# OFFICE OF THE CITY ATTORNEY CHARLES PARKIN, City Attorney 411 West Ocean Boulevard, 9th Floor Long Beach, CA 90802-4664

### SECOND AMENDMENT TO AGREEMENT NO. 35616

## 

THIS SECOND AMENDMENT TO AGREEMENT NO. 35616 is made and entered, as of August 3, 2022, for reference purposes only, pursuant to minute orders adopted by the City Council of the City of Long Beach at its meetings on July 7, 2020 and July 12, 2022, by and between TWINING, INC., a California corporation ("Consultant"), with a place of business at 2883 East Spring Street, Ste. 300, Long Beach, California 90806, and the CITY OF LONG BEACH, a municipal corporation ("City").

WHEREAS, City and Consultant (the "Parties") entered into Agreement No. 35616 (the "Agreement") whereby Consultant agreed to provide as-needed construction materials testing and inspection services for various development projects at the Long Beach Airport; and

WHEREAS, the Parties entered into a First Amendment to the Agreement to attach an updated fee schedule; and

WHEREAS, the Parties desire to extend the term one (1) additional one-year period and add \$248,840 for a total not to exceed amount of \$1,548,840;

NOW, THEREFORE, in consideration of the mutual terms, covenants, and conditions herein contained, the Parties agree as follows:

- 1. Section 1.A. of the Agreement is hereby amended to read as follows:
- "A. Consultant shall furnish specialized services described in Request for Qualifications Number AP19-133, attached to the Agreement as Exhibit "A-1" and incorporated by this reference; and more particularly described in the Consultant's Proposal, attached to the Agreement as Exhibit "A-2" and incorporated by this reference, in accordance with the standards of the profession, and City shall pay for these services in the manner described below, in an amount not to exceed One Million Five Hundred Forty-Eight Thousand Eight Hundred Forty Dollars (\$1,548,840), at the rates or charges shown in Exhibit "B"."
  - 2. Section 2 of the Agreement is hereby amended to read as follows:

"2. TERM. The term of this Agreement shall commence at midnight on August 10, 2020, and shall terminate at 11:59 p.m. on August 9, 2023, unless sooner terminated as provided in this Agreement, or unless the services or the Project is completed sooner. The term may be extended for two (2) additional one-year periods, at

Except as expressly modified herein, all of the terms and conditions contained in Agreement No. 35616 are ratified and confirmed and shall remain in full force

IN WITNESS WHEREOF, the Parties have caused this document to be duly executed with all formalities required by law as of the date first stated above.

		I WINING, ING a California corporation
August 4	, 2022	By State Sta
		Name Linas Vitkus
		Title President and COO
August 4	, 2022	By Art
R.C. A.L. C.	,	Name Robert M. Ryan
		Title Chief Executive Officer
		"Consultant"
		CITY OF LONG BEACH, a municipal corporation
August 25	, 2022	By Sunda F. Jalum  City Manager
		City Manager
		"City" EXECUTED PURSUANT TO SECTION 301 OF
This Second Am	endment to A	Agreement No 35616 iSapproved as to form on
August 23, 202		
V		
		CHARLES PARKIN, City Attorney
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		By
		Deputy

## EXHIBIT "B"

### Rate Schedule for the City of Long Beach As-Needed Projects at Long Beach Airport

Effective Dates	Rates Are Effective through 2023	
•		

Consultant:

Overhead rate 125.35%

Franksia Classification	Dire	ct Labor Rate	Overhead Rate	Profit	Total Loaded Rate	от	DT
Employee Classification	Dire						Landing Comment (Comment
Principal Engineer	\$	90.32	34.77%	10.00%	\$133.90	4	NA
Project Manager	\$	47.27	125.35%	43.27%	\$152.62	NA	NA
Technical Advisor	\$	69.71	125.35%	10.27%	\$173.23	NA	NA
Lead Inspector Group 1*	\$	52.56	119.32%	10.00%	\$126.80	\$153.08	\$179.36
Inspector Group 1*	\$	50.50	119.32%	10.00%	\$121.83	\$147.08	\$172.33
Lead Inspector Group 2*	\$	54.39	119.32%	10.00%	\$131.22	\$158.41	\$185.61
Inspector Group 2*	\$	52,33	119.32%	10.00%	\$126.25	\$152.41	\$178.58
Lead Inspector Group 3*	\$	56.45	119.32%	10.00%	\$136.19	\$164.41	\$192.64
Inspector Group 3*	\$	54.39	119.32%	10.00%	\$131.22	\$158.41	\$185.61
Project Administrator	\$	32.48	109.92%	10.00%	\$75.00	NA	NA
QA Inspector (Group 1 Rate)*	\$	50.50	119.32%	10.00%	\$121.83	\$147.08	\$172,33
Lab Technician	\$	29.00	119.32%	10.00%	\$69.96	\$84.46	\$98.96

<sup>\*</sup>Indicates rates which are subject to Prevailing Wage.



## Schedule of Fees 2022 - 2023

Personnel Rates: Per Hour Unless Otherwise Noted

Task			
Code	Engineering and Consulting Personnel		Rate
10001	Principal Engineer/Geologist	\$	133,90
70000	Registered Geotechnical Engineer	\$	133,90
10010	Technical Advisor	\$	173,23
10013	Project Engineer/Manager	\$	152,62
10007	Staff Engineer/Geologist	\$	133,90
98000	Lab Technician	\$	69,96
10015	Project Administrator	\$	75.00
Task			
Code	Field Inspection Personnel		D-4-
10101	Concrete/Reinforced Steel Inspector	\$	126,25
10103	Prestressed/Post Tensioned Inspector	φ \$	126.25
10105	Concrete ICC Inspector	\$	126.25
10109	Drilled-In-Anchor Inspector	φ \$	126.25
10103	Gunite/Shotcrete Inspector	φ \$	126.25
10113	Masonry Inspector	Ф \$	126.25
10201	Structural Steel/Welding Inspector	\$	126.25
10201	AWS Certified Welding Inspector	\$	126.25
10207	Fireproofing Inspector	\$	126.25
10501	Lead Inspector	\$	126.25
10115	Firestop Special Inspector - IFC Premier	\$	142.00
10117	Firestop Special Inspector - IQP	\$	187.00
70109	L.A. Deputy Grading Inspector	\$	130.00
75001	Asphalt Field and Plant Inspector/Technician	φ \$	121,83
70103	Pile Driving Inspector	\$	121,83
70103	Soils Technician	\$	121.83
10107	Concrete Quality Control (ACI/Caltrans Technician)	\$	121.83
10101	Solidicto addity Solidor (ASISSALEIIS TECHNICIAII)	Φ	121.00
Task	Shop Inspection Personnel		
Code	anop mapection i eraonnei		Rate
10301	Structural Steel Fabrication Inspector	\$	131.22
10309	Batch Plant Quality Control Technician/Inspector	\$	126.25
10325	Glue-Laminated Fabrication Inspector	Q	uotation
10328	Pre-Cast Concrete/Pipe Fabrication Inspector	\$	126.25
Task			
Code	Nondestructive Testing Personnel		Rate
10401	NDE Ultrasonic Testing Technician	\$	130.00
10403	NDE Magnetic Particle Testing Technician	\$	130.00
10405	NDE Dye Penetrant Testing Technician	\$	130.00
10305	Combination NDE Technician/Welding Inspector	\$	130,00
10409	Radiographic Testing (crew of 2)	\$	350,00
10020	NDE Engineer	\$	200.00

Task	Concrete Tests (Field Made Specimens)	
Code		Rate
20201	6" x 12" Cylinder: Compression Strength	\$ 40.00
	(ASTM C39)	
20202	4" x 8" Cylinder: Compression Strength	\$ 35,00
	(ASTM C39)	
20203	Density of Structural Lightweight Concrete	\$ 85.00
	Equilibrium or Oven Dry Method (ASTM C567)	
20205	Core Compression including Trimming (ASTM C42)	\$ 75,00
20207	6" x 6" x 18" Flexural Beams Not Exceeding	\$ 100.00
	Referenced Size (ASTM C78, C293 or CTM 523)	
20209	Splitting Tensile Strength (ASTM C496)	\$ 95.00
20211	Modulus of Elasticity Test (ASTM C469)	\$ 275.00
80003	Rapid Chloride Permeability Test: Cylinders or	\$ 520.00
	Cores (ASTM C1202)	
80006	Density, Absorption, and Voids in Hardened	\$ 520.00
	Concrete (ASTM C642)	



Task	Concrete Tests (Field Made Specimens),			Task			
Code	Continued		Rate	Code	Physical and Chemical Analysis of Cement, Continued		Rate
40005	Flexural Toughness (ASTM C1609, Formerly ASTM C1018)	\$	800.00	80194	Physical Testing of Type K Cement, Mortar Expansion (ASTM C806)	\$	675.00
40007	Flexural Toughness (ASTM C1550)	\$	500,00	80106	Partial Analysis or Specific Physical Tests	(	Quotation
40006	Double Punch Strength of Fiber Reinforced Concrete	\$	500.00	80110	Sulfates Resistance of Hydraulic	\$	2,700.00
40009	Coefficient of Thermal Expansion of Concrete	\$	600.00		Cement (ASTM C1012), 6 months		
	(CRD 39, AASHTO T336)			80111	Sulfates Resistance of Hydraulic	\$	3,000.00
40012	Bulk Electrical Resistivity (ASTM C1876)	\$	120.00		Cement (ASTM C1012), 12 months		
Task				Task			
Code	Concrete Specimen Preparation		Rate	Code	Physical and Chemical Analysis of Fly Ash		Rate
20151	Sawing of Specimens (Each)	\$	40.00	80140	Chemical Analysis of Fly Ash per	\$	675.00
20157	Coring of Specimens in Lab (Each)	\$	40.00		Standard Requirements (ASTM C618)	_	anr 00
20159	Grinding of Concrete Below 6000 psi Strength (Each)	\$	60.00	80143	Physical Testing of Fly Ash per Standard Requirements	\$	675.00
20160	Grinding of Concrete 6000 psi Strength and Above (Each)	\$	90,00	80146	(ASTM C618) Partial Analysis or Specific Physical Tests	(	Quotation
Task	Laboratory Trial Batch: Concrete, Cement			80147	Chemical Analysis and Physical Testing of Fly Ash per	\$	1,300.00
Code	and Mortar		Rate		Standard Requirements (ASTM C1618)		
30216	Compression Test 4"x8" Cylinders Made and Tested in	\$	50.00		, , ,		
002.10	Laboratory (ASTM C192, C35)	•		Task	Physical Testing of Chemical Admixtures for		
30217	Compression Test 6"x12" Cylinders Made and Tested in	\$	60.00	Code	Concrete		Rate
50Z 17	Laboratory (ASTM C192, C35)	,		80196	Qualification of Admixture per ASTM C494	(	Quotation
30219	6" x 6" x 18" Flexural Beams Made and Tested in	\$	100.00		•		
002.10	Laboratory (ASTM C192, C78)	•		Task			
30223	Splitting Tensile Strength Cylinders Made and Tested	\$	115.00	Code	Soils and Aggregate Tests		Rate
30223	in Laboratory (ASTM C192, C496)	•		30503	Abrasion: LA Rattler (ASTM C131)	\$	200.00
30225	Modulus of Elasticity Test Cylinders Made and Tested in	\$	285.00	30505	Abrasion: LA Rattler (ASTM C535)	\$	210.00
30223	Laboratory (ASTM C192, C469)	Ψ	2.00.00	70301	Atterberg Limits/Plasticity Index (ASTM D4318, CTM 204)	\$	160.00
20227	Density of Structural Lightweight Concrete Made in the	\$	105.00	70303	California Bearing Ratio Excluding Maximum Density	\$	550.00
30227	Laboratory, Equilibrium or Oven Dry Method (ASTM C567)	Ψ	100.00	70000	(ASTM D1883): Soil	•	
20227		\$	140.00	70304	California Bearing Ratio Excluding Maximum Density	\$	650.00
30237	Bulk Electrical Resistivity (ASTM C1876) Laboratory Trial Batch (ASTM C192)	\$	525.00	, 555 1	(ASTM D1883): Cement-Treated Soil		
30201	Laboratory Trial Batch: Packaged Dry Concrete	\$	950.00	70344	Cement-Treated Soil/Base Mix Design: includes three trial	\$	3,500.00
30203	Including Verification of Slump, Air Content, Plastic Unit	Ψ	550,00	10044	cement contents with three unconfined compressive strength	,	
	Weight, Six Cylinders for Compressive Strength (ASTM				specimens per cement content		
	C387 and C192)			70305	Chloride and Sulfate Content (CTM 417, CTM 422)	\$	175.00
00005	•	\$	500,00	30403	Clay Lumps and Friable Particles (ASTM C142)	\$	200,00
30205	Drying Shrinkage Up to 28 Days: Three 3" x 3" or	Ψ	500,00	30321	Cleanness Value: 1" x #4 (CTM 227)	\$	175.00
	4" x 4" Bars, Five Readings up to 28 Dry Days			30321	Cleanness Value: 1.5" x .75" (CTM 227)	\$	275.00
00000	(ASTM C157)	\$	45.00	70393	Collapse Potential/Index (ASTM D5333)	\$	225,00
30230	Additional Reading, Per Set of Three Bars	\$	30.00	70396	Compressive Strength of Molded Soil-Cement	\$	105.00
30231	Storage over Ninety (90) Days, Per Set of	φ	30.00	10000	Cylinders (ASTM D1633)	•	
00007	Three Bars, Per Month	\$	180.00	70309	Consolidation Test: Full Cycle (ASTM 2435, CTM 219)	\$	195.00
30207	Setting Time Up to 7 Hours (ASTM C403)	φ \$	150.00	70303	Consolidation Test: Time Rate per Load Increment	\$	45.00
30209	Bleeding (ASTM C232)		600.00	70311	(ASTM D2435, CTM 219)	*	10.00
30229	Concrete Restrained Expansion (ASTM C878)	\$ \$	550.00	70313	Corrosivity Series: Sulfate, CI, pH, Resistivity	\$	245,00
30211	Mix, Make and Test Mortar or Grout Specimens for	Ψ	550.00	70010	(CTM 643, 417, and 422)	•	
20200	Compressive Strength: Set of 6 (ASTM C878)	\$	550.00	70315	Crushed/Fractured Particles (ASTM D5821, CTM 205)	\$	175.00
20263	Non-Shrink Grout: Height Change after Final	Ψ	550.00	70317	Direct Shear Test: Remolded and/or Residual	\$	245.00
20265	Set (ASTM C1090)  Non-Shrink Grout; Height Change at Early	\$	800.00	10011	(ASTM D3080)		
20200	Age (ASTM C827)	*	000.00	70319	Direct Shear Test: Undisturbed - Slow [CD] (ASTM D3080)	\$	225.00
30232	Cracking Resistance, Set of Three Rings,	\$	5,500.00	70321	Direct Shear Test: Undisturbed - Fast [CU] (ASTM D3080)	\$	195.00
30232	Laboratory Trial Batching, Test Until Cracking or	*	0,000.00	70378	Durability Index: Per Method - A,B,C, or D	\$	210,00
	up to 28 Days (ASTM 1581)			, , , ,	(ASTM D3744, CTM 229)		
20222	Evaluation of Pre-Packaged Masonry Mortars	\$	1,150.00	70325	Expansion Index (ASTM D4829, UBC 18-2)	\$	170.00
30233		Ψ	1,100.00	75004	Fine Aggregate Angularity	\$	190.00
30234	(ASTM C270) Creep (ASTM C512) (One Age of Loading, 12 Months	\$	8,000,00	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	(ASTM C1252, CTM 234, AASHTO T304)	·	
30234	Duration of Testing)	Ψ	0,000.00	30507	Flat and Elongated Particle (ASTM D4791)	\$	240.00
	Duration of resulty)			30508	Flat or Elongated Particle (ASTM D4791)	\$	210.00
T (.	Ob Amplysia and Detroprophia			70331	Maximum Density: Methods A/B/C	\$	190,00
Task	Chemical Analysis and Petrographic		Rate	, 555	(ASTM D1557, D698, CTM 216)		
Code	Examination of Concrete Chemical Analysis for Acid Soluble Chlorides	\$	145.00	70333	Maximum Density: Check Point (ASTM D1557, D698)	\$	65,00
80123		φ	143.00	70335	Maximum Density: AASHTO C [Modified]	\$	195.00
00400	(ASTM C1152) (includes sample prep)	\$	170.00	70000	(AASHTO T-180)	•	
80126	Chemical Analysis for Water Soluble Chlorides	Ψ	170.00	70336	Maximum Index Density: Vibratory Table (ASTM D4253)	\$	345.00
00400	(ASTM C1218) (includes sample prep) Chloride Diffusion Coefficient of Cementitious	¢	2,600.00	70337	Moisture Content (ASTM D2216, CTM 226)	\$	25.00
80193		Ψ	2,000.00	70339	Moisture and Density: Ring Sample (ASTM D2937)	\$	30.00
20400	Mixtures by Bulk Diffusion (ASTM C1556)			70341	Moisture and Density: Shelby Tube Sample	\$	40.00
80129	Petrographic Examination of Hardened Concrete, Level II			10041	(ASTM D2937)	•	
	(ASTM 856) (Comprehensive)	•	2,400.00	70340	Moisture-Density Relations of Soil-Cement	\$	275,00
	Each, One Sample			70540	Mixtures Premixed in the Field (ASTM D558)	•	
	Each, Two or More Samples	φ	2,100.00	70242	Moisture-Density Relations of Soil-Cement Mixtures	\$	350,00
				70342	· ·	Ψ	230,00
Task	mi		De4-	30401	Mixed in the Lab (ASTM D558) Organic Impurities (ASTM C40, CTM 213)	\$	90.00
Code	Physical and Chemical Analysis of Cement		Rate		Permeability (ASTM D5084)	,	Quotation
80195	Physical Testing and Chemical Analysis of Portland	\$	1,300.00	70343	Potential Reactivity: Chemical Method (ASTM C289 -	\$	625.00
	Cement per Standard Requirements (ASTM C150)	_	67F 00	80001		Ψ	52.0.00
80100	Chemical Analysis of Portland Cement per	\$	675.00	70004	Discontinued Method) Potential Reactivity: Mortar Bar Expansion Method,	\$	850.00
00100	Standard Requirements (ASTM C150)	•	675.00	70394	14-Day Exposure (ASTM C1260)	Ψ	550,00
80103	Physical Testing of Portland Cement per	\$	675,00		TTDEY EXPOSULE (NOTHIN O 1200)		
	Standard Requirements (ASTM C150)						



