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**MEMORANDUM**

**To:** Mayor and City Council  
**From:** Michael Smith, Public Works Director  
**Date:** July 12, 2021  
**Subject:** **Approval of Unit Price Contracts for Geotechnical Engineering, Construction Materials Testing, and Environmental Services**

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**ITEM DESCRIPTION**

Approval of unit price contracts with Nova Engineering and Environmental, LLC (Nova) and Wood Environment and Infrastructure Solutions, Inc. (Wood) to provide engineering, construction materials testing, and environmental services on an as-needed basis for capital projects.

**BACKGROUND**

The city recently issued a Request for Qualifications (RFQ) to provide geotechnical engineering, construction materials testing and environmental services on an as-needed basis. The primary types of services to be provided include: construction materials quality assurance testing, soil testing and engineering to providing building foundation, retaining wall and pavement recommendations, and environmental sampling and analysis for hazardous materials in soil, water and building materials.

The city received ten proposals in response to RFQ 21-01 and evaluated each firm based on their experience, extent and depth of services and qualifications of proposed personnel. Based on these considerations, Nova and Wood firms were determined to be the most responsive to the RFQ and were asked to submit a schedule of unit prices. A summary of the proposal scoring and the unit price schedules are provided on the following pages. Funding for this contract will be included in the budgets for which these services are needed.

**RECOMMENDED ACTION**

Staff recommends award of unit price contracts to Nova Engineering and Environmental, LLC and Wood Environment and Infrastructure Solutions, Inc. The term of the contracts will be for one year with two optional renewals.

## RFQ 21-01

**STAND-BY CONSTRUCTION MATERIALS TESTING / ENVIRONMENTAL SERVICES / GEOTECHNICAL SERVICES**

| <b>Firm</b>                         | <b>IS</b> | <b>CT</b> | <b>DE</b> | <b>Average</b> |
|-------------------------------------|-----------|-----------|-----------|----------------|
| Nova Engineering & Environmental    | 93        | 100       | 94        | 96             |
| Wood Environmental & Infrastructure | 94        | 93        | 89        | 92             |
| S&ME, Inc.                          | 90        | 77        | 86        | 84             |
| ECS Scouteast                       | 84        | 78        | 88        | 83             |
| Atlas                               | 78        | 84        | 81        | 81             |
| Oasis Consulting Serivces           | 91        | 78        | 73        | 81             |
| United Consulting                   | 85        | 80        | 74        | 80             |
| Contour Engineering                 | 76        | 79        | 74        | 76             |
| Willmer Engineering                 | 76        | 77        | 76        | 76             |
| MC2 Engineers                       | 69        | 73        | 84        | 75             |

# CONSTRUCTION MATERIALS TESTING & INSPECTION SERVICES CITY OF DUNWOODY - SCHEDULE OF FEES 2021

**Engineer and Technician Services:**

|  |           |
|--|-----------|
| A. Project Engineer, Professional Aide, Geologist or Senior Engineering Aide for foundation and subgrade soil field inspections, per hour.....   | \$ 80.00  |
| B. Senior Professional, P.E., or Project Manager for project management, review of soil, concrete, roofing, structural steel, fireproofing, reinforcing steel, masonry and other construction materials data, per hour .....         | \$ 110.00 |
| C. ICC Commercial Building Inspector, per hour .....   | \$ 110.00 |
| D. Principal Professional, P.E., for interpretation, consultation and supervision of Staff Professional, (if needed), per hour.....  | \$ 150.00 |
| E. ICC Special Inspector for soils, reinforced concrete, post tensioned concrete & masonry, per hour.....  | \$ 60.00  |
| F. GDOT RTT, QCT or Concrete Certified Technician for soil, concrete base stone and asphalt testing on transportation projects, per hour.....  | \$ 60.00  |
| G. IBC SI – SS/SFRM CWI, EIT or SI for visual weld, high strength bolt torque testing of structural steel and precast connections, fire-proofing placement observations, and for wood and cold-formed steel framing , per hour ..... | \$ 75.00  |
| H. ACI Concrete Technician - technician for sampling and testing fresh concrete, and sample pick-up and transportation, per hour .....   | \$ 50.00  |
| I. ASNT Level II Inspector - for non-destructive evaluation of structural steel weldments by magnetic particle, dye penetrant or ultrasonic methods, per hour.....   | \$ 95.00  |

**LABORATORY SERVICES:**

|  |           |
|--|-----------|
| A. Concrete/Aggregate/Mortar:  |           |
| 1. Concrete cylinder curing, preparation and compressive strength testing, each..... | \$ 12.00  |
| 2. Grout prism curing, preparation and compressive strength testing, each .....      | \$ 15.00  |
| 3. Mortar cube curing, preparation and compressive strength testing, each.....       | \$ 15.00  |
| 4. Concrete core curing, prep and compressive strength testing, each.....            | \$ 35.00  |
| 5. Concrete mix design verification, standard, each .....                            | \$ 175.00 |
| 6. Fine Aggregate Sieve Analysis, each.....  | \$ 45.00  |
| 7. Coarse Aggregate Sieve Analysis, each .....                                       | \$ 50.00  |
| 8. Aggregate Specific Gravity .....  | \$ 35.00  |



