

**PROFESSIONAL SERVICES
SUPPLEMENTAL AGREEMENT # 5
FOR
WEISS LANE**

STATE OF TEXAS §
 §
COUNTY OF TRAVIS §

FIRM: LJA Engineering, Inc. ("Consultant")

ADDRESS: 5316 Highway 290 West, Suite 150
 Austin, Texas 78735

This Supplemental Agreement No.5 to a contract for Professional Services is made by and between the City of Pflugerville, Texas, hereinafter called the "City," and LJA Engineering, Inc., hereinafter called the "Consultant."

WHEREAS, the City and Consultant executed an Agreement for Professional Services, hereinafter called the "Original Agreement," on the 15th day of July, 2015 for the Weiss Lane project in the amount of \$852,286.95; and

WHEREAS, the Original Agreement has been amended by the following supplemental agreements numbered 1 through 4, respectively: (1) 1st day of February, 2016 in the amount of \$641,296.00 for additional design and PS&E services; (2) 12th day of April, 2016 for no additional compensation, but for additional SUE services; (3) 25th day of May, 2016 in the amount of \$112,875.00 for additional design and PS&E services; and (4) 10th day of November, 2016 in the amount of \$108,541.00 for additional utility and PS&E services, collectively referred to as the "Prior Supplemental Agreements"; and

WHEREAS, it has become necessary to amend the Original Agreement, as amended by the Prior Supplemental Agreements, to modify the provisions for the Scope of Services and Compensation; and

WHEREAS, except for the amendments made herein, the Agreement and Prior Supplemental Agreements, hereinafter collectively referred to as the "Agreement," shall remain in full force and effect.

NOW, THEREFORE, premises considered, the City and the Consultant agree that said Agreement is amended as follows:

Article III. Scope of Services and Exhibit A, shall be amended as set forth in the attached addendum to Exhibit A.

Article IV. Compensation to Consultant and Exhibit C (Fee Schedule), shall be amended by increasing the amount payable under the Agreement by \$449,069.00 for a total Agreement compensation amount of \$2,164,067.95, as shown by the attached Addendum to Exhibit C (Fee Schedule).

EXECUTED and **AGREED** to as of the dates indicated below.

**CITY OF
PFLUGERVILLE**

CONSULTANT

(Signature)

Printed Name: Brandon E. Wade

Title: City Manager

Date: _____



(Signature)

Printed Name: Jeff Collins, PE

Title: Executive Vice
President

Date: 02/20/17

APPROVED AS TO FORM:

George Hyde
City Attorney
Denton Navarro Rocha Bernal Hyde & Zech, P.C.

Exhibit A - Scope of Services Supplemental #5**SERVICES TO BE PROVIDED BY THE ENGINEER**

Roadway: Weiss Lane

County: Travis

Limits: **Schematic & PS&E:** from E. Pecan Street to Cele Road

General Supplemental Work Description:

The addition of Bridge Inspection to supplement City of Pflugerville Inspection staff for the Weiss Lane Roadway Construction.

The addition of surveying services.

The addition of Construction Materials Testing for the Weiss Lane Roadway Project.

ON-SITE BRIDGE INSPECTION

The Engineer will:

Monitor bridge construction activities and inspect work of the contractor as it is performed. Weekly progress reports will be provided showing work performed and items inspected. Work will be performed on a Time and Materials basis.

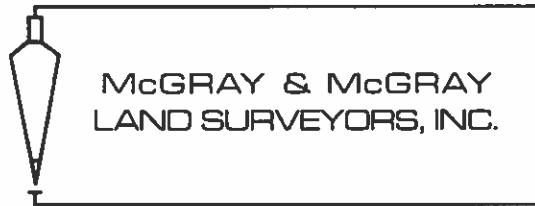
SPECIALTY SERVICES

- ◆ See Attached Scopes for McGray & McGray Land Surveyors, Inc. – Surveying Services
 - Provide 1 ROW plat and description. Provide 1 PUE plat and description.
 - Provide ROW staking
 - ◆ See Attached Scope for Rodriguez Engineering Laboratories, LLC. – Construction Materials Testing Services
 - Construction Material Testing for Weiss Lane Corridor
-

NOT INCLUDED IN THIS SCOPE

- ◆ Water and Wastewater Line Installation Inspection for the Weiss Lane corridor.

January 10, 2017



Brian Young, P.E.
LJA Engineering, Inc.
5316 Highway 290 West, Ste. 150
Austin, TX 78735
(512) 439-4700

VIA EMAIL
byoung@ljaengineering.com

RE: Fifth Proposal for Additional Surveying Services for the Weiss Lane Road Improvements Project, City of Pflugerville, Texas

Dear Mr. Young:

We appreciate the opportunity to present you with this fifth proposal for the above referenced project. The following represents our understanding of the scope of services and our fee proposal follows.

Right-of-Way Mapping:

- Stake the proposed ROW line at a 100' interval across the HL Weiss tract and the Hames R. Bohls tract.

Right-of-Way Mapping (Non-taxable*) Fee:

These surveying services will be provided at a lump sum rate of **\$2,500.00**.

(*Non-taxable due to the receipt of a Texas Sales and Use Tax Resale Certificate)

We will proceed as soon as we receive notice to proceed. We estimate it will take approximately 1 to 2 weeks (weekends and holidays excluded) from notice to proceed to complete this project, weather and circumstances beyond our control permitting. Please let us know if we need to accelerate this schedule.

Thank you for including us on this project. We look forward to the opportunity to work with you. If you think we have omitted any service you require or misinterpreted your request, please let me or Chris Conrad know.

Sincerely,

A handwritten signature in blue ink, appearing to read "Judith J. McGray".

Judith J. McGray, RPLS
President
TBPLS Firm #10095500

Authorized to Proceed by:

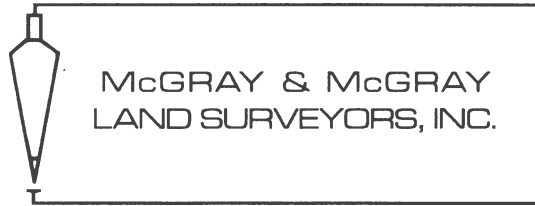
Signature

Date

Print Name

Title

JJM:CIC:klr



January 9, 2017

Brian Young, P.E.
LJA Engineering, Inc.
5316 Highway 290 West, Ste. 150
Austin, TX 78735
(512) 439-4700

VIA EMAIL
byoung@ljaengineering.com

RE: Fourth Proposal for Additional Surveying Services for the Weiss Lane Road Improvements Project, City of Pflugerville, Texas

Dear Mr. Young:

We appreciate the opportunity to present you with this fourth proposal for the above referenced project. The following represents our understanding of the scope of services and our fee proposal follows.

Right-of-Way Mapping:

- Provide 1 plat and description for proposed ROW.
- Provide 1 plat and description for proposed public utilities easements.

Fees:

Right-of-Way Mapping (Non-taxable*):

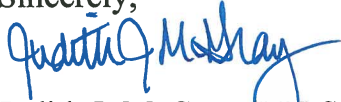
These surveying services will be provided on a parcel basis of **\$2,200.00** for a total of **\$4,400.00**.

*(Non-taxable due to the receipt of a Texas Sales and Use Tax Resale Certificate)

We will proceed as soon as we receive notice to proceed. We estimate it will take approximately 1 to 2 weeks (weekends and holidays excluded) from notice to proceed to complete this project, weather and circumstances beyond our control permitting. Please let us know if we need to accelerate this schedule.

