

CONTRACT AMENDMENT NO. 1
TO
WILLIAMSON COUNTY CONTRACT FOR
ENGINEERING SERVICES

WILLIAMSON COUNTY ROAD BOND PROJECT:
“On-Call” Asphalt Sampling, Testing & Inspection
2019 Road Bond Program Materials Testing & Geotechnical Engineering Services
(“Project”)

THIS CONTRACT AMENDMENT NO. 1 to Williamson County Contract for Engineering Services is by and between Williamson County, Texas, a political subdivision of the State of Texas, (the "County") and Rodriguez Engineering Laboratories, LLC (the "Engineer") and becomes effective as of the date of the last party's execution below.

WHEREAS, the County and the Engineer executed the Williamson County Contract for Engineering Services dated effective April 23, 2020 (the “Contract”);

WHEREAS, pursuant to Article 14 of the Contract, the terms of the Contract may be modified by a written fully executed Contract Amendment;

WHEREAS, the “Compensation Cap” under Article 5 of the Contract limits the maximum amount payable under the Contract to \$300,000.00; and,

WHEREAS, the Rate Schedule in Exhibit D of the Contract are limited to the rates noted in said Exhibit D; and,

WHEREAS, it has become necessary to amend the Contract.

AGREEMENT

NOW, THEREFORE, premises considered, the County and the Engineer agree that the Contract is amended as follows:

- I. The Compensation Cap under Article 5 of the Contract is hereby increased from \$300,000.00 to \$500,000.00.
- II. The hourly Rates in the original Exhibit D of the Contract are hereby amended as shown in the attached revised Exhibit D.

All other terms of the Contract are unchanged and will remain in full force and effect.

IN WITNESS WHEREOF, the County and the Engineer have executed this Contract Amendment, in duplicate, to be effective as of the date of the last party's execution below.

ENGINEER:

By:

Signature

Jose Melendez, P.E.

Printed Name

Laboratory Engineer

Title

January 25, 2022

Date

COUNTY:

By:

Bill Gravell

Bill Gravell (Feb 1, 2022 15:24 CST)

