



**Of Massachusetts Inc.**  
**"The Construction Testing People"**

January 23, 2025  
P29308A

Mr. Lap Yan, RA, PHD, MCPPO  
Town of Brookline  
333 Washington Street  
Brookline, MA 02445

RE: Pierce School  
Brookline, Massachusetts

Dear Mr. Yan,

We are pleased to submit the following contract for testing and inspection services for your consideration.

**SOILS**

Mechanical Analysis	\$ 130.00
Proctor Density	\$ 140.00
#200 Wash Sieve	\$ 130.00
Professional Engineer, as needed, per hour	\$ 200.00
Staff Engineer (EIT), as needed, per hour	\$ 95.00
Field Inspection	
Services of an experienced technician at the site to observe placement of fill and conduct required density tests to check compaction of same; all required equipment for testing to be supplied by us and used in space provided by the General Contractor.	
Sand Cone Method (per hour)	\$ 54.00
Densometer Method (per hour)	\$ 56.00
Daily Troxler usage charge (per day)	\$ 55.00
Transportation of soil samples to lab for testing when man not at site (per trip)	\$ 75.00



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## **CONCRETE**

### **Field Inspection**

Services of an experienced inspector at the site to check slump, air, and density of fresh concrete; fabricate test specimens; daily report of work; specimens to be temporarily stored at site in acceptable box supplied by the General Contractor.

(per hour)

**\$ 52.50**

### **Cylinder Testing**

Includes casting in molds (furnished by UTS), removal from molds, labeling, entering into our database, curing and storage in proper CCRL approved curing facility, compressive strength testing per specified schedule (ASTM C39), reporting results and disposal. All cylinders logged into lab reporting system will be compressive strength tested and reported.

(per sample)

**\$ 20.00**

Transportation of cylinders to lab when man not at site or when three or more sets (per trip)

**\$ 75.00**

## **ACI LEVEL II CONCRETE CONSTRUCTION SPECIAL INSPECTOR**

The services of an ACI Level II Concrete Construction Special Inspector at the site qualified to inspect and record the results of concrete construction inspection based upon codes and job specifications during pre-placement, placement, and post-placement operations. (per hour)

**\$ 70.00**

## **F-NUMBER TESTING**

Services of an experienced technician to conduct testing concrete floor slab(s) for F(f) and F(1) tolerances conducted in accordance with the provisions set forth in ASTM-E1155-14 and ACI Materials Journal #117 using the Allen Face Co., D-Meter. (per section)

**\$ 800.00**



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## **MASONRY**

### **Field Inspection**

Services of an experienced inspector to witness batching of mortar in the field; witness placing of block; sampling of block, grout, and mortar in accordance with specifications; witnessing fabrication of test prisms; daily report of work.

(per hour)

\$ 52.50

### **Mortar Testing**

Curing, testing, reporting of mortar cubes in conjunction with field inspection (per cube)

\$ 20.00

### **Grout Prism Testing**

Curing, capping, testing, reporting of grout test prisms in conjunction with field inspection (per prism)

\$ 35.00

### **Block Prism Testing**

Curing, capping, testing, reporting of block test prisms, fabricated by the mason contractor, in conjunction with field inspection (2 block high-8x16) (per prism)

\$ 75.00

Transportation of test samples to lab for testing when man not at site (per trip)

\$ 75.00

## **STRUCTURAL STEEL**

### **Reinforcing Steel**

Services of an experienced reinforcing steel inspector to monitor/inspect reinforcing placement to ensure the specified grade, size, clearances, coverage, spacing, quantities, supports and cleanliness is in conformance with the approved reinforcing steel drawings. daily reporting.

(per hour)

\$ 60.00



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**Fabrication**

Services of an experienced inspector to perform a structural steel shop inspection. Duties will include the review of the Quality Control Manual, welding procedures, welder qualifications, Certificates of Compliance, material traceability and quality control inspection reporting as required in the Statement of Special Inspections. Perform a visual inspection of the cutting, layout, bolting and welding procedures. Perform visual inspections of completed members including dimensional verification, weld quality and conformance with the respective shop drawing. Perform non-destructive testing using the magnetic particle and/or ultrasonic methods, as required. A comprehensive report will be generated describing the observations of said inspection (per hour) \$ 150.00