Thank you for including us on this project. We look forward to the opportunity to work with you. If you think we have omitted any service you require or misinterpreted your request, please let me or Chris Conrad know.

Sincerely,



Judith J. McGray, RPLS
President
TBPLS Firm #10095500

Authorized to Proceed by:

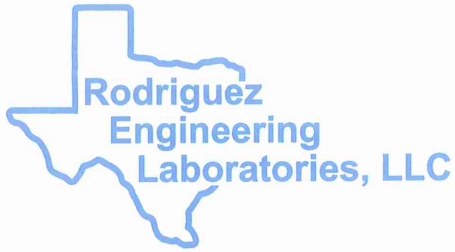
Signature

Date

Print Name

Title

JJM:CIC:klr



February 16, 2017

Brian Young, P.E.
LJA Engineering, Inc.
5316 Highway 290 West, Suite 150
Austin, Texas 78735

RE: Cost Estimate for Construction Materials Testing
Weiss Lane Roadway Improvements Project
Pflugerville and Travis County, Texas

Dear Mr. Young:

Enclosed is our proposed cost estimate for performing the construction materials testing for the subject project. We propose to handle this work for a total estimated fee of \$270,289.00. Any additional testing will be charged using the attached fee schedule. The on-site inspector should coordinate the testing by calling our office at least 24 hours in advance, you will be charged for actual tests performed. If you have any questions regarding the estimate, please do not hesitate to call.

We look forward to working with you on this project.

Respectfully Submitted,

Jose Melendez, P. E.



**Weiss Lane Roadway Improvements Project
Construction Materials Testing
Pflugerville and Travis County, Texas**

SCOPE OF WORK

The following scope of services will be provided as requested by the client or the client's representative, Rodriguez Engineering Laboratories (REL) understands that the project has particular specification requirements; therefore, qualified staff is assigned to meet the needs defined in those specifications. REL will provide construction materials sampling and testing services on an as-needed basis; including both laboratory and field testing of soils, base, concrete, and hot-mix materials, using ASTM or TxDOT testing methods. The testing frequency will be based on the current TxDOT Guide Schedule of Sampling and Testing or as requested by the City of Pflugerville/Travis County representative. The on-site inspector should coordinate the materials testing by calling REL's office at least 24-hours in advance.

The scope of work for the construction materials testing to be performed by REL at the above referenced project will include but not limited to the following tests:

Soils and Base Testing:

- Perform soils testing as required by project specifications or as requested by the on-site inspector for liquid limit, plasticity index, gradation, moisture/density relations, Texas triaxial, wet ball mill, bar linear shrinkage, soil-lime compression, CTB testing, resistivity of soils, organic content, soil pH, pH/lime series, PI/lime series, deleterious materials, sulfate content of soils, in-place density, thickness determination, pulverization gradation, etc.

Hot Mix Asphaltic Concrete Testing:

- Perform asphaltic mixture testing as required by project specifications or as requested by the on-site inspector for voids in mineral aggregates, lab molded density, maximum theoretical specific gravity, gradation, asphalt content, boil test, indirect tensile strength, moisture content, draindown test, hamburg wheel-tracking test, overlay test, thickness, in-place air voids, etc.
- Test HMA pavement as required by project specifications or as requested by the on-site inspector during installation for segregation profile, joint density, thermal profile, ride quality test, etc.
- Test HMA aggregate as required by project specifications or as requested by the on-site inspector for L.A. abrasion, magnesium sulfate soundness, SAC, micro-deval, sand equivalent, etc. Hveem stability will be tested if needed.
- Review mix design of HMA as requested.

Microsurfacing Mixture Testing:

- Test microsurfacing aggregate as required by project specifications or as requested by the on-site inspector for magnesium sulfate soundness, gradation, crushed face count, acid insoluble, SAC, sand equivalent, etc.
- Obtain a minimum of one binder and tack-coat sample per project/source if not pre-approved by CST/M&P before use.



**Weiss Lane Roadway Improvements Project
Construction Materials Testing
Pflugerville and Travis County, Texas**

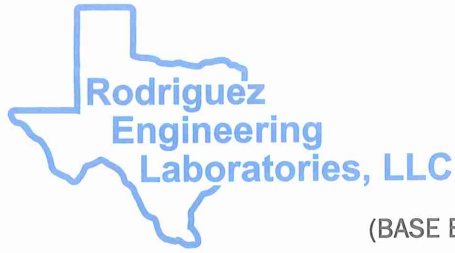
SCOPE OF WORK

Seal Coat Testing:

- Perform seal-coat aggregate testing as required by project specifications or as requested by the on-site inspector for gradation, LA abrasion, magnesium sulfate soundness, SAC, pressure slake, freeze thaw, unit weight, absorption, angularity, deleterious material, decantation, flakiness index, etc.

Portland Cement Concrete Testing:

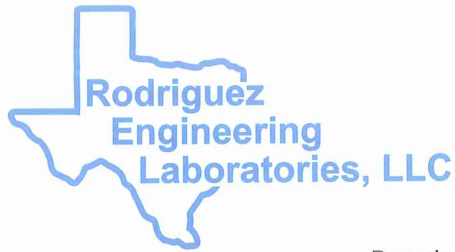
- Perform PCC testing as required by project specifications or as requested by the on-site inspector for compressive strength (two 7-days and two 28-days cylinders), slump, air content, temperature test, etc.
- Perform concrete aggregate testing as required by project specifications or requested by the on-site inspector for gradation, decantation, deleterious materials, L.A. abrasion, magnesium sulfate soundness, sand equivalent, organic impurities, fineness modulus, acid insoluble residue, etc.
- Review mix design of concrete as requested.



**Weiss Lane Roadway Improvements
Pflugerville and Travis County, Texas
Basis for Cost Estimate
Construction Materials Testing**

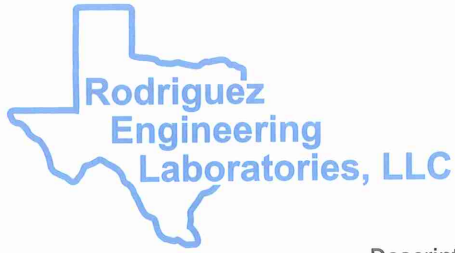
(BASE BID)

