CONSULTANT SUPPLEMENTAL AGREEMENT/CONTRACT AMENDMENT
FOR STATE OF MINNESOTA PROFESSIONAL AND TECHNICAL SERVICES MASTER CONTRACT

PROJECT NAME: Testing and Inspection Services Master Contract
LOCATION: Various, MN
CONSULTANT: Terracon Consultants, Inc.
ADDRESS: 955 Well St. #100
St. Paul, MN 55106

SA Encumbrance Form

<table>
<thead>
<tr>
<th>Business Unit</th>
<th>Accounting Date</th>
<th>Fund</th>
<th>DeptID</th>
<th>Appropriation</th>
<th>Category</th>
<th>Account</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
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<td></td>
<td></td>
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<td>81101508</td>
<td>411308</td>
<td>$0.00</td>
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<td>93151600</td>
<td>411324</td>
<td>$0.00</td>
</tr>
</tbody>
</table>

Vendor Number: 0000238693
Contract Number: 167668
Version/Line: N/A
Project Number: N/A
Activity: N/A

[Individual signing certifies that funds have been encumbered as required by Minnesota Statute §§16A.15 AND 16C.05]

Contract Begin Date: 11/13/2019
Current Est'd Expiration Date: 9/30/2024
Revised Est'd Expiration Date: NO REVISION
CONSULTANT SUPPLEMENTAL AGREEMENT/CONTRACT AMENDMENT
FOR STATE OF MINNESOTA PROFESSIONAL AND TECHNICAL SERVICES MASTER CONTRACT

PROJECT NAME: Testing and Inspection Services Master Contract
LOCATION: Various, MN

CONSULTANT: Terracon Consultants, Inc.
ADDRESS: 955 Well St. #100
St. Paul, MN 55106

SUPPLEMENTAL AGREEMENT/CONTRACT AMENDMENT NUMBER: 1

This SUPPLEMENTAL AGREEMENT/CONTRACT AMENDMENT is made by and between the STATE of MINNESOTA, acting through its Commissioner of Administration, "STATE," and, Terracon Consultants, Inc., 955 Well St. #100, St. Paul, MN 55106, "CONSULTANT."

WHEREAS, STATE and CONSULTANT have entered into a contract, known as Department of Administration Contract No. 167668 for Construction Testing and Inspection Services Master Contract; which was fully executed on November 13, 2019;

WHEREAS,

1. The original contract called for Construction Testing and Inspection Services.
2. It is necessary to modify the original contract to include additional services.
3. It is necessary to modify the original contract to include an updated Exhibit B – Fee Proposal

NOW THEREFORE, it is mutually agreed to amend Contract No. 167668 as follows:

1. Section 2 Scope of Work, is replaced in its entirety with the following: The Contractor, who is not a state employee, may be requested to perform any of the following services under individual work order contracts:
   - Concrete Testing and Inspection
   - Geotechnical Services
   - Window/Curtain Wall Testing and Inspection
   - Roofing/Waterproofing Testing and Inspection

2. Additional services that may be requested to perform under individual work order contracts, as underlined above, are included in the attached Exhibit C, Consultants Categories of Services and Experience, dated December 29, 2020, which is incorporated herein.

3. By virtue of this Supplemental Agreement/Amendment, Exhibit B is replaced in its entirety with a new Exhibit B dated, December 29, 2020 and is incorporated herein.

Except as amended herein, the terms and conditions of the Original Contract and all previous amendments remain in full force and effect.

IN WITNESS WHEREOF, STATE has caused this Supplemental Agreement/Contract Amendment to be duly executed on its behalf and CONSULTANT has caused the same to be duly executed on its behalf.

This Supplemental Agreement/Contract Amendment may be executed in counterpart; once all parties have signed on one or separate copies, a copy signed by one party is binding on that party same as if signed by all remaining parties.

