EXHIBIT "A"

District Wide Geotechnical & Materials Testing and Inspection Services

Scope of Services
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**Scope of Services**  
**Geotechnical & Materials Testing and Inspection Services Contract**

1.0 **Purpose:**

The purpose of this Exhibit is to describe the scope of work and the responsibilities of the Consultant and the Department in connection with Foundation Studies, (PDA, Thermography & CSL, and Vibration Monitoring), Asphalt Plant Services, Laboratory Material Testing, for any project or plant for Florida’s Turnpike Enterprise.

This contract is a general services contract for select geotechnical & inspection services for the Turnpike Enterprise’s System of Toll Roads or facility that may be under the jurisdiction of Florida’s Turnpike Enterprise during the term of this Agreement. The Department shall request Consultant services on an as-needed basis. Services to be provided on each project will be initiated and completed as directed by the Executive Director and Chief Executive Officer, Florida’s Turnpike Enterprise. There is no guarantee that any or all of the services described in this Agreement will be assigned during the term of this Agreement. Further, the Consultant is providing these services on a nonexclusive basis. The Department, at its option, may elect to have any of the services set forth herein performed by the Consultant or Department staff. Work to be performed may be assigned individually or in groups and the Department will issue Task Work Orders to the Consultant to perform the requested services. Fees will be negotiated when a project has been identified by the Turnpike Enterprise’s Materials Engineer or designee. Each Task Work Order will define the Project(s), or and/or scope for which services are required.

2.0 **Consultant Responsibility:**

The Consultant will be responsive to the Department's request for services 24 hours a day, 7 days a week, and 365 days a year. It is the Consultant's responsibility to pursue and obtain all information, reports, permits, utility/environmental clearances and lane closure approvals necessary to perform services on this Contract.

The Consultant will attend meetings as requested by the Department. Coordinate with the Department prior to attendance of meeting. Attendance at meetings not requested by the Department may not be reimbursed. When meetings are hosted by the Consultant, coordinate all activities with the stakeholders, and distribute the minutes to all participants and District Project Manager (DPM).

Perform services at the Department's facility using the Department's resources as requested. The Consultant will provide expert witness services if requested by the Department.

In the event the Consultant encounters actual or suspected environmental contamination while performing services on this Contract, immediately cease work and notify the Project Manager in writing.

Do not perform services during suspension of the accreditation or qualifications governing the service(s) in question. Do not allow unqualified personnel or personnel with suspended qualifications perform or oversee services. Fees shall be reimbursed to the Department for any charges for services performed without appropriate qualifications and/or accreditations.
Be responsible for properly retaining and handling samples. When samples are lost or cannot determine the Contract compliance of the material due to mishandling, Consultant may be responsible for performing an Engineering Analysis\Investigation at no cost to the Department.

Provide timely and accurate supporting documentation for the work to be invoiced including accurate and timely submittal of timesheets as directed by the Department. Timesheet should identify the project number and a brief description of performed task. Minimize discrepancies between reported completed work and work quantities invoiced.

Any questions or concerns should be brought to the attention of the Project Manager.

For Non-compliance with Construction Contracts, Consultant may be required at no additional cost to the Department, to provide an Engineering Analysis Report prepared by an independent engineering firm approved by the DPM when sampling and/ or testing services provided by the firm fails to meet the expectations of the Construction contract.

3.0 Department Responsibility:

The Department will provide technical administration of the contract, conduct laboratory inspections, review actual test methods and procedures, review test results and reports, review invoice submittals, and generally determine compliance with this contract.

