State of Georgia County of Hall

Attachment A

QA/QC Engineering & Construction Testing Annual Contract

March 26, 2025

Whereas, the Contractor and the County have agreed to a change in the contract prices and have recorded them below, and have both agreed to their rates, the prices associated with this contract are hereby changed upon approval of the County:

A 5% inflation increase in pricing is provided below		
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Exhibit C

Mandatory Cost Proposal Worksheet

IFB #010-44

Company Na	me: United Consulting Group, Ltd. (dba United C	onsulting)
Bidder's Nan	ne: Reza Abree, P.E CEO/President	
Bidder's Sig	nature:	
Date: 03/31/20	25	
Fee and Rate Schedul	e:	

hereby that the foll Scope of Work as	the Consultant's preparation of the Cost Proposal, owing Fee and Rate Schedule was the basis for the set forth in the Invitation for Bid. Furthermore, it is tate Schedule will be the basis for any additional set.	ne Cost Proposal to provide the also understood and agreed
-	ring Service Rates:	
_	ring Services:	
	Geologist, per hour	\$189.00
	ral Engineer, P.E., per hour	\$189.00
	chnical Engineer, P.E. per hour	\$ 189.00
	nmental Engineer, P.E., per hour	\$ 189.00
	ngineer, per hour	\$ 116.00
	Engineer/Project Manager, P.E., per hour	\$ 189.00
	Engineer/Senior Project Manager, P.E., per hour	\$ <u>221.00</u>
	Engineer/Division Manager, P.E., per hour	\$ <u>226.00</u>
	ingineer/Principal, P.E. per hour	\$ <u>278.00</u>
10. CAD C	perator/Draftsperson, per hour	\$ 110.00
B. Technici	an Services:	
1. Chief	Engineering Technician, per hour	<u>\$116.00</u>
2. Metals	Technician/Inspector, per hour	\$ <u>116.00</u>
3. Concr	ete Technician/Inspector, per hour	\$ <u>79</u> .00
4. Soils 7	echnician/Inspector, per hour	\$ 79.00
5. Enviro	nmental Technician/Inspector, per hour	\$ 79.00
6. Aspha	It Technician/Inspector, per hour	\$ 100.00
7. Regist	ered Roof Observer (by the Roof	
Consu	tants Inst.), per hour	\$ <u>189.00</u>
8. Regist	ered Roof Consultant, per hour	\$ 189.00
9 Gener	al Engineering Technician/Inspector, per hour	\$ 116.00

\$ 189.00

10. Certified Industrial Hygienist, per hour

	Secretarial, per hour	\$ <u>74.00</u>
		ions or evaluations in conjunction with any of the charged at the Basic Engineering Service Rates. not listed shall be charged at cost.
2.	Soils:	:
	A. Field Services: . Field density tests either by drive cylin Nuclear gauge, per hour	inder, and cone or \$_79.00
	 B. Laboratory Services: 1. Standard Compaction Test, AST T-99 including rough plots and g on base rock. Method D does not (a) Method A (4" mold), per test (b) Method B, C or D (6" mold), (c) Standard Proctor, per test 	rain size curves except ot include grain size. \$ <u>142.00</u>
	 Modified Compaction Test, AST! T-180 including rough plots and base rock. Method D does not (a) Method A (4" mold), per test (b) Method B, C or D (6" mold) (c) Standard Proctor, per test 	grain size curves except include grain size. st \$ 168.00
	 CBR at optimum moisture conter compaction test, ASTM D-1883 plot of compaction and CBR cu 	or AASHTO T-193 with
	4. CBR, Corps of Engineers Metho	d, per each \$ <u>651.00</u>
	5. Natural moisture content, per ea	ch \$ <u>23.00</u>
	6 Atterberg limits, per each	\$ <u>100.00</u>
	7. Grain size, per each	\$ <u>168.00</u>
	8 Washed 200, per each	\$ 147.00
	9. Washed 200 + Hydrometer, per e	each \$ <u>168,00</u>
	10. Consolidation Test:(a) Undisturbed sample, per each(b) Remolded sample, per each	\$651.00 \$746.00