Signatures
<table>
<thead>
<tr>
<th>Title</th>
<th>Name</th>
<th>Signature</th>
<th>Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>Office Manager I</td>
<td>Kyle Shubert</td>
<td>Kyle Shubert</td>
<td>January 5, 2021</td>
</tr>
<tr>
<td>Accounting Technician</td>
<td>Julie C. Ouradnik</td>
<td>Julie C. Ouradnik</td>
<td>January 7, 2021</td>
</tr>
<tr>
<td>Operations Manager</td>
<td>Bee Yang</td>
<td>Bee Yang</td>
<td>January 8, 2021</td>
</tr>
<tr>
<td>AMS</td>
<td>Sara Freedland</td>
<td>Sara Freedland</td>
<td>January 11, 2021</td>
</tr>
</tbody>
</table>
### Terracon Consultants Fee Schedule

**Exhibit B - updated 12/29/20**

**Rate Schedule - Projects located within a fifty (50) mile radius of Responder’s Office Location**

<table>
<thead>
<tr>
<th>Rate Main</th>
<th>Rate Sub</th>
<th>Unit</th>
</tr>
</thead>
<tbody>
<tr>
<td>Clerical</td>
<td>$51.00</td>
<td>hour</td>
</tr>
<tr>
<td>Field Technician (Concrete, Rebar, Compaction)</td>
<td>$115.00</td>
<td>hour</td>
</tr>
<tr>
<td>Senior Field Technician (Footings, Subgrade, and Proofrolls)</td>
<td>$130.00</td>
<td>hour</td>
</tr>
<tr>
<td>Project Coordinator</td>
<td>$72.00</td>
<td>hour</td>
</tr>
<tr>
<td>Project Manager/Engineer</td>
<td>$113.00</td>
<td>hour</td>
</tr>
<tr>
<td>Senior Project Manager/Engineer</td>
<td>$149.00</td>
<td>hour</td>
</tr>
<tr>
<td>Senior Principal</td>
<td>$205.00</td>
<td>hour</td>
</tr>
</tbody>
</table>

1 A three-hour minimum charge per trip is applicable to all site visits. The representative’s travel time, vehicle, and mileage are combined into a burdened hourly rate. You will be invoiced on a periodic basis for services actually performed as authorized or requested by you or your designated representative.

**Rate Schedule - Projects located more than a fifty (50) mile radius of Responder’s Office Location**

<table>
<thead>
<tr>
<th>Rate Main</th>
<th>Rate Sub</th>
<th>Unit</th>
</tr>
</thead>
<tbody>
<tr>
<td>Clerical</td>
<td>$51.00</td>
<td>hour</td>
</tr>
<tr>
<td>Field Technician (Concrete, Rebar, Compaction)</td>
<td>$151.00</td>
<td>hour</td>
</tr>
<tr>
<td>Senior Field Technician (Footings, Subgrade, and Proofrolls)</td>
<td>$161.00</td>
<td>hour</td>
</tr>
<tr>
<td>Project Coordinator</td>
<td>$72.00</td>
<td>hour</td>
</tr>
<tr>
<td>Project Manager/Engineer</td>
<td>$113.00</td>
<td>hour</td>
</tr>
<tr>
<td>Senior Project Manager/Engineer</td>
<td>$149.00</td>
<td>hour</td>
</tr>
<tr>
<td>Senior Principal</td>
<td>$205.00</td>
<td>hour</td>
</tr>
</tbody>
</table>

2 A four-hour minimum charge per trip is applicable to all site visits. The representative’s vehicle, and mileage are burdened into the hourly rates noted above. You will be invoiced on a periodic basis for services actually performed as authorized or requested by you or your designated representative.

