer shall proceed with refinements to the final Schematic, associated with the extended project limits, as further defined in Work Authorization No. 1 (Section 1.08, D, 1 thru 8).

B. The Engineer shall include the extended project limits in the development of the proposed cross sections.

1.09 Roadway Design

A. Basic Plan Sheets

The Engineer will proceed with the development of the basic plan sheets associated with the extended project limits as further detailed below:

1. Prepare Project Layout Sheets at a scale of 1"=200' that clearly indicates the limits of the entire project.
2. Prepare Benchmark Layout Sheets at a scale of 1"=200' that clearly indicate the benchmark locations and associated control information. These sheets will later be sealed by a RPLS for submittal.

B. Roadway Plans & Geometry

The Engineer shall proceed with the development of the plan sheets associated with the extended project limits, as further defined in Work Authorization No. 1 (Section 1.09, B, 1 thru 11).

The Cross Street Plan and Profile and Intersection details will be included for both turnarounds at the Reveille Blvd. and the San Gabriel Parkway (CR 274) intersections, and the S-N turnaround at the RM 2243 intersection.

The extended limits of the Shared-Use Path are from Reveille Blvd. to RM 2243.

C. Grading and Details

The Engineer shall proceed with the development of grading and details associated with the extended project limits, as further defined in Work Authorization No. 1 (Section 1.09, C, 1 thru 4).

The limits associated with development of the landscape planting and hardscape plans are from San Gabriel Parkway (CR 274) and RM 2243.

1.10 Drainage Design

The Engineer shall proceed with the development of drainage design associated with the extended project limits, as further define in Work Authorization No. 1 (Section 1.10, B thru H).

G. Water Quality

It is anticipated that two (2) additional water quality ponds will be required. One of these ponds was identified in the preliminary water quality calculations at the following approximate location:

a. Sta. 308+50 (north and adjacent to San Gabriel Parkway (CR 274))

The Engineer will develop structural design and details required for one (1) of the two (2) additional water quality ponds.

1.11 Structural Design

The Engineer shall proceed with the development of the structural design associated with the two additional bridge crossings within the extended project limits and the two (2) added north bound bridges at FM 1431 and north of New Hope Drive, as further defined in Work Authorization No. 1 (Section 1.11)

Estimated Bridge Limits Table for the Extended Project Limits.

Description	**Approx. Length**	**Approx. Width**	**Estimated # of spans**	**Anticipated Beam Type**
NBML @ CR 269 – Reveille Blvd.	308'	58'	3	Type IV
SBML @ CR 269 – Reveille Blvd.	308'	58'	3	Type IV
NBML @ RM 2243	490'	58'	5	Type IV
SBML @ RM 2243	490'	58'	5	Type IV
New NB Ramp @ New Hope	895'	26'	8	Type IV

1.12 Retaining Wall Design

The Engineer shall proceed with the development of the retaining wall design associated with the extended project limits and the added northbound bridge north of New Hope Drive, as further defined in Work Authorization No. 1 (Section 1.12)

Proposed Retaining Wall Table

Description	Approximate Location	Approximate Length	Type
NBML	Sta. 345+00 to Sta. 363+00	1800'	MSE
SBML	Sta. 345+00 to Sta. 363+00	1800'	MSE
NBML	Sta. 366+50 to Sta. 381+00	1450'	MSE
SBML	Sta. 366+50 to Sta. 381+00	1000'	MSE
NBML	Sta. 388+48 to Sta. 397+00	852'	MSE
SBML	Sta. 388+48 to Sta. 394+00	552'	MSE
NBML	NB Ramp at New Hope Braided Ramp	1900'	MSE
ML Abut	Sta. 363+20	152'	MSE
ML Abut	Sta. 366+30	152'	MSE
ML Abut	Sta. 381+00	152'	MSE

ML Abut	Sta. 388+49	152'	MSE
ML Abut	Sta. 601+00	70'	MSE

1.13 Signing, Markings and Signalization

The Engineer shall proceed with the development of the signing, marking and signalization design associated with the extended project limits, as further defined in Work Authorization No. 1 (Section 1.13)

Traffic Signal Plans shall be provided at the following additional intersections:

1. 183A Frontage Roads at Reveille Boulevard (CR269).
2. 183A Frontage Roads at San Gabriel Parkway (CR274) – Signal heads may be covered in the interim condition.

1.14 Traffic Control Plan (TCP)

The Engineer shall proceed with the development of the TCP design associated with the extended project limits, as further defined in Work Authorization No. 1 (Section 1.14)

1.15 Intelligent Transportation Systems (ITS)

The Engineer shall proceed with the development of the ITS design associated with the extended project limits, as further defined in Work Authorization No. 1 (Section 1.15)

1.16 Illumination

The Engineer shall proceed with the development of the Illumination design associated with the extended project limits, as further defined in Work Authorization No. 1 (Section 1.16)

Underpass lighting shall be provided at the following additional locations: new NB braided ramp, RM 2243, and Reveille Blvd. (CR 269)

1.18 Miscellaneous

The Engineer shall proceed with the development of Miscellaneous tasks associated with the extended project limits, as further defined in Work Authorization No. 1 (Section 1.18).

C. Deliverables

The Engineer will submit twelve (12) 11" X 17" paper copies at the 60% Submittal. Final PS&E submittal shall include twelve (12) 11" X 17" paper copies in addition to the signed, sealed and dated 11" x 17" Final Hard Copy including all supporting documentation and paperwork.

1.19 Coordination, Meetings & Invoicing

The Engineer shall thoroughly review design plans, calculations and cost estimates associated with the extended project limits before submittal to the GEC or CTRMA.

Central Texas Regional [illegible]ity Authority
Con[illegible]
183A Extension (RM [illegible]outh to FM 1431)

EXHIBIT D COMPENSATION SUMMARY

CATEGORY	RTC		HDR		K FRIESE		GRAF JANSING		AGUIRRE & FIELDS		H.S.A.		GRS		RIVERA		INLAND		PIGRO		TOTALS	
	HOURS	COST	HOURS	COST	HOURS	COST	HOURS	COST	HOURS	COST	HOURS	COST	HOURS	COST	HOURS	COST	HOURS	COST	HOURS	COST	HOURS	COST
1.01 GOVERNMENTAL AGENCY COORDINATION		$																				$
1.02 DATA COLLECTION		$																				$
1.03 GEOTECHNICAL INVESTIGATION		$																				$
1.04 SUPPLEMENTAL SURVEYING		$																				$
1.05 ROW MAPPING		$																				$
1.06 UTILITY COORDINATION AND DESIGN		$																				$
1.07 INITIAL DESIGN AND DCE		$																				$
1.08 ROADWAY DESIGN		$																				$
1.09 DRAINAGE DESIGN		$																				$
1.10 STRUCTURAL DESIGN		$																				$
1.11 RETAINING WALL DESIGN		$																				$
1.12 SIGNING, MARKINGS AND SIGNALIZATION		$																				$
1.13 TRAFFIC CONTROL PLAN		$																				$
1.14 TRAFFIC MANAGEMENT SYSTEMS		$																				$
1.15 ILLUMINATION		$																				$
1.16 TOLL FACILITY DESIGN		$																				$
1.17 MISCELLANEOUS		$																				$
1.18 COORDINATION, MEETINGS & INVOICING		$																				$
DIRECT SALARY SUBTOTAL		$																				$
OVERHEAD		$																				$
PROFIT		$																				$
TOTAL LABOR COST		$																				$
DIRECT EXPENSES		$																				$
TOTALS		$																				$
ORE PERCENTAGE																						
OVERALL PERCENTAGES																						

	RTC			HDR			K FRIESE			GRAF JANSING			AGUIRRE & FIELDS			H.S.A.			GRS			RIVERA			INLAND			PIGRO			TOTALS
	ORIG	REVISED	% ORIG	ORIG	REVISED	% ORIG	ORIG	REVISED	% ORIG	ORIG	REVISED	% ORIG	ORIG	REVISED	% ORIG	ORIG	REVISED	% ORIG	ORIG	REVISED	% ORIG	ORIG	REVISED	% ORIG	ORIG	REVISED	% ORIG	ORIG	REVISED	% ORIG	ORIG
1.01 GOVERNMENTAL AGENCY COORDINATION																															
1.02 DATA COLLECTION																															
1.03 GEOTECHNICAL INVESTIGATION																															
1.04 SUPPLEMENTAL SURVEYING																															
1.05 ROW MAPPING																															
1.06 UTILITY COORDINATION AND DESIGN																															
1.07 INITIAL DESIGN AND DCE																															
1.08 ROADWAY DESIGN																															
1.09 DRAINAGE DESIGN																															
1.10 STRUCTURAL DESIGN																															
1.11 RETAINING WALL DESIGN																															
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1.16 TOLL FACILITY DESIGN																															
1.17 MISCELLANEOUS																															
1.18 COORDINATION, MEETINGS & INVOICING																															

RODRIGUEZ TRANSPORTATION GROUP, INC.