**Plus, travel at fabrication rate, expenses & lodging, if applicable.**

**Erection**

Services of an experienced structural steel inspector to monitor/inspect the erected structural steel members to ensure the specified grade, size, and connections are in conformance with the approved structural steel drawings.  
(per hour) \$ 67.50

Use of Skidmore-Wilhelm bolt tension calibrator for calibration of wrenches, if needed (per day) \$ 100.00

**Shear Connector Stud**

Services of and experienced inspector to inspect the shear connector installation including the verification of size, quantities, and installation. Testing will be performed in conformance with section 8 of the ASW D1.1 Steel Welding Code.  
(per hour) \$ 67.50

**Light Gauge Metal Framing**

Services of an experienced inspector to verify type, size, quantity, location, details, and connections of framing members.  
(per hour) \$ 67.50



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**LOAD TEST – Threaded Rod or Reinforcing Steel (Pull Test)**

Services of an experienced technician to perform load testing on adhesive or mechanical embedded threaded rod to ensure the specified loads are achieved without displacement of the thread rod. Testing is performed in conformance with ASTM E488. (Testing will be performed with a one or two man crew dependent on quantity, fixtures and loads)  
 (per hour)

\$ 150.00

**NONDESTRUCTIVE TESTING**

**Ultrasonic Testing**

Services of a certified technician to perform ultrasonic examination of welds in accordance with AWS-D1.1 steel welding code and ASTM E-164.  
 (per hour)

\$ 72.50

**Magnetic Particle Testing**

Services of a certified technician to perform magnetic particle and/or dye penetrant examination of welds in accordance with AWS-D1.1 steel welding code and ASTM E-706.  
 (per hour)

\$ 72.50

**STRUCTURAL WOOD FRAMING**

Services of an experienced technician at the site for the visual inspection of wood trusses, wood beams, floor decking, nailing, screw patterns and materials used for compliance with job specifications.  
 (per hour)

\$ 62.50

**ROOFING INSPECTION**

The services of an experienced technician for control and inspection of roofing in accordance with the job specifications and requirements; daily reporting.  
 (per hour)

\$ 62.50



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## **WATERPROOFING INSPECTION**

Services of an experienced technician to observe the application of waterproofing/sealant in accordance with project specification and manufacturer's recommendations.

(per hour)

\$ 62.50

## **AIR VAPOR BARRIER A.V.B INSPECTION**

Services of an experienced technician to perform visual inspection of the air vapor barrier application, including the inspection of the adhesive application, A.V.B. application and overlapping, and verification of the manufacturer's application procedures.

(per hour)

\$ 62.50

## **FIREPROOFING INSPECTION**

Services of an experienced inspector to observe application of fireproofing in accordance with specifications.

(per hour)

\$ 60.00

ASTM E736 Test Methods for Cohesion/Adhesion (per test)

\$ 35.00

Laboratory Testing (per hour)

\$ 75.00

## **FIRESTOPPING INSPECTION**

### **IFC Certified Inspector**

Services of an experienced **International Firestop Council (IFC) certified inspector** to visually inspect and test fire stop systems. Inspector will also review project plans and specifications as needed for compliance with,

ASTM E2174-Standard Practice of On-Site Inspection of Installed Fire Stops.

ASTM E2393-Standard Practice of On-Site Inspection of Installed Fire Resistive Joint Systems and Fire Barriers.

(per hour)

\$ 200.00

**In order for UTS to perform the required inspection and field testing for the on-site firestop systems, UTS needs a complete set of inspection documents, including the listed design for every firestop system that is in use on-site from each trade that is installing firestop, along with an on-site kick off meeting.**



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## **BITUMINOUS CONCRETE**

### **Plant Observation and Testing**

Includes the services of an experienced technician at the batch plant to perform gradations, extractions, specific gravity, density, and stability determinations per Marshall method and submit daily reports.

(per hour) \$ 60.00

### **Field Observation and Testing**

The services of an experienced asphalt technician at the project site to observe placement of bituminous concrete, depth of binder and topcoat, observe compaction procedures and submit daily reports of these activities.

(per hour) \$ 60.00

### **Laboratory Analysis of Materials:**

Extractions (per test) \$ 125.00

Marshall Density Determinations (each) \$ 125.00

In Place Density (each) \$ 125.00

## **WINDOW TESTING**

**See attachment A**

**The final cost of testing services will be determined by the actual testing and inspections Performed at the unit prices provided in the price proposal.**

**Estimated Cost of Testing – Not to Exceed without Consent \$250,000.00**

U T S of Massachusetts, Inc. is an approved testing laboratory, License No. CTL-009, complying with all state regulations governing such certifications.