**Rate Schedule - Geotechnical Projects regardless of Responder’s Office Location**

<table>
<thead>
<tr>
<th>Test Description</th>
<th>Rate</th>
<th>Unit</th>
</tr>
</thead>
<tbody>
<tr>
<td>Soil Borings and Rock Coring (2 person crew)</td>
<td>$200.00</td>
<td>hour</td>
</tr>
<tr>
<td>Two person drill crew travel time, standby</td>
<td>$200.00</td>
<td>hour</td>
</tr>
<tr>
<td>Rock Coring</td>
<td>$32.50</td>
<td>foot</td>
</tr>
<tr>
<td>Grouting of Boreholes in Accordance with MDH</td>
<td>$3.00</td>
<td>foot</td>
</tr>
<tr>
<td>Drill Rig Mileage</td>
<td>$2.20</td>
<td>miles</td>
</tr>
<tr>
<td>Support Truck Mileage</td>
<td>$1.10</td>
<td>miles</td>
</tr>
<tr>
<td>Drill Rig Charge</td>
<td>$70.00</td>
<td>hour</td>
</tr>
<tr>
<td>Drilling Consumables</td>
<td>Cost + 15% variable</td>
<td></td>
</tr>
<tr>
<td>One Person Traffic Control</td>
<td>$80.00</td>
<td>hour</td>
</tr>
<tr>
<td>Two Person Traffic Control</td>
<td>$160.00</td>
<td>hour</td>
</tr>
<tr>
<td>Unconfined Compressive Strength</td>
<td>$35.00</td>
<td>test</td>
</tr>
<tr>
<td>UU Triaxial Shear Testing, per point</td>
<td>$190.00</td>
<td>test</td>
</tr>
<tr>
<td>CU Triaxial Shear Testing, per point</td>
<td>$450.00</td>
<td>test</td>
</tr>
<tr>
<td>Direct Shear Testing, per point</td>
<td>$165.00</td>
<td>test</td>
</tr>
<tr>
<td>Dry Density (Shelby Tube Sample)</td>
<td>$15.00</td>
<td>test</td>
</tr>
<tr>
<td>Water Content Test (ASTM D2216)</td>
<td>$8.00</td>
<td>test</td>
</tr>
<tr>
<td>Visual Classification (ASTM D2488)</td>
<td>$9.00</td>
<td>sample</td>
</tr>
<tr>
<td>Atterberg Limits Test (ASTM D4318)</td>
<td>$125.00</td>
<td>test</td>
</tr>
<tr>
<td>#200 Wash Only (ASTM D1140)</td>
<td>$50.00</td>
<td>test</td>
</tr>
<tr>
<td>Organic Content (ASTM D2974)</td>
<td>$50.00</td>
<td>test</td>
</tr>
<tr>
<td>Sieve Analysis with #200 Wash (ASTM D422 &amp; D1140)</td>
<td>$105.00</td>
<td>test</td>
</tr>
<tr>
<td>Sieve Analysis with Hydrometer (ASTM D422)</td>
<td>$170.00</td>
<td>test</td>
</tr>
<tr>
<td>Consolidation Test (up to 4 load increments) (ASTM D2435)</td>
<td>$460.00</td>
<td>test</td>
</tr>
<tr>
<td>Constant Head Permeability (does not include remolding sample)</td>
<td>$285.00</td>
<td>test</td>
</tr>
<tr>
<td>Falling Head Permeability</td>
<td>$285.00</td>
<td>test</td>
</tr>
</tbody>
</table>

3 It is assumed that all work shall take place during normal hours of 7:00AM to 5:00PM Monday through Friday. If requested, Overtime will be applied for all hours in excess of eight (8) per day, outside of the normal hours of 7:00AM to 5:00PM Monday through Friday, and all hours worked on Saturdays, Sundays, and holidays. An overtime premium rate of $45/hour will be applied to the rates noted above.
CONSTRUCTION TESTING AND INSPECTION SERVICES RFP- EXHIBIT C

Name of Firm ___Terracon Consultants________________________________________________________
Proposal Dated__12/29/20____________________

Responder shall indicate by checking the boxes below the categories of tests and inspections for which the firm is qualified.