TASK Hourly Rate	SHEETS	PROJECT MANAGER $ 64.00	SENIOR ENGINEER $ 61.00	PROJECT ENGINEER $ 43.00	DESIGN ENGINEER $ 40.00	ENGINEER $ 37.00	EIT $ 29.00	SR. ENGR. SPECIALIST $ 44.00	SR. ENGR. TECH. $ 37.00	ENGR. TECH. $ 33.00	ADMIN. $ 21.00	SUB TOTALS	2 682848 1st Street BUDGET
1.02 GOVERNMENTAL AGENCY COORDINATION													
SUB-TOTAL NUMBER OF SHEETS:													
SUB-TOTAL HOURS:													
SUB-TOTAL LABOR COST:		$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
1.03 DATA COLLECTION													
A Collect, Review and Evaluate Data		2	4		4				8			18	
SUB-TOTAL NUMBER OF SHEETS:												Column Total = 18	
SUB-TOTAL HOURS:		2	4		4				8			Row Total = 18	
SUB-TOTAL LABOR COST:		$ 128	$ 244	$ -	$ 160	$ -	$ -	$ -	$ 296	$ -	$ -	$ 828	$ 2,221.40
1.04 GEOTECHNICAL INVESTIGATION													
A Coordination		4		4								8	
SUB-TOTAL NUMBER OF SHEETS:												Column Total = 0	
SUB-TOTAL HOURS:		4		4								Row Total = 8	
SUB-TOTAL LABOR COST:		$ 256	$ -	$ 172	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 428	$ 1,148.26
1.05 SUPPLEMENTAL SURVEYING													
A Coordination		4		4								8	
SUB-TOTAL NUMBER OF SHEETS:												Column Total = 8	
SUB-TOTAL HOURS:		4		4								Row Total = 8	
SUB-TOTAL LABOR COST:		$ 256	$ -	$ 172	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 428	$ 1,148.26
1.06 ROW MAPPING													
SUB-TOTAL NUMBER OF SHEETS:													
SUB-TOTAL HOURS:													
SUB-TOTAL LABOR COST:		$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
1.07 UTILITY COORDINATION AND DESIGN													
A Illustrate existing and proposed utility locations on Roadway Plans and Profiles			2		6				8	8		24	
B Review utility relocations plans for clearance of conflicts			2		2							4	
SUB-TOTAL NUMBER OF SHEETS:												Column Total = 28	
SUB-TOTAL HOURS:			4		8				8	8		Row Total = 28	
SUB-TOTAL LABOR COST:		$ -	$ 244	$ -	$ 320	$ -	$ -	$ -	$ 296	$ 264	$ -	$ 1,124	$ 3,015.52
1.08 INITIAL DESIGN AND DCC													
D Schematic Refinements													
1 Horizontal and Vertical Refinements			8	4	8				10	10		44	
2 Verify Vertical Clearances			2		4							6	
3a Refine cross sections and geometry			2	2				10				14	
3b Finalize bridge limits and span arrangements			2						10			12	
3c Finalize location of CSD, toll gantries and the shared use path		2						10				12	
3d Development of feasible construction sequence			2		6				5	5		18	
4 Coordinate modifications with the DEC		2	2									4	
5 Aesthetics Applicability Analysis			2		2							4	
F Develop Proposed Cross Sections			4	4	4			10				22	

RODRIGUEZ TRANSPORTATION GROUP, INC.

TASK / Hourly Rate	SHEETS	PROJECT MANAGER $ 64.00	SENIOR ENGINEER $ 61.00	PROJECT ENGINEER $ 43.00	DESIGN ENGINEER $ 40.00	ENGINEER $ 37.00	EIT $ 29.00	SR. ENGR. SPECIALIST $ 44.00	SR. ENGR. TECH. $ 37.00	ENGR. TECH. $ 33.00	ADMIN. $ 21.00	SUB TOTALS	2.082848 Hr Sheet
SUB-TOTAL NUMBER OF SHEETS:												Column Total = 136	
SUB-TOTAL HOURS:		4	24	14	24			30	25	15		Row Total = 136	
SUB-TOTAL LABOR COST:		$ 256	$ 1,464	$ 602	$ 960	$ -	$ -	$ 1,320	$ 925	$ 495	$ -	$ 6,022	$ 16,156.11
1.09 ROADWAY DESIGN													
A Basic Plan Sheets													
1 Project Layouts	2			4					8	8		20	10.0
2 Benchmark Layouts	2			2					2	3		10	5.0
B Roadway Plans & Geometry													
1 Proposed Typical Sections	2	4	4	4				8	10	10		40	20.0
2 Existing Typical Sections													#DIV/0!
3 Maintane Plan and Profiles	5	6	6	8	8	8		8	40	40		124	24.8
4 Frontage Road Plan and Profiles	8	4	8	16	20	20			40	40		148	18.5
5 Cross Street Plan and Profiles													
5a Cross Streets (San Gabriel Pkwy. and Roseville Blvd.)	3	9	9		9			18	15	15		75	25.0
5b Drains PAP sheets (2 at San Gabriel Pkwy. 2 at Roseville and 1 at RM 2243)	5	16	16		24				32	32		120	24.0
5c Intersection detail sheets	6	12	12		12	12		12	36	36		120	20.0
6 Ramp Plan and Profiles (Temp Ramps @ Northern Project and Braided Ramp)	9	16	16		20				60	40		152	25.3
7 Ramp Clore Layouts (Temp Ramps @ Northern Project and Braided Ramp)	4	4	4		16	8			24	24		80	20.0
8 Horizontal Alignment Data Sheets	1		1						4			5	5.0
9 Miscellaneous Curve Data Sheets	1		2		8				5			15	15.0
10 Superelevation Data Sheets	1		2						8			10	10.0
11 Shared Use Path Plan and Profile (Coordination)	5	5							5			10	2.0
C Grading and Details													
1 Prepare Design Cross Sections		10	10					40				60	
2 Prepare Driveway Plan and Profile Sheets	1		2		4	4			10			20	20.0
3 Develop Miscellaneous Roadway Details	3	10	10		30				20	20		80	26.7
4 Develop Landscape & Hardscape Plans (Coordination)		5						5	5			15	
SUB-TOTAL NUMBER OF SHEETS:	55												
SUB-TOTAL HOURS:		101	102	34	141	52		91	320	263		Column Total = 1,104 Row Total = 1,104	
SUB-TOTAL LABOR COST:		$ 6,464	$ 6,222	$ 1,462	$ 5,640	$ 1,924	$ -	$ 4,004	$ 11,840	$ 8,679	$ -	$ 46,235	$ 124,041.48
1.10 DRAINAGE DESIGN													
A Review Drainage Analyses/Reports		2	2									4	
B Drainage Impact Study (Coordination)		2										2	
C Bridge and Culvert Plan Sheet (Coordination)		2	2									4	
D Storm Drain Plan Sheets (Cross Section Coordination)		2	2					20				24	
E Scour Analysis (Coordination)		1										1	
F Storm Water Pollution Prevention Plans (SWPPs) (Coordination)			2						6			8	
G Water Quality /Cross Section Coordination)		2						20				22	
H TCEQ Continuing Zone Plan (Coordination)		2										2	
SUB-TOTAL NUMBER OF SHEETS:													
SUB-TOTAL HOURS:		13	8					40	6			Column Total = 67 Row Total = 67	
SUB-TOTAL LABOR COST:		$ 832	$ 488	$ -	$ -	$ -	$ -	$ 1,760	$ 222	$ -	$ -	$ 3,302	$ 8,858.76
1.11 STRUCTURAL DESIGN													
A Coordination		5	5					5				15	

RODRIGUEZ TRANSPORTATION GROUP, INC.

TASK / Hourly Rate	SHEETS	PROJECT MANAGER $ 64.00	SENIOR ENGINEER $ 61.00	PROJECT ENGINEER $ 45.00	DESIGN ENGINEER $ 42.20	ENGINEER $ 27.00	EIT $ 29.00	SR. ENGR. SPECIALIST $ 44.00	SR. ENGR. TECH. $ 37.00	ENGR. TECH. $ 33.00	ADMIN. $ 21.00	SUB TOTALS	2.662848 hr Shee
SUB-TOTAL NUMBER OF SHEETS:												Column Total = 79	
SUB-TOTAL HOURS:		5	5					5				Row Total = 15	
SUB-TOTAL LABOR COST:		$ 320	$ 305	$ -	$ -	$ -	$ -	$ 220	$ -	$ -	$ -	$ 845	$ 2,267.01
1.12 RETAINING WALL DESIGN													
A. Retaining Walls													
1. Retaining Wall Determinations		2	2									4	
2. Overall Retaining Wall Layouts Sheets	1		2						8			10	12.0
3. Retaining Wall Layout Sheets	27	24	24	60	80	80		120	160	160		708	26.2
4. Structural details for non-proprietary wall designs													
5. Temporary Shoring Needs													
6. Retaining Wall Typical Sections	2	4	4		6			15	15			44	22.0
7. Retaining Wall Horizontal Alignment Data Sheets	3					5			10			15	5.0
B. Soil Nailing Lugs (Coordination)			6							4		10	
C. Context Sensitive Design (Coordination)		2	6									10	
SUB-TOTAL NUMBER OF SHEETS:	33												
SUB-TOTAL HOURS:		32	46	60	86	85		135	193	164		Column Total = 801	
SUB-TOTAL LABOR COST:		$ 2,048	$ 2,806	$ 2,580	$ 3,440	$ 3,145	$ -	$ 5,940	$ 7,141	$ 5,412	$ -	Row Total = 801	
1.13 SIGNING, MARKINGS AND SIGNALIZATION												$ 32,512	$ 87,224.75
A. Review Preliminary Signing Plan			2									2	
B. Signing and Pavement Marking Layout (Coordination)		2							5			7	
D. Large Sign Details	1	2						10		4		16	16.0
E. Overhead Sign Structure Elevations													
I. Large Sign Elevations	3	6						20	20	14		60	20.0
II. Aesthetic and Foundation Coordination		2	2									4	
F. Traffic Signal Plans (Coordination)		2										2	
I. Temporary Traffic Signal Plan (Coordination)													
SUB-TOTAL NUMBER OF SHEETS:	4												
SUB-TOTAL HOURS:		14	4					30	25	18		Column Total = 91	
SUB-TOTAL LABOR COST:		$ 896	$ 244	$ -	$ -	$ -	$ -	$ 1,320	$ 925	$ 594	$ -	Row Total = 91	
1.14 TRAFFIC CONTROL PLAN												$ 3,979	$ 19,975.05
A. Detailed Traffic Control Plan Sheets	5	12	12					20	30	30		94	18.8
B. Traffic Control Typical Sections	1		2	2				0	8			20	20.0
C. TCP Overview Plans	1	1		4				0	8			21	21.0
D. Sequence of Construction Narratives	1	4	4		8				4			20	20.0
F. Traffic Control Details	1		4						12			16	16.0
H. Construction Schedule		5			5							10	
I. Road Closure Detour layouts	1	2	6		8				8			24	
SUB-TOTAL NUMBER OF SHEETS:	10												
SUB-TOTAL HOURS:		24	28	6	21			36	70	20		Column Total = 205	
												Row Total = 205	

RODRIGUEZ TRANSPORTATION GROUP, INC.