Task				Task			
Code	Soils and Aggregate Tests, Continued		Rate	Code	Asphalt Concrete Tests, Continued		Rate
70391	Potential Reactivity: Mortar Bar Expansion Method,	\$	900.00	75107	Marshall Stability and Flow 6" Specimen, Premixed,	\$	230,00
	28-Day Exposure (ASTM C1260)				3 briquettes (ASTM D5581)		
70398	Potential Reactivity: Concrete Bar Expansion	\$	2,700.00	75063	Moisture Content (CTM 370)	\$	85,00
	Method (ASTM C1293), 12 month			75005	Wet Track Abrasion Test (ASTM D3910)	\$	165.00
70399	Potential Reactivity: Concrete Bar Expansion	\$	2,900.00	75093	Hveem Mix Design (Excluding Aggregate Quality Tests)	\$	5,200.00
	Method (ASTM C1293), 24 month			75096	Hveem Mix Design, with RAP (Excluding Aggregate	\$	5,645.00
70397	Potential Reactivity of Aggregate Combination, non-standard	\$	1,000.00		Quality Tests, RAP Qualification)		
	method; 14-Day Exposure, Mortar (after ASTM C1567)			75099	Hveem Mix Design, with Lime (Excluding Aggregate	\$	6,000.00
70392	Potential Reactivity of Aggregate Combination, non-standard	\$	1,050.00		Quality Tests)		
	method; 28-Day Exposure, Mortar (after ASTM C1567)			75094	Hveem Mix Design Caltrans Untreated Mix	\$	6,200.00
70345	R-Value: Soil (ASTM 2844, CTM 301)	\$	440.00		(Including Aggregate Quality Tests)		
70347	R-Value: Aggregate Base (ASTM D2844, CTM 301)	\$	490.00	75095	Hveem Mix Design Caltrans Lime Treated Mix	\$	7,200.00
70349	Sand Equivalent (ASTM D2419, CTM 217)	\$	125.00		(Including Aggregate Quality Tests)		
70351	Sieve #200 Wash Only (ASTM D1140, CTM 202)	\$	90.00	75084	Marshall Mix Design (Excluding Aggregate Quality Tests)		5,200.00
70353	Sieve with Hydrometer: 3/4" Gravel to Clay (ASTM D422,	\$	250,00	75087	Marshall Mix Design with RAP (Excluding Aggregate	\$	5,645.00
	D7928, CTM 203)				Quality Tests)		
70355	Sieve with Hydrometer: Sand to Clay (ASTM D422,	\$	240.00	75090	Marshall Mix Design with Lime (Excluding Aggregate	\$	6,200.00
	D7928, CTM 203)				Quality Tests)		
70357	Sieve Analysis Including Wash (ASTM C136, CTM 202)	\$	150.00	75083	Open Grade Asphalt Concrete Mix Design	\$	3,000.00
70359	Sieve Analysis Without Wash (ASTM C136, CTM 202)	\$	120.00		(ASTM D7064, CTM 368)		
70360	Sieve Analysis: Split Sieve (ASTM C136, CTM 202)	\$	240.00	75109	Superpave Mix Design (Excluding Aggregate Quality Tests)		10,600.00
70361	Sieve Analysis Without Wash: With Cobbles	\$	235,00	75113	Superpave Mix Design, with RAP	\$ 1	11,200.00
	(ASTM C136, CTM 202)				(Excluding Aggregate Quality Tests)		
70363	Soundness: Sodium or Magnesium Sulfate,	\$	450.00	75114	Superpave Mix Design, with Rubber	\$ 1	11,200.00
	5 Cycles (ASTM C88)				(Excluding Aggregate Quality Tests)		
70365	Specific Gravity and Absorption; Coarse	\$	100.00	75115	Superpave Mix Design, with Additives	\$ 1	11,500.00
	(ASTM C127, CTM 206)				(Excluding Aggregate Quality Tests)		
70367	Specific Gravity and Absorption: Fine	\$	165.00	75075	Effect of Moisture on Asphalt Paving Mixtures, Pre-Mixed	\$	1,000.00
	(ASTM C128, CTM 207)				(ASTM D4867, AASHTO T283)		
70369	Swell/Settlement Potential: One Dimensional	\$	150.00	75111	Hamburg Wheel Track Test, 20,000 passes, 4 briquettes	\$	1,100.00
	(ASTM D4546)				(AASHTO T324)		
70371	Triaxial		Quotation	75039	Raveling Test of Cold Mixed Emulsified Asphalt	\$	200.00
70373	Unconfined Compression (ASTM D2166, CTM 221)	\$	190.00		(ASTM D7196)		
30317	Unit Weight Per Cubic Foot (ASTM C29, CTM 212)	\$	125.00	75067	Marshall Stability, wet set, 3 replicates (AASHTO T245)	\$	350,00
30319	Voids in Aggregate with Known Specific Gravity	\$	125.00	75068	Marshall Stability, dry set, 3 replicates (AASHTO T245)	\$	300.00
	(ASTM C29, CTM 212)			75070	Cold Recycled Asphalt Mix Design: 2 gradings each,	\$ 1	10,500.00
30411	Lightweight Particles: Coarse, with Two Solutions (ASTM C123)	\$	410.00		3 emulsion content (Caltrans LP-8)		
30412	Lightweight Particles: Fine, with One Solution (ASTM C123)	\$	205.00				
*** 1				Task			
Task	Applied Company Tooks		D-4-	Code	Brick Masonry Tests, ASTM C67		Rate
Code	Asphalt Concrete Tests		Rate	20301	Modulus of Rupture: Flexural	\$	95.00
75031	HMA Mixing and Preparation	\$	125.00	20301 20303	Modulus of Rupture: Flexural Compression Strength	\$	95.00 60.00
75031 75032	HMA Mixing and Preparation HMA Mixing and Preparation with Aggregate Treatment	\$	125.00 175.00	20301 20303 20305	Modulus of Rupture: Flexural Compression Strength Absorption: 5 Hour or 24 Hour	\$ \$	95.00 60.00 65.00
75031	HMA Mixing and Preparation HMA Mixing and Preparation with Aggregate Treatment Bulk Specific Gravity of Compacted Sample or		125.00	20301 20303 20305 20307	Modulus of Rupture: Flexural Compression Strength Absorption: 5 Hour or 24 Hour Absorption (Boil): 1, 2 or 5 Hours	\$ \$ \$	95.00 60.00 65.00 95.00
75031 75032 75033	HMA Mixing and Preparation HMA Mixing and Preparation with Aggregate Treatment Bulk Specific Gravity of Compacted Sample or Core: SSD (ASTM D2726, CTM 308C)	\$	125.00 175.00 55.00	20301 20303 20305 20307 20309	Modulus of Rupture: Flexural Compression Strength Absorption: 5 Hour or 24 Hour Absorption (Boil): 1, 2 or 5 Hours Initial Rate of Absorption	\$ \$ \$	95.00 60.00 65.00 95.00 55.00
75031 75032	HMA Mixing and Preparation HMA Mixing and Preparation with Aggregate Treatment Bulk Specific Gravity of Compacted Sample or Core: SSD (ASTM D2726, CTM 308C) Bulk Specific Gravity of Compacted Sample or	\$	125.00 175.00	Code 20301 20303 20305 20307 20309 20311	Modulus of Rupture: Flexural Compression Strength Absorption: 5 Hour or 24 Hour Absorption (Boil): 1, 2 or 5 Hours Initial Rate of Absorption Efflorescence	\$ \$ \$ \$ \$	95.00 60.00 65.00 95.00 55.00 75.00
75031 75032 75033 75036	HMA Mixing and Preparation HMA Mixing and Preparation with Aggregate Treatment Bulk Specific Gravily of Compacted Sample or Core: SSD (ASTM D2726, CTM 308C) Bulk Specific Gravily of Compacted Sample or Core: Parafin Coated (ASTM D1188 and CTM 308A)	\$	125.00 175.00 55.00	Code 20301 20303 20305 20307 20309 20311 20313	Modulus of Rupture: Flexural Compression Strength Absorption: 5 Hour or 24 Hour Absorption (Boil): 1, 2 or 5 Hours Initial Rate of Absorption Efflorescence Cores: Compression	\$ \$ \$ \$ \$ \$ \$	95.00 60.00 65.00 95.00 55.00 75.00 70.00
75031 75032 75033 75036 75040	HMA Mixing and Preparation HMA Mixing and Preparation with Aggregate Treatment Bulk Specific Gravity of Compacted Sample or Core: SSD (ASTM D2726, CTM 308C) Bulk Specific Gravity of Compacted Sample or Core: Parafin Coated (ASTM D1188 and CTM 308A) Emulsion Residue, Evaporation (ASTM D244)	\$ \$ \$	125.00 175.00 55.00 80.00	Code 20301 20303 20305 20307 20309 20311	Modulus of Rupture: Flexural Compression Strength Absorption: 5 Hour or 24 Hour Absorption (Boil): 1, 2 or 5 Hours Initial Rate of Absorption Efflorescence	\$ \$ \$ \$ \$	95.00 60.00 65.00 95.00 55.00 75.00
75031 75032 75033 75036 75040 75024	HMA Mixing and Preparation HMA Mixing and Preparation with Aggregate Treatment Bulk Specific Gravity of Compacted Sample or Core: SSD (ASTM D2726, CTM 308C) Bulk Specific Gravity of Compacted Sample or Core: Parafin Coated (ASTM D1188 and CTM 308A) Emulsion Residue, Evaporation (ASTM D244) Extraction: % Bitumen (ASTM D6307, CTM 382)	\$ \$ \$ \$ \$	125.00 175.00 55.00 80.00 160.00 160.00	Code 20301 20303 20305 20307 20309 20311 20313 20315	Modulus of Rupture: Flexural Compression Strength Absorption: 5 Hour or 24 Hour Absorption (Boil): 1, 2 or 5 Hours Initial Rate of Absorption Efflorescence Cores: Compression	\$ \$ \$ \$ \$ \$ \$	95.00 60.00 65.00 95.00 55.00 75.00 70.00
75031 75032 75033 75036	HMA Mixing and Preparation HMA Mixing and Preparation with Aggregate Treatment Bulk Specific Gravity of Compacted Sample or Core: SSD (ASTM D2726, CTM 308C) Bulk Specific Gravity of Compacted Sample or Core: Parafin Coated (ASTM D1188 and CTM 308A) Emulsion Residue, Evaporation (ASTM D244) Extraction: % Bitumen (ASTM D6307, CTM 382) Extraction: % Bitumen and Gradation	\$ \$ \$	125.00 175.00 55.00 80.00	Code 20301 20303 20305 20307 20309 20311 20313 20315	Modulus of Rupture: Flexural Compression Strength Absorption: 5 Hour or 24 Hour Absorption (Boil): 1, 2 or 5 Hours Initial Rate of Absorption Efflorescence Cores: Compression Shear Test on Brick Cores: 2 Faces	\$ \$ \$ \$ \$ \$ \$	95.00 60.00 65.00 95.00 55.00 75.00 70.00 95.00
75031 75032 75033 75036 75040 75024 75027	HMA Mixing and Preparation HMA Mixing and Preparation with Aggregate Treatment Bulk Specific Gravity of Compacted Sample or Core: SSD (ASTM D2726, CTM 308C) Bulk Specific Gravity of Compacted Sample or Core: Parafin Coated (ASTM D1188 and CTM 308A) Emulsion Residue, Evaporation (ASTM D244) Extraction: % Bitumen (ASTM D6307, CTM 382) Extraction: % Bitumen and Gradation (ASTM D5444, D6307, CTM 202, 382)	\$ \$ \$ \$ \$	125.00 175.00 55.00 80.00 160.00 160.00 215.00	Code 20301 20303 20305 20307 20309 20311 20313 20315 Task Code	Modulus of Rupture: Flexural Compression Strength Absorption: 5 Hour or 24 Hour Absorption (Boil): 1, 2 or 5 Hours Initial Rate of Absorption Efflorescence Cores: Compression Shear Test on Brick Cores: 2 Faces  Concrete Block, ASTM C140	\$ \$ \$ \$ \$ \$ \$	95.00 60.00 65.00 95.00 55.00 75.00 70.00 95.00
75031 75032 75033 75036 75040 75024	HMA Mixing and Preparation HMA Mixing and Preparation with Aggregate Treatment Bulk Specific Gravity of Compacted Sample or Core: SSD (ASTM D2726, CTM 308C) Bulk Specific Gravity of Compacted Sample or Core: Parafin Coated (ASTM D1188 and CTM 308A) Emulsion Residue, Evaporation (ASTM D244) Extraction: % Bitumen (ASTM D6307, CTM 382) Extraction: % Bitumen and Gradation (ASTM D5444, D6307, CTM 202, 382) Extraction: % Bitumen, Correction Factor	\$ \$ \$ \$ \$	125.00 175.00 55.00 80.00 160.00 160.00	Code 20301 20303 20305 20307 20309 20311 20313 20315 Task Code 20321	Modulus of Rupture: Flexural Compression Strength Absorption: 5 Hour or 24 Hour Absorption (Boil): 1, 2 or 5 Hours Initial Rate of Absorption Efflorescence Cores: Compression Shear Test on Brick Cores: 2 Faces  Concrete Block, ASTM C140 Compression	\$ \$ \$ \$ \$ \$ \$	95.00 60.00 65.00 95.00 75.00 70.00 95.00 Rate
75036 75036 75036 75036 75040 75024 75027	HMA Mixing and Preparation HMA Mixing and Preparation with Aggregate Treatment Bulk Specific Gravity of Compacted Sample or Core: SSD (ASTM D2726, CTM 308C) Bulk Specific Gravity of Compacted Sample or Core: Parafin Coated (ASTM D1188 and CTM 308A) Emulsion Residue, Evaporation (ASTM D244) Extraction: % Bitumen (ASTM D8307, CTM 382) Extraction: % Bitumen and Gradation (ASTM D5444, D6307, CTM 202, 382) Extraction: % Bitumen, Correction Factor (ASTM D6307, CTM 382)	\$ \$ \$ \$ \$ \$	125.00 175.00 55.00 80.00 160.00 160.00 215.00 350.00	Code 20301 20303 20305 20307 20309 20311 20313 20315 Task Code 20321 20323	Modulus of Rupture: Flexural Compression Strength Absorption: 5 Hour or 24 Hour Absorption (Boil): 1, 2 or 5 Hours Initial Rate of Absorption Efflorescence Cores: Compression Shear Test on Brick Cores: 2 Faces  Concrete Block, ASTM C140 Compression Absorption/Moisture Content/Oven Dry Density	\$ \$ \$ \$ \$ \$ \$ \$	95.00 60.00 65.00 95.00 75.00 70.00 95.00 Rate 90.00 90.00
75031 75032 75033 75036 75040 75024 75027	HMA Mixing and Preparation HMA Mixing and Preparation with Aggregate Treatment Bulk Specific Gravity of Compacted Sample or Core: SSD (ASTM D2726, CTM 308C) Bulk Specific Gravity of Compacted Sample or Core: Parafin Coated (ASTM D1188 and CTM 308A) Emulsion Residue, Evaporation (ASTM D244) Extraction: % Bitumen (ASTM D8307, CTM 382) Extraction: % Bitumen and Gradation (ASTM D5444, D8307, CTM 202, 382) Extraction: % Bitumen, Correction Factor (ASTM D6307, CTM 382) Chemical Extraction: % Bitumen and Sieve Analysis	\$ \$ \$ \$ \$	125.00 175.00 55.00 80.00 160.00 160.00 215.00	Code 20301 20303 20305 20307 20309 20311 20313 20315  Task Code 20321 20323 20327	Modulus of Rupture: Flexural Compression Strength Absorption: 5 Hour or 24 Hour Absorption (Boil): 1, 2 or 5 Hours Initial Rate of Absorption Efflorescence Cores: Compression Shear Test on Brick Cores: 2 Faces  Concrete Block, ASTM C140 Compression Absorption/Moisture Content/Oven Dry Density Linear Shrinkage (ASTM C426)	* * * * * * * * * * * * * * * * * * * *	95.00 60.00 65.00 95.00 75.00 70.00 95.00 Rate 90.00 90.00 250.00
