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Colliers
Engineering
& Design

VIA Email
October 15, 2025

Nordan Murphy, PE, PP
County Engineer
County of Passaic
Department of Engineering
401 Grand Street, Room 524
Paterson, New Jersey 07505

Proposal for Professional Services
Preakness Valley Golf Course Maintenance Facility
Wayne Township, Passaic County, New Jersey
Colliers Engineering & Design Proposal No.: 24011081P

Dear Mr. Murphy,

Colliers Engineering & Design, Inc. (CED) is pleased to submit this proposal to provide professional Services during the construction for the referenced project.

We understand geotechnical construction support and observation services are required for the County Maintenance Facility project. As requested, the scope includes (1) geotechnical construction support services for the current phase of work, covering field and laboratory testing to support foundation and slab construction, and (2) Phase 2 earthwork observation and monitoring for the evaluation and reuse of on-site materials within the future building envelope.

CED has previously provided base unit prices as part of our proposal for On-Call Construction & Geotechnical Testing Services for Passaic County. This proposal presents the total costs for both the tasks per request received from the County.

This proposal is divided into four sections as follows:

Section I – Scope of Services
Section II – Business Terms and Conditions
Section III – Technical Staff Hourly Rate Schedule and Reimbursable Expenses
Section IV – Client Contract Authorization

The order in which the following scope of services are presented generally follows the sequence in which the project will be accomplished; however, depending on the project, the various authorized services contained in this proposal may be performed in a sequence as deemed appropriate by Colliers Engineering & Design to meet project schedules.

Section I – Scope of Services

TASK 1.0 – Geotechnical Construction Support Services (Maintenance Building)

We will provide field and laboratory services during the ongoing construction of the maintenance facility in accordance with the project specifications. The services will support the ongoing foundation and slab construction work and are anticipated to be required on an as-needed basis over approximately 20 workdays throughout the construction period.

Anticipated services include:

- Perform compaction testing at footing subgrades and beneath concrete slabs.
- Perform in-place soil density testing and laboratory Proctor testing for structural fill and backfill materials.
- Perform sampling and testing of structural concrete, including slump, air content, temperature, and compressive strength testing.
- Prepare and submit daily field reports, laboratory test results, and conformance letter to document compliance with the project specifications.

Task 2 – Earthwork Observation and Monitoring (Future Phase 2 Building)

We will provide observation and monitoring for the removal and replacement of unsuitable soils within the building envelope for the planned Phase 2 structure.

Anticipated services include:

- Observe and document cut and fill operations, including proof-rolling of the building pad areas.
- Evaluate on-site excavated materials for reuse suitability as engineered fill beneath building pads.

Unit Rates

See attached pricing sheet.

Understanding and Approach

Invoicing

1. The rates for field tasks are based on per-visit during normal workdays, Monday through Friday, up to 8 hours/visit, 8 hours per full-day, 4 hours per half-day.
2. Work must be scheduled a minimum of 24 hours in advance of any required inspections.
3. Cancellations on the same day as will be invoiced as half days.
4. We will invoice you based on actual work performed in accordance with the unit rates indicated above per requests received from your onsite representative and actual schedule by contractor.

Daily Field Reports

Our observations, measurements, and field test results will be documented by our personnel in Daily Field Reports (DFRs). Non-conforming conditions will be discussed verbally by our representative with the Owner's representative, the construction manager, and/or the contractor at the time they are observed.

Standard Project Management

Standard project management includes review of project information and DFRs, field coordination, and scheduling.

Soil Laboratory Testing

A minimum of two FULL 5-gallon buckets of soil will be required for testing Sandy soils, and Silt/Clay soils and a minimum of three FULL 5-gallon buckets of soil will be required for testing Crushed Stone, DGA, etc. If less than the required full bucket amounts are provided, the reliability and accuracy of the tests may be impacted.

Earthwork and Fill Placement

We will provide a field technician (Special Inspector) to observe, document, and test the placement and the compaction of soil per the approved specifications, using a combination of a Nuclear Moisture Density Gauge and visual observations. The technician can typically perform up to 40 field moisture and density tests per workday.