C. Clerical Services:

B. Laboratory Services Asphaltic Materials and Tests

	1.	Asphaltic Concrete Mix Design		
		(a) Marshall method, per design	\$ 121.00	
		(b) Hubbard – field method, per design, two inch	\$ 252.00	
		(c) Hubbard – field method, per design, six inch	\$ 299.00	
	2.	Bitumen content only, per test	\$ 173.00	
	3.		\$ 194.00	
	4.		•	
		(a) Already mixed, per test	\$ 84.00	
		(b) Not already mixed, per test	\$ <u>173.00</u>	
	5.	Hubbard – field stability, samples F.O.B. laboratory		
		(a) Three specimens, two inches	\$ <u>142.00</u>	
		(b) Three specimens, six inches	\$ 194.00	
	6.	Marshall Method Stability, three specimens	\$ <u>173.00</u>	
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5. Concr	ete a	and Cement:		
A	. Fi	eld Services:		
	1.	Concrete quality control inspection and testing		
		(including, but not limited to, visual observations,		
		slump, temperature and air entrainment testing),		
		ASTM C-143	\$ <u>79.00</u>	
		Cylinders (3 specimens per set), ASTM C-39, per set	\$ <u>53.00</u>	
	3.	Reserve cylinders, per each	\$ <u>16.00</u>	
	4.	and a suppose		
		pre-cast yards, concrete product plants, construction		
		sites and concrete structures shall be charged at the		
	_	Basic Engineering Service Rates plus testing at cost.	\$	At Cost
	6.	Cylinders made by others shall be picked up and		
•		delivered to the laboratory on a time and travel charge		
		basis at the Basic Engineering Service Rates. A charge		
		of \$24 per case of 24 plastic cylinder molds will be	\$ 137.00	
	-	accessed when cylinders are made by others.	-	
	7.	Non-Destructive inspection and testing of concrete produc		
		and structures, including failures, and flexural testing of o		
		beams shall be charged at the Basic Engineering Service	e Kates,	A4 O4
	0	plus velocity attenuation equipment charged at cost.	\$	At Cost
	Ö.	Concrete Coring:	e 252.00	
		(a) Two-man crew plus machine, per hour	\$ <u>252.00</u>	
		(b) Machine only, per hour (rental)	\$ <u>116.00</u>	
		(c) Compressive strength test, each	\$ <u>47.00</u>	

B. Laboratory Services:

1.	Concrete Materials:	
	(a) Sieve Analysis, Dry ASTM C-136, per each	\$ <u>63.00</u>
	(b) Finer than No. 200 Sieve, ASTM C-117, per each	\$ 63.00
	(c) Specific gravity, ASTM C-127 or C-126, coarse	
	fine, per each	\$ 168.00
	(d) Absorption, ASTM C-127 or C-128, coarse,	
	per each	\$ <u>63.00</u>
	(e) Absorption, ASTM C-127 or C-128, fine,	
	per each	\$ 63.00
	(f) Unit Weight, ASTMA C-29, per each	\$63.00
	(g) Organic impurities (Calorimetric) ASTM C-40, each	\$ <u>196.00</u>
	(h) Effect of organic impurities, ASTM C-87, per each	\$ 196.00
	(i) Clay lumps in aggregate, AASHTO T-112, each	\$ 116.00
	(j) Soft particles in aggregate, ASDTM C-238, each	\$ 121.00
	(k) Friable particles in aggregate, ASTM C-142, each	\$ 121.00
	(I) Abrasion (Los Angeles Rattler), ASTM C-131, each	\$ 189.00
	(m) Preparation of sample for abrasion test, if crushed,	
	per each	\$ 152.00
	(n) Staining Test, light weight aggregate, ASTM C-641	\$ 189.00
	(o) Loss an ignition, light weight aggregate	\$ 126.00
	(p) Sulfate soundness, Sodium of ASTM-88 five (5) cycle. Each additional 5 cycles	or iviagnesium,
	without loss determination, per each.	\$ 357.00
	(q) Potential Alkali Reactivity, per each	\$ 1,029.00
	7.1	-
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2.	Mix Verifications:	
	(a) Initial mix, including basis teat of fine and coarse	
	aggregate, six confirmatory cylinders, per mix	\$ <u>284.00</u>
	(b)_Additional mixes, same aggregate, six confirmatory	
	cylinders, per mix	\$ <u>142.00</u>
	(c) Flexural strength mix six (6) test beams including	
	tests of aggregate, per mix	\$ <u>420.00</u>
	(d) Additional mixes, six (6) test beams, some	
	aggregate, per mix	\$ <u>420.00</u>
	(e) Light weight aggregate mixes, add to above, each	\$ 58.00
	(f) Mix, no confirmatory tests (calculated)	\$ 58.00
	(g) Mix designs, applicable hourly rates	\$ <u>116.00</u>
3.	Testing of Cylinders and Beams:	
	(a) Cylinders compressive strength, including curing,	
	ASTM C-39 per each	\$ <u>18.00</u>
	(b) Reserves, not tested, including curing, per each	\$ 18.00
	(c) Splitting Test, ASTM C-496, per each	\$ 89.00
	(d) Beams, per break, ASTM C-78, per each	\$ 39.00

Note: Engineering, consultation, evaluation and preparation of samples for testing in conjunction with any above lab testing services shall be charged at the Basic Engineering Services Rate.

6. Block, Brick, Tile, Pipe:

A. Field Services: 1. Inspection and testing at manufacturer's plant, or in the field

shall be charged at Basic Engineering Service Rates plus testing at cost.

