



FRANK H. LEHR ASSOCIATES

A NJ Corporation – Certificate of Authorization No 24GA27950400
CONSULTING CIVIL ENGINEERS

September 27, 2011
Revised September 29, 2011

VIA EMAIL TO LEGACYCHB@COMCAST.NET

Township of Union Board of Education
c/o Legacy Construction Management

ATT: Brian Meade

RE: Proposal for Construction Inspection and Testing
Proposed Additions & Alterations
Central 5 Jefferson School
Union, New Jersey

Ladies and Gentlemen:

In accordance with your request, we are pleased to submit this proposal for earthwork inspection and testing services for the construction of the additions and alterations to the Central 5 Jefferson School in Union, New Jersey.

The soils inspection may include, as required, inspection of the removal of unsuitable soils, inspection of the subgrade prior to fill placement, inspection and testing of the placement and compaction of the fill, appropriate laboratory testing of the fill materials, and inspection of the footing excavations during foundation construction operations. This work will be in accordance with the recommendations presented in our Geotechnical Engineering report dated August 10, 2010 and the plans and specifications prepared for this project.

Our inspections and testing are conducted for the evaluation of the various construction materials with respect to project requirements. We do not supervise or control the Contractor's operations or procedures, nor are we responsible for job site safety.

It is our practice to issue detailed written Engineering reports of our inspections. The reports include the results of all field and laboratory tests, a summary of the daily logs of our inspector covering the progress of the work, and a cover letter summarizing the status of the project and indicating what work has been satisfactorily completed. These reports are issued generally on a monthly basis or upon completion of some convenient phase of the work.

All of our work will be accomplished at the unit rates shown on the attached Schedule of Fees for Field Inspection. The progress of the work will be beyond our control and, to some degree, beyond the control of the Contractor. The type of weather, equipment breakdowns, and the availability of material all have a significant effect on the job progress. Reinspections of deficient work will involve additional costs. For these reasons, it is impossible for us to give an accurate estimate of the net cost of our billings on this project.



However, based on the estimate you provided to us, we recommend a budget fee as follows:

ESTIMATE:

30 field days, 8 hours/day including travel (say 240 hours)
30 field days of testing w/Troxler nuclear gauge
4 samples to be tested for Grain Size Analysis & Modified Proctor density
2 hours per week of engineering oversight plus 5½ hours spent already attending pre-bid meetings (say 18 hours)

Lab Grain Size Analysis	4	samples	@ \$ 75.00/each	\$ 300.00
Lab Maximum Density	4	samples	@ \$175.00/each	700.00
Field Compaction Testing				
Regular Work Week	240	hours	@ \$ 65.00/hour	15,600.00
Surface Moisture Density Gauge	30	days	@ \$100.00/day	3,000.00
Engineering Time	18	hours	@ \$160.00/hour	<u>2,880.00</u>
			Estimated Total	\$22,480.00

SUGGESTED BUDGET: \$23,000.00

We require at least 24 hours notice prior to the start or resumption of work in order to schedule field personnel.

Soil samples for proposed use in the controlled fill operation should be submitted to our laboratory for testing as far in advance of the beginning of earthwork as feasible. A 50-pound sample is required for testing purposes.

We request that 2 sets of the applicable plans and specifications be sent to us at least 1 week prior to the start of work in order that we may review and properly instruct our field personnel and have a field and office set to promote better communications.

The purpose of our testing is to analyze the structural characteristics of the soil materials. We do not test for nor investigate environmental health aspects.

For our mutual protection, we request that you review this letter and the attached fee schedule. If this agreement is acceptable to you, please sign 1 copy and return. Should these terms differ from your understanding of the work, please contact us.



We appreciate the opportunity of submitting this proposal to you for your consideration.

Very truly yours,

FRANK H. LEHR ASSOCIATES
A New Jersey Corporation

*Email only version authorized by
Louis G. Adelson*

Louis G. Adelson, PE
President

/maf

Your signature will be considered as your order to us to proceed with this work. By signing this proposal, you agree that this proposal is acceptable to you and that you are authorized to sign on behalf of the above-named addressee.

ACCEPTANCE SIGNATURE: _____

TYPE OR PRINT: NAME: _____

TITLE: _____

DATE: _____

NO. COPIES REPORT REQUIRED: _____



**SCHEDULE OF FEES FOR FIELD INSPECTION
INSPECTION OF EARTHWORK, CONCRETE
ASPHALT AND STEEL OPERATIONS**

January 2009

DAY WORK: Charges are made for field and travel time

Senior Inspector/Field Engineer	\$ 80.00	per hour
Inspector	65.00	per hour
Minimum Fee	350.00	per part day

NIGHT WORK: Charges are made for field and travel time

Inspector (Fee per night up to 8 hours)	\$650.00	per night
Time in Excess of 8 Hours Per Night	105.00	per hour

Time on the job during the regular work week in excess of 8 hours per day and all time on Saturdays, Sundays, and holidays will be invoiced at the hourly rate times a factor of 1.45 for day work and at the rate outlined above for night work.

All out-of-pocket expenses (e.g. travel; subsistence, if required; overnight shipping charges; reproductions; photographs; filing fees, application fees, building permit fees, etc.) will be billed at cost plus a handling charge of 15 percent. Local mileage is included in overhead expense. Mileage outside of Essex, Union and Hudson Counties will be charged at \$0.40/mile.

FIELD TESTING EQUIPMENT

Field equipment brought to the site by the Inspector for soil and/or asphalt testing will be invoiced at the following rates

Density Equipment, Balloon Type or Sand Cone	\$ 50.00	per day
Soil or Asphalt Density Gauge, Troxler 4640B, 3411B, or 3440A	100.00	per day

LABORATORY TESTING (For Samples Collected or Prepared by Our Personnel)

Soil Grain Size Analysis- Sieve Method or Hydrometer Method	\$ 75.00	each
Coarse Aggregate Grain Size	150.00	each
Atterberg Limits	85.00	each
Laboratory Density Test – D 1557 or D 698	175.00	each
Concrete Cylinder Compression Tests, including molds	18.00	each

Pick up of cylinders will be billed at the above hourly rate without a minimum fee.

SUPERVISOR'S TIME

If difficulties arise at the project site and a Project Manager or Project Engineer must inspect the work, review the Engineering aspects, or prepare a special report, this time shall be invoiced at \$160.00 and \$120.00/hour, respectively. Similarly, if the Project Manager or Project Engineer is called to the site by the Contractor, the Owner, or the Owner's Representative, or a meeting is scheduled which requires the Engineer's presence, that time shall be billed at these hourly rates.

The fees listed will be valid for 1 year from the starting date of the project. At the end of each work year, the fees may be increased by an amount not to exceed 10 percent per annum.

PAYMENT

Payment for Professional Services is due upon presentation of the invoice