# CONSTRUCTION MATERIALS TESTING & INSPECTION SERVICES CITY OF DUNWOODY - SCHEDULE OF FEES 2021

## Laboratory Services (cont'd):

### B. Soils:

|   |           |
|---|-----------|
| 1. Moisture Content, each.....            | \$ 10.00  |
| 2. Atterberg Limits, each .....           | \$ 70.00  |
| 3. Wash 200, each.....                    | \$ 70.00  |
| 4. Wash 200 and Hydrometer Analysis ..... | \$ 100.00 |
| 5. Specific Gravity, each .....           | \$ 35.00  |
| 6. Organic Content, each.....             | \$ 55.00  |
| 7. Standard Proctor, each .....           | \$ 120.00 |
| 8. Modified Proctor, each .....           | \$ 145.00 |

### C. Asphalt:

|  |           |
|--|-----------|
| 1. Extraction/Gradation Test, each .....                     | \$ 152.00 |
| 2. Marshall Stability, and density, each .....               | \$ 155.00 |
| 3. Core Thickness and Density, each.....                     | \$ 24.00  |
| 4. Asphalt coring, per inch drilled per inch diameter* ..... | \$ 1.50*  |

\* A minimum charge per visit of \$250.00.

## Miscellaneous Services

A. Vehicle Transportation, per mile.....No charge

1. Expenses for special subcontractors, equipment, supplies, permits, or other items not customarily provided will be charged at cost plus 10%.
2. These hourly rates are portal-to-portal. Normal working hours are Monday through Friday, 7:00 a.m. to 6:00 p.m. Overtime rates will be applicable for technician and special inspector services provided outside normal working hours, over 8 hours per day and on Saturdays, Sundays and holidays at 1.5 times the standard hourly rate.
3. There will be a three-hour minimum charge on all field inspection services.
4. **Pricing for other services and tests are available upon request. These rates are effective through project completion.**



**GEOTECHNICAL ENGINEERING, ENVIRONMENTAL AND FACILITIES  
SCHEDULE OF FEES  
(CONTINUED)**

**DRILLING SERVICES**

*Drilling services costs for mobilization and fieldwork*

|  |            |           |
|--|------------|-----------|
| Mobilization   | lump sum   | \$ 575.00 |
| All-Terrain Vehicle Charge, additional to mobilization                   | lump sum   | \$ 100.00 |
| Soil Test borings (n<50 bpf)   | per foot   | \$ 13.00  |
| Soil Test borings (n≥50 bpf)   | per foot   | \$ 14.00  |
| Auger boring   | per foot   | \$ 10.00  |
| <i>Borings deeper than 50 feet will have a \$2.00 per foot surcharge</i> |            |           |
| Rock Coring set-up   | per set-up | \$ 200.00 |
| Rock Coring (NQ2-size core) less than 50 foot depth                      | per foot   | \$ 55.00  |
| Casing (where required) less than 50 feet                                | per foot   | \$ 10.00  |
| Water Truck Rental   | per day    | \$ 175.00 |
| Undisturbed Sampling   | each       | \$ 95.00  |
| Extra Split-spoon samples  | each       | \$ 25.00  |
| Difficult Moving or Standby  | per hour   | \$ 175.00 |
| Clearing: light clearing performed by drill crew                         | per hour   | \$ 175.00 |
| Temporary Observation Well (2-inch PVC)                                  | per foot   | \$ 10.00  |
| Type I Monitoring Well (2-inch PVC)                                      | per foot   | \$ 40.00  |
| Well Pad, with Manhole   | each       | \$ 250.00 |
| Steam Cleaner Rental   | per day    | \$ 150.00 |
| Hole Covers  | each       | \$ 50.00  |
| Asphalt Patch  | each       | \$ 40.00  |

**Notes:**

- Sub-Contractors, Supplies and Expenses shall be invoiced at cost plus 10%.
- Overtime rates (1.5 times the regular rate) will be applied to hours worked outside normal 7:00 am to 5:00 pm business hours, Saturday, Sunday, and holidays.
- Type II and Type III monitoring wells quoted per project.



**Wood Environment & Infrastructure Solutions, Inc.  
2021 Rate Schedule**

**I. Personnel**

The Wood team assigned to City of Dunwoody projects is offered at the below listed rates. We can begin work immediately upon receipt of written authorization and notice to proceed.