TASK Hourly Rate	SHEETS	PROJECT MANAGER $ 64.00	SENIOR ENGINEER $ 61.00	PROJECT ENGINEER $ 43.00	DESIGN ENGINEER $ 43.00	ENGINEER $ 27.00	EIT $ 29.00	SR. ENGR. SPECIALIST $ 44.00	SR. ENGR. TECH. $ 37.00	ENGR. TECH. $ 33.00	ADMIN. $ 21.00	SUB TOTALS	2 682848 hr Sheet
SUB-TOTAL LABOR COST:		$ 1,536	$ 1,708	$ 258	$ 840	$ -	$ -	$ 1,584	$ 2,590	$ 660	$ -	$ 9,176	$ 24,617.61
1.15 INTELLIGENT TRANSPORTATION SYSTEMS													
A. ITS Design Coordination		2							5			7	
SUB-TOTAL NUMBER OF SHEETS:												Column Total = 7	
SUB-TOTAL HOURS:		2							5			Row Total = 7	
SUB-TOTAL LABOR COST:		$ 128	$ -	$ -	$ -	$ -	$ -	$ -	$ 185	$ -	$ -	$ 313	$ 839.73
1.16 ILLUMINATION													
A. Coordination		2							5			7	
SUB-TOTAL NUMBER OF SHEETS:												Column Total = 7	
SUB-TOTAL HOURS:		2							5			Row Total = 7	
SUB-TOTAL LABOR COST:		$ 128	$ -	$ -	$ -	$ -	$ -	$ -	$ 185	$ -	$ -	$ 313	$ 839.73
1.17 TOLL FACILITY DESIGN													
A. Coordination													
SUB-TOTAL NUMBER OF SHEETS:													
SUB-TOTAL HOURS:													
SUB-TOTAL LABOR COST:		$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
1.18 MISCELLANEOUS													
A. Quantities & Summaries (60% Pre-Final and Final)	2	4	4		10	10			20			48	24.0
B. Standards, Specifications and Estimates													
3. Prepare Specifications and Provisions			4	4									
4. Prepare General Notes		5	5	5					20			35	
5. Construction Cost Estimate			5	5					10			20	
SUB-TOTAL NUMBER OF SHEETS:	2											Column Total = 131	
SUB-TOTAL HOURS:		9	18	14	10	10			70			Row Total = 131	
SUB-TOTAL LABOR COST:		$ 576	$ 1,098	$ 602	$ 400	$ 370	$ -	$ -	$ 2,590	$ -	$ -	$ 5,636	$ 15,129.53
1.19 COORDINATION, MEETINGS & INVOICING													
E. QA QC													
1. QA/QC Plan Development		10	10						40			60	
SUB-TOTAL NUMBER OF SHEETS:												Column Total = 60	
SUB-TOTAL HOURS:		10	10						40			Row Total = 60	
SUB-TOTAL LABOR COST:		$ 640	$ 610	$ -	$ -	$ -	$ -	$ -	$ 1,480	$ -	$ -	$ 2,730	$ 7,324.10
1.20 CONSTRUCTION PHASE SERVICES													
A. Coordination													
SUB-TOTAL NUMBER OF SHEETS:													
SUB-TOTAL HOURS:													
SUB-TOTAL LABOR COST:		$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	
TOTAL NUMBER OF SHEETS:	104												
TOTAL HOURS:		226	253	136	294	147		367	775	488		Row Total = 2,686	$ 305,498.58
TOTAL LABOR COST:		$ 14,464	$ 15,433	$ 5,848	$ 11,760	$ 5,439	$ -	$ 16,148	$ 28,675	$ 16,104	$ -	$ 113,871	$ 305,498.58
OVERHEAD	139.54%											158,896	
DIRECT SALARY PLUS OVERHEAD												272,767	
PROFIT	12.00%											32,732	
TOTAL LABOR COST												$ 305,499	

RODRIGUEZ TRANSPORTATION GROUP, INC.

TASK Hourly Rate	SHEETS	PROJECT MANAGER $ 64.00	SENIOR ENGINEER $ 61.00	PROJECT ENGINEER $ 43.00	DESIGN ENGINEER $ 43.00	ENGINEER $ 37.00	EIT $ 29.00	SR. ENGR. SPECIALIST $ 44.00	SR. ENGR. TECH. $ 37.00	ENGR. TECH. $ 33.00	ADMIN. $ 21.00	SUB TOTALS	2,662848 Hr Sheet
DIRECT EXPENSES:	**Travel:**												
	Mileage					miles	miles			$0.49 per mile			
	Per diem					days	days			$55.00 per day			
	Lodging					nights	nights			$100.00 per night			
	Copies:												
	Reproduction					copies	copies			$0.20 per copy			
	Media (mylar)					sheets	sheets			$1.00 per sheet			
	Misc Expenses:												
	Express delivery					each	each			$25.00 per each			
	Research Materials												
TOTAL DIRECT EXPENSES:												$ -	$ -
RTG ENGINEERING TOTAL COST												$ 305,499	$ 305,498.58

HDR ENGINEERING, INC.

TASK Hourly Rate	SHEETS	PROJECT MANAGER $68.00	SENIOR SPECIALIST	SENIOR STRUCTURAL ENGINEER $61.00	SENIOR PROJECT ENGINEER $54.00	PROJECT ENGINEER or SR. LAND ARCH $47.00	ENGINEER $39.00	EIT $28.00	SR. ENGR. TECH. or LAND ARCH $36.00	ENGR. TECH. $24.00	CLERICAL $20.00	SUB TOTALS	Hr Sheet
1.02 GOVERNMENTAL AGENCY COORDINATION													
SUB-TOTAL NUMBER OF SHEETS:													
SUB-TOTAL HOURS:													
SUB-TOTAL DIRECT SALARY COST:		$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	
1.08 INITIAL DESIGN AND DCC													
D Schematic Refinements													
3b Finalize bridge limits and span arrangements		4							2	2		8	
6 Prepare and Submit Bridge Layouts		2		6								10	
SUB-TOTAL NUMBER OF SHEETS:													
SUB-TOTAL HOURS:		6		6					2	2		Column Total = 18 Row Total = 18	
SUB-TOTAL DIRECT SALARY COST:		$ 408	$ -	$ 488	$ -	$ -	$ -	$ -	$ 72	$ 48	$ -	$ 1,016	
1.09 ROADWAY DESIGN													
C Grading and Details													
4c Develop Hardscaping Plan Details for two intersections	14	8				60			160			228	16.3
4d Develop Landscape Plan Details for two intersections	14	8				68			160			236	16.9
4e Develop Planter Details for two intersections	3	6				10			22			38	12.7
4f QA/QC Landscape/Hardscape plans		12										12	#DIV/0!
SUB-TOTAL NUMBER OF SHEETS:	31												
SUB-TOTAL HOURS:		34				138			342			Column Total = 514 Row Total = 514	
SUB-TOTAL LABOR COST:		$ 2,312	$ -	$ -	$ -	$ 6,486	$ -	$ -	$ 12,312	$ -	$ -	$ 21,110	
1.11 STRUCTURAL DESIGN													
A.1 Bridge Layouts													
Bridge 1 - NB Mainlanes over CR 269	2	2			8		60		30	30		130	65.0
Bridge Layout, Typical Sections, Foundation Layout													
Bridge 2 - SB Mainlanes over CR 269	2	2			8		60		30	30		130	65.0
Bridge Layout, Typical Sections, Foundation Layout													
Bridge 3 - NB Mainlanes over FM 2243	5	8			24		154		72	72		330	66.0
Bridge Layout, Typical Sections, Foundation Layout													
Bridge 4 - SB Mainlanes over FM 2243	5	8			24		154		72	72		330	66.0
Bridge Layout, Typical Sections, Foundation Layout													
Bridge 5 - NB Braided Ramp	4	20				120			60	60		260	65.0
Bridge Layout, Typical Sections, Foundation Layout													
A.2 Bridge Type & Cost Report		4		24									
B Prepare Bridge Calculations for Submittal		14		8				24		48	4	104	
Bridge 1 - NB Mainlanes over CR 269								8			60	80	
D Estimate Quantities/ Bearing Seat Elevations													
E.1 Begin Bridge Abutment Details	1	2		4		10			8	8		32	32.0
E.2 End Bridge Abutment Details	2	4		4		24			16	16		64	32.0
F.1 One Interior Bent Details	2	4		4		24			16	16		64	32.0
G.1 Framing Plan - 2 Unit (excludes prestressed beam design)	3	6		8		36			24	22		96	32.0
H.1 Slab Plan - Unit 1	2	4		4		12			16	12		48	24.0
H.2 Slab Plan - Unit 2	1	2		4		12			10	8		36	36.0
Bridge 2 - SB Mainlanes over CR 269	1	2		4		12			10	8		36	36.0
D Estimate Quantities/ Bearing Seat Elevations													
E.1 Begin Bridge Abutment Details	1	2		4		10			8	8		32	32.0
E.2 End Bridge Abutment Details	2	4		4		24			16	16		64	32.0
F.1 One Interior Bent Details	2	4		4		24			16	16		64	32.0
G.1 Framing Plan - 2 Unit (excludes prestressed beam design)	3	6		8		36			24	22		96	32.0
H.1 Slab Plan - Unit 1	2	4		4		12			16	12		48	24.0
H.2 Slab Plan - Unit 2	1	2		4		12			10	8		36	36.0
Bridge 3 - NB Mainlanes over FM 2243	1	2		4		12			10	8		36	36.0
D Estimate Quantities/ Bearing Seat Elevations													
E.1 Single Bridge Abutment Details	2	2		4				10	8	8		32	32.0
		4		8				22	16	16		64	32.0

HDR ENGINEERING, INC.