Description	Estimated Costs			Total
	Quantity	Unit	Cost/Unit	
PFLUGER C8 Item DR-04: RC PIPE CL (III)(18 IN), Trench Backfill	(6,693 LF)			
Tech Time	72 hrs	\$	55.00	\$ 3,960.00
Moisture Density Curve (TEX 114-E)	8 ea	\$	253.00	\$ 2,024.00
Atteberg Limits (TEX- 104, 105 & 106-E)	8 ea	\$	71.00	\$ 568.00
Sieve Analysis (TEX-110 & 111-E)	8 ea	\$	71.00	\$ 568.00
In-Place Densities (Nuclear Gauge Tex-115-E)	160 ea	\$	39.00	\$ 6,240.00
Vehicle	36 ea	\$	50.00	\$ 1,800.00
			Sub-Total =	\$ 15,160.00
PFLUGER C8 Item DR-05: RC PIPE CL (III)(24 IN), Trench Backfill	(3,255 LF)			
Tech Time	36 hrs	\$	55.00	\$ 1,980.00
Moisture Density Curve (TEX 114-E)	4 ea	\$	253.00	\$ 1,012.00
Atteberg Limits (TEX- 104, 105 & 106-E)	4 ea	\$	71.00	\$ 284.00
Sieve Analysis (TEX-110 & 111-E)	4 ea	\$	71.00	\$ 284.00
In-Place Densities (Nuclear Gauge Tex-115-E)	78 ea	\$	39.00	\$ 3,042.00
Vehicle	18 ea	\$	50.00	\$ 900.00
			Sub-Total =	\$ 7,502.00
PFLUGER C8 Item DR-06: RC PIPE CL (III)(30 IN), Trench Backfill	(3,523 LF)			
Tech Time	38 hrs	\$	55.00	\$ 2,090.00
Moisture Density Curve (TEX 114-E)	4 ea	\$	253.00	\$ 1,012.00
Atteberg Limits (TEX- 104, 105 & 106-E)	4 ea	\$	71.00	\$ 284.00
Sieve Analysis (TEX-110 & 111-E)	4 ea	\$	71.00	\$ 284.00
In-Place Densities (Nuclear Gauge Tex-115-E)	85 ea	\$	39.00	\$ 3,315.00
Vehicle	19 ea	\$	50.00	\$ 950.00
			Sub-Total =	\$ 7,935.00
PFLUGER C8 Item DR-07: RC PIPE CL (III)(36 IN), Trench Backfill	(1,034 LF)			
Tech Time	12 hrs	\$	55.00	\$ 660.00
Moisture Density Curve (TEX 114-E)	2 ea	\$	253.00	\$ 506.00
Atteberg Limits (TEX- 104, 105 & 106-E)	2 ea	\$	71.00	\$ 142.00
Sieve Analysis (TEX-110 & 111-E)	2 ea	\$	71.00	\$ 142.00
In-Place Densities (Nuclear Gauge Tex-115-E)	24 ea	\$	39.00	\$ 936.00
Vehicle	6 ea	\$	50.00	\$ 300.00
			Sub-Total =	\$ 2,686.00
PFLUGER C8 Item DR-08: RC PIPE CL (III)(42 IN), Trench Backfill	(170 LF)			
Tech Time	4 hrs	\$	55.00	\$ 220.00
Moisture Density Curve (TEX 114-E)	1 ea	\$	253.00	\$ 253.00
Atteberg Limits (TEX- 104, 105 & 106-E)	1 ea	\$	71.00	\$ 71.00
Sieve Analysis (TEX-110 & 111-E)	1 ea	\$	71.00	\$ 71.00
In-Place Densities (Nuclear Gauge Tex-115-E)	6 ea	\$	39.00	\$ 234.00
Vehicle	2 ea	\$	50.00	\$ 100.00
			Sub-Total =	\$ 949.00



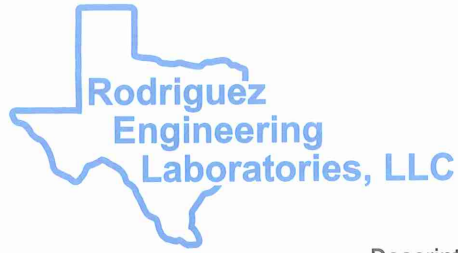
**Weiss Lane Roadway Improvements
Pflugerville and Travis County, Texas
Basis for Cost Estimate
Construction Materials Testing**

Description	Estimated Costs				Total
	Quantity	Unit	Cost/Unit		
PFLUGER SD3 Item RW-03: EMBANKMENT	(40,419 CY)				
Tech Time	108	hrs	\$	55.00	\$ 5,940.00
Moisture Density Curve (TEX 114-E)	12	ea	\$	253.00	\$ 3,036.00
Atteberg Limits (TEX- 104, 105 & 106-E)	12	ea	\$	71.00	\$ 852.00
Sieve Analysis (TEX-110 & 111-E)	12	ea	\$	71.00	\$ 852.00
In-Place Densities (Nuclear Gauge Tex-115-E)	240	ea	\$	39.00	\$ 9,360.00
Vehicle	54	ea	\$	50.00	\$ 2,700.00
			Sub-Total =		\$ 22,740.00
TxDOT 260 Item RW-05: LIME TRT (EXIT MATL) (8")	(151,406 SY)				
Tech Time	120	hrs	\$	55.00	\$ 6,600.00
Moisture Density Curve (TEX 113-E)	10	ea	\$	253.00	\$ 2,530.00
Atteberg Limits (TEX- 104, 105 & 106-E)	10	ea	\$	71.00	\$ 710.00
Field Gradation of Lime-Soil (TEX-101-E)	20	ea	\$	20.00	\$ 400.00
In-Place Densities (Nuclear Gauge Tex-115-E)	202	ea	\$	39.00	\$ 7,878.00
Thickness Determination (TEX-140-E)	152	ea	\$	18.00	\$ 2,736.00
Sulfate Content (TEX-145-E)	14	ea	\$	95.00	\$ 1,330.00
Organic Content (TEX-148-E), 7 tests	14	hrs	\$	55.00	\$ 770.00
Stabilization Ability of Lime by Soil pH (TEX-121-E, Part III)	10	ea	\$	270.00	\$ 2,700.00
Project Engineer	8	hrs	\$	115.00	\$ 920.00
Vehicle	60	ea	\$	50.00	\$ 3,000.00
			Sub-Total =		\$ 29,574.00
PFLUGER SD4 Item RW-06: FLEXIBLE BASE (12")	(9,999 SY)				
PFLUGER SD4 Item RW-07: FLEXIBLE BASE (18")	(144,360 SY)				
Tech Time	120	hrs	\$	55.00	\$ 6,600.00
Moisture Density Curve (TEX 113-E)	4	ea	\$	253.00	\$ 1,012.00
Atteberg Limits (TEX- 104, 105 & 106-E)	15	ea	\$	71.00	\$ 1,065.00
Sieve Analysis (TEX-110 & 111-E)	15	ea	\$	71.00	\$ 1,065.00
In-Place Densities (Nuclear Gauge Tex-115-E)	606	ea	\$	39.00	\$ 23,634.00
Base Thickness Determination (TEX-140-E)	155	ea	\$	18.00	\$ 2,790.00
Sample Preparation (TEX-101-E)	4	hr	\$	55.00	\$ 220.00
TxDOT Triaxial Classification (TEX-117-E)	4	ea	\$	1,265.00	\$ 5,060.00
Wet Ball Mill (TEX-116-E)	4	ea	\$	220.00	\$ 880.00
Vehicle	60	ea	\$	50.00	\$ 3,000.00
			Sub-Total =		\$ 45,326.00
PFLUGER SD1 Item RW-09: HMAC TY C PG76-22 (2")	(108,799 SY)				
Tech Time	27	hrs	\$	55.00	\$ 1,485.00
Asphalt Content by Extraction (Tex-210-F)	54	ea	\$	161.00	\$ 8,694.00
Gradation of Aggregate from Extraction (Tex-200-F)	54	ea	\$	71.00	\$ 3,834.00
Voids in Mineral Aggregates (VMA) (Tex-207-F)	54	ea	\$	-	\$ -
Specimen Molding by TGC (Tex-206-F), 3 per set	54	set	\$	60.00	\$ 3,240.00
Bulk Density of Compacted Specimens (Tex-207-F, Part I), 3 per	54	set	\$	60.00	\$ 3,240.00
Hveem Stability (Tex-208-F), 3 per set	54	set	\$	60.00	\$ 3,240.00