Testing and inspection can commence immediately. Please notify our office as to who will be requesting services covered by this proposal.

The above prices are based on the following conditions:

- A. Notification of inspection must be received twenty-four (24) hours prior to inspection for prompt service. Short notice and/or same day notifications are subject to a \$100.00 surcharge.



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- B. Any inspections where the inspector or technician is on site for less than 4 hours will be billed at a minimum day. In any case that the inspector or technician is on site longer than 4 hours it will be billed at the maximum day rate.
- C. Overtime Monday through Friday will be at time and one-half rate. Saturdays, Sundays, and Holidays will be billed at double time rate. Overtime will be billed anytime the workday exceeds 8 hours or if work is done outside of normal business hours. Normal business hours are Monday through Friday 7:00 AM to 5:00 PM.
- D. Cancellation of scheduled inspection will be a minimum day rate unless notified four (4) hours prior to scheduled inspection. Cancellation notifications must be emailed to [dispatch@utsofmass.com](mailto:dispatch@utsofmass.com). Cancellations must include: Assigned UTS Job Number or Project Address, type of inspection, date and time of inspection, along with contact information (Contact Name, Company, Phone Number of person cancelling inspection). Cancellations will only be received during normal business hours.
- E. Multi-Service field inspection is when an inspector performs inspections for multiple services during a single site visit. Multi-Service field inspections will be billed at the higher rate of the two services. This service is as permitted by the daily workload.
- F. There will be no additional charges for mileage or any other expenses including parking. If parking is not provided by the project free of charge, it will be invoiced at cost plus a 10% charge.
- G. Travel time will be billed as part of work hours. One (1) hour round trip.
- H. All lab work performed outside of normal business hours will be subject to a lab opening surcharge.
- I. Any changes to scheduled concrete cylinder breaks after they have been inventoried will be subject to an additional charge of \$25.00 per cylinder.
- J. Client agrees not to hire UTS personnel for at least one (1) year after completion of this contract.
- K. Please be aware that all of our reports are available as PDF files via email. Upon request for additional administrative work, reports needed to be uploaded into site specific formats are subject to administrative charge.
- L. This proposal and the prices set forth herein shall remain valid for 90 days. In the event that this proposal is not accepted within 90 days of issuance, the prices contained within the proposal shall be reviewed and may be subject to escalation.
- M. If Client does not commence the work described in this proposal within six (6) months after the date the Client has accepted this proposal, the prices for the work described in this proposal shall be revisited and may be subject to escalation.
- N. The prices set forth in this proposal assume that there is no prevailing wage applicable to the professional services detailed in this proposal and to be performed for the Client.





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- O. To the fullest extent permitted by law, Contractor/Owner shall indemnify, defend, and hold harmless UTS, UTS's consultants, and any agents and employees of each (with counsel acceptable to UTS) from and against any and all claims, damages, losses and expenses, for bodily injury, sickness, disease, or death or injury to or destruction of tangible property, including but not limited to all defense costs and attorney's fees, arising out of or resulting from performance of the work, including any and all alleged acts or omissions by UTS or its consultants, agents or employees, as well as those arising out of the acts or omissions of Contractor/Owner, an Architect, a Subcontractor, a Supplier, anyone directly or indirectly employed by them or anyone for whose acts they may be liable, or any other person or entity regardless of whether or not such claim, damage, loss or expense is caused in part by a party indemnified hereunder. Notwithstanding any other provision of this Agreement, such obligation shall be read to comply with applicable statutes and shall be extended to all circumstances referenced herein unless specifically prohibited by law. All obligations under this Section shall survive any termination of this Agreement.

We appreciate the opportunity to be of service to you and we look forward to working with you on this project.

Please **SIGN** and **RETURN** accepted proposal prior to commencement of work, **THANK YOU**.

Sincerely,

U T S OF MASSACHUSETTS, INC.