Soil samples for Proctor testing must be submitted to our laboratory at least three business days prior to performing field inspection otherwise expedited rate for Proctor testing listed above will be charged.

Subgrade

We will provide a Special Inspector to observe soil conditions at the foundation, floor slab, and pavement subgrade level and verify compliance with the approved specifications.

Reinforced Concrete

We will provide a Special Inspector to observe concrete reinforcing steel construction to approved drawings prior to concrete placement.

Client to schedule our onsite presence to allow sufficient time to properly observe the reinforcement and allow the Contractor to make changes (if deemed necessary) prior to the concrete pour. The amount of time to be allocated to the concrete reinforcement inspection prior to the concrete pour will be dependent on the amount and complexity of the reinforcement but should be no less than 1 hour. We recommend that for any concrete pours scheduled prior to 10 AM, that the concrete reinforcement inspection is performed the day before.

Concrete Placement

We will provide a Special Inspector to observe the consistency of each batch of concrete and perform field testing, per project specifications, consisting of but not limited to slump, air entrainment and temperature, prepare the necessary test cylinders for compression tests.

Based on the project concrete sampling specification and the size of the concrete pour (cubic yards), two or more Special Inspectors may need to be assigned to the scheduled concrete pour. Should this situation occur, our project manager will contact the Client or their representative to discuss the logistics and the manpower requirement that CED requires to properly service the project.

Per the American Concrete Institute's (ACI) Standard Specification for Structural Concrete (ACI-301, Section 1.6.3.2d), it is the Contractor's responsibility to provide and maintain, for the sole use of the testing agency, adequate facilities for safe storage and proper curing (e.g. temperature controlled) of concrete specimens on the job site for initial curing required by ASTM C 31.

Please note that our Special Inspectors do not carry testing equipment for lightweight concrete as part of their standard equipment. CED requests advance notification prior to our mobilization to the site for lightweight concrete.

Concrete Compressive Strength Testing

Compressive strength testing will be performed per ASTM C 39 at our in-house laboratory facilities in accordance with project specifications.

Pick-up Charges

Delivery of soil samples, molds and pick-up of any test cylinders/cubes considers our normally scheduled pick-ups and business hours (M-F: 7am to 4pm).

Conformance Report

At the conclusion of our field presence, we will prepare a report summarizing our observations and addressing conformance of observed items to project plans and specifications.

Schedule of Fees

For your convenience, we have broken down the total estimated cost of the project into the categories identified within the scope of services.

Task	Initial Budget Estimate
Task 1.0 Geotechnical Construction Support (Maintenance Building)	
Soils and Foundations	
Senior Soils Inspector (Consider 12 days @ $850/day)	$10,200
Nuclear Density Gauge (Consider 12 days @ $35/day)	$420
Modified Proctor ($190/sample, 2 samples)	$380
Sieve Analysis ($75/sample, 2 samples)	$150
Site Visit and Sample Collection (October 9, 2025 visit)	$300
Concrete Construction	
CIP Concrete Testing (Consider 8 days @ $825/day)	$6,600
Concrete Test Cylinders (50 cylinders, $18.50/cylinder)	$925
Final Conformance Report	$1,500
Task 2.0 Earthwork Observation and Monitoring (Future Phase 2 Building)	
Soils Engineer (Assume 10 days @ $1,100/day)	$11,000
Senior Soils Inspector (Assume 10 days @ $850/day)	$8,500
Nuclear Density Gauge (Consider 10 days @ $35/day)	$350
Modified Proctor ($190/sample, 2 samples)	$380
Sieve Analysis ($75/sample, 2 samples)	$150
Total	**$40,855**

Notes and Assumptions

1. This proposal assumes an allowance of 20 workdays for Task 2.0 for budgeting purposes, since no specific schedule and quantities were provided. As such, the proposed Task 2.0 fees are considered preliminary estimates and may be revised once the detailed schedule or scope adjustments are confirmed.