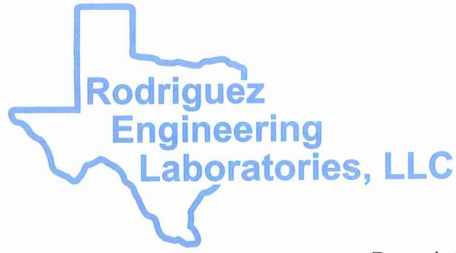
**Weiss Lane Roadway Improvements
Pflugerville and Travis County, Texas
Basis for Cost Estimate
Construction Materials Testing**

Description	Estimated Costs			Total
	Quantity	Unit	Cost/Unit	
PFLUGER SD1 Item RW-09: HMAC TY C PG76-22 (2")				
Maximum Theoretical Specific Gravity (Tex 227-F), Bag	54	ea	\$ 50.00	\$ 2,700.00
Hamburg Wheel Tracker (Tex 242-F)	1	ea	\$ 500.00	\$ 500.00
Obtaining Field-Cut Specimens	54	cores	\$ 93.50	\$ 5,049.00
Bulk Density of Core Specimens (Tex-207-F, Part I)	54	cores	\$ 24.00	\$ 1,296.00
Vehicle	18	ea	\$ 50.00	\$ 900.00
			Sub-Total =	\$ 34,178.00
PFLUGER SD1 Item RW-10: HMAC TY B PG64-22 (4")				
			(108,799 SY)	
Tech Time	27	hrs	\$ 55.00	\$ 1,485.00
Asphalt Content by Extraction (Tex-210-F)	54	ea	\$ 161.00	\$ 8,694.00
Gradation of Aggregate from Extraction (Tex-200-F)	54	ea	\$ 71.00	\$ 3,834.00
Voids in Mineral Aggregates (VMA) (Tex-207-F)	54	ea	\$ -	\$ -
Specimen Molding by TGC (Tex-206-F), 3 per set	54	set	\$ 60.00	\$ 3,240.00
Bulk Density of Compacted Specimens (Tex-207-F, Part I), 3 per	54	set	\$ 60.00	\$ 3,240.00
Hveem Stability (Tex-208-F), 3 per set	54	set	\$ 60.00	\$ 3,240.00
Maximum Theoretical Specific Gravity (Tex 227-F), Bag	54	ea	\$ 50.00	\$ 2,700.00
Hamburg Wheel Tracker (Tex 242-F)	1	ea	\$ 500.00	\$ 500.00
Obtaining Field-Cut Specimens	54	cores	\$ 93.50	\$ 5,049.00
Bulk Density of Core Specimens (Tex-207-F, Part I)	54	cores	\$ 24.00	\$ 1,296.00
Vehicle	18	ea	\$ 50.00	\$ 900.00
			Sub-Total =	\$ 34,178.00
PFLUGER C5 Item RW-17: CONCRETE DRIVEWAY				
			(2,058 SY)	
Tech Time	35	hrs	\$ 55.00	\$ 1,925.00
Concrete Cylinder Compressive Strength (Tex-418-A)	28	ea	\$ 25.50	\$ 714.00
Slump (Tex-415-A)	7	ea	\$ -	\$ -
Entrained Air (Tex-416-A or Tex-414-A)	7	ea	\$ -	\$ -
Concrete Temperature (Tex-422-A)	7	ea	\$ -	\$ -
Vehicle	14	ea	\$ 50.00	\$ 700.00
			Sub-Total =	\$ 3,339.00
TxDOT 416 Item TR-01: DRILL SHAFT (TRF SIG POLE) (24 INCH)				
			(42 LF)	
TxDOT 416 Item TR-02: DRILL SHAFT (TRF SIG POLE) (30 INCH)				
			(36 LF)	
TxDOT 416 Item TR-03: DRILL SHAFT (TRF SIG POLE) (36 INCH)				
			(56 LF)	
TxDOT 416 Item TR-04: DRILL SHAFT (TRF SIG POLE) (48 INCH)				
			(88 LF)	
Tech Time	25	hrs	\$ 55.00	\$ 1,375.00
Concrete Cylinder Compressive Strength (Tex-418-A)	20	ea	\$ 25.50	\$ 510.00
Slump (Tex-415-A)	5	ea	\$ -	\$ -
Entrained Air (Tex-416-A or Tex-414-A)	5	ea	\$ -	\$ -
Concrete Temperature (Tex-422-A)	5	ea	\$ -	\$ -
Vehicle	10	ea	\$ 50.00	\$ 500.00
			Sub-Total =	\$ 2,385.00



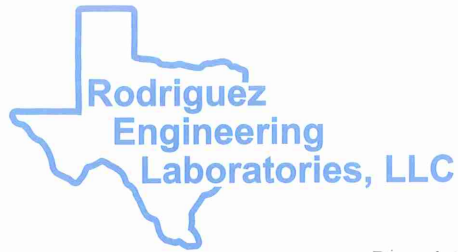
**Weiss Lane Roadway Improvements
Pflugerville and Travis County, Texas
Basis for Cost Estimate
Construction Materials Testing**

Description	Estimated Costs				Total
	Quantity	Unit	Cost/Unit		
Item BR-01: CEM STABIL BKFL	(961 CY)				
Tech Time	10	hrs	\$	55.00	\$ 550.00
Moisture Density Curve (TEX 120-E)	2	ea	\$	253.00	\$ 506.00
Sieve Analysis (TEX-110 & 111-E)	2	ea	\$	71.00	\$ 142.00
Atteberg Limits (TEX- 104, 105 & 106-E)	2	ea	\$	71.00	\$ 142.00
In-Place Densities (Nuclear Gauge Tex-115-E)	10	ea	\$	39.00	\$ 390.00
Vehicle	5	ea	\$	50.00	\$ 250.00
			Sub-Total =		\$ 1,980.00
Item BR-02: DRILL SHAFT (36 IN)	(1,796 LF)				
Tech Time	95	hrs	\$	55.00	\$ 5,225.00
Concrete Cylinder Compressive Strength (Tex-418-A)	76	ea	\$	25.50	\$ 1,938.00
Slump (Tex-415-A)	19	ea	\$	-	\$ -
Entrained Air (Tex-416-A or Tex-414-A)	19	ea	\$	-	\$ -
Concrete Temperature (Tex-422-A)	19	ea	\$	-	\$ -
Vehicle	38	ea	\$	50.00	\$ 1,900.00
			Sub-Total =		\$ 9,063.00
Item BR-03: CL C CONC (ABUT)	(311.8 CY)				
Tech Time	40	hrs	\$	55.00	\$ 2,200.00
Concrete Cylinder Compressive Strength (Tex-418-A)	32	ea	\$	25.50	\$ 816.00
Slump (Tex-415-A)	8	ea	\$	-	\$ -
Entrained Air (Tex-416-A or Tex-414-A)	8	ea	\$	-	\$ -
Concrete Temperature (Tex-422-A)	8	ea	\$	-	\$ -
Vehicle	16	ea	\$	50.00	\$ 800.00
			Sub-Total =		\$ 3,816.00
Item BR-04: REINF CONC SLAB	(32,591 SF)				
Tech Time	100	hrs	\$	55.00	\$ 5,500.00
Concrete Cylinder Compressive Strength (Tex-418-A)	80	ea	\$	25.50	\$ 2,040.00
Slump (Tex-415-A)	20	ea	\$	-	\$ -
Entrained Air (Tex-416-A or Tex-414-A)	20	ea	\$	-	\$ -
Concrete Temperature (Tex-422-A)	20	ea	\$	-	\$ -
Vehicle	20	ea	\$	50.00	\$ 1,000.00
			Sub-Total =		\$ 8,540.00
Item BR-05: APPROACH SLAB	(433.8 CY)				
Tech Time	50	hrs	\$	55.00	\$ 2,750.00
Concrete Cylinder Compressive Strength (Tex-418-A)	40	ea	\$	25.50	\$ 1,020.00
Slump (Tex-415-A)	10	ea	\$	-	\$ -
Entrained Air (Tex-416-A or Tex-414-A)	10	ea	\$	-	\$ -
Concrete Temperature (Tex-422-A)	10	ea	\$	-	\$ -
Vehicle	20	ea	\$	50.00	\$ 1,000.00
			Sub-Total =		\$ 4,770.00