*Michael A. Garland*

Michael A. Garland  
 Quality Control Manager

ACCEPTED BY: \_\_\_\_\_ DATE: \_\_\_\_\_

P29308A



**Utsof Massachusetts Inc.**  
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## **ATTACHMENT A**

### **Window, Door, & Curtain Wall Testing**

Date: January 23, 2025

Re: Field Tests of Windows, Doors, and Curtain Wall  
Pierce School  
Brookline, Massachusetts

Dear Mr. Yan,

We are writing in response to your request for a proposal to perform air infiltration and/or water penetration testing on windows, doors and curtain walls installed at the above referenced project. Based upon our conversation, we propose to provide the following testing services.

We propose to perform air infiltration testing in general accordance with ASTM E783, "*Standard Test Method for Field Measurement of Air Leakage through Installed Exterior Windows and Doors*," and water penetration testing in general accordance with ASTM E1105, "*Test Method for Field Determination of Water Penetration of Installed Exterior Windows, Curtain Walls and Doors by Uniform or Cyclic Static Air Pressure Difference*," or AAMA 502-12, "*Voluntary Specification for Field Testing of Newly Installed Fenestration Products*," as well as AAMA 501.2 "*Quality Assurance and Diagnostic Water Leakage Field Check of Installed Storefronts, Curtain Walls and Sloped Glazing Systems*." Testing will be conducted at the pressures stated in the specifications.

Access to the interior surfaces of the window/door/curtain walls, electrical connections, and water connections for our hoses located near the test areas are to be provided by others. Access to the exterior is also to be provided by others, i.e., lifts or staging. We recommend that interior finishes should not be installed at the test locations until after the tests are completed, or, if finishes are already in-place, such finishes should be removed. Any damage to paint and wall surfaces resulting from the attachment of the test chamber is to be repaired by others. Perimeter caulking beads shall be allowed to cure for a minimum of 72 hours prior to field testing of the window.

We request that representatives of the window/door/curtain wall installer, window/door/curtain wall manufacturer, and any other trades which are associated with the installation, such as the air/vapor barrier installer, weatherproofing contractor, and architect, be notified of these tests so that they may be present during testing. Upon completion of our tests, we will issue a written report detailing our tests and results for the window/door/curtain walls and describing our observations of the testing.



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Our charges for these testing services for the windows, doors, and curtain walls, including the report, will be at a rate of \$ 3,000.00 per day. This is based upon a regular workday of eight hours (seven hours in the field and 1 hour to write the report) during the regular work week of Monday through Friday.

If a quantity of windows that can be tested in a day is provided, it is strictly an estimate based on ideal conditions. The amount of windows to be tested is subject to change due to variation of window size(s), interior and exterior window accessibility, and project conditions. Our charges for any other services, such as attendance of meetings, if required, will be invoiced for actual hours of service in accordance with "Schedule of Fees and Conditions," page which is hereby made part of this proposal. Reimbursable expenses, if any, will be invoiced at cost plus ten percent. Invoices will be submitted once a month for services performed during the previous month. Payment of our invoices will be due within thirty days of invoice date.

Note: On the occasion when UTS is on-site and windows cannot be tested for any reason, such as incomplete installation or lack of access, etc., resulting in a cancellation of the testing, a minimum charge of \$ 1,500.00 will be applied.

We appreciate the opportunity to submit our proposal and we will be pleased to be of service. If this proposal is acceptable to you, please sign the enclosed copy and return it to us for our files. In addition, please provide a job number or purchase order number, and the name and phone number of a billing contact.

Sincerely,  
U T S OF MASSACHUSETTS, INC.

*Michael A. Garland*

Michael A. Garland  
Quality Control Manager

ACCEPTED BY: \_\_\_\_\_ DATE: \_\_\_\_\_



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## **Schedule of Fees and Conditions**

### **1. Fees for Weatherproofing Inspection and Testing Services**

Our fees for weatherproofing consulting, inspection, and testing services are based on the time worked on the project by our staff, including travel time. Our charges for staff engineers, weatherproofing construction inspectors and testing technicians are for services performed during the regular work week, Monday through Friday, a full day consists of 7 hours in the field and 1 hour writing the report. Saturdays, Sundays, and/or Holidays will be invoiced at 2.0 times the rate.