75031 75032 75033 75036 75040 75024 75027 75028	HMA Mixing and Preparation HMA Mixing and Preparation with Aggregate Treatment Bulk Specific Gravity of Compacted Sample or Core: SSD (ASTM D2726, CTM 308C) Bulk Specific Gravity of Compacted Sample or Core: Parafin Coated (ASTM D1188 and CTM 308A) Emulsion Residue, Evaporation (ASTM D244) Extraction: % Bitumen (ASTM D6307, CTM 382) Extraction: % Bitumen and Gradation (ASTM D5444, D6307, CTM 202, 382) Extraction: % Bitumen, Correction Factor (ASTM D6307, CTM 382) Chemical Extraction: % Bitumen and Sieve Analysis (ASTM D2172 Method A or B, ASTM D5444)	\$ \$ \$ \$ \$ \$ \$	125.00 175.00 55.00 80.00 160.00 160.00 215.00 350.00	Code 20301 20303 20305 20307 20309 20311 20313 20315  Task Code 20321 20323 20327 20335	Modulus of Rupture: Flexural Compression Strength Absorption: 5 Hour or 24 Hour Absorption (Boil): 1, 2 or 5 Hours Initial Rate of Absorption Efflorescence Cores: Compression Shear Test on Brick Cores: 2 Faces  Concrete Block, ASTM C140 Compression Absorption/Moisture Content/Oven Dry Density Linear Shrinkage (ASTM C428) Web and Face Shell Measurements	***	95.00 60.00 65.00 95.00 75.00 70.00 95.00 Rate 90.00 90.00 250.00
Code 75031 75032 75033 75036 75040 75024 75027	HMA Mixing and Preparation HMA Mixing and Preparation with Aggregate Treatment Bulk Specific Gravity of Compacted Sample or Core: SSD (ASTM D2726, CTM 308C) Bulk Specific Gravity of Compacted Sample or Core: Parafin Coated (ASTM D1188 and CTM 308A) Emulsion Residue, Evaporation (ASTM D244) Extraction: % Bitumen (ASTM D6307, CTM 382) Extraction: % Bitumen and Gradation (ASTM D5444, D6307, CTM 202, 382) Extraction: % Bitumen, Correction Factor (ASTM D6307, CTM 382) Chemical Extraction: % Bitumen and Sieve Analysis (ASTM D2172 Method A or B, ASTM D5444) Lab Tested Maximum Density: Hveem, 3 briquettes	\$ \$ \$ \$ \$ \$	125.00 175.00 55.00 80.00 160.00 160.00 215.00 350.00	Code 20301 20303 20305 20307 20309 20311 20313 20315  Task Code 20321 20323 20327 20335 20329	Modulus of Rupture: Flexural Compression Strength Absorption: 5 Hour or 24 Hour Absorption (Boll): 1, 2 or 5 Hours Initial Rate of Absorption Efflorescence Cores: Compression Shear Test on Brick Cores: 2 Faces  Concrete Block, ASTM C140 Compression Absorption/Moisture Content/Oven Dry Density Linear Shrinkage (ASTM C426) Web and Face Shell Measurements Tension Test	* * * * * * * * * * * * * * * * * * * *	95.00 60.00 65.00 95.00 75.00 70.00 95.00 Rate 90.00 90.00 250.00 160.00
75031 75032 75033 75036 75040 75024 75027 75028 75030	HMA Mixing and Preparation HMA Mixing and Preparation with Aggregate Treatment Bulk Specific Gravity of Compacted Sample or Core: SSD (ASTM D2726, CTM 308C) Bulk Specific Gravity of Compacted Sample or Core: Parafin Coated (ASTM D1188 and CTM 308A) Emulsion Residue, Evaporation (ASTM D244) Extraction: % Bitumen (ASTM D8307, CTM 382) Extraction: % Bitumen and Gradation (ASTM D5444, D6307, CTM 202, 382) Extraction: % Bitumen, Correction Factor (ASTM D6307, CTM 382) Chemical Extraction: % Bitumen and Sieve Analysis (ASTM D2172 Method A or B, ASTM D5444) Lab Tested Maximum Density: Hyeem, 3 briquettes (ASTM D1561, D1188, CTM 304, 308)	** * ** * * * *	125.00 175.00 55.00 80.00 160.00 160.00 215.00 350.00 245.00	Code 20301 20303 20305 20307 20309 20311 20313 20315  Task Code 20321 20323 20327 20335 20329 20331	Modulus of Rupture: Flexural Compression Strength Absorption: 5 Hour or 24 Hour Absorption (Boil): 1, 2 or 5 Hours Initial Rate of Absorption Efflorescence Cores: Compression Shear Test on Brick Cores: 2 Faces  Concrete Block, ASTM C140 Compression Absorption/Moisture Content/Oven Dry Density Linear Shrinkage (ASTM C428) Web and Face Shell Measurements Tension Test Core Compression	***	95.00 60.00 65.00 95.00 75.00 75.00 95.00 95.00 90.00 250.00 160.00 70.00
75031 75032 75033 75036 75040 75024 75027 75028	HMA Mixing and Preparation HMA Mixing and Preparation with Aggregate Treatment Bulk Specific Gravity of Compacted Sample or Core: SSD (ASTM D2726, CTM 308C) Bulk Specific Gravity of Compacted Sample or Core: Parafin Coated (ASTM D1188 and CTM 308A) Emulsion Residue, Evaporation (ASTM D244) Extraction: % Bitumen (ASTM D8307, CTM 382) Extraction: % Bitumen and Gradation (ASTM D5444, D8307, CTM 202, 382) Extraction: % Bitumen, Correction Factor (ASTM D6307, CTM 382) Chemical Extraction: % Bitumen and Sieve Analysis (ASTM D2172 Method A or B, ASTM D5444) Lab Tested Maximum Density: Hveem, 3 briquettes (ASTM D1561, D1188, CTM 304, 308) Hveem Stabilometer Test, Premixed, 3 briquettes	\$ \$ \$ \$ \$ \$ \$	125.00 175.00 55.00 80.00 160.00 160.00 215.00 350.00	Code 20301 20303 20305 20307 20309 20311 20313 20315  Task Code 20321 20323 20327 20335 20329 20331 20331	Modulus of Rupture: Flexural Compression Strength Absorption: 5 Hour or 24 Hour Absorption (Boil): 1, 2 or 5 Hours Initial Rate of Absorption Efficrescence Cores: Compression Shear Test on Brick Cores: 2 Faces  Concrete Block, ASTM C140 Compression Absorption/Moisture Content/Oven Dry Density Linear Shrinkage (ASTM C428) Web and Face Shell Measurements Tension Test Core Compression Shear Test of Masonry Cores: 2 Faces	****	95.00 60.00 65.00 95.00 55.00 75.00 70.00 95.00 8ate 90.00 90.00 250.00 50.00 160.00 95.00
Code 75031 75032 75033 75036 75040 75024 75027 75028 75030 75042 75057	HMA Mixing and Preparation HMA Mixing and Preparation with Aggregate Treatment Bulk Specific Gravity of Compacted Sample or Core: SSD (ASTM D2726, CTM 308C) Bulk Specific Gravity of Compacted Sample or Core: Parafin Coated (ASTM D1188 and CTM 308A) Emulsion Residue, Evaporation (ASTM D244) Extraction: % Bitumen (ASTM D6307, CTM 382) Extraction: % Bitumen (ASTM D6307, CTM 382) Extraction: % Bitumen and Gradation (ASTM D5444, D6307, CTM 202, 382) Extraction: % Bitumen, Correction Factor (ASTM D6307, CTM 382) Chemical Extraction: % Bitumen and Sieve Analysis (ASTM D2172 Method A or B, ASTM D5444) Lab Tested Maximum Density: Hyeem, 3 briquettes (ASTM D1561, D1188, CTM 304, 308) Hyeem Stabilometer Test, Premixed, 3 briquettes (ASTM D1560, D1561, CTM 304, 366)	** * ** * * * *	125.00 175.00 55.00 80.00 160.00 215.00 350.00 245.00 215.00	Code 20301 20303 20305 20307 20309 20311 20313 20315  Task Code 20321 20323 20327 20335 20329 20331	Modulus of Rupture: Flexural Compression Strength Absorption: 5 Hour or 24 Hour Absorption (Boil): 1, 2 or 5 Hours Initial Rate of Absorption Efflorescence Cores: Compression Shear Test on Brick Cores: 2 Faces  Concrete Block, ASTM C140 Compression Absorption/Moisture Content/Oven Dry Density Linear Shrinkage (ASTM C428) Web and Face Shell Measurements Tension Test Core Compression	***	95.00 60.00 65.00 95.00 75.00 75.00 95.00 95.00 90.00 250.00 160.00 70.00
75031 75032 75033 75036 75040 75024 75027 75028 75030	HMA Mixing and Preparation HMA Mixing and Preparation with Aggregate Treatment Bulk Specific Gravity of Compacted Sample or Core: SSD (ASTM D2726, CTM 308C) Bulk Specific Gravity of Compacted Sample or Core: Parafin Coated (ASTM D1188 and CTM 308A) Emulsion Residue, Evaporation (ASTM D244) Extraction: % Bitumen (ASTM D6307, CTM 382) Extraction: % Bitumen and Gradation (ASTM D5444, D6307, CTM 202, 382) Extraction: % Bitumen, Correction Factor (ASTM D6307, CTM 382) Chemical Extraction: % Bitumen and Sieve Analysis (ASTM D2172 Method A or B, ASTM D5444) Lab Tested Maximum Density: Hveem, 3 briquettes (ASTM D1561, D1188, CTM 304, 308) Hveem Stabilometer Test, Premixed, 3 briquettes (ASTM D1560, D1561, CTM 304, 366) Lab Tested Maximum Density: Marshall,	** * ** * * * *	125.00 175.00 55.00 80.00 160.00 160.00 215.00 350.00 245.00	Code 20301 20303 20305 20307 20309 20311 20313 20315  Task Code 20321 20323 20327 20335 20329 20331	Modulus of Rupture: Flexural Compression Strength Absorption: 5 Hour or 24 Hour Absorption (Boil): 1, 2 or 5 Hours Initial Rate of Absorption Efficrescence Cores: Compression Shear Test on Brick Cores: 2 Faces  Concrete Block, ASTM C140 Compression Absorption/Moisture Content/Oven Dry Density Linear Shrinkage (ASTM C428) Web and Face Shell Measurements Tension Test Core Compression Shear Test of Masonry Cores: 2 Faces	****	95.00 60.00 65.00 95.00 55.00 75.00 70.00 95.00 8ate 90.00 90.00 250.00 50.00 160.00 95.00
75031 75032 75033 75036 75040 75024 75027 75028 75030 75042 75057	HMA Mixing and Preparation HMA Mixing and Preparation with Aggregate Treatment Bulk Specific Gravity of Compacted Sample or Core: SSD (ASTM D2726, CTM 308C) Bulk Specific Gravity of Compacted Sample or Core: Parafin Coated (ASTM D1188 and CTM 308A) Emulsion Residue, Evaporation (ASTM D244) Extraction: % Bitumen (ASTM D6307, CTM 382) Extraction: % Bitumen and Gradation (ASTM D5444, D6307, CTM 202, 382) Extraction: % Bitumen, Correction Factor (ASTM D6307, CTM 382) Chemical Extraction: % Bitumen and Sieve Analysis (ASTM D2172 Method A or B, ASTM D5444) Lab Tested Maximum Density: Hveem, 3 briquettes (ASTM D1561, D1188, CTM 304, 308) Hveem Stabilometer Test, Premixed, 3 briquettes (ASTM D1560, D1561, CTM 304, 366) Lab Tested Maximum Density: Marshall, 3 briquettes (ASTM D6926, D2726)	\$ \$ \$ \$ \$ \$ \$ \$	125.00 175.00 175.00 55.00 80.00 160.00 160.00 215.00 245.00 215.00 215.00 215.00	Code 20301 20303 20305 20307 20309 20311 20313 20315  Task Code 20321 20323 20327 20335 20329 20331 20333 20339  Task	Modulus of Rupture: Flexural Compression Strength Absorption: 5 Hour or 24 Hour Absorption (Boil): 1, 2 or 5 Hours Initial Rate of Absorption Efflorescence Cores: Compression Shear Test on Brick Cores: 2 Faces  Concrete Block, ASTM C140 Compression Absorption/Moisture Content/Oven Dry Density Linear Shrinkage (ASTM C428) Web and Face Shell Measurements Tension Test Core Compression Shear Test of Masonry Cores: 2 Faces Efflorescence Tests	****	95.00 60.00 65.00 95.00 75.00 75.00 95.00 95.00 90.00 250.00 50.00 160.00 70.00 95.00
Code 75031 75032 75033 75036 75040 75024 75027 75028 75030 75042 75057	HMA Mixing and Preparation HMA Mixing and Preparation with Aggregate Treatment Bulk Specific Gravity of Compacted Sample or Core: SSD (ASTM D2726, CTM 308C) Bulk Specific Gravity of Compacted Sample or Core: Parafin Coated (ASTM D1188 and CTM 308A) Emulsion Residue, Evaporation (ASTM D308A) Emulsion Residue, Evaporation (ASTM D308A) Extraction: % Bitumen (ASTM D6307, CTM 382) Extraction: % Bitumen and Gradation (ASTM D5444, D6307, CTM 202, 382) Extraction: % Bitumen, Correction Factor (ASTM D6307, CTM 382) Chemical Extraction: % Bitumen and Sieve Analysis (ASTM D2172 Method A or B, ASTM D5444) Lab Tested Maximum Density: Hveem, 3 briquettes (ASTM D1561, D1188, CTM 304, 308) Hveem Stabilometer Test, Premixed, 3 briquettes (ASTM D1560, D1561, CTM 304, 366) Lab Tested Maximum Density: Marshall, 3 briquettes (ASTM D6926, D2726) Lab Tested Maximum Density: Marshall	** * ** * * * *	125.00 175.00 55.00 80.00 160.00 215.00 350.00 245.00 215.00	Code 20301 20303 20305 20307 20309 20311 20313 20315  Task Code 20321 20323 20327 20335 20329 20331 20333 20339  Task Code	Modulus of Rupture: Flexural Compression Strength Absorption: 5 Hour or 24 Hour Absorption (Boil): 1, 2 or 5 Hours Initial Rate of Absorption Efficiescence Cores: Compression Shear Test on Brick Cores: 2 Faces  Concrete Block, ASTM C140 Compression Absorption/Moisture Content/Oven Dry Density Linear Shrinkage (ASTM C426) Web and Face Shell Measurements Tension Test Core Compression Shear Test of Masonry Cores: 2 Faces Efflorescence Tests  Masonry Prisms, ASTM C1314	****	95.00 60.00 65.00 95.00 75.00 75.00 95.00 95.00 90.00 250.00 160.00 95.00 75.00