*Attach project experience and reference information for each bolded category of service selected; a minimum of three (3) project references for each bolded category of service selected is required (see RFP Selection Process items 2 and 3 for further information).

Geotechnical Services
- ☒ Pre-construction Soil Exploration and Testing
- ☐ Percolation Tests, Recommendations for Septic Systems
- ☒ Foundation and Pavement Design Recommendations
- ☒ Observation and Testing of Existing Soils during Excavation and Grading
- ☒ Laboratory Testing of Proposed Fill Material
- ☒ Observation and Testing of Fill and Backfill for Moisture, Compaction
- ☒ Other - Vibration Monitoring

Concrete Testing and Inspection Services
- ☐ Concrete, Grout Mix Design
- ☐ Observe and Document Formwork Construction
- ☐ Observe and Document Placement of Reinforcing Steel
- ☐ Slump, Temperature, and Air Entrainment Tests of Fresh Concrete
- ☐ Cast, Cure and Test Concrete Cylinders for Compressive Strength
- ☐ Other__________________________

Masonry Testing and Inspection Services
- ☐ Mortar, Masonry Fill Mix Design
- ☐ Laboratory Tests on Masonry Prisms
- ☐ Laboratory Test of Mortar and Core-fill for Compressive Strength and Bond Strength
- ☐ Special Inspection of Structural Masonry Construction (Continuous___/ Periodic___)
- ☐ Other________________________________________________________

Structural Steel Testing and Inspection
- ☐ Strength Testing of Embedded Bolts
- ☐ Observe and Test Welded and Bolted Connections during Structural Steel and Precast Concrete Erection
- ☐ Observe and Test Welding and Screw Fastening during Metal Deck Installation
- ☐ Other__________________________
Pavement Testing and Inspection
- Observe and Test Rolling Operations on Subgrade Soils
- Field and Laboratory Tests on Aggregate Base
- Field and Laboratory Tests during Bituminous Paving (Continuous___/Periodic____)
- Other________________________

Fireproofing / Firestopping Testing and Inspection
- Test Installed Spray-on Fireproofing for Thickness, Density, Adhesion
- Observe and Document Installation of Fire-Resistive Joint Systems
- Other__________________________

Other
- Window/Curtain Wall Testing and Inspection
- Roofing/Waterproofing Testing and Inspection
- Sealant Pull Tests
- Fluid-Applied Vapor Barrier Testing

Phase I Archaeological Resources Investigation
- Determine whether cultural resources are present within the project area, and whether these resources are potentially eligible for the National Register of Historic Places (NRHP).
- All field methods and reporting of the Phase I Archaeological Resources Investigation will comply with the Minnesota State Historic Preservation Office guidelines as well as federal guidelines, and will meet the requirements of the Secretary of the Interior’s Standards.
- If an archaeological site is found, wash, analyze, and catalogue all recovered artifacts. Laboratory and curation procedures will follow appropriate standard guidelines.
- Curate the artifacts at the Minnesota Historical Society under Contractor’s curation agreement. Contractor’s lab director will ensure that the cataloging and curation meet the requirements of Minnesota’s repository guidelines.
- Other - Geophysical surveys, artifact analysis, skeletal analysis, historical research, historic structure survey, architectural historians on-staff

Phase II Archaeological Resources Investigation
- Excavate and document designated features in accordance with Minnesota State Historic Preservation Office guidelines as well as federal guidelines and will meet the requirements of the Secretary of the Interior’s Standards.
- Record excavation data on standardized forms and in the log book of the principal investigator including location and methods of testing; the numbers, types, and locations of recovered cultural materials; the depth and thickness of excavated soil layers; soil textures and inclusions; and soil color according to Munsell color charts.
- Take up to 5 radiocarbon samples if suitable materials are encountered and complete standard radiometric analysis.
- Clean, catalogue, label and bag all recovered artifacts in accordance with professional standards and submit recovered materials to the Minnesota Historical Society for curation.
- Other - Geophysical surveys, artifact analysis, skeletal analysis, historical research, historic structure survey, architectural historians on-staff
Phase I Environmental Investigation

☐ Complete a Phase I Environmental Site Assessment in a manner consistent with the American Society of Testing and Materials standard for a Phase I ESA and the Minnesota Pollution Control Agency Voluntary Investigation and Cleanup Program Guidance Document #8.