4.0 General (Governing Documents):

The services provided by the Consultant in the office, field, and lab shall be in compliance with the current edition -including updates- of all applicable Department Manuals and Guidelines as well as State and Federal regulations. This shall include but not be limited to the following:

- Florida Department of Transportation (FDOT) Standard Specification for Road and Bridge Construction as amended by contract documents
- FDOT Roadway Plans Preparation Manual
- FDOT Design Standards
- FDOT Structures Manual
- FDOT Structure Design Office Standard Drawings
- FDOT Materials Manual
- FDOT Manual of Florida Sampling and Testing Methods
- FDOT Manual for Safety and Control of Equipment Containing Radioactive Materials
- FDOT Construction Project Administration Manual (CPAM)
- FDOT Construction Training and Qualification Manual (CTQM)
- FDOT Soils and Foundation Handbook
- FDOT Right of Way Procedures Manual
- FDOT Radiation Safety Manual
- FDOT Utility Accommodation Manual
- Federal Highway Administration (FHWA) Checklist and Guidelines for Review of Geotechnical Reports and Preliminary Plans and Specifications
- American Association of State Highway and Transportation Officials (AASHTO) Test Methods
- American Society for Testing and Materials (ASTM) Standards
- Manual on Uniform Traffic Control Devices
• Code of Federal Regulations (CFRs)
• Safe Work Practices and Compliance Standards Handbook
• Geotechnical Design / Plans Review Checklist (District 5’s)
• Occupational Safety and Health Administration (OSHA) 29 CFR 1910.1001 and 1926.58, 49 CFR 171 and 172
• Local Agency Program (LAP) manual
• Chapter 14-103 Construction Aggregate Rule
• CQC Specifications, and related directives
• FDOT Standard Operating Procedure for Evaluation, Approval, and Control of Mineral Aggregate Sources
• FDOT Standard Operating Procedure for Quality Assurance of Mineral Aggregate Sources
• FDOT Records Retention Guideline
• Southern Pine Inspection Board Standards
• Approved Auger Cast pile installation plan (ACPIP)
• Drilled Shaft Installation Plan (DSIP)

5.0 Terminology and Definitions:

AASHTO – American Association of State Highway Transportation Officials
ASTM – American Society of Testing Materials
AFP - FDOT Automated Fee Proposal system
BDR – Bridge Development Report
CADD - Computer Aided Drafting & Design
CAPWAP - Case Pile Wave Analysis Program
CPM - Consultant Project Manager
CSC - Continuing Services Contract. Max 5 yrs. & $5 Million
CTQP - Construction Training & Qualification Program
DER - Department of Environmental Regulation (Federal & State)
DGE – District Geotechnical Engineer
DMRE - District Materials & Research Engineer.
DMRO - District Materials & Research Office
DPM - Department Project Manager.
DPSU - District Professional Services Unit
DWC - District-Wide Contract. Max 5 yrs. & $5 Million
EAR - Engineering Analysis Report
EDC - Embedded Data Collector
ERC – Electronic Review Comments
FDOT - Florida Department of Transportation
FM - Florida Method
IA - Independent Assurance
IV - Independent Verification
LOA – Letter of Authorization
LQP - FDOT Laboratory Qualification Program
MAC - Materials Acceptance & Certification System
MM - FDOT Materials Manual
PCR - Pavement Coring & Reporting
6.0 **Communication and Reporting:**

Maintain timely and effective communication. Report results electronically to the Department in the most efficient manner and as approved in advance by the Department.

Prepare final analysis and recommendations in the format of final reports. Submit draft recommendations to the Department's Project Manager for review prior to preparing final report. Report shall include all elements requested, as well as any additions, alterations and changes directed by the Department. Reports shall also include, as applicable, topographical maps, aerial photographs, geological maps and reports, soil conservation service surveys existing construction plans, potentiometric maps, relevant information of adjacent projects, and other pertaining information.

The final reports and plan sheets shall be signed and sealed by a Professional Engineer registered by the State of Florida. Acceptable formats and number of copies are specified in Department’s various policies and procedures.

Upon completion of a work order, deliver to the Department all project files, sketches, work-sheets, plans, including electronic data files used for analysis and other materials used or generated during the performance of services requested in this Scope in an organized manner.

Communicate assignment related issues during non-business hours directly with the Department’s representative overseeing Consultant’s work, typically District Materials Office personnel.

7.0 **Reporting Laboratory Test Results:**

Enter laboratory test results into Department database within 24 hours of test completion. Labor associated with test reporting is a unique pay item, and is not included in the cost of the test. For data entry and validation, actual time up to a maximum of 15 minutes per sample is deemed reasonable. Updating should be performed by clerical or testing personnel.