Code 75031 75032 75033 75036 75040 75024 75027 75028 75030 75042 75042 75048 75049	HMA Mixing and Preparation HMA Mixing and Preparation with Aggregate Treatment Bulk Specific Gravity of Compacted Sample or Core: SSD (ASTM D2726, CTM 308C) Bulk Specific Gravity of Compacted Sample or Core: Parafin Coated (ASTM D1188 and CTM 308A) Emulsion Residue, Evaporation (ASTM D244) Extraction: % Bitumen (ASTM D6307, CTM 382) Extraction: % Bitumen (ASTM D6307, CTM 382) Extraction: % Bitumen and Gradation (ASTM D5444, D6307, CTM 202, 382) Extraction: % Bitumen, Correction Factor (ASTM D6307, CTM 382) Chemical Extraction: % Bitumen and Sieve Analysis (ASTM D2172 Method A or B, ASTM D5444) Lab Tested Maximum Density: Hveem, 3 briquettes (ASTM D1561, D1188, CTM 304, 308) Hveem Stabilometer Test, Premixed, 3 briquettes (ASTM D1560, D1561, CTM 304, 366) Lab Tested Maximum Density: Marshall, 3 briquettes (ASTM D6926, D2726) Lab Tested Maximum Density: Marshall 6" Specimen, 3 briquettes (ASTM D5581, D2726)	\$ \$ \$ \$ \$ \$ \$ \$ \$	125.00 175.00 55.00 80.00 160.00 215.00 245.00 245.00 215.00 215.00 215.00	Code 20301 20303 20305 20307 20309 20311 20313 20315  Task Code 20321 20323 20327 20335 20329 20331 20333 20339  Task	Modulus of Rupture: Flexural Compression Strength Absorption: 5 Hour or 24 Hour Absorption (Boil): 1, 2 or 5 Hours Initial Rate of Absorption Efflorescence Cores: Compression Shear Test on Brick Cores: 2 Faces  Concrete Block, ASTM C140 Compression Absorption/Moisture Content/Oven Dry Density Linear Shrinkage (ASTM C426) Web and Face Shell Measurements Tension Test Core Compression Shear Test of Masonry Cores: 2 Faces Efflorescence Tests  Masonry Prisms, ASTM C1314 Compression Test: Composite Masonry	****	95.00 60.00 65.00 95.00 75.00 75.00 95.00 95.00 90.00 250.00 50.00 160.00 70.00 95.00
75031 75032 75033 75036 75040 75024 75027 75028 75030 75042 75057	HMA Mixing and Preparation HMA Mixing and Preparation with Aggregate Treatment Bulk Specific Gravity of Compacted Sample or Core: SSD (ASTM D2726, CTM 308C) Bulk Specific Gravity of Compacted Sample or Core: Parafin Coated (ASTM D1188 and CTM 308A) Emulsion Residue, Evaporation (ASTM D244) Extraction: % Bitumen (ASTM D6307, CTM 382) Extraction: % Bitumen and Gradation (ASTM D5444, D6307, CTM 202, 382) Extraction: % Bitumen, Correction Factor (ASTM D6307, CTM 382) Chemical Extraction: % Bitumen and Sieve Analysis (ASTM D2172 Method A or B, ASTM D5444) Lab Tested Maximum Density: Hveem, 3 briquettes (ASTM D1561, D1188, CTM 304, 308) Hveem Stabilometer Test, Premixed, 3 briquettes (ASTM D1560, D1561, CTM 304, 366) Lab Tested Maximum Density: Marshall, 3 briquettes (ASTM D6926, D2726) Lab Tested Maximum Density: Marshall 6" Specimen, 3 briquettes (ASTM D5581, D2726) Lab Tested Maximum Density: Marshall 6" Specimen, 3 briquettes (ASTM D5581, D2726) Lab Tested Maximum Density: Superpave Gyratory	\$ \$ \$ \$ \$ \$ \$ \$	125.00 175.00 175.00 55.00 80.00 160.00 160.00 215.00 245.00 215.00 215.00 215.00	Code 20301 20303 20305 20307 20309 20311 20313 20315  Task Code 20321 20323 20327 20335 20329 20331 20339  Task Code 20341	Modulus of Rupture: Flexural Compression Strength Absorption: 5 Hour or 24 Hour Absorption (Boil): 1, 2 or 5 Hours Initial Rate of Absorption Efflorescence Cores: Compression Shear Test on Brick Cores: 2 Faces  Concrete Block, ASTM C140 Compression Absorption/Moisture Content/Oven Dry Density Linear Shrinkage (ASTM C426) Web and Face Shell Measurements Tension Test Core Compression Shear Test of Masonry Cores: 2 Faces Efflorescence Tests  Masonry Prisms, ASTM C1314 Compression Test: Composite Masonry Prisms Up To 8" x 16"	*****	95.00 60.00 65.00 95.00 95.00 75.00 75.00 95.00  Rate 90.00 90.00 250.00 160.00 70.00 95.00 Rate
Code 75031 75032 75033 75036 75040 75024 75027 75028 75030 75042 75042 75048 75049	HMA Mixing and Preparation HMA Mixing and Preparation with Aggregate Treatment Bulk Specific Gravity of Compacted Sample or Core: SSD (ASTM D2726, CTM 308C) Bulk Specific Gravity of Compacted Sample or Core: Parafin Coated (ASTM D1188 and CTM 308A) Emulsion Residue, Evaporation (ASTM D244) Extraction: % Bitumen (ASTM D8307, CTM 382) Extraction: % Bitumen and Gradation (ASTM D5444, D6307, CTM 202, 382) Extraction: % Bitumen and Gradation (ASTM D56307, CTM 382) Chemical Extraction: % Bitumen and Sieve Analysis (ASTM D2172 Method A or B, ASTM D5444) Lab Tested Maximum Density: Hveem, 3 briquettes (ASTM D1561, D1188, CTM 304, 308) Hveem Stabilometer Test, Premixed, 3 briquettes (ASTM D1560, D1561, CTM 304, 366) Lab Tested Maximum Density: Marshall, 3 briquettes (ASTM D6926, D2726) Lab Tested Maximum Density: Marshall 6" Specimen, 3 briquettes (ASTM D5581, D2726) Lab Tested Maximum Density: Marshall 6" Specimen, 3 briquettes (ASTM D5581, D2726) Lab Tested Maximum Density: Superpave Gyratory Compacted Briquette, SSD, 1 briquette	\$ \$ \$ \$ \$ \$ \$ \$ \$	125.00 175.00 55.00 80.00 160.00 215.00 245.00 245.00 215.00 215.00 215.00	Code 20301 20303 20305 20307 20309 20311 20313 20315  Task Code 20321 20323 20327 20335 20329 20331 20333 20339  Task Code	Modulus of Rupture: Flexural Compression Strength Absorption: 5 Hour or 24 Hour Absorption (Boil): 1, 2 or 5 Hours Initial Rate of Absorption Efflorescence Cores: Compression Shear Test on Brick Cores: 2 Faces  Concrete Block, ASTM C140 Compression Absorption/Moisture Content/Oven Dry Density Linear Shrinkage (ASTM C428) Web and Face Shell Measurements Tension Test Core Compression Shear Test of Masonry Cores: 2 Faces Efflorescence Tests  Masonry Prisms, ASTM C1314 Compression Test: Composite Masonry Prisms Up To 8" x 16" Compression Test: Composite Masonry	****	95.00 60.00 65.00 95.00 75.00 75.00 95.00 95.00 90.00 250.00 160.00 95.00 75.00
Code 75031 75032 75033 75036 75040 75024 75027 75028 75030 75042 75057 75048 75049	HMA Mixing and Preparation HMA Mixing and Preparation with Aggregate Treatment Bulk Specific Gravity of Compacted Sample or Core: SSD (ASTM D2726, CTM 308C) Bulk Specific Gravity of Compacted Sample or Core: Parafin Coated (ASTM D1188 and CTM 308A) Emulsion Residue, Evaporation (ASTM D244) Extraction: % Bitumen (ASTM D6307, CTM 382) Extraction: % Bitumen and Gradation (ASTM D5444, D6307, CTM 202, 382) Extraction: % Bitumen, Correction Factor (ASTM D6307, CTM 382) Chemical Extraction: % Bitumen and Sieve Analysis (ASTM D2172 Method A or B, ASTM D5444) Lab Tested Maximum Density: Hveem, 3 briquettes (ASTM D1561, D1188, CTM 304, 308) Hveem Stabilometer Test, Premixed, 3 briquettes (ASTM D1560, D1561, CTM 304, 366) Lab Tested Maximum Density: Marshall, 3 briquettes (ASTM D6926, D2726) Lab Tested Maximum Density: Marshall 6" Specimen, 3 briquettes (ASTM D5581, D2726) Lab Tested Maximum Density: Superpave Gyratory Compacted Briquette, SSD, 1 briquette (ASTM D6925, D2726)	\$\$ \$ \$\$\$ \$ \$ \$ \$ \$	125.00 175.00 175.00 55.00 80.00 160.00 215.00 245.00 215.00 215.00 215.00 215.00	Code 20301 20303 20305 20307 20309 20311 20313 20315  Task Code 20321 20323 20327 20335 20329 20331 20333 20339  Task Code 20341	Modulus of Rupture: Flexural Compression Strength Absorption: 5 Hour or 24 Hour Absorption (Boil): 1, 2 or 5 Hours Initial Rate of Absorption Efflorescence Cores: Compression Shear Test on Brick Cores: 2 Faces  Concrete Block, ASTM C140 Compression Absorption/Moisture Content/Oven Dry Density Linear Shrinkage (ASTM C426) Web and Face Shell Measurements Tension Test Core Compression Shear Test of Masonry Cores: 2 Faces Efflorescence Tests  Masonry Prisms, ASTM C1314 Compression Test: Composite Masonry Prisms Up To 8" x 16" Compression Test: Composite Masonry Prisms Larger Than 8" x 16"	* * * * * * * * * * * * * * * * * * * *	95.00 60.00 65.00 95.00 95.00 75.00 95.00 95.00 8ate 90.00 90.00 250.00 160.00 75.00 75.00 Rate 190.00 250.00
Code 75031 75032 75033 75036 75040 75024 75027 75028 75030 75042 75042 75048 75049	HMA Mixing and Preparation HMA Mixing and Preparation with Aggregate Treatment HMA Mixing and Preparation with Aggregate Treatment Bulk Specific Gravity of Compacted Sample or Core: SSD (ASTM D2726, CTM 308C) Bulk Specific Gravity of Compacted Sample or Core: Parafin Coated (ASTM D1188 and CTM 308A) Emulsion Residue, Evaporation (ASTM D244) Extraction: % Bitumen (ASTM D6307, CTM 382) Extraction: % Bitumen and Gradation (ASTM D5444, D6307, CTM 202, 382) Extraction: % Bitumen, Correction Factor (ASTM D6307, CTM 382) Chemical Extraction: % Bitumen and Sieve Analysis (ASTM D6307, CTM 382) Chemical Extraction: % Bitumen and Sieve Analysis (ASTM D1501, D1188, CTM 304, 308) Hveem Stabilometer Test, Premixed, 3 briquettes (ASTM D1561, D1188, CTM 304, 308) Hveem Stabilometer Test, Premixed, 3 briquettes (ASTM D1560, D1561, CTM 304, 366) Lab Tested Maximum Density: Marshall, 3 briquettes (ASTM D6926, D2726) Lab Tested Maximum Density: Superpave Gyratory Compacted Briquette, SSD, 1 briquette (ASTM D6925, D2728) Lab Tested Maximum Density: Superpave Gyratory Compacted Briquette, SSD, 1 briquette (ASTM D6925, D2728) Lab Tested Maximum Density: Superpave Gyratory	\$ \$ \$ \$ \$ \$ \$ \$ \$	125.00 175.00 55.00 80.00 160.00 215.00 245.00 245.00 215.00 215.00 215.00	Code 20301 20303 20305 20307 20309 20311 20313 20315  Task Code 20321 20323 20327 20335 20329 20331 20339  Task Code 20341 20343 20343	Modulus of Rupture: Flexural Compression Strength Absorption: 5 Hour or 24 Hour Absorption (Boil): 1, 2 or 5 Hours Initial Rate of Absorption Efflorescence Cores: Compression Shear Test on Brick Cores: 2 Faces  Concrete Block, ASTM C140 Compression Absorption/Molsture Content/Oven Dry Density Linear Shrinkage (ASTM C426) Web and Face Shell Measurements Tension Test Core Compression Shear Test of Masonry Cores: 2 Faces Efflorescence Tests  Masonry Prisms, ASTM C1314 Compression Test: Composite Masonry Prisms Up To 8" x 16" Compression Test: Composite Masonry Prisms Larger Than 8" x 16" Prism Cord Modulus of Elasticity	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	95.00 60.00 65.00 95.00 95.00 75.00 70.00 95.00 250.00 160.00 70.00 95.00 75.00 180.00 75.00 75.00 75.00 75.00
Code 75031 75032 75033 75036 75040 75024 75027 75028 75030 75042 75057 75048 75049	HMA Mixing and Preparation HMA Mixing and Preparation with Aggregate Treatment HMA Mixing and Preparation with Aggregate Treatment Bulk Specific Gravity of Compacted Sample or Core: SSD (ASTM D2726, CTM 308C) Bulk Specific Gravity of Compacted Sample or Core: Parafin Coated (ASTM D1188 and CTM 308A) Emulsion Residue, Evaporation (ASTM D244) Extraction: % Bitumen (ASTM D3907, CTM 382) Extraction: % Bitumen and Gradation (ASTM D5444, D6307, CTM 202, 382) Extraction: % Bitumen, Correction Factor (ASTM D6307, CTM 382) Chemical Extraction: % Bitumen and Sieve Analysis (ASTM D2172 Method A or B, ASTM D5444) Lab Tested Maximum Density: Hveem, 3 briquettes (ASTM D1561, D1188, CTM 304, 308) Hveem Stabilometer Test, Premixed, 3 briquettes (ASTM D1560, D1561, CTM 304, 366) Lab Tested Maximum Density: Marshall 3 briquettes (ASTM D6926, D2726) Lab Tested Maximum Density: Marshall 6" Specimen, 3 briquettes (ASTM D5581, D2726) Lab Tested Maximum Density: Superpave Gyratory Compacted Briquette, SSD, 1 briquette (ASTM D9925, D2728) Lab Tested Maximum Density: Superpave Gyratory Compacted Briquette, Parafin, 1 briquette	\$\$ \$ \$\$\$ \$ \$ \$ \$ \$	125.00 175.00 175.00 55.00 80.00 160.00 215.00 245.00 215.00 215.00 215.00 215.00	Code 20301 20303 20305 20307 20309 20311 20313 20315  Task Code 20321 20323 20327 20335 20329 20331 20333 20339  Task Code 20341	Modulus of Rupture: Flexural Compression Strength Absorption: 5 Hour or 24 Hour Absorption (Boil): 1, 2 or 5 Hours Initial Rate of Absorption Efflorescence Cores: Compression Shear Test on Brick Cores: 2 Faces  Concrete Block, ASTM C140 Compression Absorption/Moisture Content/Oven Dry Density Linear Shrinkage (ASTM C428) Web and Face Shell Measurements Tension Test Core Compression Shear Test of Masonry Cores: 2 Faces Efflorescence Tests  Masonry Prisms, ASTM C1314 Compression Test: Composite Masonry Prisms Up To 8" x 16" Compression Test: Composite Masonry Prisms Larger Than 8" x 16" Prism Cord Modulus of Elasticity Prism Cord Modulus of Elasticity Prism Cord Modulus of Elasticity with Transverse	* * * * * * * * * * * * * * * * * * * *	95.00 60.00 65.00 95.00 95.00 75.00 95.00 95.00 8ate 90.00 90.00 250.00 160.00 75.00 75.00 Rate 190.00 250.00