2. The actual level of effort and total cost may vary depending on the final construction schedule, release of work areas, and the frequency of required testing or inspection.

Exclusions and Understandings

Services relating to the following items are not anticipated for the project or cannot be quantified at this time. Therefore, any service associated with the following items is specifically excluded from the scope of professional services within this agreement.

General

- Services not specifically outlined above in Section I;
- **Safety is the responsibility of the Contractor.**
- Any engineering design or evaluations.
- Any exploratory or testing work, interpretations, or conclusions related to the determination of potential chemical, toxic, radioactive, or other type of contaminants on site.

- Any construction instrumentation monitoring. We can provide a separate proposal upon request.
- Personnel on site will utilize Level D personal protective equipment (PPE) (hard hats, steel-toed boots, eye protection, etc.). Higher levels of PPE (respirators, chemical resistance, etc.) can be provided for an additional fee.

Construction Observation

- Construction documents will be available for our review.
- Access to the site will be provided by the Client.
- Access to elevated areas will be provided by the Contractor.
- Attendance of on-site meetings and field safety meetings will be invoiced on a time and material basis.

If an item listed herein, or otherwise not specifically mentioned within this agreement, is deemed necessary, Colliers Engineering & Design may prepare an addendum to this agreement for your review, outlining the scope of additional services and associated professional fees regarding the extra services.

Section II – Business Terms and Conditions

The Business Terms and Conditions of the original contract shall still apply.

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Section III – Rate Schedule

Technical Staff Rates 2025	
Billing Titles	**Hourly Rates**
Executive Principal	360.00
Senior Principal	345.00
Principal	320.00
Senior Technical Director	295.00
Senior Project Manager	270.00
Technical Director	230.00
Project Manager	220.00
Senior Project Specialist	200.00
Project Specialist	190.00
Technical Professional	180.00
Technical Specialist	170.00
Specialist	160.00
Senior Data Technician	150.00
Senior Technical Assistant	140.00
Technical Assistant	125.00
Field Technician	115.00
Data Technician	115.00
Survey Crew – 1 Person w/Robotic Equipment	195.00
Additional Survey Crew Member	85.00
SUE Crew (designating) – 1 Person	160.00
Additional (designating) Member	85.00
SUE Crew (locating) – 2 Person	220.00
Additional (locating) Member	85.00
Expert Witness	425.00
Sr. LSRP	330.00
LSRP	290.00

Reimbursable Expenses	
General Expenses	Cost + 15%
Travel (Hotel, Airfare, Meals)	Cost + 15%
Sub-Consultants/Sub-Contractors	Cost + 20%
Plotting	4.50 / Each
Computer Mylars / Color Plots	100.00 / Each
Photocopies	0.19 / Each
Color Photocopies	2.05 / Each
Document Binding	4.05 / Each
Portable Media	100.00 / Each
Exhibit Lamination (24" x 36" or larger)	90.00 / Each
Initial Digital Signature	300.00
Additional Digital Signatures	75.00 / Each
Mileage Reimbursement*	0.655 / Per Mile
	Field Vehicle 0.75 / Per Mile

*Mileage reimbursement subject to change based upon IRS standard mileage rate.

Rates are effective through December 31, 2025

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Section IV – Client Contract Authorization

I hereby declare that I am duly authorized to sign binding contractual documents. I also declare that I have read, understand, and accept this contract.

Signature	Date
Printed Name	Title

If you find this proposal acceptable, please sign where indicated above in Section IV, and return one signed copy to this office. **Payment terms are NET30 of receipt of invoice**. This proposal is valid for 60 days since the date it is issued.

We very much appreciate the opportunity of submitting this proposal and look forward to performing these services for you.

Sincerely,

Colliers Engineering & Design, Inc.

Ahmed Elmekati, PE
Principal Associate

Varunpreet Singh
Senior Project Manager

AHE/VS/gt

Base Unit Prices

Notification
The Contractor or Project Engineer, depending on the project, shall notify the Testing Consultant a minimum of 24 hours in advance of when field inspection or testing services will be required. The Testing Consultant must supply an inspector at the date, time and location specified. The Testing Consultant shall coordinate scheduling inspections and testing services directly with Contractor, unless otherwise directed.