**Weiss Lane Roadway Improvements
Pflugerville and Travis County, Texas
Basis for Cost Estimate
Construction Materials Testing**

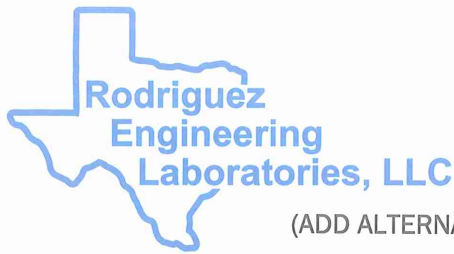
Description	Estimated Costs			Total
	Quantity	Unit	Cost/Unit	
Item BR-16: DRILL SHAFT (18 IN)	(144 LF)			
Tech Time	5 hrs	\$	55.00	\$ 275.00
Concrete Cylinder Compressive Strength (Tex-418-A)	4 ea	\$	25.50	\$ 102.00
Slump (Tex-415-A)	1 ea	\$	-	\$ -
Entrained Air (Tex-416-A or Tex-414-A)	1 ea	\$	-	\$ -
Concrete Temperature (Tex-422-A)	1 ea	\$	-	\$ -
Vehicle	2 ea	\$	50.00	\$ 100.00
			Sub-Total =	\$ 477.00
Item BR-17: CL C CONC (CAP)	(34.6 CY)			
Tech Time	10 hrs	\$	55.00	\$ 550.00
Concrete Cylinder Compressive Strength (Tex-418-A)	8 ea	\$	25.50	\$ 204.00
Slump (Tex-415-A)	2 ea	\$	-	\$ -
Entrained Air (Tex-416-A or Tex-414-A)	2 ea	\$	-	\$ -
Concrete Temperature (Tex-422-A)	2 ea	\$	-	\$ -
Vehicle	4 ea	\$	50.00	\$ 200.00
			Sub-Total =	\$ 954.00
Item BR-18: CL C CONC (COLUMN)	(4.8 CY)			
Tech Time	5 hrs	\$	55.00	\$ 275.00
Concrete Cylinder Compressive Strength (Tex-418-A)	4 ea	\$	25.50	\$ 102.00
Slump (Tex-415-A)	1 ea	\$	-	\$ -
Entrained Air (Tex-416-A or Tex-414-A)	1 ea	\$	-	\$ -
Concrete Temperature (Tex-422-A)	1 ea	\$	-	\$ -
Vehicle	2 ea	\$	50.00	\$ 100.00
			Sub-Total =	\$ 477.00
PFLUGER W4 Item W-15: 30" STEEL ENCASEMENT	(927 LF)			
Tech Time	12 hrs	\$	55.00	\$ 660.00
Moisture Density Curve (TEX 114-E)	2 ea	\$	253.00	\$ 506.00
Atteberg Limits (TEX- 104, 105 & 106-E)	2 ea	\$	71.00	\$ 142.00
Sieve Analysis (TEX-110 & 111-E)	2 ea	\$	71.00	\$ 142.00
In-Place Densities (Nuclear Gauge Tex-115-E)	24 ea	\$	39.00	\$ 936.00
Vehicle	6 ea	\$	50.00	\$ 300.00
			Sub-Total =	\$ 2,686.00
PFLUGER W4 Item W-16: 14" STEEL ENCASEMENT	(127 LF)			
PFLUGER W4 Item W-17: 16" STEEL ENCASEMENT	(97 LF)			
Tech Time	6 hrs	\$	55.00	\$ 330.00
Moisture Density Curve (TEX 114-E)	1 ea	\$	253.00	\$ 253.00
Atteberg Limits (TEX- 104, 105 & 106-E)	1 ea	\$	71.00	\$ 71.00
Sieve Analysis (TEX-110 & 111-E)	1 ea	\$	71.00	\$ 71.00
In-Place Densities (Nuclear Gauge Tex-115-E)	8 ea	\$	39.00	\$ 312.00
Vehicle	3 ea	\$	50.00	\$ 150.00
			Sub-Total =	\$ 1,187.00



**Weiss Lane Roadway Improvements
Pflugerville and Travis County, Texas
Basis for Cost Estimate
Construction Materials Testing**

Description	Estimated Costs		Cost/Unit	Total
	Quantity	Unit		
PFLUGER W2 Item W-18: 4" DR-18 PVC WATER LINE	(139 LF)			
PFLUGER W2 Item W-19: 6" DR-18 PVC WATER LINE	(183 LF)			
PFLUGER W2 Item W-20: 8" DR-18 PVC WATER LINE	(24 LF)			
PFLUGER W2 Item W-21: 12" DR-18 PVC WATER LINE	(45 LF)			
Tech Time	12 hrs	\$	55.00	\$ 660.00
Moisture Density Curve (TEX 114-E)	2 ea	\$	253.00	\$ 506.00
Atteberg Limits (TEX- 104, 105 & 106-E)	2 ea	\$	71.00	\$ 142.00
Sieve Analysis (TEX-110 & 111-E)	2 ea	\$	71.00	\$ 142.00
In-Place Densities (Nuclear Gauge Tex-115-E)	20 ea	\$	39.00	\$ 780.00
Vehicle	6 ea	\$	50.00	\$ 300.00
			Sub-Total =	\$ 2,530.00
 PFLUGER W2 Item W-22: 16" DR-18 PVC WATER LINE	 (7,364 LF)			
Tech Time	80 hrs	\$	55.00	\$ 4,400.00
Moisture Density Curve (TEX 114-E)	8 ea	\$	253.00	\$ 2,024.00
Atteberg Limits (TEX- 104, 105 & 106-E)	8 ea	\$	71.00	\$ 568.00
Sieve Analysis (TEX-110 & 111-E)	8 ea	\$	71.00	\$ 568.00
In-Place Densities (Nuclear Gauge Tex-115-E)	196 ea	\$	39.00	\$ 7,644.00
Vehicle	40 ea	\$	50.00	\$ 2,000.00
			Sub-Total =	\$ 17,204.00
 PFLUGER W2 Item W-23: 16" DR-18 RJ PVC WATER LINE	 (2,198 LF)			
Tech Time	24 hrs	\$	55.00	\$ 1,320.00
Moisture Density Curve (TEX 114-E)	3 ea	\$	253.00	\$ 759.00
Atteberg Limits (TEX- 104, 105 & 106-E)	3 ea	\$	71.00	\$ 213.00
Sieve Analysis (TEX-110 & 111-E)	3 ea	\$	71.00	\$ 213.00
In-Place Densities (Nuclear Gauge Tex-115-E)	59 ea	\$	39.00	\$ 2,301.00
Vehicle	12 ea	\$	50.00	\$ 600.00
			Sub-Total =	\$ 5,406.00