75031 75032 75033 75036 75040 75024 75027 75028 75030 75042 75057 75048 75049 75050	HMA Mixing and Preparation HMA Mixing and Preparation with Aggregate Treatment Bulk Specific Gravity of Compacted Sample or Core: SSD (ASTM DZ726, CTM 308C) Bulk Specific Gravity of Compacted Sample or Core: Parafin Coated (ASTM D1188 and CTM 308A) Emulsion Residue, Evaporation (ASTM D244) Extraction: % Bitumen (ASTM D6307, CTM 382) Extraction: % Bitumen and Gradation (ASTM D5444, D6307, CTM 202, 382) Extraction: % Bitumen, Correction Factor (ASTM D6307, CTM 382) Chemical Extraction: % Bitumen and Sieve Analysis (ASTM D2172 Method A or B, ASTM D5444) Lab Tested Maximum Density: Hveem, 3 briquettes (ASTM D1561, D1188, CTM 304, 308) Hveem Stabilometer Test, Premixed, 3 briquettes (ASTM D1560, D1561, CTM 304, 366) Lab Tested Maximum Density: Marshall, 3 briquettes (ASTM D6926, D2726) Lab Tested Maximum Density: Marshall 6" Specimen, 3 briquettes (ASTM D5581, D2726) Lab Tested Maximum Density: Superpave Gyratory Compacted Briquette, SSD, 1 briquette (ASTM D8925, D2728) Lab Tested Maximum Density: Superpave Gyratory Compacted Briquette, SSD, 1 briquette (ASTM D8925, D2728)	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	125.00 175.00 175.00 55.00 80.00 160.00 215.00 350.00 245.00 215.00 215.00 215.00 210.00 90.00	Code 20301 20303 20305 20307 20309 20311 20313 20315  Task Code 20321 20323 20327 20335 20329 20331 20339  Task Code 20341 20343 20343	Modulus of Rupture: Flexural Compression Strength Absorption: 5 Hour or 24 Hour Absorption (Boil): 1, 2 or 5 Hours Initial Rate of Absorption Efflorescence Cores: Compression Shear Test on Brick Cores: 2 Faces  Concrete Block, ASTM C140 Compression Absorption/Molsture Content/Oven Dry Density Linear Shrinkage (ASTM C426) Web and Face Shell Measurements Tension Test Core Compression Shear Test of Masonry Cores: 2 Faces Efflorescence Tests  Masonry Prisms, ASTM C1314 Compression Test: Composite Masonry Prisms Up To 8" x 16" Compression Test: Composite Masonry Prisms Larger Than 8" x 16" Prism Cord Modulus of Elasticity	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	95.00 60.00 65.00 95.00 95.00 75.00 70.00 95.00 250.00 160.00 70.00 95.00 75.00 180.00 75.00 75.00 75.00 75.00
Code 75031 75032 75033 75036 75040 75024 75027 75028 75030 75042 75057 75048 75049	HMA Mixing and Preparation HMA Mixing and Preparation with Aggregate Treatment Bulk Specific Gravity of Compacted Sample or Core: SSD (ASTM D2726, CTM 308C) Bulk Specific Gravity of Compacted Sample or Core: Parafin Coated (ASTM D1188 and CTM 308A) Emulsion Residue, Evaporation (ASTM D244) Extraction: % Bitumen (ASTM D6307, CTM 382) Extraction: % Bitumen and Gradation (ASTM D5444, D6307, CTM 202, 382) Extraction: % Bitumen, Correction Factor (ASTM D6307, CTM 382) Chemical Extraction: % Bitumen and Sieve Analysis (ASTM D2172 Method A or B, ASTM D5444) Lab Tested Maximum Density: Hveem, 3 briquettes (ASTM D1561, D1188, CTM 304, 308) Hveem Stabilometer Test, Premixed, 3 briquettes (ASTM D1560, D1561, CTM 304, 366) Lab Tested Maximum Density: Marshall, 3 briquettes (ASTM D6926, D2726) Lab Tested Maximum Density: Marshall 6" Specimen, 3 briquettes (ASTM D5581, D2726) Lab Tested Maximum Density: Superpave Gyratory Compacted Briquette, SSD, 1 briquette (ASTM D6925, D2726) Lab Tested Maximum Density: Superpave Gyratory Compacted Briquette, Parafin, 1 briquette (ASTM D6925, D2726) Lab Tested Maximum Density: Superpave Gyratory Compacted Briquette, Parafin, 1 briquette (ASTM D188, D6925) Maximum Theoretical Specific Gravity [RICE]	\$\$ \$ \$\$\$ \$ \$ \$ \$ \$	125.00 175.00 175.00 55.00 80.00 160.00 215.00 245.00 215.00 215.00 215.00 215.00	Code 20301 20303 20305 20307 20309 20311 20313 20315  Task Code 20321 20323 20327 20335 20329 20331 20333 20339  Task Code 20341 20343	Modulus of Rupture: Flexural Compression Strength Absorption: 5 Hour or 24 Hour Absorption (Boil): 1, 2 or 5 Hours Initial Rate of Absorption Efflorescence Cores: Compression Shear Test on Brick Cores: 2 Faces  Concrete Block, ASTM C140 Compression Absorption/Moisture Content/Oven Dry Density Linear Shrinkage (ASTM C428) Web and Face Shell Measurements Tension Test Core Compression Shear Test of Masonry Cores: 2 Faces Efflorescence Tests  Masonry Prisms, ASTM C1314 Compression Test: Composite Masonry Prisms Up To 8" x 16" Compression Test: Composite Masonry Prisms Larger Than 8" x 16" Prism Cord Modulus of Elasticity Prism Cord Modulus of Elasticity Prism Cord Modulus of Elasticity with Transverse	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	95.00 60.00 65.00 95.00 95.00 75.00 70.00 95.00 250.00 160.00 70.00 95.00 75.00 180.00 75.00 75.00 75.00 75.00
Code 75031 75032 75033 75036 75040 75024 75027 75028 75030 75042 75057 75048 75049 75050 75052	HMA Mixing and Preparation HMA Mixing and Preparation with Aggregate Treatment HMA Mixing and Preparation with Aggregate Treatment Bulk Specific Gravity of Compacted Sample or Core: SSD (ASTM D2726, CTM 308C) Bulk Specific Gravity of Compacted Sample or Core: Parafin Coated (ASTM D1188 and CTM 308A) Emulsion Residue, Evaporation (ASTM D244) Extraction: % Bitumen (ASTM D6307, CTM 382) Extraction: % Bitumen and Gradation (ASTM D5444, D6307, CTM 202, 382) Extraction: % Bitumen, Correction Factor (ASTM D6307, CTM 382) Chemical Extraction: % Bitumen and Sieve Analysis (ASTM D6307, CTM 382) Chemical Extraction: % Bitumen and Sieve Analysis (ASTM D2172 Method A or B, ASTM D5444) Lab Tested Maximum Density: Hveem, 3 briquettes (ASTM D1561, D1188, CTM 304, 308) Hveem Stabilometer Test, Premixed, 3 briquettes (ASTM D1560, D1661, CTM 304, 366) Lab Tested Maximum Density: Marshall, 3 briquettes (ASTM D6926, D2726) Lab Tested Maximum Density: Superpave Gyratory Compacted Briquette, SSD, 1 briquette (ASTM D6925, D2726) Lab Tested Maximum Density: Superpave Gyratory Compacted Briquette, Parafin, 1 briquette (ASTM D1188, D6925) Maximum Theoretical Specific Gravity [RICE] (ASTM D2041, CTM 309)	** * * * * * * * * * *	125.00 175.00 175.00 55.00 80.00 160.00 215.00 350.00 245.00 215.00 215.00 215.00 210.00 90.00	Code 20301 20303 20305 20307 20309 20311 20313 20315  Task Code 20321 20323 20327 20335 20329 20331 20339  Task Code 20341 20343 20347	Modulus of Rupture: Flexural Compression Strength Absorption: 5 Hour or 24 Hour Absorption (Boll): 1, 2 or 5 Hours Initial Rate of Absorption Efflorescence Cores: Compression Shear Test on Brick Cores: 2 Faces  Concrete Block, ASTM C140 Compression Absorption/Molsture Content/Oven Dry Density Linear Shrinkage (ASTM C428) Web and Face Shell Measurements Tension Test Core Compression Shear Test of Masonry Cores: 2 Faces Efflorescence Tests  Masonry Prisms, ASTM C1314 Compression Test: Composite Masonry Prisms Up To 8" x 16" Compression Test: Composite Masonry Prisms Cord Modulus of Elasticity Prism Cord Modulus of Elasticity Prism Cord Modulus of Elasticity with Transverse Strain (for double-wythe specimen)	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	95.00 60.00 65.00 95.00 95.00 75.00 70.00 95.00 8ate 90.00 250.00 160.00 75.00 75.00 Rate 190.00 250.00 605.00
75031 75032 75033 75036 75040 75024 75027 75028 75030 75042 75057 75048 75049 75050	HMA Mixing and Preparation HMA Mixing and Preparation with Aggregate Treatment Bulk Specific Gravity of Compacted Sample or Core: SSD (ASTM D2726, CTM 308C) Bulk Specific Gravity of Compacted Sample or Core: Parafin Coated (ASTM D1188 and CTM 308A) Emulsion Residue, Evaporation (ASTM D244) Extraction: % Bitumen (ASTM D8307, CTM 382) Extraction: % Bitumen and Gradation (ASTM D5444, D6307, CTM 202, 382) Extraction: % Bitumen, Correction Factor (ASTM D6307, CTM 382) Chemical Extraction: % Bitumen and Sieve Analysis (ASTM D6172 Method A or B, ASTM D5444) Lab Tested Maximum Density: Hveem, 3 briquettes (ASTM D1561, D1188, CTM 304, 308) Hveem Stabilometer Test, Premixed, 3 briquettes (ASTM D1560, D1561, CTM 304, 366) Lab Tested Maximum Density: Marshall 3 briquettes (ASTM D6926, D2726) Lab Tested Maximum Density: Marshall 6" Specimen, 3 briquettes (ASTM D5581, D2726) Lab Tested Maximum Density: Superpave Gyratory Compacted Briquette, SSD, 1 briquette (ASTM D1932, D2728) Lab Tested Maximum Density: Superpave Gyratory Compacted Briquette, SSD, 1 briquette (ASTM D188, D8925) Maximum Theoretical Specific Gravity [RICE] (ASTM D2041, CTM 309) Marshall Stability and Flow, Cored Sample, each	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	125.00 175.00 175.00 55.00 80.00 160.00 215.00 350.00 245.00 215.00 215.00 215.00 210.00 90.00	Code 20301 20303 20305 20307 20309 20311 20313 20315  Task Code 20321 20323 20327 20335 20329 20331 20333 20339  Task Code 20341 20343 20347	Modulus of Rupture: Flexural Compression Strength Absorption: 5 Hour or 24 Hour Absorption (Boil): 1, 2 or 5 Hours Initial Rate of Absorption Efflorescence Cores: Compression Shear Test on Brick Cores: 2 Faces  Concrete Block, ASTM C140 Compression Absorption/Moisture Content/Oven Dry Density Linear Shrinkage (ASTM C428) Web and Face Shell Measurements Tension Test Core Compression Shear Test of Masonry Cores: 2 Faces Efflorescence Tests  Masonry Prisms, ASTM C1314 Compression Test: Composite Masonry Prisms Up To 8" x 16" Compression Test: Composite Masonry Prisms Larger Than 8" x 16" Prism Cord Modulus of Elasticity Prism Cord Modulus of Elasticity Prism Cord Modulus of Elasticity with Transverse Strain (for double-wythe specimen)	******	95.00 60.00 65.00 95.00 75.00 75.00 75.00 95.00  Rate 90.00 90.00 250.00 70.00 95.00  Rate 190.00 250.00 50.00 Rate 190.00
75031 75032 75033 75036 75040 75024 75027 75028 75042 75042 75057 75048 75049 75050 75052 75051 75066	HMA Mixing and Preparation HMA Mixing and Preparation with Aggregate Treatment Bulk Specific Gravity of Compacted Sample or Core: SSD (ASTM DZ726, CTM 308C) Bulk Specific Gravity of Compacted Sample or Core: Parafin Coated (ASTM D1188 and CTM 308A) Emulsion Residue, Evaporation (ASTM D30A) Extraction: % Bitumen (ASTM D6307, CTM 382) Extraction: % Bitumen and Gradation (ASTM D5444, D6307, CTM 202, 382) Extraction: % Bitumen, Correction Factor (ASTM D6307, CTM 382) Chemical Extraction: % Bitumen and Sieve Analysis (ASTM D2172 Method A or B, ASTM D5444) Lab Tested Maximum Density: Hveem, 3 briquettes (ASTM D1561, D1188, CTM 304, 308) Hveem Stabilometer Test, Premixed, 3 briquettes (ASTM D1561, D1188, CTM 304, 366) Lab Tested Maximum Density: Marshall, 3 briquettes (ASTM D5926, D2726) Lab Tested Maximum Density: Marshall 6" Specimen, 3 briquettes (ASTM D5581, D2726) Lab Tested Maximum Density: Marshall 6" Specimen, 3 briquettes (ASTM D5581, D2726) Lab Tested Maximum Density: Superpave Gyratory Compacted Briquette, SSD, 1 briquette (ASTM D5925, D2728) Lab Tested Maximum Density: Superpave Gyratory Compacted Briquette, Parafin, 1 briquette (ASTM D1982, D2728) Lab Tested Maximum Density: Superpave Gyratory Compacted Briquette, Parafin, 1 briquette (ASTM D1984, D6925) Maximum Theoretical Specific Gravity [RICE] (ASTM D2041, CTM 309) Marshall Stability and Flow, Cored Sample, each (ASTM D6927)	\$\$ \$ \$\$\$ \$ \$ \$ \$ \$ \$	125.00 175.00 175.00 55.00 80.00 160.00 215.00 215.00 215.00 215.00 215.00 215.00 210.00 80.00	Code 20301 20303 20305 20307 20309 20311 20313 20315  Task Code 20321 20323 20327 20335 20329 20331 20339  Task Code 20341 20343 20346 20347  Task Code 20347	Modulus of Rupture: Flexural Compression Strength Absorption: 5 Hour or 24 Hour Absorption (Boil): 1, 2 or 5 Hours Initial Rate of Absorption Efflorescence Cores: Compression Shear Test on Brick Cores: 2 Faces  Concrete Block, ASTM C140 Compression Absorption/Moisture Content/Oven Dry Density Linear Shrinkage (ASTM C428) Web and Face Shell Measurements Tension Test Core Compression Shear Test of Masonry Cores: 2 Faces Efflorescence Tests  Masonry Prisms, ASTM C1314 Compression Test: Composite Masonry Prisms Larger Than 8" x 16" Compression Test: Composite Masonry Prism Larger Than B" x 16" Prism Cord Modulus of Elasticity Prism Cord Modulus of Elasticity Strain (for double-wythe specimen)  Mortar and Grout Compression: 2" x 4" Mortar Cylinders (ASTM C780)	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	95.00 60.00 65.00 75.00 75.00 75.00 75.00 95.00  Rate 90.00 95.00 75.00 75.00 75.00  80.00 75.00  Rate 190.00 250.00 50.00 665.00  Rate 55.00