### **2. Equipment and Services by Others**

1. Test pressures and procedures to be supplied by others.
2. Access to the interior and exterior of the test area. This includes scaffolding, ladders, lifts as well as a lift operator or other means of access to the interior and exterior wall surfaces by our personnel for purposes of inspections and testing, if required, shall be provided by others.
3. Water supply and connections for our hoses for purposes of water testing, if required, shall be provided by others. Water source should be within 250 ft from testing area, if further than 250 ft additional hose will be supplied by contractor.
4. Labor and materials to make and repair openings in exterior and interior walls for purposes of our examinations, if required, shall be provided by others. **UTS shall not be responsible for any repair work for damage which may have resulted from testing.**
5. Pertinent project architectural drawings, shop drawings, specifications and related documentation shall be provided by others for our review.
6. If the exterior temperature is below 32° Fahrenheit, a tent and heater will be supplied by others to maintain the work area temperature above freezing.
7. When union are on a project and must be used, the union workers must be provided by others.
8. Onsite parking must be supplied for one fenestration testing vehicle.

### **3. Payment**

Our invoices generally will be submitted once a month for services performed during the previous month. Payment of our invoices will be due within thirty days of invoice date. If invoices are to be submitted and to be approved by other parties, including the architect, prior to payment, such parties shall use due diligence in processing the invoices and shall advise us promptly of any delays affecting their approval and payment.



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If a quantity of windows that can be tested in a day is provided, it is strictly an estimate based on ideal conditions. The amount of windows to be tested is subject to change due to variation of window size(s), interior and exterior window accessibility, and project conditions. Our charges for any other services, such as attendance of meetings, if required, will be invoiced for actual hours of service in accordance with "Schedule of Fees and Conditions," page which is hereby made part of this proposal. Reimbursable expenses, if any, will be invoiced at cost plus ten percent. Invoices will be submitted once a month for services performed during the previous month. Payment of our invoices will be due within thirty days of invoice date.

Note: On the occasion when UTS is on-site and windows cannot be tested for any reason, such as incomplete installation or lack of access, etc., resulting in a cancellation of the testing, a minimum charge of \$ 1,500.00 will be applied.

We appreciate the opportunity to submit our proposal and we will be pleased to be of service. If this proposal is acceptable to you, please sign the enclosed copy and return it to us for our files. In addition, please provide a job number or purchase order number, and the name and phone number of a billing contact.

Sincerely,  
U T S OF MASSACHUSETTS, INC.

*Michael A. Garland*

Michael A. Garland  
Quality Control Manager

ACCEPTED BY: \_\_\_\_\_ DATE: \_\_\_\_\_

Pierce School, Brookline, MA  
Materials Testing and Construction Inspections

SOIL

	John Turner Consulting			LiRo Engineers			UTS of Massachusetts, Inc.		
	Per Sample/ Specimen Half Day	Half Day	Full Day	Per Sample/ Specimen	Half Day	Full Day	Per Sample/ Specimen	Half Day	Full Day
Mechanical Gradation Analysis	\$ 115.00	-	-	\$ 100.00			\$ 130.00		
Modified Proctor Test	\$ 135.00	-	-	\$ 125.00			\$ 140.00		
Compaction Test by Nuclear Methods	-	\$ 300.00	\$ 600.00	N/A	\$ 350.00	\$ 700.00		\$ 224.00	\$ 448.00
Professional Engineer	-				\$ 700.00	\$ 1,400.00		\$ 800.00	\$ 1,600.00
Sampling at Site	-	\$ 300.00	\$ 600.00		\$ 350.00	\$ 700.00	\$ 75.00		
No. 200 Wash Sieve	\$ 115.00	-	-	\$ 150.00			\$ 130.00		
Nuclear Gauge	\$ 55.00	-	-	No Charge			\$ 55.00		
Overtime Multiplier			x1.5			1.50			1.50
Total Anticipated Testing Cost (general per day cost)	\$		655.00	\$		2,800.00	\$		432.00

CONCRETE CONTRUCTION

	Per Sample/ Specimen Half Day	Half Day	Full Day	Per Sample/ Specimen	Half Day	Full Day	Per Sample/ Specimen	Half Day	Full Day
ACI - CCI	-	\$ 300.00	\$ 600.00		\$ 350.00	\$ 700.00		\$ 280.00	\$ 560.00
ACI - CFTT	-				\$ 350.00	\$ 700.00		\$ 210.00	\$ 420.00
AWS - CWI	-	\$600	\$950		\$ 480.00	\$ 960.00		\$ 290.00	\$ 580.00
Cylinder Compression Test (ASTM C-39)	\$ 20.00	-	-	\$ 20.00			\$ 20.00		
Transportation of Test Specimen to Lab	\$		150.00		No charge		\$		75.00
Overtime Multiplier			x1.5			1.50			1.50
Total Anticipated Testing Cost	\$		700.00	\$		75,000.00	\$		420.00