Signature

Bill Gravell

Printed Name

County Judge

Title

Feb 1, 2022

Date

my

1/26/2022

EXHIBIT D**RATE SCHEDULE**

CONSTRUCTION MATERIALS TESTING SERVICES				
Consultant Name: RODRIGUEZ ENGINEERING LABORATORIES LLC			UNIT	RATES
1. Testing of Soils and Base Materials				
1.1 Field Soil Density				
	1.1.1	Trip Charge (round-trip from REL Austin) (Vehicle or Mileage is not Included)	Per hr	\$65.61
	1.1.2	Field Tech Time (on-site only, 2-hour minimum)	Per hr	\$65.61
	1.1.3	Field Nuclear Density Test	Per ea	\$44.83
	1.1.4	Field Density by Sand Cone Method (ASTM D1556)	Per ea	\$60.14
1.2 Bulk Sample Pick-Up				
	1.2.1	Trip Charge (round-trip from REL Austin) (Vehicle or Mileage is not Included)	Per hr	\$65.61
1.3 Laboratory Moisture Density Relationship				
	1.3.1	Trip Charge (round-trip from REL Austin) (Vehicle or Mileage is not Included)	Per hr	\$65.61
	1.3.2	Field Tech Time (on-site only, 2-hour minimum)	Per hr	\$65.61
	1.3.3	Moisture Density Relationship of Soil-Cement (ASTM D 558)	Per ea	\$300.69
	1.3.4	Moisture Density Relationship (ASTM D 698) Standard Proctor Compaction Test	Per ea	\$300.69
	1.3.5	Moisture Density Relationship (ASTM D 1557) (Modified Proctor Compaction Test)	Per ea	\$300.69
	1.3.6	Moisture Density Relationship (TEX-113-E) Compaction Test	Per ea	\$300.69
	1.3.7	Moisture Density Relationship (TEX-114-E, Part I) Compaction Test	Per ea	\$300.69
	1.3.8	Moisture Density Relationship (TEX-114-E, Part II) Compaction Test	Per ea	\$336.78
1.4 Laboratory Testing of Soils				
	1.4.1	Atterberg Limits (Liquid and Plastic Limits) (TEX-104-E, TEX-105-E, TEX-106-E)	Per ea	\$85.29
	1.4.2	Bar Linear Shrinkage of Soils (TEX-107-E)	Per ea	\$72.17
	1.4.3	CBR of Laboratory-Compacted Soils (ASTM D1883)	Per ea	\$541.25
		1.4.3.1 Each Additional Point	Per ea	\$180.42
	1.4.4	Depth Check (Tex-140-E)	Per ea	\$21.87
	1.4.5	Dry Unit Weight Test of Soils	Per ea	\$41.55
	1.4.6	Field Gradation of Lime Soil (1.75, 0.75, No 4 Sieve) (in addition to hourly charge)	Per point	\$24.06
	1.4.7	Hydrometer Analysis (ASTM D422), (mechanical sieve analysis is not included)	Per ea	\$126.84
	1.4.8	Lime Series Curve (ASTM D 4318)	Per point	\$111.53
	1.4.9	Natural Moisture Content	Per ea	\$24.60
	1.4.10	Organic Content of Soils (Tex-148-E)	Per ea	\$202.29
	1.4.11	Percent Passing No. 200 Sieve (TEX-111-E)	Per ea	\$55.77
	1.4.12	PVR (Tex-124-E), testing is not included	Per ea	\$124.65
	1.4.13	Resistivity of Soils (TEX-129-E)	Per ea	\$119.18
	1.4.14	Sample Preparation (TEX-101-E)	Per ea	\$82.01
	1.4.15	Sample Remolding	Per hr	\$65.61
	1.4.16	Sieve Analysis (TEX-110-E)	Per ea	\$85.29
	1.4.17	Shrinkage (Volumetric) (ASTM D427, ASTM D4943)	Per ea	\$88.57
	1.4.18	Soil Cement or Lime Compression Test (TEX-120-E, TEX-121-E)	Per ea	\$89.66
	1.4.19	Soil pH (Tex-128-E)	Per ea	\$71.07
	1.4.20	Soil Specific Gravity (TEX-108-E)	Per ea	\$80.91
	1.4.21	Stabilization Ability of Lime by Soil PH (TEX-121-E Part III) up to 6 points	Per ea	\$303.98
	1.4.22	Sulfate Content (Tex-145-E)	Per ea	\$114.81
	1.4.23	Texture Depth by Sand Patch (Tex-436-A)	Per ea	\$71.07
	1.4.24	Unconfined Compression Test - Cohesive Soils (ASTM D2166)	Per ea	\$63.42
	1.4.25	Unconfined Compression Test - Rock (ASTM D2938)	Per ea	\$88.57
1.5 Texas Triaxial Compression Test on Base Material TEX-117E, Part II, including the following:				
	1.5.1	Molding, Curing, and Testing 9 Specimens	Per ea	\$1,525.34
	1.5.2	Atterberg Limits (Liquid and Plastic Limits) (TEX-104-E, TEX-105-E, TEX-106-E)	Per ea	\$85.29
	1.5.3	Bar Linear Shrinkage of Soils (TEX-107-E)	Per ea	\$72.17
	1.5.4	Percent Passing No. 200 Sieve (TEX-111-E)	Per ea	\$55.77