This bid will be awarded on a category basis. Bidders do not have to bid on every category, but they must bid on every line item in the categories that they are bidding on.

Concrete

	Unit	Unit Price
Field Inspector *	1/2 Day	$450.00
	Day	$750.00
Senior Field Inspector *	1/2 Day	$495.00
	Day	$825.00

* Rates for Inspectors will include travel time and mileage. "½ day" will be construed to mean 4 hours **on site**. "Day" will be construed to mean more than 4 hours and up to 8 hours **on site**. The costs for preparing cylinders, slump tests, and air entrainment tests while on site will also be included in the 1/2 day and daily rate. Inspectors are to supply own equipment and tools. Rates will also include preparation and submittal of Field Inspection Reports.

Hardened Concrete

Chloride Perm ASTM C1202/AASHTO T277**	2 sets of 2	$1,800.00
Surface Resistivity for Chloride Perm AASHTO T358**	3 cylinders per set	$425.00

** Rates for will be inclusive of travel time and mileage and preparing and obtaining all samples, performing tests and writing/reviewing reports.

Test Cylinders

Cap, Cure, Test and Report ***	Cylinder	$18.50
Transportation of Cylinders****	Trip	$80.00

Curing box to be provided by the Testing Consultant as needed, at no additional cost.

*** Report will include preparation of cores for testing and all costs for preparation and submittal of a Formal Report.

**** Transportation of cylinders will only be applicable if pickup is required when no inspector is scheduled and will include all mileage, travel time and employee time

Concrete Core Drilling

Unit & Labor ASTM C-42*****		
Vertical	LF	$800.00
Horizontal	LF	$1,000.00
Day min******	Day	$1,995.00
Compressive Test & Report *******	CORS	$150.00

***** Rates for Core Drilling will include travel time, mileage, crew and equipment time.

****** Minimum Day Rate shall apply only if the number of cores to be taken multiplied by the unit price is lower than the Minimum Day Rate. If the number of cores to be taken multiplied by the unit price is greater than the Minimum Day Rate, the Minimum Day Rate will not apply.

******* Compressive Test and Report will include preparation of cores for testing and all costs for preparation and submittal of a Formal Report.

Hot Mix Asphalt

	Unit	Unit Price
Field Inspection (During Paving Operations)		
Inspector *	1/2 Day	$450.00
	Day	$750.00
Nuclear Density *	1/2 Day	$35.00
	Day	$35.00

* Rates for Inspectors will include travel time and mileage. "½ day" will be construed to mean 4 hours **on site**. "Day" will be construed to mean more than 4 hours and up to 8 hours **on site**. The costs for preparing all tests while on site will also be included in the 1/2 day or daily rate.

Asphalt Core Drilling ** + Five (5) core minimum		
6" +	UN	$400.00
8" +	UN	$425.00
Minimum Day Rate *** +	Day	$1,995.00

** Rates for Core Drilling will include travel time, mileage, crew, equipment time and patching the core hole. If the County Engineer deems the core patch to have failed within a two-year period, the vendor is responsible to repair/restore the asphalt patch core.

*** Minimum Day Rate shall apply only if the number of cores to be taken multiplied by the unit price is lower than the Minimum Day Rate. If the number of cores to be taken multiplied by the unit price is greater than the Minimum Day Rate, the Minimum Day Rate will not apply.

QC Test - NJDOT Spec

Extraction Analysis	sample	$85.00
Bulk Specific Gravity (density)	sample	$40.00
Max Theoretical SG - ASTM D2041	sample	$40.00

Structural Steel

	Unit	Unit Price
Field Inspection (min 4 hours each)		

Inspector - high strength bolts, torque*	1/2 Day	$525.00
	Day	$850.00
Inspector - plumbness of members*	1/2 Day	$525.00
	Day	$850.00
Inspector - field welding*	1/2 Day	$550.00
	Day	$895.00

* Rates for Inspectors will include travel time and mileage. "½ day" will be construed to mean 4 hours **on site**. "Day" will be construed to mean more than 4 hours and up to 8 hours **on site**. The costs for preparing all testing tests while on site will also be included in the 1/2 day or daily rate. Rates will also include preparation and submittal of Field Inspection Reports.