TASK Hourly Rate	SHEETS	PROJECT MANAGER $68.00	SENIOR SPECIALIST	SENIOR STRUCTURAL ENGINEER $61.00	SENIOR PROJECT ENGINEER $54.00	PROJECT ENGINEER or SR. LAND ARCH $47.00	ENGINEER $39.00	EIT $28.00	SR. ENGR TECH. or LAND ARCH $36.00	ENGR. TECH. $24.00	CLERICAL $20.00	SUB TOTALS	Hr Sheet
E_2 End Bridge Abutment Details	2	4		8				22	16	16		64	32.0
F_1 Three Interior Bent Details	7	14		24				96	48	42		224	32.0
G 1 Framing Plan - 3 Units (includes prestressed beam design)	3	6		12			12		24	18		72	24.0
H 1 Slab Plan - Unit 1	1	2		8			10		8	8		36	36.0
H 2 Slab Plan - Unit 2	1	2		8			8		10	8		36	
H 3 Slab Plan - Unit 3	1	2		8			8		10	8		36	36.0
Bridge 4 - SB Mainlanes over FM 2243													
D Estimate Quantes/ Bearing Seat Elevations	1	2		4				10	8	8		32	32.0
E_1 Begin Bridge Abutment Details	2	4		8				22	16	16		64	32.0
E_2 End Bridge Abutment Details	2	4		8				22	16	16		64	32.0
F_1 Three Interior Bent Details	7	14		24				96	48	42		224	32.0
G 1 Framing Plan - 3 Units (includes prestressed beam design)	3	6		12			12		24	18		72	24.0
H 1 Slab Plan - Unit 1	1	2		8			10		8	8		36	36.0
H 2 Slab Plan - Unit 2	1	2		8			8		10	8		36	
H 3 Slab Plan - Unit 3	1	2		8			8		10	8		36	36.0
Bridge 5 - NB Braided Ramp													
D Estimate Quantes/ Bearing Seat Elevations	1	2			10		4		8	8		32	32.0
E_1 Begin Bridge Abutment Details	2	4		4			24		16	16		64	32.0
E_2 End Bridge Abutment Details	2	4		4			24		16	16		64	32.0
F_1 Four Interior Bent Details	12	24			152		88		96	94		456	38.0
G 1 Framing Plan - 2 Units (includes prestressed beam design)	2	4		4				12	16	12		48	24.0
H 1 Slab Plan - Unit 1	1	2			12		4		10	8		36	36.0
H 2 Slab Plan - Unit 2	1	2			12		4		10	8		36	36.0
H 6 Miscellaneous Slab Details	1	2			12		4		10	8		36	36.0
J Miscellaneous Details	1	2			12		4		10	8		36	36.0
SUB-TOTAL NUMBER OF SHEETS:	101											Column Total = 4,062	
SUB-TOTAL HOURS:		224		260	274	380	660	344	938	910	64	Row Total = 4,062	
SUB-TOTAL DIRECT SALARY COST:		$ 15,232	$ -	$ 15,860	$ 14,796	$ 17,860	$ 25,740	$ 9,632	$ 33,768	$ 22,032	$ 1,280	$ 156,200	
1.12 RETAINING WALL DESIGN													
SUB-TOTAL NUMBER OF SHEETS:													
SUB-TOTAL HOURS:													
SUB-TOTAL DIRECT SALARY COST:		$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	
1.13 SIGNING, MARKINGS AND SIGNALIZATION													
SUB-TOTAL NUMBER OF SHEETS:													
SUB-TOTAL HOURS:													
SUB-TOTAL DIRECT SALARY COST:		$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	
1.17 TOLL FACILITY DESIGN													
SUB-TOTAL NUMBER OF SHEETS:													
SUB-TOTAL HOURS:													
SUB-TOTAL DIRECT SALARY COST:		$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	
1.18 MISCELLANEOUS													
5 Construction Costs Estimate		2					6	6				14	
SUB-TOTAL NUMBER OF SHEETS:													
SUB-TOTAL HOURS:		2					6	6				Column Total = 14 Row Total = 14	
SUB-TOTAL DIRECT SALARY COST:		$ 136	$ -	$ -	$ -	$ -	$ 234	$ 168	$ -	$ -	$ -	$ 538	
1.19 COORDINATION, MEETINGS & INVOICING													
E QA/QC													
3 Structural QA/QC Reviews				60							16	76	

HDR ENGINEERING, INC.

TASK Hourly Rate:	SHEETS	PROJECT MANAGER $68.00	SENIOR SPECIALIST	SENIOR STRUCTURAL ENGINEER $61.00	SENIOR PROJECT ENGINEER $54.00	PROJECT ENGINEER or SR. LAND ARCH $47.00	ENGINEER $39.00	EIT $28.00	SR. ENGR. TECH. or LAND ARCH $36.00	ENGR. TECH. $24.00	CLERICAL $20.00	SUB TOTALS	Hr/Sheet
SUB-TOTAL NUMBER OF SHEETS:												Column Total = 76	
SUB-TOTAL HOURS:				60							16	Row Total = 76	
SUB-TOTAL DIRECT SALARY COST:		$ -	$ -	$ 3,660	$ -	$ -	$ -	$ -	$ -	$ -	$ 320	$ 3,980	
TOTAL NUMBER OF SHEETS:	101											Column Total = 4,084	
TOTAL HOURS:		266		328	274	518	666	350	1282	920	80	Row Total = 4,684	
DIRECT SALARY COST		$ 18,088	$ -	$ 20,008	$ 14,796	$ 24,346	$ 25,974	$ 9,800	$ 46,152	$ 22,080	$ 1,600	$ 182,844	

K FRIESE AND ASSOCIATES, INC.

TASK Hourly Rate	SHEETS	PROJECT MANAGER $ -	SENIOR SPECIALIST $ -	SENIOR BRIDGE ENGINEER $ -	SENIOR PROJECT ENGINEER $ 56.50	SENIOR ENGINEER $ 44.50	ENGINEER $ 36.00	EIT $ 28.50	SR. ENGR. TECH. $ 28.50	ENGR. TECH $ 20.00	CLERICAL $ 19.50	SUB TOTALS	2 910432 16 Sheet	
1.02 GOVERNMENTAL AGENCY COORDINATION														BUDGET
A. Coordination														
1. TxDOT - 1 meetings														
2. City of Cedar Park - 1 meetings														
3. City of Leander - 1 meetings														
4. Williamson County - 1 meetings														
SUB-TOTAL NUMBER OF SHEETS:														
SUB-TOTAL HOURS:														
SUB-TOTAL LABOR COST:		$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	
1.03 DATA COLLECTION														
A. Collect, Review and Evaluate Data					1			2	3		1	6		
B. Field Investigations														
SUB-TOTAL NUMBER OF SHEETS:												Column Total = 6		
SUB-TOTAL HOURS:					1			2	2		1	Row Total = 6		
SUB-TOTAL LABOR COST:		$ -	$ -	$ -	$ 57	$ -	$ -	$ 57	$ 57	$ -	$ 20	$ 190	$	552.98
1.04 GEOTECHNICAL INVESTIGATION														
A. Coordination														
SUB-TOTAL NUMBER OF SHEETS:														
SUB-TOTAL HOURS:														
SUB-TOTAL LABOR COST:		$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	
1.05 SUPPLEMENTAL SURVEYING														
A. Coordination					2		4					6		
SUB-TOTAL NUMBER OF SHEETS:												Column Total = 6		
SUB-TOTAL HOURS:					2		4					Row Total = 6		
SUB-TOTAL LABOR COST:		$ -	$ -	$ -	$ 113	$ -	$ 144	$ -	$ -	$ -	$ -	$ 257	$	747.38
1.06 ROW MAPPING														
A. Coordination														
SUB-TOTAL NUMBER OF SHEETS:														
SUB-TOTAL HOURS:														
SUB-TOTAL LABOR COST:		$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	
1.07 UTILITY COORDINATION AND DESIGN														
A. Coordination Meetings														
C. Design changes due to utilities														
D. Illustrate existing and proposed utility locations on Drainage plans					1			2	3			7		
F. Illustrate existing utility crossings on Drainage profiles					1			2	4			7		
G. Review utility relocation plans for clearance of conflicts					2		4	4				10		
H. Notify GEC of any utility conflicts (existing and/or proposed)														
SUB-TOTAL NUMBER OF SHEETS:												Column Total = 24		
SUB-TOTAL HOURS:					4		4	8	8			Row Total = 24		
SUB-TOTAL LABOR COST:		$ -	$ -	$ -	$ 226	$ -	$ 144	$ 228	$ 228	$ -	$ -	$ 826	$	2,404.02
1.08 INITIAL DESIGN AND DCC														
A. Review 183A Extension Project Manual														
B. Assist with development of project DSR														

K FRIESE AND ASSOCIATES, INC.

TASK / Hourly Rate	SHEETS	PROJECT MANAGER $ -	SENIOR SPECIALIST $ -	SENIOR BRIDGE ENGINEER $ -	SENIOR PROJECT ENGINEER $ 56.50	SENIOR ENGINEER $ 44.50	ENGINEER $ 36.00	EIT $ 28.50	SR. ENGR. TECH. $ 28.50	ENGR. TECH. $ 28.50	CLERICAL $ 19.50	SUB TOTALS	2.910432 Hr Sheet
C. Review schematic for conformance with design criteria					1		4					5	
D. Schematic Refinements													
1. Horizontal and Vertical Refinements													
4. Coordinate modifications with the DEC													
E. Preliminary Cost Estimate					2			3	4			9	
G. Attend DCC													
SUB-TOTAL NUMBER OF SHEETS:												Column Total = 14	
SUB-TOTAL HOURS:					3		4	3	4			Row Total = 14	
SUB-TOTAL LABOR COST:		$ -	$ -	$ -	$ 170	$ -	$ 144	$ 86	$ 114	$ -	$ -	$ 513	$ 1,493.05
1.09 ROADWAY DESIGN													
A. Base Plan Sheets (Coordination)													
B. Roadway Plans & Geometry													
6. Ramp Plan and Profiles (SB Ramps Only)													
7. Ramp Gore Layouts (SB Ramps Only)													
8. Horizontal Alignment Data Sheets (Coordination)													
9. Super-elevation Data Sheets (Coordination)													
11. Pedestrian and Bicycle Facility Sheets (Coordination)													
SUB-TOTAL NUMBER OF SHEETS:													
SUB-TOTAL HOURS:													
SUB-TOTAL LABOR COST:		$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
1.10 DRAINAGE DESIGN													
A. Review Conceptual Drainage & Water Quality Analyses													
B. Drainage Impact Study													
1. Identify Existing System and Outfalls					2		4	12				18	
2. Determine Existing Flows					2		6	10				18	
3. Evaluate Proposed System and Outfalls					3		8	10				21	
4. Compute Proposed Flows					2		6	10				18	
5. Determine Hydrologic Impacts					2		6	10				18	
6. Evaluate Results and Prepare Impact Analysis					4		12	10			3	29	
7. Determine Mitigation Alternatives					4		12	10				26	
8. Develop Detention Requirements (if ponds)					2		4	8	4			18	
9. Project Permitting Coordination													
10. Drainage Report preparation					3		4	6			6	19	
C. Bridge and Culvert Plan Sheets													
1. Prepare Hydraulic Data / Calculation Sheets	2				4		6	6	10			26	13.0
2. Finalize External Drainage Area Maps (1"=100')	1				2		3	4	4			13	13.0
3. Prepare Culvert Layouts (1"=40' H, 1"=20' V)													
D. Storm Drain Plans													
1. Prepare Storm Drain Computation Sheets	2				2		3	3	6			14	7.0
2. Prepare Internal Area Maps (1"=100')	3				4		4	7	7	15		37	7.4
3. Prepare Drainage Plan Sheets (1"=50')	10				4		10	10	18	20		62	6.2
5. Prepare Drainage Profile Sheets (1"=50')	1				3		3	3	10			19	19.0
4. Prepare Lateral Profile Sheets	1				2		2	4	4			12	12.0
5. Prepare Ditch Layout Schedule	1				2			6		6		14	14.0
6. Prepare Miscellaneous Drainage Detail Sheets													
7. Temporary Drainage Facilities					1				4	4		9	
E. Trench Protection Determination													
E. Scour Analysis (4 stream crossings)	1				1		5		5			11	11.0