EXHIBIT D

RATE SCHEDULE

CONSTRUCTION MATERIALS TESTING SERVICES				
Consultant Name: RODRIGUEZ ENGINEERING LABORATORIES LLC			UNIT	RATES
	1.5.5	Sample Preparation (TEX-101-E)	Per ea	\$82.01
	1.5.6	Sieve Analysis (TEX-110-E)	Per ea	\$85.29
	1.5.7	Wet Ball Mill (TEX-116-E)	Per ea	\$264.61
	1.6	Report of Soil Test Results (includes clerical, engineering review/seal, etc.)	Per ea	\$90.76
2. Testing of Concrete and Aggregates				
2.1 Concrete Cylinder				
	2.1.1	Trip Charge (round-trip from REL Austin) (Vehicle or Mileage is not Included)	Per hr	\$65.61
	2.1.2	Field Tech Time (on-site only, 2-hour minimum)	Per hr	\$65.61
	2.1.3	Cylinder Charge (per each)	Per ea	\$31.71
2.2 Concrete Coring				
	2.2.1	Trip Charge (round-trip from REL Austin) (Vehicle or Mileage is not Included)	Per hr	\$65.61
	2.2.2	Field Tech Time (on-site only, 2-hour minimum)	Per hr	\$65.61
	2.2.3	Concrete Coring Equipment Charge	Per hr	\$45.92
	2.2.4	Core Bit Surcharge (in addition to base equipment charge)		
		2.2.4.1 - 3-inch diameter core	Per inch	\$5.47
		2.2.4.2 - 4-inch diameter core	Per inch	\$7.11
		2.2.4.3 - 6-inch diameter core	Per inch	\$9.35
	2.2.5	Concrete Core Strength Testing, Includes Core Curing and Preparation	Per ea	\$78.73
2.3 Laboratory Testing of Concrete and Aggregates				
	2.3.1	Abrasion Test (TEX-410-A)	Per ea	\$289.76
	2.3.2	Absorption of Aggregate	Per ea	\$43.74
	2.3.3	Aggregate Gradation Analysis (TEX-200-F)	Per ea	\$85.29
	2.3.4	Beam Flexural Strength (TEX 448-A)	Per ea	\$47.02
	2.3.5	Coarse Aggregate Angularity	Per ea	\$89.66
	2.3.6	Crushed Face Count (TEX-460-A)	Per ea	\$90.76
	2.3.7	Decantation (Tex-406-E)	Per ea	\$40.46
	2.3.8	Deleterious Materials (Clay Lumps/Friable Part I) Mineral Aggregate (Tex-413-A)	Per ea	\$79.82
	2.3.9	Fine Aggregate Angularity	Per ea	\$89.66
	2.3.10	Fineness Modulus of Fine Aggregate (Tex-402-A)	Per ea	\$49.20
	2.3.11	Flat, Elongated Particles (ASTM D4791)	Per ea	\$89.66
	2.3.12	Micro Deval Abrasion (TEX-461-A)	Per ea	\$267.89
	2.3.13	Organic Impurities in Fine Aggregate (Tex-408-A)	Per ea	\$61.23
	2.3.14	Pavement Thickness by Direct Measurement (Tex-423-A)	Per ea	\$32.80
	2.3.15	Sand Equivalent (Clay Content) (Tex-203-F)	Per ea	\$103.88
	2.3.16	Sieve Analysis of Fine and Coarse Aggregate (Tex-401-A)	Per ea	\$85.29
	2.3.17	Soundness, Sodium, or Magnesium (ASTM C88, Tex-411-A)	Per ea	\$426.44
	2.3.18	Specific Gravity of Aggregate	Per ea	\$65.61
	2.3.19	Splitting Tensile Strength of Cylindrical Concrete Specimen (ASTM C496)	Per ea	\$47.02
	2.3.20	Thickness of Concrete Cylinders or CTB Cores (ASTM C174)	Per ea	\$21.87
	2.3.21	Unit Weight of Aggregate	Per ea	\$43.74
	2.3.22	Unit weight of Concrete Specimens by Measurements	Per ea	\$16.40
	2.4	Report of Concrete Test Results (includes clerical, engineering review/seal, etc.)	Per ea	\$90.76
3. Testing of HMAc and Liquid Asphalt				
3.1 HMAc Field Testing and Sample Pick-up				
	3.1.1	Trip Charge (round-trip from REL Austin) (Vehicle or Mileage is not Included)	Per hr	\$65.61
	3.1.2	Trip Charge (round-trip from REL Austin) (Vehicle or Mileage is not Included)	Per hr	\$65.61
	3.1.3	Field Tech Time (on-site only, 2-hour minimum)	Per hr	\$65.61
	3.1.4	Longitudinal Joint Density with Density Gauge (Tex-207-F, VII) (Plus Tech time)	Per ea	\$85.29