☐ Conduct a visual (existing structures) assessment for typical suspect asbestos containing materials (ACM).

☐ Assess the presence of PCBs at the subject site.

☐ Collect and evaluate available historical information to determine if evidence exists indicating an existing release, a past release, or a material threat of a release of hazardous substances, hazardous materials or petroleum products to the Property.

☐ Other______________________________________________

Phase II Environmental Investigation

☐ Prepare a workplan the Phase II Investigation in a manner consistent with the American Society of Testing and Materials standard for a Phase I ESA and the Minnesota Pollution Control Agency Voluntary Investigation and Cleanup Program Guidance Document #11 to determine if potential sources of contamination identified during the Phase I Investigation are causing a release or threatened release of hazardous substances, contaminants or pollutants to the soil, surface water and ground water on the property in question.

☐ Prepare a site safety and contingency plan in a manner consistent with the American Society of Testing and Materials standard for a Phase I ESA and the Minnesota Pollution Control Agency Voluntary Investigation and Cleanup Program Guidance Document #10.

☐ Conduct Phase II Environmental Investigation in accordance with approved work plan and in a manner consistent with the American Society of Testing and Materials standard for a Phase I ESA and the Minnesota Pollution Control Agency Voluntary Investigation and Cleanup Program Guidance Documents.

☐ Other______________________________________________

Remediation Services

☐ Prepare and, upon approval, implement the Response Action Plan (RAP) and in a manner consistent with the American Society of Testing and Materials standard for a Phase I ESA and the Minnesota Pollution Control Agency Voluntary Investigation and Cleanup Program Guidance Documents.

☐ Following completion of the RAP, prepare an Implementation Report for submission to the MPCA for review and approval in a manner consistent with the American Society of Testing and Materials standard for a Phase I ESA and the Minnesota Pollution Control Agency Voluntary Investigation and Cleanup Program Guidance Documents.

☐ Other______________________________________________

Comments:

A. Describe Responder’s qualifications, including unique qualifications:
B. For each bolded category of service checked, a minimum of three (3) project references is required (pass/fail). Include the following for each project reference:

1. Project title
2. Scope
3. Dates started and completed
4. Name and number of years experience of Responder’s staff member supervising the project (must be minimally 5 years of experience and must be registered or certified in the State of MN)
5. Client’s company name, mailing address
6. Client’s contact person name, position title, telephone and fax numbers
EXHIBIT A - TERRACON PROJECT EXPERIENCE

GEOTECHNICAL SERVICES

1. Project Title: 35TH Avenue NE Improvements
   Duration: January 31, 2020 to September 20, 2020
   Project Supervisor: Daniel Mahrt, PE
   Supervisor Years of Experience: 20 years
   Client: City of Minneapolis
   309 2nd Avenue South, Minneapolis, MN 55401
   Chris DeDene, PE
   Client Representative
   612.673.2368 (phone)
   612.673.2300 (fax)
   Chris.Dedene@minneapolismn.gov

2. Project Title: Metro Wastewater Treatment Plant Improvements
   Duration: January 30, 2020 to March 20, 2020
   Project Supervisor: Daniel Mahrt, PE
   Supervisor Years of Experience: 20 years
   Client: Metropolitan Council
   390 N Robert Street
   Saint Paul, MN 55101
   James Mangowi
   Project Manager
   651.602.1190 (phone)
   james.mangowi@metc.state.mn.ust