K FRIESE AND ASSOCIATES, INC.

TASK Hourly Rate	SHEETS	PROJECT MANAGER $ -	SENIOR SPECIALIST $ -	SENIOR BRIDGE ENGINEER $ -	SENIOR PROJECT ENGINEER $ 58.50	SENIOR ENGINEER $ 44.50	ENGINEER $ 38.00	EIT $ 28.50	SR. ENGR. TECH. $ 28.50	ENGR. TECH. $ 26.00	CLERICAL $ 19.50	SUB TOTALS	2.910432 Hr Sheet
F. Storm Water Pollution Prevention Plan (SW3P) Coordination													
G. Water Quality & Detention													
1. Water Quality & Detention Ponds													
a. Water Quality & Detention Pond Layouts (1"=50')	2				6			14	20	6		50	25.0
b. Filtration Basin Details (1"=50')	2				6			14	20	6		50	25.0
c. Water Quality standard details													
H. TCEQ Contributing Zone Plan													
1. Prepare Contributing Zone Plan					2		4	10		10		26	
2. Submittal meeting with OEC and TCEQ													
3. Respond to TCEQ comments and resubmit a final CZP													
I. National Flood Insurance Program (NFIP) Coordination (Provided by OEC)													
SUB-TOTAL NUMBER OF SHEETS:	20											Column Total = 528	
SUB-TOTAL HOURS:					67		102	167	112	71	9	Row Total = 528	
SUB-TOTAL LABOR COST:		$ -	$ -	$ -	$ 3,786	$ -	$ 3,672	$ 4,760	$ 3,192	$ 1,846	$ 176	$ 17,431	$ 50,730.28
1.11 STRUCTURAL DESIGN													
A. Coordination					2		4		6			12	
SUB-TOTAL NUMBER OF SHEETS:												Column Total = 12	
SUB-TOTAL HOURS:					2		4		6			Row Total = 12	
SUB-TOTAL LABOR COST:		$ -	$ -	$ -	$ 113	$ -	$ 144	$ -	$ 171	$ -	$ -	$ 428	$ 1,245.66
1.12 RETAINING WALL DESIGN													
A. Retaining Walls Coordination					2		4		16			22	
SUB-TOTAL NUMBER OF SHEETS:												Column Total = 22	
SUB-TOTAL HOURS:					2		4		16			Row Total = 22	
SUB-TOTAL LABOR COST:		$ -	$ -	$ -	$ 113	$ -	$ 144	$ -	$ 456	$ -	$ -	$ 713	$ 2,075.14
1.10 MISCELLANEOUS													
A. Quantities & Summaries (60%, Pre-Final and Final)													
Prepare Summary of Drainage Quantities													
Prepare Summary of Erosion Control Quantities													
B. Standards, Specifications and Estimates													
1. Organize Standards													
2. Supplemental Standard Details (Modified Standards)													
3. Prepare Specifications and Provisions													
4. Prepare General Notes													
5. Construction Costs Estimate													
SUB-TOTAL NUMBER OF SHEETS:													
SUB-TOTAL HOURS:													
SUB-TOTAL LABOR COST:		$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
1.13 COORDINATION, MEETINGS & INVOICING													
A. Project Workshops (assume 4 workshops)													
B. Coordination Meetings													
1. Bi-Weekly Design Coord. Meetings w. OEC&SDC (assume 6 meetings)													
2. Internal Coord. Meetings (assume 8 meetings)													
D. Review Meetings and Comment Responses (assume 4 meetings)													
E. QA/QC													
1. QA/QC Plan Development													
2. QA/QC Review Workshop													

K FRIESE AND ASSOCIATES, INC.

TASK Hourly Rate:	SHEETS	PROJECT MANAGER $ -	SENIOR SPECIALIST $ -	SENIOR BRIDGE ENGINEER $ -	SENIOR PROJECT ENGINEER $ 56.50	SENIOR ENGINEER $ 44.50	ENGINEER $ 36.00	EIT $ 28.50	SR. ENGR. TECH. $ 28.50	ENGR. TECH. $ 26.00	CLERICAL $ 19.50	SUB TOTALS	2 919432 Hr Sheet
F. Provide Assistance to the GEC during the bidding process													
G. Reviewing - assume 12 review cycles													
I. Pre-bid Meeting													
J. Pre-Construction Meeting													
SUB-TOTAL NUMBER OF SHEETS:													
SUB-TOTAL HOURS:													
SUB-TOTAL LABOR COST:		$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
TOTAL NUMBER OF SHEETS:	28												
TOTAL HOURS:					81		122	180	148	71	10	Row Total = 612	$ 59,249.12
TOTAL LABOR COST:		$ -	$ -	$ -	$ 4,577	$ -	$ 4,392	$ 5,130	$ 4,218	$ 1,846	$ 195	$ 20,358	$ 59,249.12
OVERHEAD	159.86%											32,543	
DIRECT SALARY PLUS OVERHEAD												52,901	
PROFIT	12.00%											6,348	
TOTAL LABOR COST												$ 59,249	
DIRECT EXPENSES:	Travel:												
	Mileage						200	miles		$0.49 per mile		$97.00	
	Per diem							days		$25.00 per day			
	Lodging							nights		$100.00 per night			
	Copies:												
	Reproduction						200	copies		$0.20 per copy		$40.00	
	Media (mylar)						20	sheets		$1.00 per sheet		$20.00	
	Misc Expenses:												
	Express delivery						3	each		$25.00 per each		$75.00	
TOTAL DIRECT EXPENSES:												$ 232	$ 232.00
K FRIESE ENGINEERING TOTAL COST												$ 59,481	$ 59,481.12

GRAY JANSING & ASSOCIATES, INC.

TASK Hourly Rate	SHEETS	PROJECT MANAGER $ -	SENIOR SPECIALIST $ -	SENIOR BRIDGE ENGINEER $ -	SENIOR PROJECT ENGINEER $ 200.00	SENIOR ENGINEER $ -	ENGINEER $ 150.00	EIT $ 100.00	SR. ENGR. TECH. $ 110.00	ENGR. TECH. $ 75.00	CLERICAL $ 50.00	SUB TOTALS	Hr Sheet
1.02 GOVERNMENTAL AGENCY COORDINATION													
A. Coordination													
2. City of Cedar Park - 1 meetings													
3. City of Leander - 1 meetings													
4. Williamson County - 1 meetings													
SUB-TOTAL NUMBER OF SHEETS:													
SUB-TOTAL HOURS:													
SUB-TOTAL LABOR COST:		$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	
1.03 DATA COLLECTION													
A. Collect, Review and Evaluate Data					2		2					4	
B. Field Investigations					2		2					4	
SUB-TOTAL NUMBER OF SHEETS:												Column Total = 8	
SUB-TOTAL HOURS:					4		4					Row Total = 8	
SUB-TOTAL LABOR COST:		$ -	$ -	$ -	$ 800	$ -	$ 600	$ -	$ -	$ -	$ -	$ 1,400	
1.05 ROW MAPPING													
SUB-TOTAL NUMBER OF SHEETS:													
SUB-TOTAL HOURS:													
SUB-TOTAL LABOR COST:		$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	
1.07 UTILITY COORDINATION AND DESIGN													
A. Coordination Meetings													
D. Illustrate existing and proposed utility locations on shared use path plans													
F. Illustrate existing utility crossings on shared use path profiles									2			2	
G. Review utility relocation plans for clearance of conflicts													
H. Notify GEC of any utility conflicts (existing and/or proposed)													
SUB-TOTAL NUMBER OF SHEETS:												Column Total = 2	
SUB-TOTAL HOURS:									2			Row Total = 2	
SUB-TOTAL LABOR COST:		$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 220	$ -	$ -	$ 220	
1.08 INITIAL DESIGN AND DCC													
A. Review 183A Extension Project Manual													
D. Schematic Refinements													
1. Horizontal and vertical refinements for shared use path									4	4		8	
3. Finalize location of the shared use path										4		4	
4. Coordinate modifications with the GEC													
7. Notify GEC of any additional Easement needs													
E. Preliminary Cost Estimate													
G. Amend DCC													
SUB-TOTAL NUMBER OF SHEETS:												Column Total = 12	
SUB-TOTAL HOURS:									4	8		Row Total = 12	
SUB-TOTAL LABOR COST:		$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 440	$ 600	$ -	$ 1,040	

GRAY JANSING & ASSOCIATES, INC.