EXHIBIT D**RATE SCHEDULE**

CONSTRUCTION MATERIALS TESTING SERVICES				
Consultant Name: RODRIGUEZ ENGINEERING LABORATORIES LLC			UNIT	RATES
	3.1.5	Mat Segregation with Density Gauge (Tex-207-F, Part V) (Plus Tech time)	Per ea	\$85.29
	3.1.6	Pavement Thickness Determination (Tex-140-E)(Plus Tech time)	Per ea	\$21.87
	3.1.7	Thermal Profile (Tex-244-F)(Plus Tech time)	Per ea	\$191.35
	3.2 Laboratory Testing of HMA			
	3.2.1	Asphalt Content by Extraction (TEX-210-F, T164)	Per ea	\$183.70
	3.2.2	Asphalt Content by Ignition Method (Tex-236-F)	Per ea	\$196.82
	3.2.3	Boiling Stripping Test (TEX-530-C)	Per ea	\$120.28
	3.2.4	Bulk Density of Compacted Specimens (TEX-207-F, Part I) (2 or 3 per set)	Per ea	\$67.79
	3.2.5	Cantabro Loss (TEX-245-F) (Molding is not included)	Per ea	\$122.46
	3.2.6	Extraction (Gradation & Asphalt Content) (Tex-200-F, Tex-210-F, D2172, T164)	Per ea	\$159.64
	3.2.7	Gradation of Aggregate from Extraction or Ignition (TEX-200-F)	Per ea	\$85.29
	3.2.8	Hamburg Wheel Tracker (TEX-242-F) (Includes Molding)	Per ea	\$618.88
	3.2.9	Hamburg Wheel Tracker (TEX-242-F) (Molded by Client)	Per ea	\$431.91
	3.2.10	Hveem Stability (TEX-208-F) (3 per set)	Per ea	\$67.79
	3.2.11	Indirect Tensile Strength (TEX-226-F) (Molding is not included)	Per ea	\$79.82
	3.2.12	Maximum Theoretical Specific Gravity, Rice Method (Tex 227-F)		
		3.2.12.1 - Bag Sample	Per ea	\$61.23
		3.2.12.2 - Core Sample	Per ea	\$72.17
	3.2.13	Sand Equivalent (Clay Content) (Tex-203-F)	Per ea	\$103.88
	3.2.14	Specific Gravity, Bulk Core	Per ea	\$29.52
	3.2.15	Specific Gravity, Bulk Core (Vacuum Method)	Per ea	\$67.79
	3.2.16	Specimen Molding, Bulk Density, and Stability (3 per set) (Tex-206-F, 207-F, 208-F)	Per ea	\$203.38
	3.2.17	Specimen Molding by SGC (TEX-241-F) (2 per set)	Per ea	\$92.94
	3.2.18	Specimen Molding by TGC (TEX-206-F) (3 per set)	Per ea	\$67.79
	3.2.19	Thickness of HMA cores by Direct Measurement	Per ea	\$14.21
	3.3 HMA Coring			
	3.3.1	Trip Charge (round-trip from REL Austin) (Vehicle or Mileage is not Included)	Per hr	\$65.61
	3.3.2	Field Tech time (on-site only, 2-hour minimum)	Per hr	\$65.61
	3.3.3	Core, per inch thickness		
		3.3.3.1 - 0"-6" depth @ 6"Ø (includes patching and sample prep.)	Per ea	\$107.16
		3.3.3.2 - > 6"-10" depth @ 6"Ø (includes patching and sample prep.)	Per ea	\$118.64
		3.3.3.3 - > 10"-14" depth @ 6"Ø (includes patching and sample prep.)	Per ea	\$153.08
		3.3.3.4 - >14" depth @ 6"Ø (includes patching and sample prep.)	Per ea	\$153.08
		3.3.3.5 - Per inch beyond 14" depth @ 6"Ø (includes patching and sample prep.)	Per inch	\$6.56
	3.4 Laboratory Testing of Liquid Asphalt and Emulsions			
	3.4.1	Asphalt Recovery (Extraction using Solvent is not Included)	Per ea	\$262.42
	3.4.2	Breaking Index (Asphalt Emulsions)	Per ea	\$102.78
	3.4.3	Cement Mix	Per ea	\$77.63
	3.4.4	Demulsibility (Anionic or Cationic Emulsions)	Per ea	\$77.63
	3.4.5	Density of Emulsified Asphalt	Per ea	\$77.63
	3.4.6	Ductility of Bituminous Materials	Per ea	\$110.44
	3.4.7	Elastic Recovery Test	Per ea	\$89.66
	3.4.8	Float Test For Bituminous Materials	Per ea	\$89.66
	3.4.9	Kinematic Viscosity of Cut-Back Asphalt	Per ea	\$110.44
	3.4.10	Penetration of Bituminous Materials	Per ea	\$68.89
	3.4.11	Residue by Distillation (Cutback or Emulsified Asphalts)	Per ea	\$161.83
	3.4.12	Residue by Evaporation	Per ea	\$161.83
	3.4.13	Saybolt Viscosity of Emulsified Asphalt at 25°C (77°F)	Per ea	\$68.89
	3.4.14	Saybolt Viscosity of Emulsified Asphalt at 50°C (122°F)	Per ea	\$68.89
	3.4.15	Sieve Test of Emulsified Asphalt	Per ea	\$48.11
	3.4.16	Softening Point of Bitumen (Ring-and-Ball)	Per ea	\$110.44