Soils

	Unit	**Unit Price**
Test Borings		
Mobilization- Demobilization*	LS	$500.00
Borings in earth 3 3/8" ID Hollow Stem Auger (Truck)	LF	$37.00
Borings in earth 3 3/8" ID Hollow Stem Auger (crawler)	LF	$38.00
Borings in rock or boulders "NX" 2 1/8" diameter	LF	$50.00
Undisturbed samples	LF	$100.00
Senior Soils Inspector**	½ Day	$595.00
Senior Soils Inspector**	Day	$1,100.00
Minimum charge for drilling rigs***	Day	$2,350.00
Preparation & Coordination for NJDEP Permits****	Hour	$250.00

* Mobilization-Demobilization will include all costs associated with mobilizing the equipment and crew to the site for the entire project assignment; procuring necessary permits, and providing the necessary traffic control devices (such as drums, signs, cones, etc., with the exception of Traffic Directors, Flaggers).

** Rates for Inspectors will include travel time and mileage. "½ day" will be construed to mean 4 hours **on site**. "Day" will be construed to mean more than 4 hours and up to 8 hours **on site**. The costs for preparing all testing tests while on site will also be included in the 1/2 day or daily rate. Rates will also include preparation and submittal of Field Inspection Reports and Boring Logs. Rates will also include sampling and examination of soils.

*** Minimum Charge for drilling rigs shall apply only if the total borings length multiplied by the unit price is lower than the Minimum Charge for drilling rigs. If the total borings length multiplied by the unit price is greater than the Minimum Charge for drilling rigs, the Minimum Charge for drilling rigs will not apply.

**** If, because of the proposed depth of boings, the driller must obtain an NJDEP Permit, the County will allow a maximum of two (2) hours for administrative preparation and coordination associated with the NJDEP permit.

Lab analysis*

Gradation (Sieve) ASTM D6913	sample	$75.00
Gradation (Wet) ASTM D1140	sample	$75.00
Hydrometer ASTM D7928	sample	$120.00
Atterberg Limits ASTM D4318	sample	$92.00
Moisture Content ASTM D2216	sample	$10.00
Sand Cone Density ASTM D1556	sample	$200.00
Loose Unit Weight D4253	sample	$200.00
Direct Shear ASTM D-3080	sample	$540.00
Moisture-Density Relations (Compaction)		
Standard Proctor ASTM D698	sample	$190.00
Modified Proctor ASTM D1557	sample	$190.00
Classification (visual)	sample	$22.00
Description & ID of Soils Visual-manual ASTM D2488	sample	$22.00
Specific Gravity ASTM D854	sample	$80.00
Permeability ASTM D2434	sample	$200.00

PH Value	sample	$50.00
DGA Analysis NJDOT spec	sample	$134.00
Pkg. of tests of Granular backfill - Reinforced earth Projs	sample	$1,500.00
Minimum Resistivity	sample	$105.00
Compressive Strength of Rock ASTM D7012	sample	$170.00

Top Soil

Full analysis NJDOT Specification	sample	$225.00

Field Inspection**

Senior Soils Inspector	1/2 day	$525.00
	Day	$850.00
Soils engineer	1/2 day	$595.00
	Day	$1,100.00
Nuclear Density testing	1/2 day	$35.00
	Day	$35.00

* Sample rates to include all costs associated with performing the analysis and preparation and submission of the analysis report.

** Rates for Inspectors will include travel time and mileage. "½ day" will be construed to mean 4 hours on site. "Day" will be construed to mean more than 4 hours and up to 8 hours on site. The costs for preparing all testing tests while on site will also be included in the 1/2 day or daily rate. Rates will also include preparation and submittal of Field Inspection Reports. All Lab Analysis rates shall include the cost of preparation of sample, testing and reporting.