MASONRY CONSTRUCTION

	Per Sample/ Specimen Half Day	Half Day	Full Day	Per Sample/ Specimen	Half Day	Full Day	Per Sample/ Specimen	Half Day	Full Day
EIT	-	\$ 300.00	\$ 600.00		\$ 500.00	\$ 1,000.00		\$ 380.00	\$ 760.00
Masonry Field Inspector ( ACI or ICC) - UTS ONLY								\$ 210.00	\$ 420.00
AWS - CWI	-	\$600	\$950		\$ 480.00	\$ 960.00		\$ 290.00	\$ 580.00
Mortar Cube Compression Testing (ASTM C780)	\$ 20.00	-	-	\$ 20.00			\$ 20.00		
Grout Prism Compression Testing (ASTM C780)	\$ 20.00	-	-	\$ 20.00			\$ 35.00		
Masonry Prism Compression Testing (ASTM C1314)	\$ 125.00	-	-	\$ 20.00			\$ 75.00		
Overtime Multiplier			x1.5			1.50			1.50
Total Anticipated Testing Cost	\$		780.00	\$		25,000.00	\$		420.00

STEEL CONSTRUCTION

	Per Sample/ Specimen	Half Day	Full Day	Per Sample/ Specimen	Half Day	Full Day	Per Sample/ Specimen	Half Day	Full Day
Inspector I (Bolt-Up, Drilled Anchor)		\$600	\$950		\$ 480.00	\$ 960.00		\$ 270.00	\$ 540.00
Inspector II		\$650	\$1,100		\$ 600.00	\$ 1,200.00		\$ 600.00	\$ 1,200.00
EIT					\$ 500.00	\$ 1,000.00		\$ 380.00	\$ 760.00

Pierce School, Brookline, MA  
Materials Testing and Construction Inspections

SOIL

	John Turner Consulting			LiRo Engineers			UTS of Massachusetts, Inc.		
	Per Sample/ Specimen Half Day	Half Day	Full Day	Per Sample/ Specimen	Half Day	Full Day	Per Sample/ Specimen	Half Day	Full Day
Mechanical Gradation Analysis	\$ 115.00	-	-	\$ 100.00			\$ 130.00		
Modified Proctor Test	\$ 135.00	-	-	\$ 125.00			\$ 140.00		
Compaction Test by Nuclear Methods	-	\$ 300.00	\$ 600.00	N/A	\$ 350.00	\$ 700.00		\$ 224.00	\$ 448.00
Professional Engineer	-				\$ 700.00	\$ 1,400.00		\$ 800.00	\$ 1,600.00
Sampling at Site	-	\$ 300.00	\$ 600.00		\$ 350.00	\$ 700.00	\$ 75.00		
No. 200 Wash Sieve	\$ 115.00	-	-	\$ 150.00			\$ 130.00		
Nuclear Gauge	\$ 55.00	-	-	No Charge			\$ 55.00		
Overtime Multiplier			x1.5			1.50			1.50
Total Anticipated Testing Cost (general per day cost)	\$		655.00	\$		2,800.00	\$		432.00

CONCRETE CONTRUCTION

	Per Sample/ Specimen Half Day	Half Day	Full Day	Per Sample/ Specimen	Half Day	Full Day	Per Sample/ Specimen	Half Day	Full Day
ACI - CCI	-	\$ 300.00	\$ 600.00		\$ 350.00	\$ 700.00		\$ 280.00	\$ 560.00
ACI - CFTT	-				\$ 350.00	\$ 700.00		\$ 210.00	\$ 420.00
AWS - CWI	-	\$600	\$950		\$ 480.00	\$ 960.00		\$ 290.00	\$ 580.00
Cylinder Compression Test (ASTM C-39)	\$ 20.00	-	-	\$ 20.00			\$ 20.00		
Transportation of Test Specimen to Lab	\$		150.00	No charge			\$		75.00
Overtime Multiplier			x1.5			1.50			1.50
Total Anticipated Testing Cost	\$		700.00	\$		75,000.00	\$		420.00