If requested by the Department, compare QC results to V. Labor associated with comparison services is a unique pay item, and is not included in the cost of the test. Actual time up to a maximum of 15 minutes per Verification sample is deemed reasonable for coordination with project personnel and Quality Control Laboratory and data entry. Comparison & approval should be performed by CPM or Senior Technical personnel.
8.0 Personnel:

Provide qualified technical and professional personnel to perform, the duties and responsibilities assigned under the terms of this agreement following the Department’s standards and procedures. All Consultant personnel/technicians must be approved in writing by the Department prior to performing services. All Consultant personnel will be approved under one (1) labor classification per person. Exceptions may be allowed at the sole discretion of the Department. Personnel listed in the final negotiated Contract Audit Package are considered approved without any additional documentation. Obtain written approval for additional personnel prior to performing services. Approvals are valid for all work to be performed by authorized labor classification throughout the contract period.

All Consultant personnel providing services on this Contract must perform to the satisfaction of the DPM. Personnel that do not perform services to the satisfaction of the DPM may be removed from the Contract.

All testing and inspection personnel must participate in Independent Assurance evaluations and other applicable third party audits.

See the attached Table 1 for Material & Geotechnical personnel’s job classifications (MAT) with required experience and qualifications.

8.1 Additional Requirements for Select Geotech Personnel:

**Dynamic Testing Operators** must have at least a Rank of Basic on the Pile Driving Contractor's Association (PDCA) Dynamic Measurement and Analysis Proficiency Test. The Operator must also have experience testing at least 5 Department bridges. The experience may be obtained while working under the supervision of another qualified Operator.

The **Dynamic Testing Engineer in responsible charge of Dynamic Testing** must be licensed by the State of Florida and have at least a Rank of Advanced on the Pile Driving Contractors Association (PDCA) Dynamic Measurement and Analysis Proficiency Test. The engineer must also have been in responsible charge of geotechnical foundation construction engineering and dynamic testing work on at least five (5) Department bridge projects. The experience may be obtained while working under the supervision of another qualified Professional Engineer. The engineer’s primary work activities must be dynamic pile testing, signal matching analyses (e.g. CAPWAP analyses) and developing pile lengths and driving criteria.

**Embedded Data Collector (EDC) monitoring** shall be performed by an Operator who has completed the Smart Pile EDC training course. The Operator shall work under the supervision of a Dynamic Testing Engineer (see minimum qualifications above) who has completed the Smart Pile EDC training course.

This “responsible charge” experience shall include dynamic pile testing, signal matching analyses and wave equation analyses computer program experience.
9.0 **Conflict of Interest:**

It is the Consultant's responsibility to prevent real or perceived Conflict-of-Interest. Any concerns or appeals must be brought to the attention of the DPM or DMRE for interpretation and response.

10.0 **Independent Assurance Services:**

Provide services in full compliance with the Department’s current Independent Assurance Program. Participate in Independent Assurance evaluations when scheduled for asphalt, concrete, laboratory acceptance testing, and earthwork.

11.0 **Off-Duty Law Officer with Vehicle:**

List the name of the organization providing Off-Duty Law Officer support services in the Contract as a 2nd-tier consultant. The designated job class in FDOT’s Automated Fee Proposal (AFP) will be "MOT Off-Duty Law Officer with Vehicle". The Contract Rates will be determined from price quotes from each organization.