EXHIBIT D**RATE SCHEDULE**

CONSTRUCTION MATERIALS TESTING SERVICES				
Consultant Name: RODRIGUEZ ENGINEERING LABORATORIES LLC			UNIT	RATES
	3.4.17	Storage Stability (24 Hrs)	Per ea	\$120.28
	3.4.18	Specific Gravity of Emulsified Asphalt	Per ea	\$74.35
	3.5	Report of Asphalt Test Results (includes clerical, engineering review/seal, etc.)	Per ea	\$90.76
4. Field Testing Equipment				
	4.1	Vehicle		
	4.1.1	Within City of Austin ETJ, within 50 miles (one-way) from REL	Per trip	\$62.33
	4.2	Falling Heavy Weight Deflectometer (FWD) Testing New		
	4.2.1	FWD Field Data Collection (Equipment and Operator)(8 hr/day maximum)	Per day	\$2,700.00
	4.2.2	FWD Equipment (Mobilization/Demobilization)	Per ea	\$225.00
	4.2.3	FWD Operator (Mobilization/Demobilization)	Per hr	\$94.04
	4.3	High Speed Inertial Profiler (IRI) Testing New		
	4.3.1	IRI Field Data Collection (Equipment Only)(8 hr/day maximum)	Per day	\$400.00
	4.3.2	IRI Equipment (Mobilization/Demobilization) (within 50 miles from REL)	Per trip	\$62.33
	4.3.3	IRI Operator (Portal-to-Portal from REL)(4 hr minimum)	Per hr	\$82.01
5. Engineering Consultation				
	5.1	Principal	Per hr	\$252.58
	5.2	Project Manager/Professional Engineer	Per hr	\$161.83
	5.3	Project Engineer	Per hr	\$125.75
	5.4	Graduate Engineer	Per hr	\$94.04
	5.5	Senior Engineering Technician	Per hr	\$82.01
	5.6	Engineering Technician (Asphalt, Concrete, Soils, etc.)	Per hr	\$65.61
	5.7	Clerical	Per hr	\$52.48

NOTES:

1. Minimum call-out charge for technician and equipment is 2 hours. Charges are accrued portal to portal.
2. The density test unit rate is based on a minimum of 3 tests per trip.
3. 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.
4. Subconsultants' fees shall be approved previous to work beginning.
5. Trip charge refers to the labor for the Engineering Technician to drive to site. This is charged hourly. Vehicle charges refer to cost of vehicle associated with the trip.