TASK Hourly Rate	SHEETS	PROJECT MANAGER $ -	SENIOR SPECIALIST $ -	SENIOR BRIDGE ENGINEER $ -	SENIOR PROJECT ENGINEER $ 200.00	SENIOR ENGINEER $ -	ENGINEER $ 150.00	EIT $ 100.00	SR. ENGR. TECH. $ 110.00	ENGR. TECH. $ 75.00	CLERICAL $ 50.00	SUB TOTALS	hr Sheet
1.09 ROADWAY DESIGN													
A. Basic Plan Sheets													
Cover, Index of Sheets (Coordination)													
B. Roadway Plans & Geometry													#VALUE!
1. Proposed Typical Sections for shared use path													
3. Horizontal Alignment Data Sheets (Coordination)													
9. Superelevation Data Sheets													
11. Shared Use Path Plan & Profile	2				2.0		5.0	15.0	8.0	16.0		41	20.5
C. Grading and Details													
4. Develop Miscellaneous Details													#VALUE!
SUB-TOTAL NUMBER OF SHEETS:	2											Column Total = 41	
SUB-TOTAL HOURS:					2		5	10	8	16		Row Total = 41	
SUB-TOTAL LABOR COST:		$ -	$ -	$ -	$ 400	$ -	$ 750	$ 1,000	$ 880	$ 1,200	$ -	$ 4,230	
1.10 DRAINAGE DESIGN													
C. Bridge Plan Sheet (Coordination)													
D. Storm Drain Plan Sheets (Coordination)							2.0					2	
Driveway Culvert Plan Sheets (Coordination)								2.0	2.0	2.0		5	
G. Water Quality (Coordination)													
SUB-TOTAL NUMBER OF SHEETS:												Column Total = 0	
SUB-TOTAL HOURS:							2	2	2	2		Row Total = 8	
SUB-TOTAL LABOR COST:		$ -	$ -	$ -	$ -	$ -	$ 300	$ 200	$ 220	$ 150	$ -	$ 870	
1.11 STRUCTURAL DESIGN													
A. Coordination													
SUB-TOTAL NUMBER OF SHEETS:													
SUB-TOTAL HOURS:													
SUB-TOTAL LABOR COST:		$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	
1.12 SIGNING, MARKINGS AND SIGNALIZATION													
B. Signing and Pavement Marking Layouts for shared use path	1				1.0		2.0	4.0	4.0	8.0		19	19.0
SUB-TOTAL NUMBER OF SHEETS:	1											Column Total = 19	
SUB-TOTAL HOURS:					1		2	4	4	8		Row Total = 19	
SUB-TOTAL LABOR COST:		$ -	$ -	$ -	$ 200	$ -	$ 300	$ 400	$ 440	$ 600	$ -	$ 1,940	
1.13 MISCELLANEOUS													
A. Quantities & Summaries (60%, Pre-Final and Final)									2	2		4	
B. Standards, Specifications and Estimates													
1. Organize Standards													#VALUE!
2. Supplemental Standard Details													
3. Prepare Specifications and Provisions													
4. Prepare General Notes													
5. Construction Cost Estimate							2					2	
SUB-TOTAL NUMBER OF SHEETS:												Column Total = 6	
SUB-TOTAL HOURS:							2		2	2		Row Total = 6	
SUB-TOTAL LABOR COST:		$ -	$ -	$ -	$ -	$ -	$ 300	$ -	$ 220	$ 150	$ -	$ 870	

Central Texas Regional Mo[illegible]bility
Centr[illegible]
US 183A Toll R[illegible]n
(RM 2243 South[illegible]1431)

GRAY JANSING & ASSOCIATES, INC.

TASK Hourly Rate	SHEETS	PROJECT MANAGER $ -	SENIOR SPECIALIST $ -	SENIOR BRIDGE ENGINEER $ -	SENIOR PROJECT ENGINEER $ 200.00	SENIOR ENGINEER $ -	ENGINEER $ 150.00	EIT $ 100.00	SR. ENGR. TECH. $ 110.00	ENGR. TECH. $ 75.00	CLERICAL $ 50.00	SUB TOTALS	Fit Sheet
1.19 COORDINATION, MEETINGS & INVOICING													
A. Project Worksheets (assume 2 activities)													
B. Coordination Meetings													
1. Bi-Weekly Design Coord. Meetings w. GEC&SCC (assume 8 meetings)													
2. Plan-in Coord. Meetings (assume 2 meetings)													
D. Review Meetings and Comment Responses (assume 4 meetings)													
E. QA/QC													
1. QA/QC Plan Development													
2. QA/QC Review Workshops													
F. Provide Assistance to the GEC during the bidding process													
G. Invoicing (assume 12 invoice cycles)													
I. Pre-Bid Meeting													
J. Pre-Construction Meeting													
SUB-TOTAL NUMBER OF SHEETS:													
SUB-TOTAL HOURS:													
SUB-TOTAL LABOR COST:		$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	
TOTAL NUMBER OF SHEETS:	0												
TOTAL HOURS:					7		15	16	22	36		96	
TOTAL LABOR COST:		$ -	$ -	$ -	$ 1,400	$ -	$ 2,250	$ 1,600	$ 2,420	$ 2,700	$ -	$ 10,370	
OVERHEAD													
DIRECT SALARY PLUS OVERHEAD												10,370	
PROFIT													
TOTAL LABOR COST												$ 10,370	
DIRECT EXPENSES: **Travel:**													
Mileage								miles		$0.49 per mile			
Per diem								days		$25.00 per day			
Lodging								nights		$100.00 per night			
Copies:													
Reproduction								copies		$0.20 per copy			
Media (mylar)							10	sheets		$1.00 per sheet		$10.00	
Misc Expenses:													
Express delivery								each		$25.00 per each			
Research Materials													
TOTAL DIRECT EXPENSES:												$ 10	
GRAY JANSING ENGINEERING TOTAL COST												$ 10,380	

AGUIRRE & FIELDS, LP (SWA#1)

TASK Hourly Rate	SHEETS	PROJECT MANAGER	SENIOR SPECIALIST	SENIOR BRIDGE ENGINEER $61.00	SENIOR PROJECT ENGINEER	PROJECT ENGINEER $45.00	ENGINEER $30.50	EIT $27.00	SR. ENGR. TECH. $36.00	ENGR. TECH. $24.00	CLERICAL	SUB TOTALS	Hr Sheet
1.10 DRAINAGE DESIGN													
A. Cantilever Retaining Walls at Detension Ponds													
1. Pond C-N Sta. 383+00	3			9		19	32		35	31		126	
B. Junction Box, Drop Inlet, Modified Manhole Details	2			3		9	15		16	15		58	
SUB-TOTAL NUMBER OF SHEETS: SUB-TOTAL HOURS:	5			12		28	47		51	46		Column Total = 194 Row Total = 184	
SUB-TOTAL DIRECT SALARY COST:		$ -	$ -	$ 732	$ -	$ 1,260	$ 1,657	$ -	$ 1,836	$ 1,104	$ -	$ 6,789	
TOTAL NUMBER OF SHEETS: TOTAL HOURS:	5			12		28	47		51	46		Column Total = 184 Row Total = 184	
DIRECT SALARY COST		$ -	$ -	$ 732	$ -	$ 1,260	$ 1,657	$ -	$ 1,836	$ 1,104	$ -	$ 6,789	

HUGGINS/SEILER & ASSOCIATES, LP SUPPLEMENTAL WORK AUTHORIZATION NO. 1

TASK Hourly Rate:	SHEETS	PROJECT MANAGER $ -	SENIOR SPECIALIST $ 46.00	SENIOR BRIDGE ENGINEER	SENIOR PROJECT ENGINEER $ 46.00	SENIOR ENGINEER $ 42.00	ENGINEER $ 38.00	EIT $ 36.00	SR. ENGR. TECH. $ 34.00	ENGR. TECH. $ 28.00	CLERICAL $ 15.00	SUB TOTALS	2.8 Hr Sheet
1.02 GOVERNMENTAL AGENCY COORDINATION													BUDGET
A. Coordination													
1. TxDOT - 1 meetings													
SUB-TOTAL NUMBER OF SHEETS:													
SUB-TOTAL HOURS:													
SUB-TOTAL LABOR COST:		$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
1.03 DATA COLLECTION													
B. Field Investigations													
SUB-TOTAL NUMBER OF SHEETS:													
SUB-TOTAL HOURS:													
SUB-TOTAL LABOR COST:		$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
1.08 INITIAL DESIGN AND DCC													
A. Review 183A Extension Project Manual													
SUB-TOTAL NUMBER OF SHEETS:													
SUB-TOTAL HOURS:													
SUB-TOTAL LABOR COST:		$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
1.10 DRAINAGE DESIGN													
F. Storm Water Pollution Prevention Plans (SW3P)													
1. Erosion and Sediment Control Plans	6		24		48			72				144	24.0
2. SW3P plan sheets													#DIV/0!
3. Erosion and Sediment Control Details													#DIV/0!
SUB-TOTAL NUMBER OF SHEETS:	6											Column Total = 144	
SUB-TOTAL HOURS:			24		48			72				Row Total = 144	
SUB-TOTAL LABOR COST:		$ -	$ 1,104	$ -	$ 2,208	$ -	$ -	$ 2,592	$ -	$ -	$ -	$ 5,904	$ 16,531.20
1.18 MISCELLANEOUS													
A. Quantities & Summaries (60%, Pre-Final and Final)													#DIV/0!
B. Standards, Specifications and Estimates													
1. Organize Standards													
2. Supplemental Standard Details													
3. Prepare Specifications and Provisions													
4. Prepare General Notes													
5. Construction Costs Estimate													
SUB-TOTAL NUMBER OF SHEETS:													
SUB-TOTAL HOURS:													
SUB-TOTAL LABOR COST:		$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
1.19 COORDINATION, MEETINGS & INVOICING													
A. Project Workshops (assume 2 workshops)													
B. Coordination Meetings													
1. Design Coord. Meetings w. GEC&SDC (assume 1 meetings)													
2. Internal Coord. Meetings (assume 4 meetings)													
D. Review Meeting Comment Responses													
E. QA/QC													