MASONRY CONSTRUCTION

	Per Sample/ Specimen Half Day	Half Day	Full Day	Per Sample/ Specimen	Half Day	Full Day	Per Sample/ Specimen	Half Day	Full Day
EIT	-	\$ 300.00	\$ 600.00		\$ 500.00	\$ 1,000.00		\$ 380.00	\$ 760.00
Masonry Field Inspector ( ACI or ICC) - UTS ONLY								\$ 210.00	\$ 420.00
AWS - CWI	-	\$600	\$950		\$ 480.00	\$ 960.00		\$ 290.00	\$ 580.00
Mortar Cube Compression Testing (ASTM C780)	\$ 20.00	-	-	\$ 20.00			\$ 20.00		
Grout Prism Compression Testing (ASTM C780)	\$ 20.00	-	-	\$ 20.00			\$ 35.00		
Masonry Prism Compression Testing (ASTM C1314)	\$ 125.00	-	-	\$ 20.00			\$ 75.00		
Overtime Multiplier			x1.5			1.50			1.50
Total Anticipated Testing Cost	\$		780.00	\$		25,000.00	\$		420.00

STEEL CONSTRUCTION

	Per Sample/ Specimen	Half Day	Full Day	Per Sample/ Specimen	Half Day	Full Day	Per Sample/ Specimen	Half Day	Full Day
Inspector I (Bolt-Up, Drilled Anchor)		\$600	\$950		\$ 480.00	\$ 960.00		\$ 270.00	\$ 540.00
Inspector II		\$650	\$1,100		\$ 600.00	\$ 1,200.00		\$ 600.00	\$ 1,200.00
EIT					\$ 500.00	\$ 1,000.00		\$ 380.00	\$ 760.00



Pierce School, Brookline, MA	John Turner Consulting			LiRo Engineers			UTS of Massachusetts, Inc.		
AWS - CWI		\$600	\$950		\$ 480.00	\$ 960.00		\$ 290.00	\$ 580.00
Ultrasonic		\$650	\$1,100		\$ 500.00	\$ 1,000.00		\$ 290.00	\$ 580.00
Magnetic Particle		\$650	\$1,100		\$ 500.00	\$ 1,000.00	Same as UT Rate above		
Overtime Multiplier			1.50			1.50			1.50
Total Anticipated Testing Cost			\$ 8,500.00			\$ 75,000.00			\$ 540.00
	Per Sample/ Specimen	Half Day	Full Day	Per Sample/ Specimen	Half Day	Full Day	Per Sample/ Specimen	Half Day	Full Day
SPRAYED FIRE-RESISTANT MATERIALS									
Dry Density per Displacement Method (AWCI 12)		\$550	\$1,000	\$ 30.00	\$ 520.00	\$ 1,040.00	\$ 35.00		
Bond Strength per lab testing (ASTM E 736)	\$50			\$ 30.00	\$ 520.00	\$ 1,040.00	\$ 35.00		
Overtime Multiplier		1.50				1.50		\$ 240.00	\$ 480.00
Total Anticipated Testing Cost			\$ 5,550.00			\$ 20,000.00			\$ 1.50
	Per Sample/ Specimen	Half Day	Full Day	Per Sample/ Specimen	Half Day	Full Day	Per Sample/ Specimen	Half Day	Full Day
Dry Density per Displacement Method (AWCI 12)			\$ 1,650.00	\$ 50.00	\$ 520.00	\$ 1,040.00	\$ 35.00		
Bond Strength per lab testing (ASTM E 736)				\$ 50.00	\$ 520.00	\$ 1,040.00	\$ 35.00		
Overtime Multiplier			1.50			1.50			1.50
Total Anticipated Testing Cost			\$ 4,950.00			\$ 5,500.00			-
OTHER EXPENSES									
Indicate			\$ 150.00						
Senior Technician (as/if requested by client)			\$ 90.00	Same rates as noted above					
Bituminous Concrete							\$ 480.00		
IFC Firestop Inspection (per hour)							\$ 200.00		
Windows/ Curtain Wall (per Day)							\$ 3,000.00		
Senior Technician (as/if requested by client) *Per Hour							\$ 100.00		
Total Anticipated Testing Cost						\$ 225,000.00	\$ 200.00		
TOTAL OF ALL UNIT RATES (AS MEASURE)							\$ 3,000.00		
	NOTES:			NOTES:			\$ 100.00		
							TBD by Unit Rate of Inspections performed		
							NOTES:		