PROPOSED 2022 RATE SCHEDULE (CPI Adjustment)

CONSTRUCTION MATERIALS TESTING SERVICES				
CONSULTANT NAME: RODRIGUEZ ENGINEERING LABORATORIES LLC				
ITEM No.		UNIT	RATE SCHEDULE in PSA EXHIBIT D APRIL 2020	PROPOSED RATES 2022
				CIP ADJUSTMENT CALCULATION
				Base (1982-84) = 100
				April 2020 PSA Signed: 246.254
				December 2021: 269.263
				DELTA: 109.3436%
1. Testing of Soils and Base Materials				
1.1	Field Soil Density			
	1.1.1	Per hr	\$60.00	\$65.61
	1.1.2	Per hr	\$60.00	\$65.61
	1.1.3	Per ea	\$41.00	\$44.83
	1.1.4	Per ea	\$55.00	\$60.14
1.2	Bulk Sample Pick-Up			
	1.2.1	Per hr	\$60.00	\$65.61
1.3	Laboratory Moisture Density Relationship			
	1.3.1	Per hr	\$60.00	\$65.61
	1.3.2	Per hr	\$60.00	\$65.61
	1.3.3	Per ea	\$275.00	\$300.69
	1.3.4	Per ea	\$275.00	\$300.69
	1.3.5	Per ea	\$275.00	\$300.69
	1.3.6	Per ea	\$275.00	\$300.69
	1.3.7	Per ea	\$275.00	\$300.69
	1.3.8	Per ea	\$308.00	\$336.78
1.4	Laboratory Testing of Soils			
	1.4.1	Per ea	\$78.00	\$85.29
	1.4.2	Per ea	\$66.00	\$72.17
	1.4.3	Per ea	\$495.00	\$541.25
	1.4.3.1	Per ea	\$165.00	\$180.42
	1.4.4	Per ea	\$20.00	\$21.87
	1.4.5	Per ea	\$38.00	\$41.55
	1.4.6	Per point	\$22.00	\$24.06
	1.4.7	Per ea	\$116.00	\$126.84
	1.4.8	Per point	\$102.00	\$111.53
	1.4.9	Per ea	\$22.50	\$24.60
	1.4.10	Per ea	\$185.00	\$202.29
	1.4.11	Per ea	\$51.00	\$55.77
	1.4.12	Per ea	\$114.00	\$124.65

PROPOSED 2022 RATE SCHEDULE (CPI Adjustment)

CONSTRUCTION MATERIALS TESTING SERVICES				
CONSULTANT NAME: RODRIGUEZ ENGINEERING LABORATORIES LLC				
ITEM No.		UNIT	RATE SCHEDULE in PSA EXHIBIT D APRIL 2020	PROPOSED RATES 2022
	1.4.13	Per ea	\$109.00	\$119.18
	1.4.14	Per ea	\$75.00	\$82.01
	1.4.15	Per hr	\$60.00	\$65.61
	1.4.16	Per ea	\$78.00	\$85.29
	1.4.17	Per ea	\$81.00	\$88.57
	1.4.18	Per ea	\$82.00	\$89.66
	1.4.19	Per ea	\$65.00	\$71.07
	1.4.20	Per ea	\$74.00	\$80.91
	1.4.21	Per ea	\$278.00	\$303.98
	1.4.22	Per ea	\$105.00	\$114.81
	1.4.23	Per ea	\$65.00	\$71.07
	1.4.24	Per ea	\$58.00	\$63.42
	1.4.25	Per ea	\$81.00	\$88.57
1.5 Texas Triaxial Compression Test on Base Mat				
	1.5.1	Per ea	\$1,395.00	\$1,525.34
	1.5.2	Per ea	\$78.00	\$85.29
	1.5.3	Per ea	\$66.00	\$72.17
	1.5.4	Per ea	\$51.00	\$55.77
	1.5.5	Per ea	\$75.00	\$82.01
	1.5.6	Per ea	\$78.00	\$85.29
	1.5.7	Per ea	\$242.00	\$264.61
	1.6 Report of Soil Test Results (inc	Per ea	\$83.00	\$90.76
2. Testing of Concrete and Aggregates				
2.1 Concrete Cylinder				
	2.1.1	Per hr	\$60.00	\$65.61
	2.1.2	Per hr	\$60.00	\$65.61
	2.1.3	Per ea	\$29.00	\$31.71
2.2 Concrete Coring				
	2.2.1	Per hr	\$60.00	\$65.61
	2.2.2	Per hr	\$60.00	\$65.61
	2.2.3	Per hr	\$42.00	\$45.92
	2.2.4 Core Bit Surcharge (in addition to base equipment charge)			
	2.2.4.1	Per inch	\$5.00	\$5.47
	2.2.4.2	Per inch	\$6.50	\$7.11
	2.2.4.3	Per inch	\$8.55	\$9.35