Code 75031 75032 75033 75036 75040 75024 75027 75028 75030 75042 75057 75048 75049 75050 75052	HMA Mixing and Preparation HMA Mixing and Preparation with Aggregate Treatment Bulk Specific Gravity of Compacted Sample or Core: SSD (ASTM D2726, CTM 308C) Bulk Specific Gravity of Compacted Sample or Core: Parafin Coated (ASTM D1188 and CTM 308A) Emulsion Residue, Evaporation (ASTM D308A) Extraction: % Bitumen (ASTM D6307, CTM 382) Extraction: % Bitumen and Gradation (ASTM D5444, D6307, CTM 202, 382) Extraction: % Bitumen, Correction Factor (ASTM D6307, CTM 382) Chemical Extraction: % Bitumen and Sieve Analysis (ASTM D2172 Method A or B, ASTM D5444) Lab Tested Maximum Density: Hveem, 3 briquettes (ASTM D1561, D1188, CTM 304, 308) Hveem Stabilometer Test, Premixed, 3 briquettes (ASTM D1560, D1561, CTM 304, 366) Lab Tested Maximum Density: Marshall, 3 briquettes (ASTM D6926, D2726) Lab Tested Maximum Density: Marshall 6" Specimen, 3 briquettes (ASTM D5581, D2726) Lab Tested Maximum Density: Superpave Gyratory Compacted Briquette, SSD, 1 briquette (ASTM D6925, D2726) Lab Tested Maximum Density: Superpave Gyratory Compacted Briquette, Parafin, 1 briquette (ASTM D6925, D2726) Lab Tested Maximum Density: Superpave Gyratory Compacted Briquette, Parafin, 1 briquette (ASTM D6925, D2726) Maximum Theoretical Specific Gravity [RICE] (ASTM D2041, CTM 309) Marshall Stability and Flow, Cored Sample, each (ASTM D6927) Marshall Stability and Flow, Premixed, 3 briquettes	** * * * * * * * * * *	125.00 175.00 175.00 55.00 80.00 160.00 215.00 350.00 245.00 215.00 215.00 215.00 210.00 90.00	Code 20301 20303 20305 20307 20309 20311 20313 20315  Task Code 20321 20323 20327 20335 20329 20331 20333 20339  Task Code 20341 20343 20347	Modulus of Rupture: Flexural Compression Strength Absorption: 5 Hour or 24 Hour Absorption (Boil): 1, 2 or 5 Hours Initial Rate of Absorption Efflorescence Cores: Compression Shear Test on Brick Cores: 2 Faces  Concrete Block, ASTM C140 Compression Absorption/Moisture Content/Oven Dry Density Linear Shrinkage (ASTM C426) Web and Face Shell Measurements Tension Test Core Compression Shear Test of Masonry Cores: 2 Faces Efflorescence Tests  Masonry Prisms, ASTM C1314 Compression Test: Composite Masonry Prisms Up To 8" x 16" Compression Test: Composite Masonry Prisms Larger Than 8" x 16" Prism Cord Modulus of Elasticity Prism Cord Modulus of Elasticity with Transverse Strain (for double-wythe specimen)  Mortar and Grout Compression: 2" x 4" Mortar Cylinders (ASTM C780)	******	95.00 60.00 65.00 95.00 75.00 75.00 75.00 95.00  Rate 90.00 90.00 250.00 70.00 95.00  Rate 190.00 250.00 50.00 Rate 190.00
Code 75031 75032 75033 75036 75040 75024 75027 75028 75030 75042 75057 75048 75049 75050 75052 75051 75066 75069	HMA Mixing and Preparation HMA Mixing and Preparation with Aggregate Treatment HMA Mixing and Preparation with Aggregate Treatment Bulk Specific Gravity of Compacted Sample or Core: SSD (ASTM D2726, CTM 308C) Bulk Specific Gravity of Compacted Sample or Core: Parafin Coated (ASTM D1188 and CTM 308A) Emulsion Residue, Evaporation (ASTM D244) Extraction: % Bitumen (ASTM D6307, CTM 382) Extraction: % Bitumen and Gradation (ASTM D5444, D6307, CTM 202, 382) Extraction: % Bitumen, Correction Factor (ASTM D6307, CTM 382) Chemical Extraction: % Bitumen and Sieve Analysis (ASTM D6307, CTM 382) Chemical Extraction: % Bitumen and Sieve Analysis (ASTM D2172 Method A or B, ASTM D5444) Lab Tested Maximum Density: Hveem, 3 briquettes (ASTM D1561, D1188, CTM 304, 308) Hveem Stabilometer Test, Premixed, 3 briquettes (ASTM D1560, D1561, CTM 304, 366) Lab Tested Maximum Density: Marshall, 3 briquettes (ASTM D6926, D2726) Lab Tested Maximum Density: Marshall 6" Specimen, 3 briquettes (ASTM D5581, D2726) Lab Tested Maximum Density: Superpave Gyratory Compacted Briquette, SSD, 1 briquette (ASTM D1892, D2726) Lab Tested Maximum Density: Superpave Gyratory Compacted Briquette, Parafin, 1 briquette (ASTM D1892, D2726) Maximum Theoretical Specific Gravity [RICE] (ASTM D6917, CTM 309) Marshall Stability and Flow, Cored Sample, each (ASTM D6926, D6927)	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	125.00 175.00 175.00 55.00 80.00 160.00 215.00 350.00 245.00 215.00 215.00 215.00 210.00 210.00 80.00	Code 20301 20303 20305 20307 20309 20311 20313 20315  Task Code 20321 20323 20327 20335 20329 20331 20339  Task Code 20341 20343 20346 20347  Task Code 20351	Modulus of Rupture: Flexural Compression Strength Absorption: 5 Hour or 24 Hour Absorption (Boll): 1, 2 or 5 Hours Initial Rate of Absorption Efflorescence Cores: Compression Shear Test on Brick Cores: 2 Faces  Concrete Block, ASTM C140  Compression Absorption/Moisture Content/Oven Dry Density Linear Shrinkage (ASTM C426) Web and Face Shell Measurements Tension Test Core Compression Shear Test of Masonry Cores: 2 Faces Efflorescence Tests  Masonry Prisms, ASTM C1314 Compression Test: Composite Masonry Prisms Up To 8" x 16" Compression Test: Composite Masonry Prism Larger Than 8" x 16" Prism Cord Modulus of Elasticity Prism Cord Modulus of Elasticity with Transverse Strain (for double-wythe specimen)  Mortar and Grout Compression: 2" x 4" Mortar Cylinders (ASTM C780)	*****	95.00 60.00 65.00 95.00 95.00 75.00 70.00 95.00 8ate 90.00 250.00 160.00 75.00 75.00 Rate 190.00 250.00 Rate 190.00 250.00 Rate
75031 75032 75033 75036 75040 75024 75027 75028 75042 75042 75057 75048 75049 75050 75052 75051 75066	HMA Mixing and Preparation HMA Mixing and Preparation with Aggregate Treatment Bulk Specific Gravity of Compacted Sample or Core: SSD (ASTM D2726, CTM 308C) Bulk Specific Gravity of Compacted Sample or Core: Parafin Coated (ASTM D188 and CTM 308A) Emulsion Residue, Evaporation (ASTM D244) Extraction: % Bitumen (ASTM D3907, CTM 382) Extraction: % Bitumen and Gradation (ASTM D5444, D6307, CTM 202, 382) Extraction: % Bitumen, Correction Factor (ASTM D6307, CTM 382) Chemical Extraction: % Bitumen and Sieve Analysis (ASTM D6172 Method A or B, ASTM D5444) Lab Tested Maximum Density: Hveem, 3 briquettes (ASTM D1561, D1188, CTM 304, 308) Hveem Stabilometer Test, Premixed, 3 briquettes (ASTM D1560, D1561, CTM 304, 366) Lab Tested Maximum Density: Marshali, 3 briquettes (ASTM D6926, D2726) Lab Tested Maximum Density: Marshali 6" Specimen, 3 briquettes (ASTM D5581, D2726) Lab Tested Maximum Density: Superpave Gyratory Compacted Briquette, SSD, 1 briquette (ASTM D188, D8925) Maximum Theoretical Specific Gravity [RICE] (ASTM D2041, CTM 309) Marshall Stability and Flow, Premixed, 3 briquettes (ASTM D6926, D6927) Marshall Stability and Flow, Premixed, 3 briquettes (ASTM D6926, D6927) Marshall Stability and Flow, Premixed, 3 briquettes	\$\$ \$ \$\$\$ \$ \$ \$ \$ \$ \$	125.00 175.00 175.00 55.00 80.00 160.00 215.00 215.00 215.00 215.00 215.00 215.00 210.00 80.00	Code 20301 20303 20305 20307 20309 20311 20313 20315  Task Code 20321 20323 20327 20335 20329 20331 20339  Task Code 20341 20343 20346 20347  Task Code 20351 20353	Modulus of Rupture: Flexural Compression Strength Absorption: 5 Hour or 24 Hour Absorption (Boil): 1, 2 or 5 Hours Initial Rate of Absorption Efflorescence Cores: Compression Shear Test on Brick Cores: 2 Faces  Concrete Block, ASTM C140 Compression Absorption/Moisture Content/Oven Dry Density Linear Shrinkage (ASTM C428) Web and Face Shell Measurements Tension Test Core Compression Shear Test of Masonry Cores: 2 Faces Efflorescence Tests  Masonry Prisms, ASTM C1314 Compression Test: Composite Masonry Prisms Up To 8" x 16" Compression Test: Composite Masonry Prisms Larger Than 8" x 16" Compression Test: Composite Masonry Prism Cord Modulus of Elasticity Prism Cord Modulus of Elasticity with Transverse Strain (for double-wythe specimen)  Mortar and Grout Compression: 2" x 4" Mortar Cylinders (ASTM C780) Compression: 3" x 3" x 6" Grout Prisms, Includes Trimming (ASTM C1019) Compression: 2" Cubes (ASTM C109)	* * * * * * * * * * * * * * * * * * * *	95.00 60.00 65.00 95.00 75.00 75.00 75.00 95.00  Rate 90.00 90.00 250.00 75.00  Rate 190.00 250.00 50.00  Rate 40.00 665.00  Rate 55.00 40.00 55.00
Code 75031 75032 75033 75036 75040 75024 75027 75028 75030 75042 75057 75048 75049 75050 75052 75051 75066 75069	HMA Mixing and Preparation HMA Mixing and Preparation with Aggregate Treatment HMA Mixing and Preparation with Aggregate Treatment Bulk Specific Gravity of Compacted Sample or Core: SSD (ASTM D2726, CTM 308C) Bulk Specific Gravity of Compacted Sample or Core: Parafin Coated (ASTM D1188 and CTM 308A) Emulsion Residue, Evaporation (ASTM D244) Extraction: % Bitumen (ASTM D6307, CTM 382) Extraction: % Bitumen and Gradation (ASTM D5444, D6307, CTM 202, 382) Extraction: % Bitumen, Correction Factor (ASTM D6307, CTM 382) Chemical Extraction: % Bitumen and Sieve Analysis (ASTM D6307, CTM 382) Chemical Extraction: % Bitumen and Sieve Analysis (ASTM D2172 Method A or B, ASTM D5444) Lab Tested Maximum Density: Hveem, 3 briquettes (ASTM D1561, D1188, CTM 304, 308) Hveem Stabilometer Test, Premixed, 3 briquettes (ASTM D1560, D1561, CTM 304, 366) Lab Tested Maximum Density: Marshall, 3 briquettes (ASTM D6926, D2726) Lab Tested Maximum Density: Marshall 6" Specimen, 3 briquettes (ASTM D5581, D2726) Lab Tested Maximum Density: Superpave Gyratory Compacted Briquette, SSD, 1 briquette (ASTM D1892, D2726) Lab Tested Maximum Density: Superpave Gyratory Compacted Briquette, Parafin, 1 briquette (ASTM D1892, D2726) Maximum Theoretical Specific Gravity [RICE] (ASTM D6917, CTM 309) Marshall Stability and Flow, Cored Sample, each (ASTM D6926, D6927)	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	125.00 175.00 175.00 55.00 80.00 160.00 215.00 350.00 245.00 215.00 215.00 215.00 210.00 210.00 80.00	Code 20301 20303 20305 20307 20309 20311 20313 20315  Task Code 20321 20323 20327 20335 20329 20331 20339  Task Code 20341 20343 20346 20347  Task Code 20351	Modulus of Rupture: Flexural Compression Strength Absorption: 5 Hour or 24 Hour Absorption (Boll): 1, 2 or 5 Hours Initial Rate of Absorption Efflorescence Cores: Compression Shear Test on Brick Cores: 2 Faces  Concrete Block, ASTM C140  Compression Absorption/Moisture Content/Oven Dry Density Linear Shrinkage (ASTM C426) Web and Face Shell Measurements Tension Test Core Compression Shear Test of Masonry Cores: 2 Faces Efflorescence Tests  Masonry Prisms, ASTM C1314 Compression Test: Composite Masonry Prisms Up To 8" x 16" Compression Test: Composite Masonry Prism Larger Than 8" x 16" Prism Cord Modulus of Elasticity Prism Cord Modulus of Elasticity with Transverse Strain (for double-wythe specimen)  Mortar and Grout Compression: 2" x 4" Mortar Cylinders (ASTM C780)	*****	95.00 60.00 65.00 95.00 75.00 70.00 95.00 8ate 90.00 250.00 160.00 75.00 Rate 190.00 250.00 665.00 Rate 40.00 665.00