Mortar and/or grout cubes (6 specimens per set), per set

\$ 116.00

B. Laboratory Services:

Concrete Masonry Units:

1. Compressive Strength, ASTM C-140, 5 specimens, per each

\$ 420.00

At Cost

2. Absorption and moisture content, ASTM C-140, specimens, per each

\$ 53.00

3. Linear drying shrinkage, ASTM C-341, minimum specimens, each

\$ <u>284:00</u>

4. Concrete masonry block prism compressive strength tests, per set

\$79.00

7. Metals:

A. Field Services:

- Visual shop and erection inspection, including witnessing of welder's qualifications shall be charged at Basic Engineering Service Rates.
- 2. Radiographic, Magnetic Particle and Ultrasonic Testing Charge:

(a) 2-man radiographic crew with camera and Darkroom

\$ 284.00

(b) Radiographic camera, loaded each, per hour(c) Radiographic darkroom on truck, per day

\$ 630.00 \$ 945.00

(d) X-ray machine, each, per hour

\$ 945.00

(e) Magnetic particle machine (dry), per hour

\$ <u>126.00</u> \$ <u>126.00</u>

(f) Ultrasonic machine, per hour

(g) Thickness and corrosion measurement equipment, per hour

\$ <u>156.00</u>

3. Physical and Mechanical Properties Testing:

(h) Tensile test apparent yield and ultimate strength, initial sample

\$ 221.00

(i) Guided Bend Test, per each

\$ 189.00

8. Non-Destructive Structural/Materials Evaluation:

A. Fabrication/Erection Evaluation: - Evaluation of any or all of the following as established by project specifications: dimensional tolerances, material certifications, welds by visual techniques, welding procedures, welder/weld operator certifications, paint thickness, material storage conditions, column alignment, elevation verifications, bolt hole alignments and bolt torque; weld by visual techniques, steel decking, prime touch up and/or final painting.

 AS/ASNT Senior Level Certified Technician, per hou 	r \$ <u>116.00</u>
AWS/ASNT Certified Technician, per hour	\$ <u>89.00</u>
3. ASNT Level II Technician, per hour	\$ 89.00
4. ASNT Level I Technician, per hour	\$ 89.00
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B. Field Non-Destructive Testing: - by ASNT Level	I II Technician
Visible dye or fluorescent penetrant, per hour	\$ 100.00
2. Magnetic particle – wet or dry, per hour	\$ 100.00
Ultrasonic testing, per hour	\$ 100.00
Ultrasonic equipment charge, per hour	\$126.00
5. Eddy current testing, per hour	\$ 100.00
6. Eddy current equipment charge, per hour	\$ 189.00
7. X or Gamma Radiography (Iridium 192) per hour,	Ψ 100.00
	\$ 450 OO
per crew	\$ <u>152.00</u>
 Gamma Radiography (Cobalt 60) per hour, per crew Ground Penetrating Radar: 	/ \$ <u>152.00</u>
(a) Minimum rate ½ day rate (4 hrs.), per hour	\$ <u>1,943.00</u>
(b) Minimum daily rate (8 hrs.), per hour	\$ 2,730.00
(c) Supplemental rate, per hour	\$ 504.00
10. Seismic refraction, per hour	\$ 189.00
11. Laboratory services:	
(a) Liquid penetrant, per hour	\$ 68.00
(b) Magnetic particle, per hour	\$ 68.00
(c) Rockwell testing, per set	\$ 63.00
(d) Guided bend test, per each	\$ 63.00
(e) Tensile test, per each	\$ 84.00
(f) Machine charges, per each	\$ 79.00
12. Radiographic welder coupon:	Ψ 10.00
(a) Plant, per each	\$ 179.00
(b) Pipe, per each	\$ 179.00
13. Welding procedure qualifications:	Ψ 173.00
(a) ASME, per each	\$ 420.00
(b) ANC per each	
(b) AWS, per each	\$ <u>420.00</u>
14. Ultrasonic testing, per hour	\$ <u>90.00</u>
15. Equipment charge for ultrasonic testing, per day	\$ <u>116.00</u>
16. Eddy current testing, per hour	\$ 90.00
17. Equipment charge for eddy current testing, per day	\$ <u>116.00</u>
18. X or Gamma Radiography:	.
(a) ASNT Level III, per hour	\$ 116.00
(b) Materials Engineer, per hour	\$ <u>142.00</u>
(c) Materials Consultant, per hour	\$ <u>189.00</u>
(d) Mobile darkroom mileage, per mile	\$ <u>0.72</u>
(e) Radiographic film, current market price plus (No	
to exceed 5%)	<u>3.7 %</u>
(f) Special transducers required, cost plus (Not to	
to exceed 5%)	<u>3.7 %</u>
(g) Special probes, cost plus (Not to exceed 5%)	<u>3.7</u> %
19. ASTM D 2938 – Unconfined compressive (PSI),	
per each	\$ <u>79.00</u>
20. L.A. Abrasives (ASTM C 131), per each	\$ <u>189.00</u>
21. L.A. Abrasives (ASTM C 535), per each	\$ <u>189.00</u>
22. Fireproofing thickness, per hour	\$ <u>116.00</u>