Total Estimated Fee (BASE BID) = \$ 265,042.00



**Weiss Lane Roadway Improvements
Pflugerville and Travis County, Texas
Basis for Cost Estimate
Construction Materials Testing**

(ADD ALTERNATE 1 BID)

Description	Estimated Costs			Total
	Quantity	Unit	Cost/Unit	
TxDOT 416 Item ALT1-01: DRILL SHAFT (TRF SIG POLE) (24 INCH)	(36 LF)			
TxDOT 416 Item ALT1-02: DRILL SHAFT (TRF SIG POLE) (30 INCH)	(24 LF)			
TxDOT 416 Item ALT1-03: DRILL SHAFT (TRF SIG POLE) (36 INCH)	(14 LF)			
TxDOT 416 Item ALT1-04: DRILL SHAFT (TRF SIG POLE) (48 INCH)	(110 LF)			
Tech Time	25 hrs	\$	55.00	\$ 1,375.00
Concrete Cylinder Compressive Strength (Tex-418-A)	20 ea	\$	25.50	\$ 510.00
Slump (Tex-415-A)	5 ea	\$	-	\$ -
Entrained Air (Tex-416-A or Tex-414-A)	5 ea	\$	-	\$ -
Concrete Temperature (Tex-422-A)	5 ea	\$	-	\$ -
Vehicle	10 ea	\$	50.00	\$ 500.00
			Sub-Total =	\$ 2,385.00

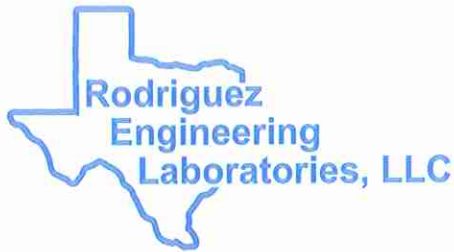
Total Estimated Fee (ADD ALTERNATE 1 BID) = \$ 2,385.00

(ADD ALTERNATE 2 BID)

Description	Estimated Costs			Total
	Quantity	Unit	Cost/Unit	
PFLUGER Item ALT2-1: ONCOR STREET LIGHT FOUNDATION	(57 EA)			
Tech Time	30 hrs	\$	55.00	\$ 1,650.00
Concrete Cylinder Compressive Strength (Tex-418-A)	24 ea	\$	25.50	\$ 612.00
Slump (Tex-415-A)	6 ea	\$	-	\$ -
Entrained Air (Tex-416-A or Tex-414-A)	6 ea	\$	-	\$ -
Concrete Temperature (Tex-422-A)	6 ea	\$	-	\$ -
Vehicle	12 ea	\$	50.00	\$ 600.00
			Sub-Total =	\$ 2,862.00

Total Estimated Fee (ADD ALTERNATE 2 BID) = \$ 2,862.00

Total Estimated Fee (BASE BID + ADD ALTERNATE 1 & 2 BID) = \$ 270,289.00



**Weiss Lane Roadway Project
Pflugerville and Travis County, Texas
FEE SCHEDULE**

Rodriguez Engineering Laboratories, LLC	Unit	Fees
1. Field Technician (2 hr. minimum)		
1.1 Soil Technician	Per hr	\$55.00
1.2 Concrete Technician TxDOT or ACI Grade I	Per hr	\$55.00
1.3 Asphalt Technician		
1.3.1 TxDOT Certified Technician (Level IA & IB)	Per hr	\$55.00
1.3.2 TxDOT Certified Technician (Level II)	Per hr	\$75.00
1.4 Senior Field Inspector	Per hr	\$75.00
1.5 Structural Steel Technician		
1.5.1 CWI	Per hr	\$90.00
1.5.2 NDT Level II	Per hr	\$90.00
1.6. Bolting Inspection	Per hr	\$90.00
1.7 NICET Level III	Per hr	\$90.00
2. Field Testing Equipment (2 hr. minimum, technician time not included)		
2.1 Vehicle		
2.1.1 Vehicle (Within 50 miles from our office)	Per day	\$50.00
2.1.2 Vehicle (More than 50 miles from our office)	Per mile	\$0.54
2.2 Dye Penetrant — Magnetic Particle Supplies		At Cost
2.3 Ultrasonic Testing Equipment	Per hr	\$23.00
2.4 Concrete Coring Equipment	Per hr	\$39.00
2.4.1 Concrete Core Bit Charges		
2.4.1.1 3 inch diameter core	Per inch	\$4.50
2.4.1.2 4 inch diameter core	Per inch	\$5.50
2.4.1.3 6 inch diameter core	Per inch	\$7.70
2.5 Heavy Falling Weight Deflectometer (20 Test-points minimum, Technician time not included)	Test Point	\$20.00
2.6 Profilograph Testing (Technician time not included)	Day	\$400.00
3. Testing of Soils and Base Materials		
3.1 Bulk Sample Pick-Up		
3.1.1 Inside the City of Austin ETJ (2 hrs or less tech time)	Per Trip	\$110.00
3.1.2 Outside the City of Austin ETJ (2 hrs Minimum)	Per hr	\$55.00
3.2 Field Nuclear Density (Without Technician Time (3 Minimum))	Per ea	\$39.00
3.3 Sample Preparation (TEX-101-E)	Per ea	\$68.00
3.4 Natural Moisture Content (TEX-103-E)	Per ea	\$20.00
3.5 Sieve Analysis (TEX-110-E)	Per ea	\$71.00
3.6 Atterberg Limits (Liquid and Plastic Limits) (TEX-104-E, TEX-105-E, TEX-106-E)	Per ea	\$71.00
3.7 Percent Passing No. 200 Sieve (TEX-111-E)	Per ea	\$46.00
3.8 Bar Linear Shrinkage of Soils (TEX-107-E)	Per ea	\$60.00
3.9 Moisture Density Relationship (ASTM D 698) Standard Proctor Compaction Test)	Per ea	\$253.00
3.10 Moisture Density Relationship (ASTM D 1557) (Modified Proctor Compaction Test)	Per ea	\$253.00
3.11 Moisture Density Relationship (TEX-113-E) Compaction Test	Per ea	\$253.00
3.12 Moisture Density Relationship (TEX-114-E, Part I) Compaction Test	Per ea	\$253.00
3.13 Moisture Density Relationship (TEX-114-E, Part II) Compaction Test	Per ea	\$280.00
3.14 Texas Triaxial Compression Test on Base Material TEX- 117E, Part II; Including the		
3.15 Molding, Curing and Testing 9 Specimens	Per ea	\$1,265.00
3.3 Sample Preparation (TEX-101-E)	Per ea	\$55.00
3.5 Sieve Analysis (TEX-110-E)	Per ea	\$71.00
3.6 Atterberg Limits (TEX-104-E, TEX-105-E, TEX-106-E)	Per ea	\$71.00
3.8 Bar Linear Shrinkage of Soils (TEX-107-E)	Per ea	\$60.00
3.11 Moisture Density Relationship (TEX-113-E) Compaction Test	Per ea	\$253.00
3.16 Wet Ball Mill (TEX-116-E)	Per ea	\$220.00