HUGGINS/SEILER & ASSOCIATES, LP SUPPLEMENTAL WORK AUTHORIZATION NO. 1

TASK Hourly Rate	SHEETS	PROJECT MANAGER $ -	SENIOR SPECIALIST $ 46.00	SENIOR BRIDGE ENGINEER	SENIOR PROJECT ENGINEER $ 46.00	SENIOR ENGINEER $ 42.00	ENGINEER $ 38.00	EIT $ 36.00	SR. ENGR. TECH. $ 34.00	ENGR. TECH. $ 28.00	CLERICAL $ 15.00	SUB TOTALS	2.8 Hr Sheet
1. QA QC Plan Development													
2. QA QC Review Workshops													
6. Incoming (assume 6 month cycle)													
SUB-TOTAL NUMBER OF SHEETS:													
SUB-TOTAL HOURS:													
SUB-TOTAL LABOR COST:		$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
TOTAL NUMBER OF SHEETS:	6												
TOTAL HOURS:			24		48			72				Row Total = 144	$ 16,531.20
TOTAL LABOR COST:		$ -	$ 1,104	$ -	$ 2,208	$ -	$ -	$ 2,592	$ -	$ -	$ -	$ 5,904	$ 16,531.20
OVERHEAD	150.00%											8,856	
DIRECT SALARY PLUS OVERHEAD												14,760	
PROFIT	12.00%											1,771	
TOTAL LABOR COST												$ 16,531	
DIRECT EXPENSES:	Travel:												
	Mileage							miles		$0.48 per mile			
	Per diem							days		$25.00 per day			
	Lodging							nights		$100.00 per night			
	Copies:												
	Reproduction							copies		$0.20 per copy			
	Media (mylar)							sheets		$1.00 per sheet			
	Misc Expenses:												
	Express delivery							each		$25.00 per each			
	Research Materials												
TOTAL DIRECT EXPENSES:												$ -	$ -
HSA ENGINEERING TOTAL COST												$ 16,531	$ 16,531.20

URS CORPORATION, INC

TASK Hourly Rate	SHEETS	PROJECT MANAGER $ -	SENIOR SPECIALIST $ -	SENIOR BRIDGE ENGINEER $ -	SENIOR PROJECT ENGINEER $ 62.00	SENIOR ENGINEER $ 50.00	ENGINEER $ 42.00	EIT $ 28.00	SR. ENGR. TECH. $ 38.00	ENGR. TECH. $ 33.00	CLERICAL $ 22.00	SUB TOTALS	3 042816 Hr Sheet	BUDGET
1.02 GOVERNMENTAL AGENCY COORDINATION														
SUB-TOTAL NUMBER OF SHEETS:														
SUB-TOTAL HOURS:														
SUB-TOTAL LABOR COST:		$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$	-
1.03 DATA COLLECTION														
A. Collect, Review and Evaluate Data for Supplemental Project Area					2	2		2				6		
B. Field Investigations - Conduct Existing Sign Inventory							1	1	1	1		3		
SUB-TOTAL NUMBER OF SHEETS:												Column Total = 14		
SUB-TOTAL HOURS:					2	2	1	3	3	3		Row Total = 14		
SUB-TOTAL LABOR COST:		$ -	$ -	$ -	$ 124	$ 100	$ 42	$ 84	$ 114	$ 99	$ -	$ 563	$	1,713.11
1.08 INITIAL DESIGN AND DCC														
SUB-TOTAL NUMBER OF SHEETS:														
SUB-TOTAL HOURS:														
SUB-TOTAL LABOR COST:		$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$	-
1.13 SMALL SIGNING, PAVEMENT MARKINGS & DELINEATORS														
A. Review Preliminary Signing Plan							2					2		
B. Signing and Pavement Marking Layouts														
I. Mainlanes Frontage Roads (STA 342+00 - 365+00)	6				4	8	30	60	20	20		132		22.0
II. Sidestreets (Reveille Blvd. and CR 274)	3				2		10	12		18		42		14.0
III. Pavement Marking Details	1						1	2		8		11		11.0
IV. San Gabriel Parkway	2				2		8	9		12		31		
C. Small Sign Details	1					2	4		6			12		12.0
SUB-TOTAL NUMBER OF SHEETS:	13											Column Total = 230		
SUB-TOTAL HOURS:					8	10	55	73	26	58		Row Total = 230		
SUB-TOTAL LABOR COST:		$ -	$ -	$ -	$ 496	$ 500	$ 2,310	$ 2,044	$ 988	$ 1,914	$ -	$ 8,252	$	25,109.32
1.18 MISCELLANEOUS														
A. Quantities and Summary Sheets (60%, Pre-Final and Final)	1					2	4	8	8			22		22.0
B. Standards, Specifications and Estimates														
1. Organize Standards														
2. Supplemental Standard Details (none assumed)														#DIV/0!
3. Prepare Specifications and Provisions					2		2	6			2	12		
4. Prepare General Notes							2	6			2	10		
5. Construction Costs Estimate (60%, Pre-final, & Final submittals)					2		2	6			2	12		
SUB-TOTAL NUMBER OF SHEETS:	1											Column Total = 56		
SUB-TOTAL HOURS:					4	2	10	26	8		6	Row Total = 56		
SUB-TOTAL LABOR COST:		$ -	$ -	$ -	$ 248	$ 100	$ 420	$ 728	$ 304	$ -	$ 132	$ 1,932	$	5,878.72
1.19 COORDINATION, MEETINGS & INVOICING														
B. Coordination Meetings														
1. Design Coord. Meetings w/ GEC (assume 1 meeting)														
2. Internal Coord. Meetings (assume 2 meetings)														

URS CORPORATION, INC

TASK Hourly Rate	SHEETS	PROJECT MANAGER $ -	SENIOR SPECIALIST $ -	SENIOR BRIDGE ENGINEER $ -	SENIOR PROJECT ENGINEER $ 62.00	SENIOR ENGINEER $ 50.00	ENGINEER $ 42.00	EIT $ 28.00	SR. ENGR. TECH. $ 38.00	ENGR. TECH. $ 33.00	CLERICAL $ 22.00	SUB TOTALS	3.042816 Hr Sheet
D. Review Meetings Comment Responses					2						2	4	
E. QA QC													
1. QA QC Plan Development (60's, preview, final submittals)					8	8						16	
2. QA QC Review Workshops													
3. Meeting (assume 6 invoice cycles)											16	16	
SUB-TOTAL NUMBER OF SHEETS:												Column Total = 36	
SUB-TOTAL HOURS:					10	8					18	Row Total = 36	
SUB-TOTAL LABOR COST:		$ -	$ -	$ -	$ 620	$ 400	$ -	$ -	$ -	$ -	$ 396	$ 1,416	$ 4,308.63
TOTAL NUMBER OF SHEETS:	14												
TOTAL HOURS:					24	22	66	102	37	61	24	Row Total = 336	$ 37,099.77
TOTAL LABOR COST:		$ -	$ -	$ -	$ 1,488	$ 1,100	$ 2,772	$ 2,856	$ 1,406	$ 2,013	$ 528	$ 12,163	$ 37,099.77
OVERHEAD	171.68%											20,881	
DIRECT SALARY PLUS OVERHEAD												33,044	
PROFIT	12.00%											3,965	
TOTAL LABOR COST												$ 37,010	
DIRECT EXPENSES: Travel:													
Mileage							100	miles		$0.49	per mile	$48.50	
Per diem								days		$25.00	per day		
Lodging								nights		$100.00	per night		
Copies:													
Reproduction							50	copies		$0.20	per copy	$10.00	
Media (mylar)							15	sheets		$1.00	per sheet	$15.00	
Misc Expenses:													
Express delivery								each		$25.00	per each		
Research Materials													
TOTAL DIRECT EXPENSES:												$ 74	$ 73.50
LOPEZGARCIA GROUP ENGINEERING TOTAL COST												$ 37,083	$ 37,083.27

RJ RIVERA ASSOCIATES, INC.

TASK Hourly Rate	sheets	PROJECT MANAGER $ -	SENIOR SPECIALIST $ -	SENIOR BRIDGE ENGINEER $ -	SENIOR PROJECT ENGINEER $ 52.00	SENIOR ENGINEER $ 46.00	ENGINEER $ 46.00	EIT $ 29.00	SR. ENGR. TECH. $ -	ENGR. TECH. $ 26.00	CLERICAL $ 23.00	SUB TOTALS	3.011568 Hr Sheet
1.02 GOVERNMENTAL AGENCY COORDINATION													BUDGET
A. Coordination													
1. TxDOT - 2 meetings													
2. City of Cedar Park - 1 meetings													
3. City of Leander - additional meeting prep time													
SUB-TOTAL NUMBER OF SHEETS:													
SUB-TOTAL HOURS:													
SUB-TOTAL LABOR COST:		$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
1.03 DATA COLLECTION													
A. Collect, Review and Evaluate Data						2		2				4	
B. Field Investigations						2		4				6	
SUB-TOTAL NUMBER OF SHEETS:												Column Total = 10	
SUB-TOTAL HOURS:						4		6				Row Total = 10	
SUB-TOTAL LABOR COST:		$ -	$ -	$ -	$ -	$ 184	$ -	$ 174	$ -	$ -	$ -	$ 358	$ 1,078.14
1.07 UTILITY COORDINATION AND DESIGN													
A. Coordination Meetings - additional meeting prep time						2						2	
SUB-TOTAL NUMBER OF SHEETS:												Column Total = 2	
SUB-TOTAL HOURS:						2						Row Total = 2	
SUB-TOTAL LABOR COST:		$ -	$ -	$ -	$ -	$ 92	$ -	$ -	$ -	$ -	$ -	$ 92	$ 277.06
1.08 INITIAL DESIGN AND DCC													
A. Review 183A Extension Project Manual													
E. Preliminary Cost Estimate													
G. Attend DCC													
SUB-TOTAL NUMBER OF SHEETS:													
SUB-TOTAL HOURS:													
SUB-TOTAL LABOR COST:		$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
1.13 SIGNING, MARKINGS AND SIGNALIZATION													
H. Warrant Study						4		4				8	
I & J. Traffic Signal Plans													
1. Condition diagram													
2. Plan layout sheets	2				4	10	16	16		28		74	
3. Notes for plan layout					2	2	4			4		12	
4. Phase sequence diagrams	2				2	4	8			16		30	
5. Construction detail sheets	2				2	6	8	12		16		44	
6. Marking details (only)						4						4	
7. Electrical and ITS	2				2	4	8	8		20		42	
K. Traffic Signal General Notes and Estimates					2	4	8	8				22	
L. Temporary Traffic Signal Plans													
SUB-TOTAL NUMBER OF SHEETS:	8											Column Total = 236	
SUB-TOTAL HOURS:					14	38	52	48		84		Row Total = 236	
SUB-TOTAL LABOR COST:		$ -	$ -	$ -	$ 728	$ 1,748	$ 2,392	$ 1,392	$ -	$ 2,184	$ -	$ 8,444	$ 25,429.68
1.15 INTELLIGENT TRANSPORTATION SYSTEMS													
A. Incorporate ITS Facility Design													
B. Intelligent Vehicle Highway Systems Design Layout Sheets	2				2	4	8	8		10		35	
SUB-TOTAL NUMBER OF SHEETS:	2											Column Total = 38	

RJ RIVERA ASSOCIATES, INC.