23. Torque wrench/rebound hammer charge, per day 24. Floor flatness (F-Meter) charge, per day	\$ <u>16.00</u> \$ <u>63.00</u>	
24. I loof liatiless (i Fineter) charge, per day	Ψ <u>00.00</u>	
 9. Roofing: A. Field Services: Roofing installation inspection and project meetings shall Engineering Services Rates. 	be charged at Basic	
 B. Laboratory Services: Roofing Materials: Dissection, including total weight, number plies, interbitumen, top bitumen, aggregate weight and diagram per sample: (a) With aggregates, (asphalt or coal tar) (b) Without aggregates (c) Trimming sample to proper size (d) Diagramming only Book of the proper size ample 2. Moisture Content of felts, ASTM D-95, per sample 		
3. Unit Weight of felt, ASTM C-461, per sample	\$ 63.00	
 Moisture Content of aggregate, ASTM D-18864, 		
per sample	\$ <u>95.00</u>	
 10. Drilling Services: A. Mobilization and demobilization of rig: 1. All terrain mounted, per each 2. Truck mounted, per each 	\$ <u>851.00</u> \$ <u>745.00</u>	
B. Auger boring:		
1. 0 – 50 ft., per LF	\$ 13.00	
2. Greater than 50 ft., per LF	\$ 14.00	
 C. Soil test boring with standard penetration resistance: 1. 0 – 50 ft., per LF 2. Greater than 50 ft., per LF 	\$ <u>15.00</u> \$ <u>19.00</u>	
D. Undisturbed sample (3"), per each	\$ 131.00	
D. Ondistarbed Sample (o), per edon	Ψ <u>101.00</u>	
E. Piston Samples (3"), per each	\$ <u>221.00</u>	
F. Setting and removing casing for rock coring, per LF	\$ <u>19.00</u>	
G. NX or NQ rock coring with report of rock quality designation and percent recover:		
1. 0 – 50 ft., per LF	\$ 105.00	
2. Greater than 50 ft., per LF	\$ 110.00	
H. Difficult moving, water hauling, per hour	\$ 315.00	
Direct Push (includes collection of ground water and s	eoil eamnlae):	
1. Minimum rate ½ day rate (4 hrs.), per hour	\$ <u>1,365.00</u>	
2. Minimum daily rate (8 hrs.), per hour	\$ <u>2,835.00</u>	
3. Supplemental rate, per hour	\$ <u>347.00</u>	
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J. Dozer rental for clearing access to boring locations and moving drill rig, per day	\$ <u>2,520.00</u>
K. Water tank, per day	\$ <u>284.00</u>
L. Piezometer, backfilled with cuttings, non-grouted for water level measurements, per LF	\$ 63.00
M. Premium for sand pack and bentonite seal of piezomete per each	er, \$26.00
N. Grout seal boreholes (\$50.00 min. per borehole), per LF	\$ 26.00
O. Subsistence: 2 man crew, per day	\$ 1,565.00
11. Environmental Services:	
 A. Water/NPDES Monitoring: 1. Comprehensive Monitoring Plan (CMP), LS 2. Monthly NPDES service (includes weekly 	\$ 116.00
inspection/sampling), per month 3. Automated sampler rental, per sampler, per month	\$ <u>1,071.00</u> \$ <u>284.00</u>
Testing turbidity of water – GSP 20, per test	\$ 37.00
5. Testing turbidity of water – GDT 109, per test	\$ <u>37.00</u> \$ <u>116.00</u>
 Erosion control report, per each pH test, per test 	\$ 32.00
8. Chloride/sulfate test, per test	\$ <u>116.00</u>
Monthly NPDES report to EPD, per each	\$ 116.00
B. Asbestos Testing:	1)
Testing of asbestos in accordance with 1985 edition (purple bo EPA Guidance for controlling Asbestos Materials in Buildings.	OK)
EPA Method 560/5-85-024, per test	\$ 37.00
Chemical/Hydrocarbon Testing: Subsurface chemical testing for Total Petroleum	
	\$ 116.00
	\$ 630.00
	\$ <u>116.00</u>
12. Traffic Control and Equipment Rental:	
	\$ <u>1,208.00</u>
	\$ <u>105.00</u>
 C. Heavy Equipment rentals to include operator and transposite and from site, cost plus 	13%
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