**Professional Services**

|                           |            |
|---------------------------|------------|
| Principal Engineer        | \$150/hour |
| Project Manager           | \$110/hour |
| Project Engineer          | \$95/hour  |
| Senior Engineer/Geologist | \$85/hour  |
| Staff Engineer/Geologist  | \$80/hour  |
| Sr. Engineering Aide      | \$70/hour  |
| Clerical/Drafting Support | \$45/hour  |

**Technical Services**

|                                   |            |
|-----------------------------------|------------|
| ICC Commercial Building Inspector | \$110/hour |
| Level II ASNT Inspector           | \$80/hour  |
| Certified Weld Inspector          | \$75/hour  |
| Technician - Level IV, QCT/RTT    | \$60/hour  |
| Technician - Level III, Asphalt   | \$50/hour  |
| Technician - Level II, Soils      | \$50/hour  |
| Technician - Level I, Concrete    | \$40/hour  |

**II. Physical Laboratory Services**

Our Atlanta laboratory is accredited by the American Association of State Highway and Transportation Officials (AASHTO), the AASHTO Materials Reference Laboratory (AMRL), the Cement and Concrete Reference Laboratory (CCRL), and the Georgia Department of Transportation.

**A. Soils Testing**

|  |             |
|--|-------------|
| Sieve Analysis (soils or aggregates)             | \$75/each   |
| Atterberg Limits Determination                   | \$120/each  |
| Moisture content Determination                   | \$12/each   |
| Organic Content Determination                    | \$75/each   |
| Sieve Analysis - Wash 200                        | \$75/each   |
| Sieve Analysis - Hydrometer                      | \$125/each  |
| Standard Proctor                                 | \$120/each  |
| Modified Proctor                                 | \$145/each  |
| Specific Gravity Testing (soils or aggregates)   | \$90/each   |
| Triaxial Shear Test (UU Test)                    | \$175/point |
| Triaxial Shear Test (CU Test)                    | \$300/point |
| Triaxial Shear Test (CU Test with pore pressure) | \$300/point |
| Add for remold                                   | \$50/each   |
| Consolidation Test                               | \$500/each  |
| Corrosivity Series (pH and Resistivity) Test     | \$150/each  |

**B. Concrete and Grout Testing**

|  |           |
|--|-----------|
| Compressive Strength Cylinder          | \$12/each |
| Flexural Strength Beam                 | \$40/each |
| Compressive Strength Cores             | \$29/each |
| Grout Prism                            | \$20/each |
| Cube Specimens                         | \$15/each |
| Concrete Masonry Unit Compression Test | \$80/each |

**C. Asphalt Testing**

|  |                       |
|--|-----------------------|
| Bitumen Content & Gradation  | \$152/each            |
| Core Density & Thickness   | \$24/each             |
| Core Density & Thickness with splitting  | \$33/each             |
| Theoretical Voidless Density   | \$119/each            |
| Asphalt coring<br>*minimum rate assumes 4 hour trip, additional hours<br>beyond the minimum will be charged at the<br>Technician IV rate | Minimum<br>\$250/trip |

### III. Drilling Services

|  |              |
|--|--------------|
| Mobilization: Truck-Mounted Drill Rig            | \$475/each   |
| Mobilization: ATV-Mounted Drill Rig              | \$525/each   |
| Excess Mileage (beyond 50-mile radius of office) | \$3.50/mile  |
| Auger Boring: 0-50 feet                          | \$11/foot    |
| Auger Boring: Greater than 50 feet               | \$13/foot    |
| Soil Test Boring: 0-50 feet                      | \$13.50/foot |
| Soil Test Boring: Greater than 50 feet           | \$15/foot    |
| Undisturbed Sample, per attempt                  | \$75/each    |
| Bulk Sample                                      | \$40/each    |
| Rock Coring Setup, per boring hole               | \$150/hole   |
| Setting and Removing Casing for Rock Coring      | \$7.50/foot  |
| Rock Coring (N-size): 0-50 feet                  | \$48/foot    |
| Rock Coring (N-Size): Greater than 50 feet       | \$55/foot    |
| Difficult Moving, Water Hauling                  | \$175/hour   |
| Backfill Borehole/Concrete or Asphalt Patch      | \$40/each    |
| Grout Borehole                                   | \$6/foot     |
| Groundwater Well Installation - Temporary        | \$150/hole   |
| Decontamination of Drilling/Sampling             | \$20/foot    |
| Bailers  | \$20/each    |
| Hourly Rate for Drilling Crew and Equipment      | \$175/hour   |
| Minimum Daily Rate (8 hours)                     | \$2,250 fee  |

**Note:** Personnel and testing rates shown in the above fee schedules apply to project charges for the contract duration.

### IV. Expenses

#### Travel Expenses

Travel expense may include transportation, lodging, meals and other expenses, as applicable, that are related to site visits, attending meetings related to the project, conducting field inspections, performing full time construction oversight, etc.

1. Transportation:
  - a. Car Mileage – Included (no additional charge)
2. Lodging, Meals and Other Expenses: direct expenses at cost plus 10%



**Equipment / Other Expenses**

1. Overtime charges for work required during other than normal 8-hour day or 40-hour week, Saturdays, Sundays, and holidays, multiply standard hourly rates by 1.5
2. Special equipment or supplies, permits, shipping charges, special printing or other items not customarily provided by Wood will be charged at cost plus 10%.

**V. Subcontractors**

Subcontract services will be invoiced at cost plus 10%.