12.0 **Ownership of Works and Inventions:**

The Department shall have full ownership of any works of authorship, inventions, improvements, ideas, data, processes, computer software programs, and discoveries (hereafter called intellectual property) conceived, created, or furnished under this Agreement, with no rights of ownership in Consultant or any sub-consultants/subcontractors. Consultant and sub-consultants/subcontractors shall fully and promptly disclose to the Department all intellectual property conceived, created, or furnished under this Agreement. Consultant or sub-consultants/subcontractor hereby assigns to the Department the sole and exclusive right, title, and interest in and to all intellectual property conceived, created, or furnished under this Agreement, without further consideration. This Agreement shall operate as an irrevocable assignment by Consultant and sub-consultants/subcontractors to the Department of the copyright in any intellectual property created, published, or furnished to the Department under this Agreement, including all rights thereunder in perpetuity. Consultant and sub-consultants/subcontractors shall not patent any intellectual property conceived, created, or furnished under this Agreement. Consultant and sub-consultants/subcontractors agree to execute and deliver all necessary documents requested by the Department to affect the assignment of intellectual property to the Department or the registration or confirmation of the Department’s rights in or to intellectual property under the terms of this Agreement. Consultant agrees to include this provision in all its subcontracts under this Agreement.

13.0 **Consultant Not Employee or Agent:**

The Consultant and its employees, agents, representatives, or sub-consultants/subcontractors are not employees of the Department and are not entitled to the benefits of State of Florida employees. Except to the extent expressly authorized herein, Consultant and its employees, agents, representatives, or sub-consultants/subcontractors are not agents of the Department or the State for any purpose or authority such as to bind or represent the interests thereof, and shall not represent that it is an agent or that it is acting on the behalf of the Department or the State. The Department shall not be bound by any unauthorized acts or conduct of Consultant.
14.0 Services:

Provide services that are in compliance with all applicable documents referred to in the “General” paragraph of this document. The Department, at its option, may elect to expand, decrease, or delete the extent of each work element described in this scope of services, provided such action does not alter the intent of this agreement. The Department shall request Consultant services on an as-needed basis. There is no guarantee that any or all of the services described will be assigned during the term of this agreement. Further, the Consultant shall provide these services on a nonexclusive basis. The Department, at its option, may elect to have any of the services set forth herein performed by other consultants, sub-consultants, or Department staff without Consultant recourse.

All firms providing services on this Contract must be specifically listed on the Contract. Each firm must have their own unit rates for pay items and labor classifications defined by the Department. Do not include unit rate for the services and labor classifications not provided by the firm. The Department reserves the right to decline reimbursement if these conditions are not met.

14.1 Asphalt Plant Services:

Provide Asphalt Plant Inspection services for Verification and Independent Verification.

a. Ensure that all Bituminous Verification requirements are met.
b. Generate the Random Numbers and notify the Quality Control (QC) technician after the mixture is produced and instruct when the QC technician shall take the sample.
c. Perform testing and inspection as directed in the Contract documents within the allotted timeframe as defined in the Contract documents. Perform daily inspections of the Producer’s Facility to ensure that the Producer is complying with their QC Plan and the Contract documents. Document all inspections in daily journal.
d. Keep a daily journal using a format or electronic system directed by bituminous staff documenting the arrival and departure time, failures, QC, Process Control (P.C.), and Independent Verification (IV) samples taken (time and load numbers), time of IV technicians arrived and departed, all verification inspections performed, any production related problems, and any other pertinent information that the District Bituminous Staff directs the Verification Technician to document. Electronically submit the daily journal to the District Bituminous Staff at the completion of production for the day.
e. Observe the QC testing for accuracy (on a random yet consistent basis) to ensure that the QC staff is accurately documenting the weights and calculations of the test results performed. Submit the copy of handwritten data to District Materials Staff as requested.
f. Be familiar with the Producer’s QC Plan for the facility and ensure that QC staff is following the Plan.
g. Notify the District Bituminous Staff immediately when repeating problems are encountered or serious lapses with the QC staff following their Producer QC Plan or the Project Requirements.
h. Be knowledgeable of the Contract documents pertaining to Asphalt Production and testing at the Producer facilities.
i. Document all material sample failures and all specification violations in the daily journal, and notify the District Bituminous Staff immediately.
j. Perform a daily review of the QC worksheets and records for accuracy and completeness. Notify the District Bituminous Staff if the QC staff fails to complete the testing and pertinent paperwork within 24 hours and/or fails to enter the QC test results into the Department’s database system within one working day of the testing. Make every effort to verify lots within the 24 hour timeframe, and on days the plant is producing.

k. If resolution testing is required, notify the District Bituminous Staff immediately. After obtaining the resolution test results from the District Materials Office, update the Composite Pay Factor (CPF) Worksheet and other pertinent Department forms. Enter necessary information into the Department’s database system, and reissue revised forms within 24 hours of receiving the results from the District Materials Office unless directed otherwise.

l. One Verification Technician may be required to cover more than one active asphalt plant as directed by the District Bituminous Staff.