PROPOSED 2022 RATE SCHEDULE (CPI Adjustment)

CONSTRUCTION MATERIALS TESTING SERVICES				
CONSULTANT NAME: RODRIGUEZ ENGINEERING LABORATORIES LLC				
ITEM No.		UNIT	RATE SCHEDULE in PSA EXHIBIT D APRIL 2020	PROPOSED RATES 2022
	2.2.5	Per ea	\$72.00	\$78.73
2.3	Laboratory Testing of Concrete and Aggregate			
	2.3.1	Per ea	\$265.00	\$289.76
	2.3.2	Per ea	\$40.00	\$43.74
	2.3.3	Per ea	\$78.00	\$85.29
	2.3.4	Per ea	\$43.00	\$47.02
	2.3.5	Per ea	\$82.00	\$89.66
	2.3.6	Per ea	\$83.00	\$90.76
	2.3.7	Per ea	\$37.00	\$40.46
	2.3.8	Per ea	\$73.00	\$79.82
	2.3.9	Per ea	\$82.00	\$89.66
	2.3.10	Per ea	\$45.00	\$49.20
	2.3.11	Per ea	\$82.00	\$89.66
	2.3.12	Per ea	\$245.00	\$267.89
	2.3.13	Per ea	\$56.00	\$61.23
	2.3.14	Per ea	\$30.00	\$32.80
	2.3.15	Per ea	\$95.00	\$103.88
	2.3.16	Per ea	\$78.00	\$85.29
	2.3.17	Per ea	\$390.00	\$426.44
	2.3.18	Per ea	\$60.00	\$65.61
	2.3.19	Per ea	\$43.00	\$47.02
	2.3.20	Per ea	\$20.00	\$21.87
	2.3.21	Per ea	\$40.00	\$43.74
	2.3.22	Per ea	\$15.00	\$16.40
2.4	Report of Concrete Test Result	Per ea	\$83.00	\$90.76
3. Testing of HMA and Liquid Asphalt				
3.1	HMA Field Testing and Sample Pick-up			
	3.1.1	Per hr	\$60.00	\$65.61
	3.1.2	Per hr	\$60.00	\$65.61
	3.1.3	Per hr	\$60.00	\$65.61
	3.1.4	Per ea	\$78.00	\$85.29
	3.1.5	Per ea	\$78.00	\$85.29
	3.1.6	Per ea	\$20.00	\$21.87
	3.1.7	Per ea	\$175.00	\$191.35
3.2	Laboratory Testing of HMA			

PROPOSED 2022 RATE SCHEDULE (CPI Adjustment)