Task

lask			D-4-
Code	Masonry Specimen Preparation	\$	Rate
20155	Cutting of Cubes or Prisms	Ф	75.00
Task			
Code	Fireproofing Tests		Rate
20401	Oven Dry Density (ASTM E605)	\$	70,00
Task Code	Gunite and Shotcrete Tests		Rate
20361	Core Compression Including Trimming (ASTM C42)	\$	75.00
20365	Compression: Cubes (Includes Saw Cutting)	\$	95.00
Task	Concrete Roof Fill: Gypsum, Vermiculite, Perlite,		
Code	Lightweight Insulating Concrete, Etc.		Rate
20371	Compression Test (ASTM C495 and C472)	\$	65.00
20373	Air Dry Density (ASTM C472)	\$ \$	50.00 75.00
20379	Oven Dry Density (ASTM C495)	φ	75.00
Task			
Code	Reinforcing Steel, ASTM A615, A706		Rate
20501	Tensile Test: # 11 or Smaller	\$	65.00
20503	Bend Test: # 11 or Smaller	\$	60.00
20504	Bend Test #14 or #18	\$	375.00
20505	Tensile Test: #14	\$	260.00
20507	Tensile Test: # 18	\$	360.00
Task	Reinforcing Steel - Welded or Coupled		
Code	Specimens		Rate
20521	Tensile Test: Welded/Coupled #11 and Smaller	\$	75.00
20523	Tensile Test: Welded/Coupled #14	\$	270,00
20525	Tensile Test: Welded/Coupled #18	\$	395.00
20529	Weld: Macroetch	\$ \$	90,00
20531 20532	Slippage Test - Caltrans (CTM 670) Tensile Test: Welded Hoops #11 and Smaller	Ф \$	150.00
	·		
Task			D-4-
Code 20601	Metal and Steel Testing	\$	70.00
20603	Tensile Strength: Up to 100K Pounds (Each) Tensile Strength: Up to 200K Pounds (Each)	\$	80.00
20605	Tensile Strength: Up to 300K Pounds (Each)	\$	100.00
20607	Tensile Strength: Up to 400K Pounds (Each)	\$	150.00
20609	Tensile Strength: 400K to 600K Pounds (Each)	\$	360,00
20611	Tensile Strength: Stress-Strain Percent Offset	\$	200.00
20545	Weld: Macroetch	\$	90.00
20547	Weld: Fracture	\$	45.00
20615	Bend Test	\$	70.00
20617	Flattening Test	\$	70.00
20619	Hardness Test (ASTM E18)	\$	80,00
20630	Bolt: Axial Tensile Test (Up to 7/8" diameter)	\$ \$	55.00
20631	Bolt: Wedge Tensile Test (Up to 7/8" diameter)	\$ \$	70.00 75.00
20632	Bolt: Axial Tensile Test (Greater than 7/8" up to 1" diameter)	Ф	10,00
20633	Bolt: Wedge Tensile Test (Greater than 7/8"	\$	95,00
	up to 1" diameter)		
20634	Bolt: Axial Tensile Test (Greater than 1" diameter)		Quotation
20635	Bolt: Wedge Tensile Test (Greater than 1" diameter)		Quotation
20636	Bolt: Proof Load Test (Up to 7/8")	\$	80.00
20637	Bolt: Proof Load Test (Greater than 7/8" up to 1" diameter)	\$	100.00
20638	Bolt: Proof Load Test (Greater than 1")		Quotation
20639	Nut: Proof Load Test (Up to 7/8")	\$	60.00
20640 20641	Nut: Proof Load Test (Greater than 7/8" up to 1" diameter) Nut: Proof Load Test (Greater than 1")	\$	80.00 Quotation
2004 I	HAR 11001 FORG 1631 (Ologioi Bidit 1 )	`	~~~~
Task			
Code	Chemical Testing of Metal and Steel		Rate
80170	Steel Chemical Analysis	\$	175.00
80173	Weight of Galvanized Coating (ASTM A90)	\$	80.00
80176	Epoxy Coating Thickness	\$	90.00