Provide the following additional plant inspection and testing related services as requested:

1. Label and sign V and R sample boxes.
2. Inspect the asphalt plant, review and analyze both QC and V test results and verify QC technician reports in Department’s database are accurate.
3. Collect roadway cores for each IV sample collected.
4. Notify the Materials lab when Lot is completed and when Verification Technician needs to be sent to verify the completed lot.
5. Update the daily production spreadsheet.
6. Deliver IV samples to Materials Lab by the end of the day.
7. Recommend stopping or restrict asphalt plant production.
8. Approve, monitor, revise, transfer, and terminate Asphalt Mix Designs as applicable.

14.2 Laboratory Testing:

Perform all tests in accordance with applicable testing Standard. Comply with all provisions of the Laboratory Qualification Program. Maintain appropriate accreditations\.qualifications for the duration of the Contract. Notify the Department immediately when Laboratory accreditations\qualifications are lost for any reason, and then reinstated. Update the Department on Laboratory accreditations\qualifications status for each Laboratory every 6 months. Notify the Department prior to any scheduled inspection by an accreditation agency.

The Consultant laboratories are subject to periodic quality assurance reviews by the Department. The Consultant will cooperate with the Department during these reviews and promptly correct any noted deficiencies.

Deliver samples to the Resolution laboratories and the State Materials Office upon request in the most efficient manner.
14.3 Earthwork:

Inspect, sample, test and report on field Earthwork activities as requested by the Department.

14.4 Geotechnical Testing:

14.4.1 Dynamic Pile Testing Services:

Perform the following Dynamic Pile Testing services for DESIGN-BID-BUILD Projects as required by the District Geotechnical Engineer (DGE):

1. Review Plans, Specifications, Geotechnical Reports, etc.
2. Attend Preconstruction Conference.
3. Review Pile Installation Plan/Hammer Submittal & provide comments to DGE.
4. Attend Construction pre-work meeting.
5. Perform Dynamic Load Tests on Test Piles.
6. Provide printed/plotted (PDF) and electronic copies of Test Pile data to the DGE.
7. Perform Wave Equation Analyses (CAPWAP, WEAP, etc.) of Test Pile data.
8. Develop Pile Length & Driving Criteria letters for DGE review.
9. Review Production Pile Driving logs as driving progresses.
10. Troubleshoot Production pile driving problems and perform Set-Checks as needed.
11. Submit Final summary report to the DGE.
12. Submit electronic. W01 files used in analysis.
13. Attend Construction meeting as required.

14.4.2 Pile Verification Services:

Perform the following Pile Verification services for DESIGN-BUILD Projects as required by the District Geotechnical Engineer (DGE):

1. Review Plans, Specifications, Geotechnical Reports, etc.
2. Attend Preconstruction Conference.
3. Review Pile Installation Plan/Hammer Submittal & provide comments to DGE.
4. Attend Construction pre-work meeting.
5. Observe Test Pile Dynamic Load Tests.
6. Collect printed/plotted (PDF) and electronic copies of Test Pile data for the DGE.
7. Review Design-Build Team's Pile Lengths & Driving Criteria; send comments to DGE.
8. Perform periodic site visits for quality assurance as needed.
9. Review Production Pile Driving logs as driving progresses.
10. Review Design-Build Team's Foundation Certification Packages; send comments to DGE.
11. Recommend Pile Verification & perform tests as needed.
12. Analyze and report the results of Pile Verification Tests to the DGE.
13. Attend Construction meeting as required.
14.4.3 Major Structure Drilled Shaft Services:

Perform the following Major Structure Drilled Shaft services for DESIGN-BID-BUILD Projects as required by the District Geotechnical Engineer (DGE):

1. Review Plans, Specifications, Geotechnical Reports, etc.
2. Attend Preconstruction Conference.
3. Review Drilled Shaft Installation Plan & provide comments to DGE.
4. Attend Drilled Shaft pre-work meeting.
5. Document any pilot hole results & provide information to DGE.
6. Perform laboratory testing from pilot hole samples as directed by DGE.
7. Observe Test Shafts & Shaft Inspection Device (SID) surveys.
8. Collect Drilled Shaft inspectors log and test data for the DGE.
9. Recommend Drilled Shaft tip elevations to DGE.
10. Perform periodic site visits and/or inspections as needed.
11. Perform and/or review Cross-Hole Sonic Logging (CSL) results as needed.
12. Perform and/or review Thermal Integrity results.
13. Attend Construction meetings as required.

14.4.4 Miscellaneous Drilled Shaft Services:

Perform the following Miscellaneous Drilled Shaft services for DESIGN-BID-BUILD Projects as required by the District Geotechnical Engineer (DGE):

1. Review Plans, Specifications, Geotechnical Reports, etc.
2. Attend Preconstruction Conference.
3. Review Drilled Shaft Installation Plan & provide comments to DGE.
4. Attend Drilled Shaft pre-work meeting.
5. Observe installation of first Drilled Shaft.
6. Collect Drilled Shaft inspectors log and test data for the DGE.
7. Perform periodic site visits and/or inspections as needed.
8. Perform and/or review Cross-Hole Sonic Logging (CSL) results as needed.
9. Perform and/or review Thermal Integrity test results.
10. Attend Construction meetings as required.

14.4.5 Drilled Shaft Services:

Perform the following Drilled Shaft services for DESIGN-BUILD Projects as required by the District Geotechnical Engineer (DGE):

1. Review Plans, Specifications, Geotechnical Reports, etc.
2. Attend Preconstruction Conference.
3. Review Drilled Shaft Installation Plan & provide comments to DGE.
4. Attend Drilled Shaft pre-work meeting.
5. Observe any pilot hole field work and provide information to DGE.
6. Observe Test Shafts & Shaft Inspection Device (SID) surveys.
7. Collect Drilled Shaft inspectors log and test data for the DGE.
8. Perform periodic site visits for quality assurance as needed.
9. Review Design-Build Team's Foundation Certification Packages; send comments to DGE.
11. Perform and/or review Thermal Integrity test results.
12. Attend Construction meetings as required.

14.4.6 Auger Cast Pile Services:

Perform the following Auger Cast Pile services for DESIGN-BID-BUILD Projects as required by the District Geotechnical Engineer (DGE):

1. Review Plans, Specifications, Geotechnical Reports, etc.
2. Attend Preconstruction Conference.
3. Review Auger Cast Pile Installation Plan & provide comments to DGE.
4. Attend Auger Cast Pile pre-work meeting.
5. Observe first Auger Cast Pile installation.
6. Review Inspector's Logs for the DGE.
7. Perform periodic site visits and/or inspection as needed.
8. Trouble shoot problems as needed.
9. Perform and/or review Pile Integrity test results.
10. Attend Construction meetings as required.

14.4.7 Forensic Geotechnical Engineering Services:

Investigate damage, deterioration or collapse of a structure or roadway. Perform forensic analysis of a project accounting for actual/observed site conditions. Provide documentations, design calculations and identifying any assumptions such as assumed construction method. Develop repair and/or monitoring recommendations and prepare report.

14.4.8 Geographic Information System (GIS) Services:

Perform the following services required by the District Geotechnical Engineer (DGE):

1. Determine Latitude and Longitude of Soil Boring Locations.
2. Scan Soil Boring Profiles for input into GIS database.
3. Update information in Soil Boring database.
14.4.9 Vibration Monitoring:

The Consultant shall be able to supply at least two (2) seismographs and at least two (2) operators trained and experienced in the setup and operation of the seismograph(s) within 24 hours of notification. Personnel shall be supervised by a Professional Engineer experienced in vibration monitoring.