**Weiss Lane Roadway Project
Pflugerville and Travis County, Texas
FEE SCHEDULE**

Rodriguez Engineering Laboratories, LLC	Unit	Fees
3.17 Permeability/Conductivity of Silt or Clay (ASTM D 5084)	Per ea	\$425.00
3.18 Sample Remolding	Per ea	\$58.00
3.19 Soil Specific Gravity (TEX-108-E)	Per ea	\$68.00
3.20 Soil Lime Compression Test (TEX-121-E), per specimen	Per ea	\$74.00
3.21 Resistivity of Soils (TEX-129-E)	Per ea	\$99.00
3.22 Lime Series Curve (ASTM D 4318)	Per point	\$99.00
3.23 Stabilization Ability of Lime by Soil pH (TEX-121-E Part III) up to 6 Points	Per Each	\$270.00
3.24 Field Gradation of Lime Soil (1.75, 0.75, No 4 Sieve), in addition to technician time	Per Point	\$20.00
3.25 Soluble Sulfate Content (TEX-145-E)	Per ea	\$95.00
3.26 pH of Soils (TEX-128-E)	Per ea	\$65.00
3.27 Hydrometer Analysis (ASTM D 422) (Without mechanical sieve analysis)	Per ea	\$104.00
3.28 Thickness Determination (Tex-140-E), in addition to technician time	Per ea	\$18.00
4. Testing of Concrete and Aggregates		
4.1 Sample Pick-Up		
4.1.1 Inside the City of Austin ETJ (2 hrs or less tech time)	Per Trip	\$110.00
4.1.2 Outside the City of Austin ETJ (2 hrs Minimum)	Per hr	\$55.00
4.2 Aggregate Gradation (TEX-401-A)	Per ea	\$71.00
4.3 Specific Gravity of Aggregate	Per ea	\$55.00
4.4 Absorption of Aggregate	Per ea	\$36.00
4.5 Unit Weight of Aggregate	Per ea	\$36.00
4.6 Abrasion Test (TEX-410-A)	Per ea	\$242.00
4.7 Decantation (TEX-406-E)	Per ea	\$33.00
4.8 Organic Impurities, Tex-408-A	Per ea	\$50.00
4.9 Soundness, Sodium or Magnesium, 5 cycles (Tex-411-A)	Per ea	\$355.00
4.10 Concrete Cylinder Compressive Strength (TEX-418-A)	Per ea	\$25.50
4.11 Beam Flexural Strength (TEX-420-A or TEX 448-A)	Per ea	\$38.50
4.12 Coarse Aggregate Angularity	Per ea	\$74.00
4.13 Fine Aggregate Angularity	Per ea	\$74.00
4.14 Flat, Elongated Particles	Per ea	\$74.00
4.15 Deleterious Materials (Clay Lumps/Friable Part I)	Per ea	\$66.00
4.16 Crushed Face Count	Per ea	\$75.00
4.17 Sand Equivalent (Clay Content), Tex-203-F	Per ea	\$86.00
5. Testing of HMAc and Liquid Asphalt		
5.1 Bag Sample Pick-up From Source, Project, or Field Office		
5.1.1 Inside the City of Austin ETJ (2 hrs or less tech time)	Per Trip	\$110.00
5.1.2 Outside the City of Austin ETJ (2 hrs Minimum)	Per hr	\$55.00
5.2 Obtaining Field-cut Specimens		
5.2.1 0" to 6" Depth & 6" Ø, including patching & sample Preparation, 3 minimum)	Per ea	\$93.50
5.2.2 > 6" to 10" Depth & 6" Ø, including patching & sample Preparation, 3 minimum)	Per ea	\$104.50
5.2.3 > 10" to 14" Depth & 6" Ø, including patching & sample Preparation, 3 minimum)	Per ea	\$137.50
5.2.4 > 14" Depth & 6" Ø, including patching & sample Preparation, 3 minimum)		\$137.50
plus \$5 per inch beyond 14"		\$5.50
5.3 Specimen Molding by TGC, Tex-206-F (3 per set)	Per ea	\$60.00
5.4 Specimen Molding by SGC, Tex-241-F (3 per set)	Per ea	\$85.00
5.5 Bulk Density of Compacted Specimens, Tex-207-F, Part I (3 per set)	Per ea	\$60.00
5.6 Hveem Stability, Tex-208-F (3 per set)	Per ea	\$60.00
5.7 Asphalt Content by Extraction, Tex-210-F	Per ea	\$161.00
5.8 Asphalt Content by Ignition Oven, Tex-236-F	Per ea	\$161.00
5.9 Gradation of Aggregate from Extraction or Ignition, Tex-200-F	Per ea	\$71.00



**Weiss Lane Roadway Project
Pflugerville and Travis County, Texas
FEE SCHEDULE**

Rodriguez Engineering Laboratories, LLC	Unit	Fees
5.10 Maximum Theoretical Specific Gravity, Rice Method (TEX-227-F)		
5.10.1 Bag Sample, Rice	Per ea	\$50.00
5.10.2 Core Sample, Rice	Per ea	\$60.00
5.11 Bulk Density of Core Specimens (Tex-207-F, Part I)	Per ea	\$24.00
5.12 Bulk Density of Core Specimens (Vacuum Method) (Tex-207-F, Part I & VI)	Per ea	\$60.00
5.13 Sand Equivalent, Tex-203-F	Per ea	\$86.00
5.14 Micro Deval Abrasion (Tex-461-A)	Per ea	\$220.00
5.15 Indirect Tensile Strength, Tex-226-F (Molding Not Included)	Per ea	\$65.00
5.16 Residue by Evaporation	Per ea	\$135.00
5.17 Boiling Stripping Test (Tex-530-C)	Per ea	\$100.00
5.18 Hamburg Wheel Tracker (Tex-242-F)	Per ea	\$500.00
5.19 Hamburg Wheel Tracker (Tex-242-F) (Molded by Client)	Per ea	\$350.00
5.20 Cantabro Loss (Tex-245-F) (Molding Not Included)	Per ea	\$100.00
5.21 Absor Recovery, Tex-211-F (Extraction Not Included)	Per ea	\$214.00
5.22 Storage Stability (24 Hrs)	Per ea	\$100.00
5.23 Density of Emulsified Asphalt (ASTM D6937)	Per ea	\$65.00
5.24 Demulsibility (Anionic or Cationic Emulsions)	Per ea	\$65.00
5.25 Viscosity (Brookfield or Saybolt)	Per ea	\$55.00
5.26 Penetration	Per ea	\$57.00
5.27 Ductility	Per ea	\$91.00
5.28 Float Test	Per ea	\$75.00
5.29 Elastic Recovery	Per ea	\$75.00
5.30 Cement Mix	Per ea	\$65.00
5.31 Softening Point (Ring and Ball)	Per ea	\$91.00
5.32 Absolute Viscosity (Cutback Asphalt or Coal Tars)	Per ea	\$57.00
5.33 Residue by Distillation (Cutback or Emulsified Asphalts)	Per ea	\$135.00
5.34 Breaking Index (Asphalt Emulsions)	Per ea	\$85.00
5.35 Sieve Test	Per ea	\$40.00
6. Geotechnical Services		
6.1 Mobilization/Demobilization (Within 50 miles from our office), 2-Man Crew with Rig	Per ea	\$250.00
6.2 Mobilization/Demobilization, 2-Man Crew with Rig (More than 50 miles from our office)	Per mile	\$3.20
6.3 Vehicle (Water Truck, Pick-Up, etc.)		
6.3.1 Vehicle (Within 50 miles from our office)	Per day	\$50.00
6.3.2 Vehicle (More than 50 miles from our office)	Per mile	\$0.56
6.4 Technician (Drilling Support)		
6.4.1 Helper, Engineering Technician (Mobilization/Demobilization)	Per hr	\$55.00
6.4.2 Logger, Senior Engineering Technician (Portal to Portal)	Per hr	\$75.00
6.5 Drilling		
6.5.1 Auger or Wash Borings, Soil (Add \$3.00/LF for drilling deeper than 50 ft)	Per LF	\$15.00
6.5.2 Auger or Coring, Soft Rock	Per LF	\$20.00
6.5.3 Rock Coring	Per LF	\$22.50
6.6 Grout/Bentonite Backfill	Per LF	\$4.50
6.7 Undisturbed Shelby Tube Sample	Per ea	\$25.00
6.8 Standard Penetration Test	Per ea	\$45.00
6.9 Texas Cone Penetration Test	Per ea	\$45.00
6.10 Dynamic Cone Penetrometer (Without Technician time)	Per ea	\$125.00
6.11 Unconsolidated/Consolidated Undrained Triaxial (Multiple Stage)	Per ea	\$515.00
6.12 Consolidated Drained Triaxial (Multiple Stage)	Per ea	\$750.00
6.13 Organic Content Determination	Per ea	\$95.00