3. Project Title: Osseo Truck Shop
   Duration: July 24, 2019 to September 30, 2019
   Project Supervisor: Daniel Mahrt, PE
   Supervisor Years of Experience: 20 years
   Client: Karges-Faulconbridge, Inc.
   670 County Road B
   St. Paul, MN 55113
   Randy Christenson
   Project Manager
   651.254.6877 (phone)
   612.801.0175
   rpchristenson@kfi-eng.com
4. Project Title: Farmington MN 240th Street/Alverno Avenue/245th Street (County Road 78)
   Scope: Vibration Monitoring
   Duration: May 25, 2020 to September 25, 2020
   Project Supervisor: Allen Witt, PE
   Supervisor Years of Experience: 33 years
   Client: Fitzgerald Excavating and Trucking
          21432 350th Street
          Goodhue, MN 55027
          Gary Richter
          Project Manager
          651.923.4060 (phone)
          richter.gary100@gmail.com

OTHER – (Window Curtainwall and Roofing/Waterproofing Testing and Inspections)

1. Project Title: Ramsey County Public Health Reroof & Mechanical Replacement
   Scope: Scope of work included investigation and sample coring of existing built-up roofing system to be replaced with additional roof insulation and new built-up roof, flashing, coping, and raised curbs and mechanical connections.
   Duration: September 16, 2019 to February 14, 2020
   Project Supervisor: Tom Sarbaugh, AIA
   Supervisor Years of Experience: 28 years
   Client: Ramsey County
          555 Cedar St. St. Paul, MN 55101
          Kent Dirks
          Project Manager
          651.266.2258 (phone)
          kent.dirks@co.ramsey.mn.us

2. Project Title: 2500 Blaisdell Avenue Renovations
   Scope: Investigation and Renovation of building envelope and below grade parking garage included testing and inspection of new waterproofing system on parking garage.
   Duration: August 14, 2017 to September 27, 2019
   Project Supervisor: Tom Sarbaugh, AIA
   Supervisor Years of Experience: 28 years
   Client: Condos on Blaisdell HOA
          2500 Blaisdell Ave.
          Minneapolis, MN 55404
          Nancy Lewin
          Property Manager
          763.231.4513 (phone)
          nlewin@cedarmanagement.com
3. Project Title: Hennepin County Gov. Center – Tunnel Walkway Renovation & Skyway Level Revolving Door Replacement
Scope: Project included investigation and water testing of existing Skyway level curtainwall, new revolving doors, and testing of new water proofing repairs on terraces over lower level entries.
Duration: August 14, 2017 to May 10, 2019
Project Supervisor: Tom Sarbaugh, AIA
Supervisor Years of Experience: 28 years
Client: Hennepin County
300 South 6th Street, Minneapolis, MN 55487
Dan Missaghi
Facilities Project Manager
612.348.0752 (phone)
Dan.Missaghi@hennepin.us

4. Project Title: Sherburne Government Center - Phase 1 Façade Repairs
Scope: Forensic investigation of water intrusion at existing north and west facing windows. Repairs included removal of existing windows, replacement of deficient/missing flashing, and water testing following reinstallation of windows.
Duration: March 13, 2017 to November 17, 2017
Project Supervisor: Tom Sarbaugh, AIA
Supervisor Years of Experience: 28 years
Client: Sherburne County
13880 Business Center Drive NW
Elk River, MN 55330
Steve Becker
Building Facilities Director
763.765.3127 (phone)
763.765.3131 (fax)
Steve.Becker@co.sherburne.mn.us

5. Project Title: Augsburg Park Library Forensic Investigation
Scope: Non-destructive investigation of water intrusion including water testing existing windows.
Duration: Aug. 5, 2019 to Aug. 20, 2019
Project Supervisor: Tom Sarbaugh, AIA
Supervisor Years of Experience: 28 years
Client: Hennepin County
7100 Nicollet Ave.
Richfield, MN 55423
Troy Forcier
Facilities Project Manager
Troy.Forcier@hennepin.us