Prepare and submit a draft vibration monitoring report within 10 calendar days after the last monitoring field work at the site in electronic format. The Consultant must include quality control by a senior engineer before the draft report is submitted to DGE for quality assurance. After the DGE has provided the comments to the Consultant, the final report should be submitted within 4 calendar days. The final report must be signed and sealed by a Professional Geotechnical Engineer registered in the State of Florida. Any disagreement with Turnpike’s quality assurance comments must be resolved quickly via the phone or e-mails to avoid delay of delivering the final report to the construction personnel and the property owner.

As a minimum, the vibration monitoring report should include the following where applicable:

1. The property address
2. Site map showing the property – aerial photo preferred.
3. Histogram event reports.
4. Tables showing particle velocities in all three directions.
5. A copy of the latest calibration certificates for the seismographs and geophones used during data collection. The certificates need to show that the data was collected using seismograph(s) and geophone(s) which are calibrated within 12 months from field activities.
6. Provide a hand corrected tabulation of PPV data in 3 directions on the histogram event report with explanation if some erroneous and non-representative data are included in the histogram event report. Highlight the actual maximum PPV after the non-representative data has been discarded.
7. A section must be included in the report regarding technical background and past research results related to peak particle velocity associated with threshold of architectural damage and structural damage. The collected data for an assigned project must be compared with established acceptable values with conclusions or remarks.

15.0 Method of Payment:

The method of payment for the Consultant services shall be according to Exhibit "B", Method of Compensation, attached hereto and made part hereof. Invoices will be submitted and approved for payment through the Department’s web-enabled Consultant Invoice Transmittal System (CITS).

All overtime, whether straight time or premium overtime, must be authorized in advance in writing by the Department.
16.0 **Performance of the Consultant:**

During the term of this Agreement, the Turnpike Enterprise’s Materials Department will conduct reviews of the various phases of the Consultant operations. Reviews will be conducted in accordance with established Department policy on work phases to determine compliance with this Agreement and the sufficiency with which procedures are being effectively applied to assure that the activities are performed in reasonable conformity with Department policies, plans, specifications, contract documents and provisions. The Consultant shall cooperate and assist the Department’s representatives in conducting the reviews.

Remedial action shall be immediately implemented by the Consultant in conformance with the Department’s recommendations when deficiencies are indicated. The Department’s remedial recommendations and the Consultant’s actions are to be properly documented by the Consultant’s Project Managers. In general, remedial action shall be required, commensurate with the degree and nature of the deficiencies cited. Additional compensation shall not be allowed for remedial action taken to correct deficiencies by the Consultant. Remedial actions may include any or all of, but are not necessarily limited to, the following actions:

Further subdivide assigned responsibilities, reassign personnel or assign additional personnel. The Consultant will comply with this action within one week of notification.

In any case of lost, damaged, or destroyed materials verification testing samples, the Consultant will be responsible for any cost incurred to the Department and Contractors for remediation. When this occurs, the Department will request a written remediation plan from the Consultant. If the plan is accepted, the Consultant will implement the plan at no cost to the Department. If the plan is rejected, the Department will ask an alternate consulting firm to submit a plan. The Consultant responsible for the lost, damaged, or destroyed samples will pay for all damages suffered as a result thereof. When requested, replace personnel whose performance has been determined by the Department to be inadequate. When directed by the Department, any person whose performance has been determined to be unsatisfactory shall be immediately removed.