TASK Hourly Rate	sheets	PROJECT MANAGER $ -	SENIOR SPECIALIST $ -	SENIOR BRIDGE ENGINEER $ -	SENIOR PROJECT ENGINEER $ 52.00	SENIOR ENGINEER $ 46.00	ENGINEER $ 46.00	EIT $ 29.00	SR. ENGR. TECH. $ -	ENGR. TECH. $ 26.00	CLERICAL $ 23.00	SUB TOTALS	3.011568 Hr Sheet
SUB-TOTAL HOURS:					2	4	8	8		16		Row Total = 38	
SUB-TOTAL LABOR COST:		$ -	$ -	$ -	$ 104	$ 184	$ 368	$ 232	$ -	$ 416	$ -	$ 1,304	$ 3,927.08
1.16 ILLUMINATION													
A. Overpass Underpass Lighting Layouts	3				3	6	6	18		45		78	
B. Safety Lighting													
1. Lighting calculations design & exhibit					2	8	8	8				26	
2. Plan layout sheets	2					4	8	12		16		40	
C. Electrical Circuit Plans	1					2	4	8		8		22	
D. Power Source Identification						2		4				6	
SUB-TOTAL NUMBER OF SHEETS:	6											Column Total = 172	
SUB-TOTAL HOURS:					5	22	26	50		69		Row Total = 172	
SUB-TOTAL LABOR COST:		$ -	$ -	$ -	$ 260	$ 1,012	$ 1,196	$ 1,450	$ -	$ 1,794	$ -	$ 5,712	$ 17,202.08
1.17 TOLL FACILITY DESIGN													
A. Coordination													
SUB-TOTAL NUMBER OF SHEETS:													
SUB-TOTAL HOURS:													
SUB-TOTAL LABOR COST:		$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
1.18 MISCELLANEOUS													
A. Quantities & Summaries (60% Pre-Final and Final)					1	2		4		8		15	#DIV/0!
B. Standards, Specifications and Estimates													
1. Organize Standards						1		2				3	
2. Supplemental Standard Details	4				1	2	2	4		8		17	
3. Prepare Specifications and Provisions						2	2	2				6	
4. Prepare General Notes					1	2	2	2				7	
5. Construction Cost Estimate					1	2	4	4				11	
SUB-TOTAL NUMBER OF SHEETS:	4											Column Total = 59	
SUB-TOTAL HOURS:					4	11	10	18		16		Row Total = 59	
SUB-TOTAL LABOR COST:		$ -	$ -	$ -	$ 208	$ 506	$ 460	$ 522	$ -	$ 416	$ -	$ 2,112	$ 6,360.43
1.19 COORDINATION, MEETINGS & INVOICING													
A. Project Workshops (assume 2 workshops)													
B. Coordination Meetings													
1. Design Coord. Meetings w/ GEC&SDC (assume 4 meetings)													
2. Internal Coord. Meetings (assume 4 meetings)													
D. Review Meetings and Comment Responses (assume 4 meetings)													
E. QA QC													
1. QA/QC Plan Development													
2. QA QC Review Workshop													
G. Invoicing (assume 12 invoice cycles)													
SUB-TOTAL NUMBER OF SHEETS:													
SUB-TOTAL HOURS:													
SUB-TOTAL LABOR COST:		$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
1.20 CONSTRUCTION PHASE SERVICES													
A. Coordination													
SUB-TOTAL NUMBER OF SHEETS:													

RJ RIVERA ASSOCIATES, INC.

TASK Hourly Rate	sheets	PROJECT MANAGER $ -	SENIOR SPECIALIST $ -	SENIOR BRIDGE ENGINEER $ -	SENIOR PROJECT ENGINEER $ 52.00	SENIOR ENGINEER $ 46.20	ENGINEER $ 46.00	EIT $ 29.00	SR. ENGR. TECH. $ -	ENGR. TECH. $ 26.00	CLERICAL $ 23.00	SUB TOTALS	3.011568 Hr Sheet
SUB-TOTAL HOURS:													
SUB-TOTAL LABOR COST:		$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	
TOTAL NUMBER OF SHEETS:	20												
TOTAL HOURS:					25	81	96	130		185		Row Total = 517	
TOTAL LABOR COST:					1300	3726	4416	3770		4810		$ 18,022	$ 54,274.48
OVERHEAD	168.89%											30,437	
DIRECT SALARY PLUS OVERHEAD												48,459	
PROFIT	12.00%											5,815	
TOTAL LABOR COST												$ 54,274	
DIRECT EXPENSES: Travel:													
Mileage								miles		$0.49 per mile			
Per diem								days		$25.00 per day			
Lodging								nights		$100.00 per night			
Copies:													
Reproduction							38	copies		$0.20 per copy		$7.60	
Media (mylar)							22	sheets		$2.00 per sheet		$44.00	
Misc Expenses:													
Express delivery								each		$25.00 per each			
Research Materials													
TOTAL DIRECT EXPENSES:												$ 52	$ 51.60
RJR ENGINEERING TOTAL COST												$ 54,326	$ 54,326.08

INLAND GEODETICS

TASK	SHEETS	PRINCIPAL	PROJECT MANAGER	RPLS	FIELD COORDINATOR	GPS PROCESSING	STATE SURVEY TECH	SURVEY TECH	RESEARCH	CLERICAL	2 MAN CREW	4 MAN FIELD CREW	GPS FIELD PERSON	ADDITIONAL VEHICLE	SUB TOTALS
1.00 SUPPLEMENTAL SURVEYING															
[illegible]															
[illegible]															
[illegible]															
[illegible]															
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
TOTAL NUMBER OF SHEETS															
TOTAL HOURS			2	5		12	36			15	24	60	2		[illegible]
TOTAL LABOR COST		$ -	$ 740	$ 845	$ -	$ 972	$ 2,916	$ -	$ -	$ 660	$ 3,432	$ 9,902	$ 190	$ -	$ 18,[illegible]
DIRECT EXPENSES		Traffic Control [illegible]; Misc Expenses					Days		Per Day $ [illegible]						$ -; $ -
TOTAL DIRECT COST															$ -
INLAND GEODETICS TOTAL COST															$ 18,[illegible]

FUGRO CONSULTANTS, INC.

TASK Hourly Rate	SHEETS	PROJECT PRINCIPAL $68.50	SENIOR PROJECT MANAGER $49.25	SENIOR PAVEMENT ENGINEER $49.37	PROJECT ENGINEER $37.50	PROJECT GEOLOGIST $20.25	LAB MANAGER $41.00	GRADUATE ENGINEER $26.40	SR ENG TECH $22.30	TECHNICIAN $18.50	CLERICAL $16.50	SUB TOTALS
1.04 GEOTECHNICAL INVESTIGATION												
A. Field Program			5		16				160			181
B. Bridges		1	5		12			26				44
C. Retaining Walls			5		10			24				39
D. Pavement Design Review												
E. Geotechnical Report		1	4		12			15				32
F. Deliverables			5		8		4	8	22	20	20	87
G. Meetings and Communications		4	2		2							8
H. Miscellaneous Structures			2		2			2				6
TOTAL NUMBER OF SHEETS:												Column Total = 397
TOTAL HOURS:		6	28		62		4	75	182	20	20	Row Total = 397
TOTAL LABOR COST:		$ 351	$ 1,379	$ -	$ 2,325	$ -	$ 164	$ 1,980	$ 4,059	$ 370	$ 330	$ 10,958
OVERHEAD	178.14%											19,520
DIRECT SALARY PLUS OVERHEAD												30,477
PROFIT	12.00%											3,657
TOTAL LABOR COST												$ 34,135

EXPENSES:			Quantity	Unit	Rate	
1. Soil Borings						
1.1.1	Mobilization/Demobilization			l.s.	$ 400	$ -
1.2	Additional Water Truck with Driver		12	day	$ 600	$ 7,200
1.3.1	Drilling and Sampling		80	ft	$ 15	$ 1,200
1.4	Standard Penetration Tests		8	each	$ 18	$ 144
1.5	TxDOT Cone Penetration Tests		212	each	$ 28	$ 5,936
1.8	Rock Coring		940	ft	$ 27	$ 25,380
1.12	Traffic Control, Dozer Work, Clearing Brush and Trees for Drill Rig Access		1	l.s.	$ 4,500	$ 4,500
1.18	Plugging Boreholes - Bentonite			ft	$ 8	$ -
1.18	Plugging Boreholes - Concrete (Grout)		1020	ft	$ 10	$ 10,200
2. Laboratory Investigation						
2.1	Moisture Contents		36	each	$ 15	$ 540
2.2	Atterberg Limit Determinations		8	each	$ 55	$ 440
2.6	Sieve Analysis		16	each	$ 60	$ 960
2.7	Determination of 050		4	each	$ 40	$ 160
2.12	Unconfined Compression Test		60	each	$ 55	$ 3,300
2.16	TxDOT Compaction		3	each	$ 210	$ 630
2.20	Consolidation Tests		3	each	$ 350	$ 1,050
2.24	Consolidated - Drained Triaxial Compression		1	each	$ 320	$ 320
3. Technical Services						
4.1	Report Reproduction Services		1	l.s.	$ 750	$ 750
TOTAL DIRECT COST						$ 62,710
FUGRO TOTAL COST						$ 96,845