CONSTRUCTION MATERIALS TESTING SERVICES				
CONSULTANT NAME: RODRIGUEZ ENGINEERING LABORATORIES LLC				
ITEM No.		UNIT	RATE SCHEDULE in PSA EXHIBIT D APRIL 2020	PROPOSED RATES 2022
	3.2.1	Per ea	\$168.00	\$183.70
	3.2.2	Per ea	\$180.00	\$196.82
	3.2.3	Per ea	\$110.00	\$120.28
	3.2.4	Per ea	\$62.00	\$67.79
	3.2.5	Per ea	\$112.00	\$122.46
	3.2.6	Per ea	\$146.00	\$159.64
	3.2.7	Per ea	\$78.00	\$85.29
	3.2.8	Per ea	\$566.00	\$618.88
	3.2.9	Per ea	\$395.00	\$431.91
	3.2.10	Per ea	\$62.00	\$67.79
	3.2.11	Per ea	\$73.00	\$79.82
	3.2.12 Maximum Theoretical Specific Gravity, Rice Method (Tex 227-F)			
	3.2.12.1	Per ea	\$56.00	\$61.23
	3.2.12.2	Per ea	\$66.00	\$72.17
	3.2.13	Per ea	\$95.00	\$103.88
	3.2.14	Per ea	\$27.00	\$29.52
	3.2.15	Per ea	\$62.00	\$67.79
	3.2.16	Per ea	\$186.00	\$203.38
	3.2.17	Per ea	\$85.00	\$92.94
	3.2.18	Per ea	\$62.00	\$67.79
	3.2.19	Per ea	\$13.00	\$14.21
	3.3 HMAC Coring			
	3.3.1	Per hr	\$60.00	\$65.61
	3.3.2	Per hr	\$60.00	\$65.61
	3.3.3 Core, per inch thickness			
	3.3.3.1	Per ea	\$98.00	\$107.16
	3.3.3.2	Per ea	\$108.50	\$118.64
	3.3.3.3	Per ea	\$140.00	\$153.08
	3.3.3.4	Per ea	\$140.00	\$153.08
	3.3.3.5	Per inch	\$6.00	\$6.56
	3.4 Laboratory Testing of Liquid Asphalt and Emu			
	3.4.1	Per ea	\$240.00	\$262.42
	3.4.2	Per ea	\$94.00	\$102.78
	3.4.3	Per ea	\$71.00	\$77.63
	3.4.4	Per ea	\$71.00	\$77.63
	3.4.5	Per ea	\$71.00	\$77.63
	3.4.6	Per ea	\$101.00	\$110.44

PROPOSED 2022 RATE SCHEDULE (CPI Adjustment)

CONSTRUCTION MATERIALS TESTING SERVICES				
CONSULTANT NAME: RODRIGUEZ ENGINEERING LABORATORIES LLC				
ITEM No.		UNIT	RATE SCHEDULE in PSA EXHIBIT D APRIL 2020	PROPOSED RATES 2022
	3.4.7	Per ea	\$82.00	\$89.66
	3.4.8	Per ea	\$82.00	\$89.66
	3.4.9	Per ea	\$101.00	\$110.44
	3.4.10	Per ea	\$63.00	\$68.89
	3.4.11	Per ea	\$148.00	\$161.83
	3.4.12	Per ea	\$148.00	\$161.83
	3.4.13	Per ea	\$63.00	\$68.89
	3.4.14	Per ea	\$63.00	\$68.89
	3.4.15	Per ea	\$44.00	\$48.11
	3.4.16	Per ea	\$101.00	\$110.44
	3.4.17	Per ea	\$110.00	\$120.28
	3.4.18	Per ea	\$68.00	\$74.35
3.5	Report of Asphalt Test Results	Per ea	\$83.00	\$90.76
4. Vehicle				
4.1	Vehicle			
	4.1.1	Per trip	\$57.00	\$62.33
	4.2 Falling Heavy Weight Deflectometer (FWD) Testing			
	4.2.1 FWD Field Data Collection	Per day	N/A	\$2,700.00
	4.2.2 FWD Equipment (Mobilization)	Per ea	N/A	\$225.00
	4.2.3 FWD Operator (Mobilization)	Per hr	N/A	\$94.04
New				
	4.3 High Speed Inertial Profiler (IRI) Testing			
	4.3.1 IRI Field Data Collection	Per day	N/A	\$400.00
	4.3.2 IRI Equipment (Mobilization)	Per trip	N/A	\$62.33
	4.3.3 IRI Operator (Portal-to-Portal)	Per hr	N/A	\$82.01
5. Engineering Consultation				
5.1		Per hr	\$231.00	\$252.58
5.2		Per hr	\$148.00	\$161.83
5.3		Per hr	\$115.00	\$125.75
5.4		Per hr	\$86.00	\$94.04
5.5		Per hr	\$75.00	\$82.01
5.6		Per hr	\$60.00	\$65.61
5.7		Per hr	\$48.00	\$52.48