**Weiss Lane Roadway Project
Pflugerville and Travis County, Texas
FEE SCHEDULE**

Rodriguez Engineering Laboratories, LLC	Unit	Fees
6.14 Consolidation Test	Per ea	\$525.00
6.15 California Bearing Ratio (CBR) Test	Per ea	\$485.00
6.16 Dry Unit Weight Test	Per ea	\$35.00
6.17 Unconfined Compressive Strength Test	Per ea	\$55.00
6.18 Traffic Control (Safety Cones and Signs)	Per day	\$250.00
6.19 Traffic Control (Single Moving Lane Closure)	Per day	\$880.00
6.20 Flagging Services (Incl. Equipment, Set-up, Two-man Crew)	Per day	\$980.00
6.21 Patching Bores/Cores	Per ea	\$25.00
6.22 Bulk Sample (Triaxial, Proctor, etc)	Per hr	\$55.00
6.23 Cut & Excavate Test Pit on Pavement, Approx. 18"x18", Inc. Sampling	Per ea	\$200.00
6.24 Standby Time (Drill Rig and Crew)	Per hr	\$195.00
7. Engineering Consultation		
7.1 Principal	Per hr	\$145.00
7.2 Senior Project Manager	Per hr	\$130.00
7.3 Project Manager	Per hr	\$115.00
7.4 Project Engineer	Per hr	\$115.00
7.5 Senior Geologist	Per hr	\$106.00
7.6 Laboratory Manager	Per hr	\$106.00
7.7 Graduate Engineer	Per hr	\$85.00
7.8 Senior Engineering Technician	Per hr	\$75.00
7.9 Secretary/Clerical	Per hr	\$48.00
8. Outside Services (Reimbursables)		At Cost
9. Subconsultants		At Cost

- Ø Minimum call-out charge for technician and equipment is 2 hours. Charges are accrued portal to portal.
- Ø The densities test unit rate is based on a minimum of 3 tests per trip.
- Ø Transportation charges are applicable for all field testing assignments including sample pick up.
but, if the technician is already at the job site, there is no sample pick up charges.
- Ø Subconsultants' fees shall be approved previous to work beginning.

EXHIBIT C
FEE SCHEDULE - Supplemental #5 Design Services for PS&E - TIME & MATERIAL
PROJECT NAME: Weiss Lane
PRIME PROVIDER NAME: LJA Engineering, Inc.

Date: 2/16/2017

WEISS LANE PROJECT													
TASK DESCRIPTION		Senior Project Manager	Senior Engineer/ Planner	Project Engineer	E.I.T.	Senior Engineering Tech	CADD Operator	Sr. Const. Manger	Const. Inspector	Const. Admin	Total	Number of Sheets	Hours/Sheet
PROVIDE ON-SITE BRIDGE INSPECTION													
	Bridge Construction (313 working days / 21 months)											N/A	N/A
	Contract Admin. (based on 16 hrs/mo.)									336.0	336.0	N/A	N/A
	Project Representative (313 working days @ 2 hrs. / day) + 2 hrs. Pre Con.								628.0		628.0	N/A	N/A
	Construction Management (8 hours/month)							168.0			168.0	N/A	N/A
HOURS SUB-TOTALS		0.0	0.0	0.0	0.0	0.0	0.0	168.0	628.0	336.0	1132.0		
LABOR RATE PER HOUR		\$215	\$175	\$145	\$130	\$110	\$80	\$215	\$145	\$100			
SUBTOTAL		\$0	\$0	\$0	\$0	\$0	\$0	\$36,120	\$91,060	\$33,600	\$160,780		

TASK DESCRIPTION	Senior Project Manager	Senior Engineer/ Planner	Project Engineer	E.I.T.	Senior Engineering Tech	CADD Operator	GIS Analyst/ Cartography	GIS Technician	Admin	Total Cost Task
PROVIDE ON-SITE BRIDGE INSPECTION	0.0	0.0	0.0	0.0	0.0	0.0	168.0	628.0	336.0	\$160,780
SUBTOTAL LABOR EXPENSES	0	0	0	0	0	0	168	628	336	\$160,780
DIRECT EXPENSES	Rate	Quantity	Cost							
Meals	\$25.00	0	\$0.00							\$0
Mileage	\$0.58	19000	\$10,925.00							\$10,925
Hotel	\$150.00	0	\$0.00							\$0
Courier Services (Deliveries)	\$30.00	0	\$0.00							\$0
CADD Plotting (per SQ/FT)	\$1.50	0	\$0.00							\$0
Photocopies B/W (8.5 X 11)	\$0.10	1000	\$100.00							\$100
Photocopies B/W (11 X 17)	\$0.15	500	\$75.00							\$75
Photocopies Color (8.5 X 11)	\$0.75	0	\$0.00							\$0
Photocopies Color (11 X 17)	\$1.00	0	\$0.00							\$0
Plots (Color on Bond)	\$2.00	0	\$0.00							\$0
Court Reporter	\$500.00	0	\$0.00							\$0
SUBTOTAL DIRECT EXPENSES			\$11,100.00							\$11,100
LJA ENGINEERING, INC. TOTAL										\$11,100.00
SUB CONSULTANTS										
SURVEYING (MCGRAY & MCGRAY) - PROPOSAL #1 Additional Meets and Bounds (LUMP SUM)										\$4,400.00
SURVEYING (MCGRAY & MCGRAY) - PROPOSAL #2 ROW Staking (LUMP SUM)										\$2,500.00
Construction Materials Testing (REL) - (TIME & MATERIAL)										\$270,289.00
TOTAL - SUB CONSULTANTS:										\$277,189.00
SUPPLEMENTAL GRAND TOTAL										\$449,069.00