Deficiencies incurred by the Consultant will be recorded, and after review by the Department and mitigation by the Consultant, may count toward interim and final grading in the Department’s Consultant Grading System.
### Table 1: Materials & Geotechnical Personnel Job Classifications and Required Experience

<table>
<thead>
<tr>
<th>Job Title</th>
<th>Required Experience</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chief Geotechnical Engineer</td>
<td>P.E. with 20+ yrs exp. in geotechnical foundation construction engineering</td>
</tr>
<tr>
<td>Senior Geotechnical Engineer</td>
<td>P.E. with 10+ yrs exp. in geotechnical foundation construction engineering</td>
</tr>
<tr>
<td>Geotechnical Engineer</td>
<td>P.E. with 5+ yrs exp. in geotechnical foundation construction engineering</td>
</tr>
<tr>
<td>Geotechnical Technician</td>
<td>3+ years exp.</td>
</tr>
<tr>
<td>MAT Asphalt Plant Inspector</td>
<td>HS grad or equiv, plus 1 yr. of experience in surveillance &amp; insp. of hot mix asphalt plant operations or 80 hours working under an approved and qualified asphalt plant inspector at the asphalt plant.</td>
</tr>
<tr>
<td>MAT CADD/Computer Technician</td>
<td>Technical Certification and/or 2 yrs experience</td>
</tr>
<tr>
<td>MAT Chief Engineer</td>
<td>P.E. (or if registered in another state, the ability to obtain registration in the State of Florida within six months) w/ 20+ years of post-registration experience</td>
</tr>
<tr>
<td>MAT Engineer</td>
<td>P.E. (or if registered in another state, the ability to obtain registration in the State of Florida within six months) w/ 5 yrs Industry Experience</td>
</tr>
<tr>
<td>MAT Engineer Intern</td>
<td>Entry level w/ Engineering Degree and E.I.T. Certificate</td>
</tr>
<tr>
<td>MAT Engineering Technician</td>
<td>H.S. grad w/ 1yr Industry Experience and applicable CTQP qualifications</td>
</tr>
<tr>
<td>MAT Geologist</td>
<td>B.S. degree in Geology w/ 2yrs experience</td>
</tr>
<tr>
<td>MAT Geologist Professional</td>
<td>P.G. w/ 5 yrs Industry Experience</td>
</tr>
<tr>
<td>MAT GIS Specialist</td>
<td>2yrs Applicable Experience</td>
</tr>
<tr>
<td>MAT Inspector</td>
<td>H.S. grad w/ 1yr Industry Experience and applicable CTQP qualifications</td>
</tr>
<tr>
<td>MAT Principal Engineer</td>
<td>P.E. (or if registered in another state, the ability to obtain registration in the State of Florida within six months) w/ 15+ years of post-registration experience</td>
</tr>
<tr>
<td>MAT Project Manager</td>
<td>H.S. grad w/ 3yrs Industry Experience</td>
</tr>
<tr>
<td>MAT Secretary/Clerical</td>
<td>Entry level w/ H.S. degree or equivalent</td>
</tr>
<tr>
<td>MAT Senior Asphalt Plant Inspector</td>
<td>H.S w/ 4yr Industry Experience; CTQP Asphalt Plant Level 1&amp;2; CTQP Asphalt Paving Level 1&amp;2; must complete additional training (if required by District).</td>
</tr>
<tr>
<td>MAT Senior Engineer</td>
<td>P.E. (or if registered in another state, the ability to obtain registration in the State of Florida within six months) w/ 10 yrs Industry Experience</td>
</tr>
<tr>
<td>MAT Senior Engineering Technician</td>
<td>H.S. grad w/ 4 yrs Industry Experience and applicable CTQP qualifications</td>
</tr>
<tr>
<td>MAT Senior Inspector</td>
<td>H.S. grad w/ 4 yrs Industry Experience and applicable CTQP qualifications</td>
</tr>
<tr>
<td>MAT Technical Secretary</td>
<td>H.S. grad w/ 3 yrs applicable Technical Experience</td>
</tr>
<tr>
<td>MAT Technician Aid</td>
<td>Entry level w/ H.S. degree or equivalent</td>
</tr>
<tr>
<td>MOT - Qualified Worker/Flagger</td>
<td>MOT Intermediate Certification</td>
</tr>
<tr>
<td>MOT - Qualified Worksite Traffic Supervisor</td>
<td>MOT Advanced Certification</td>
</tr>
<tr>
<td>MOT Off-Duty Law Officer with vehicle</td>
<td>Includes vehicle, labor and all coordination services.</td>
</tr>
</tbody>
</table>