Task Code         Machining and Preparation of Tensile and Bend Sample: Carbon Steel         Rate           20751         Machinist: Initial Preparation from Mock-up, Etc. (Per Hour)         \$ 105.00           20753         Sawcut to Overall Width (Per 0.5" Thickness or Fraction Thereof)         \$ 55.00           20755         Machine to Test Configuration: Milled Specimens (Per 0.5" Thickness or Fraction Thereof)         \$ 145.00           20757         Machine to Test Configuration: Turned Specimens (Per 0.5" Thickness or Fraction Thereof)         \$ 95.00           20759         Prepare Subsize Specimens (Per 0.5" Thickness or Fraction Thereof)         \$ 95.00           20759         Prepare Subsize Specimens (Per 0.5" Thickness or Fraction Thereof)         \$ 95.00           20750         Charpy Impact         Rate           20621         Charpy Impact Ambient Temperature         \$ 95.00           20623         Charpy Impact Reduced Temperature         \$ 125.00           Task Code         Machining of Charpy Samples: Carbon Steel         Rate           20780         Cutting and Milling (Per 0.5" or Fraction Thereof)         \$ 85.00           20783         Final Machining to Sample Configuration         \$ 95.00           Task         Prestressing Wires and Tendons,         Rate
20751         Machinist: Initial Preparation from Mock-up, Etc. (Per Hour)         \$ 105.00 (Per Hour)           20753         Sawcut to Overall Width (Per 0.5" Thickness or Fraction Thereof)         \$ 55.00 Fraction Thereof)           20755         Machine to Test Configuration: Milled Specimens         \$ 75.00 Machine to Test Configuration: Turned Specimens         \$ 145.00 (Per 0.5" Thickness or Fraction Thereof)           20759         Prepare Subsize Specimens (Per 0.5" Thickness or Fraction Thereof)         \$ 95.00 or Fraction Thereof)           Task         Code         Charpy Impact         Rate           20621         Charpy Impact Ambient Temperature         \$ 95.00 (Party Impact Reduced Temperature)         \$ 125.00           Task         Code         Machining of Charpy Samples: Carbon Steel         Rate           20780         Cutting and Milling (Per 0.5" or Fraction Thereof)         \$ 85.00 (Party Impact Reduced Temperature)           20781         Final Machining to Sample Configuration         \$ 95.00 (Party Impact Reduced Temperature)           20780         Cutting and Milling (Per 0.5" or Fraction Thereof)         \$ 85.00 (Party Impact Reduced Temperature)           20781         Final Machining to Sample Configuration         \$ 95.00 (Party Impact Reduced Temperature)
20753         Sawcut to Overall Width (Per 0.5" Thickness or Fraction Thereof)         \$ 55.00           20755         Machine to Test Configuration: Milled Specimens (Per 0.5" Thickness or Fraction Thereof)         \$ 75.00           20757         Machine to Test Configuration: Turned Specimens (Per 0.5" Thickness or Fraction Thereof)         \$ 95.00           20759         Prepare Subsize Specimens (Per 0.5" Thickness or Fraction Thereof)         \$ 95.00           Task         Code         Charpy Impact         Rate           20821         Charpy Impact Ambient Temperature         \$ 95.00           20623         Charpy Impact Reduced Temperature         \$ 125.00           Task         Machining of Charpy Samples: Carbon Steel         Rate           20780         Cutting and Milling (Per 0.5" or Fraction Thereof)         \$ 85.00           20783         Final Machining to Sample Configuration         \$ 95.00           Task         Prestressing Wires and Tendons,
20755         Machine to Test Configuration: Milled Specimens         \$ 75.00           20757         Machine to Test Configuration: Turned Specimens (Per 0.5" Thickness or Fraction Thereof)         \$ 145.00           20759         Prepare Subsize Specimens (Per 0.5" Thickness or Fraction Thereof)         \$ 95.00           Task           Code         Charpy Impact         Rate           20621         Charpy Impact Ambient Temperature         \$ 95.00           20823         Charpy Impact Reduced Temperature         \$ 125.00           Task           Code         Machining of Charpy Samples: Carbon Steel         Rate           20780         Cutting and Milling (Per 0.5" or Fraction Thereof)         \$ 85.00           20783         Final Machining to Sample Configuration         \$ 95.00           Task         Prestressing Wires and Tendons,
20757         Machine to Test Configuration: Turned Specimens (Per 0.5" Thickness or Fraction Thereof)         \$ 145.00           20759         Prepare Subsize Specimens (Per 0.5" Thickness or Fraction Thereof)         \$ 95.00           Task         Code         Charpy Impact         Rate           20621         Charpy Impact Ambient Temperature         \$ 95.00           20623         Charpy Impact Reduced Temperature         \$ 125.00           Task         Code         Machining of Charpy Samples: Carbon Steel         Rate           20780         Cutting and Milling (Per 0.5" or Fraction Thereof)         \$ 85.00           20783         Final Machining to Sample Configuration         \$ 95.00           Task         Prestressing Wires and Tendons,
Per 0.5" Thickness or Fraction Thereof)   20759   Prepare Subsize Specimens (Per 0.5" Thickness or Fraction Thereof)
20759         Prepare Subsize Specimens (Per 0.5" Thickness or Fraction Thereof)         95.00           Task Code Charpy Impact         Rate           20621         Charpy Impact Ambient Temperature         \$ 95.00           20623         Charpy Impact Reduced Temperature         \$ 125.00           Task Code Machining of Charpy Samples: Carbon Steel         Rate           20780         Cutting and Milling (Per 0.5" or Fraction Thereof)         \$ 85.00           20783         Final Machining to Sample Configuration         \$ 95.00           Task         Prestressing Wires and Tendons,
Task         Rate           Code         Charpy Impact         Rate           20621         Charpy Impact Ambient Temperature         \$ 95.00           20623         Charpy Impact Reduced Temperature         \$ 125.00           Task           Code         Machining of Charpy Samples: Carbon Steel         Rate           20780         Cutting and Milling (Per 0.5" or Fraction Thereof)         \$ 85.00           20783         Final Machining to Sample Configuration         \$ 95.00           Task         Prestressing Wires and Tendons,
Code         Charpy Impact         Rate           20821         Charpy Impact Ambient Temperature         \$ 95.00           20623         Charpy Impact Reduced Temperature         \$ 125.00           Task         Code         Machining of Charpy Samples: Carbon Steel         Rate           20780         Cutting and Milling (Per 0.5" or Fraction Thereof)         \$ 85.00           20783         Final Machining to Sample Configuration         \$ 95.00           Task         Prestressing Wires and Tendons,
20621         Charpy Impact Ambient Temperature         \$ 95.00           20623         Charpy Impact Reduced Temperature         \$ 125.00           Task           Code         Machining of Charpy Samples: Carbon Steel         Rate           20780         Cutting and Milling (Per 0.5" or Fraction Thereof)         \$ 85.00           20783         Final Machining to Sample Configuration         \$ 95.00           Task         Prestressing Wires and Tendons,
20623 Charpy Impact Reduced Temperature \$ 125.00  Task Code Machining of Charpy Samples: Carbon Steel Rate 20780 Cutting and Milling (Per 0.5" or Fraction Thereof) \$ 85.00 20783 Final Machining to Sample Configuration \$ 95.00  Task Prestressing Wires and Tendons,
Task Code Machining of Charpy Samples: Carbon Steel Rate 20780 Cutting and Milling (Per 0.5" or Fraction Thereof) \$ 85.00 20783 Final Machining to Sample Configuration \$ 95.00  Task Prestressing Wires and Tendons,
Code         Machining of Charpy Samples: Carbon Steel         Rate           20780         Cutting and Milling (Per 0.5" or Fraction Thereof)         \$ 85.00           20783         Final Machining to Sample Configuration         \$ 95.00           Task         Prestressing Wires and Tendons,
20780 Cutting and Milling (Per 0.5" or Fraction Thereof) \$ 85.00 20783 Final Machining to Sample Configuration \$ 95.00  Task Prestressing Wires and Tendons,
20783 Final Machining to Sample Configuration \$ 95.00  Task Prestressing Wires and Tendons,
Task Prestressing Wires and Tendons,
Code (ASTM A416) Rate
20701 Stress-Strain Analysis: Wire or Strands \$ 200.00
(Including Chart and Percent Offset)
20703 Tensile Test Only \$ 145.00 20705 Tendons Quotation
20705 Tendons Quotation
Task Polymer Matrix Composite Materials
Code (Fiberwrap) Rate
20706 Tensile Strength – Set of 5 Specimens/batch/ \$ 1,350.00
m-1 1-11-11
direction (ASTM D3039)
direction (ASTM D3039) 20707   Tensile Strength – Additional Specimens
direction (ASTM D3039)   20707   Tensile Strength – Additional Specimens   \$ 250.00     (ASTM D3039)
direction (ASTM D3039)   20707   Tensile Strength – Additional Specimens (ASTM D3039)   20708   Heating Chamber Time – Per 24 hr period   \$ 95.00
direction (ASTM D3039)   20707   Tensile Strength – Additional Specimens   \$ 250.00 (ASTM D3039)   20708   Heating Chamber Time – Per 24 hr period   \$ 95.00   Task   Calibration Services and Universal Machine
direction (ASTM D3039)   20707   Tensile Strength – Additional Specimens   \$ 250.00 (ASTM D3039)     20708   Heating Chamber Time – Per 24 hr period   \$ 95.00     Task   Calibration Services and Universal Machine   Code   Usage   Rate
direction (ASTM D3039)   20707   Tensile Strength – Additional Specimens (ASTM D3039)   20708   Heating Chamber Time – Per 24 hr period \$ 95.00   Task   Calibration Services and Universal Machine Usage Rate   Quotation
direction (ASTM D3039)   20707   Tensile Strength – Additional Specimens   \$ 250.00 (ASTM D3039)     20708   Heating Chamber Time – Per 24 hr period   \$ 95.00     Task   Calibration Services and Universal Machine   Code   Usage   Rate
direction (ASTM D3039)   20707   Tensile Strength – Additional Specimens (ASTM D3039)   20708   Heating Chamber Time – Per 24 hr period   \$95.00   Task   Calibration Services and Universal Machine   Usage   Rate
direction (ASTM D3039)   20707   Tensile Strength – Additional Specimens   \$ 250.00 (ASTM D3039)   20708   Heating Chamber Time – Per 24 hr period   \$ 95.00    Task   Calibration Services and Universal Machine   Usage   Rate   Code   Usage   Calibration Services   Cuotation   Calibration Verification Services   Cuotation   Calibration   Calibration
direction (ASTM D3039)   20707   Tensile Strength – Additional Specimens   \$ 250.00 (ASTM D3039)   20708   Heating Chamber Time – Per 24 hr period   \$ 95.00    Task   Calibration Services and Universal Machine   Code   Usage   Rate
direction (ASTM D3039)   20707   Tensile Strength – Additional Specimens   \$ 250.00 (ASTM D3039)     20708   Heating Chamber Time – Per 24 hr period   \$ 95.00     Task   Calibration Services and Universal Machine   Usage   Rate     20801   Calibration/Verification Services   Quotation     20803   Universal Test Machine Usage (Per Hour)   \$ 400.00     Ceramic Tile Testing Division   Rate     The Ceramic Tile Institute of America (CTIOA) and Twining worked together to advance and
direction (ASTM D3039) 20707 Tensile Strength – Additional Specimens \$ 250.00 (ASTM D3039) 20708 Heating Chamber Time – Per 24 hr period \$ 95.00  Task Calibration Services and Universal Machine Usage Rate Code Usage Rate C0801 Calibration/Verification Services Cuotation 20803 Universal Test Machine Usage (Per Hour) \$ 400.00  Ceramic Tile Testing Division Rate The Ceramic Tile Institute of America (CTIOA) and Twining worked together to advance and develop technology designed to enhance the quality of materials and workmanship in the ceramic tile industry. A separate schedule of fees for these services is available upon request.
direction (ASTM D3039)  20707 Tensile Strength – Additional Specimens \$ 250.00 (ASTM D3039)  20708 Heating Chamber Time – Per 24 hr period \$ 95.00  Task Calibration Services and Universal Machine Usage Rate  20801 Calibration/Verification Services Quotation  20803 Universal Test Machine Usage (Per Hour) \$ 400.00  Ceramic Tile Testing Division Rate The Ceramic Tile Institute of America (CTIOA) and Twining worked together to advance and develop technology designed to enhance the quality of materials and workmanship in the ceramic tile industry. A separate schedule of fees for these services is available upon request.  Cylic and Fatigue Testing Programs on Special Products/Parts Quotation
direction (ASTM D3039)  20707 Tensile Strength – Additional Specimens \$250.00 (ASTM D3039)  20708 Heating Chamber Time – Per 24 hr period \$95.00  Task Calibration Services and Universal Machine Usage Rate  20801 Calibration/Verification Services Quotation  20803 Universal Test Machine Usage (Per Hour) \$400.00  Ceramic Tile Testing Division Rate The Ceramic Tile Institute of America (CTIOA) and Twining worked together to advance and develop technology designed to enhance the quality of materials and workmanship in the ceramic tile industry. A separate schedule of fees for these services is available upon request.  Cylic and Fatigue Testing Programs on Special Products/Parts Quotation Engineering and Technical supports/Design of Prototypes and Special
Description   Carimon
direction (ASTM D3039)  20707 Tensile Strength – Additional Specimens \$250.00 (ASTM D3039)  20708 Heating Chamber Time – Per 24 hr period \$95.00  Task Calibration Services and Universal Machine Usage Rate  20801 Calibration/Verification Services Quotation  20803 Universal Test Machine Usage (Per Hour) \$400.00  Ceramic Tile Testing Division Rate The Ceramic Tile Institute of America (CTIOA) and Twining worked together to advance and develop technology designed to enhance the quality of materials and workmanship in the ceramic tile industry. A separate schedule of fees for these services is available upon request.  Cylic and Fatigue Testing Programs on Special Products/Parts Quotation Engineering and Technical supports/Design of Prototypes and Special
direction (ASTM D3039) 20707 Tensile Strength – Additional Specimens \$ 250.00 (ASTM D3039) 20708 Heating Chamber Time – Per 24 hr period \$ 95.00  Task Calibration Services and Universal Machine Usage Rate Code Usage Rate C0801 Calibration/Verification Services Cuotation 20803 Universal Test Machine Usage (Per Hour) \$ 400.00  Ceramic Tile Testing Division Rate The Ceramic Tile Institute of America (CTIOA) and Twining worked together to advance and develop technology designed to enhance the quality of materials and workmanship in the ceramic tile industry. A separate schedule of fees for these services is available upon request.  Cylic and Fatigue Testing Programs on Special Products/Parts Quotation Engineering and Technical supports/Design of Prototypes and Special Test Set-Up Quotation Fastener/Coupling Full Testing Program Per New Regulations: Tension,
direction (ASTM D3039)  20707 Tensile Strength – Additional Specimens \$ 250.00 (ASTM D3039)  20708 Heating Chamber Time – Per 24 hr period \$ 95.00  Task Calibration Services and Universal Machine Usage Calibration Services Quotation 20803 Universal Test Machine Usage (Per Hour) \$ 400.00  Ceramic Tile Testing Division Rate  The Ceramic Tile Institute of America (CTIOA) and Twining worked together to advance and develop technology designed to enhance the quality of materials and workmanship in the ceramic tile industry. A separate schedule of fees for these services is available upon request.  Cylic and Fatigue Testing Programs on Special Products/Parts Quotation Engineering and Technical supports/Design of Prototypes and Special Test Set-Up Quotation Fastener/Coupling Full Testing Program Per New Regulations: Tension, Tension/Bend, Shear, Double Shear, 8 Compressions Fliberglass/Composite Materials Field Testing Program (ASTM D1143 D1242, D2584, D4085, D4476, D4923, D7901, D7921, and D732) Quotation
direction (ASTM D3039)  20707 Tensile Strength – Additional Specimens \$ 250.00 (ASTM D3039)  20708 Heating Chamber Time – Per 24 hr period \$ 95.00  Task Calibration Services and Universal Machine Usage Rate  Code Usage Rate  20801 Calibration/Verification Services Cuotation  20803 Universal Test Machine Usage (Per Hour) \$ 400.00  Ceramic Tile Testing Division Rate  The Ceramic Tile Institute of America (CTIOA) and Twinling worked together to advance and develop technology designed to enhance the quality of materials and workmanship in the ceramic tile industry. A separate schedule of fees for these services is available upon request.  Cylic and Fatigue Testing Programs on Special Products/Parts Quotation Engineering and Technical supports/Design of Prototypes and Special Test Set-Up  Fastener/Coupling Full Testing Program Per New Regulations: Tension, Tension/Bend, Shear, Double Shear, 8 Compressions Quotation Fiberglass/Composite Materials Field Testing Program (ASTM D1143 D1242, D2584, D4685, D4476, D4923, D7901, D7921, and D732) Quotation Field Testing of Structural Elements Quotation
direction (ASTM D3039)  20707 Tensile Strength – Additional Specimens \$ 250.00 (ASTM D3039)  20708 Heating Chamber Time – Per 24 hr period \$ 95.00  Task Calibration Services and Universal Machine Usage Rate 20801 Calibration/Verification Services Quotation 20803 Universal Test Machine Usage (Per Hour) \$ 400.00  Ceramic Tile Testing Division Rate The Ceramic Tile Institute of America (CTIOA) and Twining worked together to advance and develop technology designed to enhance the quality of materials and workmanship in the ceramic tile industry. A separate schedule of fees for these services is available upon request.  Cylic and Fatigue Testing Programs on Special Products/Parts Quotation Engineering and Technical supports/Design of Prototypes and Special Test Set-Up Quotation Fastener/Coupling Full Testing Program Per New Regulations: Tension, Tension/Bend, Shear, Double Shear, 8 Compressions Quotation Fiberglass/Composite Materials Field Testing Program (ASTM D1143 D1242, D2584, D4065, D4476, D4923, D7901, D7921, and D732) Quotation In-Place Shear Testing Quotation Quotation
direction (ASTM D3039)  20707 Tensile Strength – Additional Specimens \$ 250.00 (ASTM D3039)  20708 Heating Chamber Time – Per 24 hr period \$ 95.00  Task Calibration Services and Universal Machine Usage Rate  Code Usage Rate  20801 Calibration/Verification Services Cuotation  20803 Universal Test Machine Usage (Per Hour) \$ 400.00  Ceramic Tile Testing Division Rate  The Ceramic Tile Institute of America (CTIOA) and Twinling worked together to advance and develop technology designed to enhance the quality of materials and workmanship in the ceramic tile industry. A separate schedule of fees for these services is available upon request.  Cylic and Fatigue Testing Programs on Special Products/Parts Quotation Engineering and Technical supports/Design of Prototypes and Special Test Set-Up  Fastener/Coupling Full Testing Program Per New Regulations: Tension, Tension/Bend, Shear, Double Shear, 8 Compressions Quotation Fiberglass/Composite Materials Field Testing Program (ASTM D1143 D1242, D2584, D4685, D4476, D4923, D7901, D7921, and D732) Quotation Field Testing of Structural Elements Quotation



#### **General Conditions**

NOTE: Field inspection work conditions are established by contract with Operating Engineers, Local 12.

NOTE: For projects subject to a Project Labor Agreement (PLA), if terms/conditions of the PLA are more restrictive those terms/conditions will apply.

Minimum Charges (Inspection and Technician Personnel Only - Other Personnel Charged on Portal to Portal Basis)

2-Hour Minimum: Inspector arrives at jobsite, no work to perform.

4-Hour Minimum: 1 to 4 hours of inspection

8-Hour Minimum: Over 4 to 8 hours of inspection