

March 27, 2024

Proposal QTB189951

Mr. Danny Melton  
Managing Director of Construction  
Frisco Independent School District  
12025 Rolater Road  
Frisco, Texas 75035

Re: Proposal for Special Inspection and Testing Services  
Proposed Frisco ISD Visual and Performing Arts Center  
NE Quadrant of Legendary Drive and Stockard Drive  
Frisco, Texas

Dear Mr. Melton

Braun Intertec Corporation is pleased to submit this proposal to provide special inspections and materials testing services for the proposed Frisco ISD Visual and Performing Arts Center in Frisco, Texas.

## Our Understanding of the Project

We understand this project includes the design and construction of a new Visual and Performing Arts Center (VPAC) for Frisco Independent School District located at the northeast quadrant of the intersection of Legendary Drive and Stockard Drive in the south-central portion of Frisco, Texas. The multi-level structure of approximately 67,000 square feet (SF,) with a footprint of about 54,000 SF, will include a 1,200-seat performance auditorium, two multipurpose labs, fine arts offices, an art exhibit gallery and back of house support spaces.

The proposed structure will be supported by a deep foundation system consisting of grade beams and drilled, straight-sided shafts (piers) bearing in limestone. The at-grade floor system will consist of a slab-on-grade system supported by a modified subgrade. Subgrade modifications will consist of a four-foot cap of special fill over 10 feet of chemical-injected soils. The second level floor system is designed as a slab-on-metal deck with lightweight concrete.

This project also includes the construction of new utilities and pavement areas. The subgrade materials supporting the proposed drive lanes and parking lots will be lime stabilized to a depth of six inches. The proposed utility installation includes a new storm sewer, sanitary sewer, and waterlines throughout the site.

## Available Information

This proposal was prepared using the following documents and information.

- Project plans and specifications prepared by Corgan, dated December 15, 2023.

- A geotechnical evaluation report titled Proposed Performing Arts Center prepared by Braun Intertec, dated July 7, 2023.
- Email correspondence with Frisco ISD, Corgan, and Joeris personnel discussing project scope and schedule.
- Phone conversation with Brandon Woodbury of Joeris Construction regarding the proposed construction schedule.

## **Project Approach and Staff Qualifications**

### **Special Inspections**

Braun Intertec has adopted the International Code Council (ICC) Model Program for Special Inspection to develop the guiding principles for our special inspection program. This model was selected because it was designed by the ICC to assist owners, contractors, and building officials in the understanding, administration, and enforcement of the special inspection requirements of the International Building Code (IBC). Currently, there are ICC certifications for soils, reinforced concrete, structural masonry, pre-tension/post-tension (pre-stressed) concrete, spray-applied fireproofing, structural steel and bolting, and structural welding.

### **Qualifications and Experience**

Special inspectors will provide special inspections. Our special inspectors have successfully demonstrated their ability to understand the IBC, construction practices, and how to read and understand construction documents. Through experience and examination, our special inspectors have demonstrated their ability to provide special inspection services.

### **Inspections and Reporting**

Our special inspectors summarize the nature, extent, and results of special inspection activities at the time they are performed on Special Inspection Daily Report forms submitted electronically to the general contractor's on-site personnel for review and records. These records can also be transmitted electronically to others who may want to review these documents on an agreed-upon schedule. When unresolved discrepancies are noted, we will document the issues and work with the design and construction team to bring them to resolution. Special inspection final reports will be prepared and submitted upon completion as required by the requirements of the IBC.

### **Communications**

Braun Intertec special inspectors will communicate the results of their inspections to the contractor and our supervising engineer each day special inspections are performed. We strive to have our special inspectors develop a working relationship with the project's structural engineer-of-record. We may attempt contact with the structural engineering consultant periodically to review the work being performed and to request clarifications and directions on any item that may require it.

### **Construction Materials Testing**

Qualified technicians working under the direction of a professional engineer will provide the services. Experience and certification information is available upon request once we are provided with schedule information. Concrete technicians assigned to the project are ACI Concrete Field-Testing Technicians – Grade I certified to conduct the required concrete testing. Soil technicians are certified to use a nuclear gauge for soil density testing, so test results can be determined on-site and evaluated once the required laboratory testing is completed. Field test results will be verbally reported daily to the general contractor on site, with written field and laboratory reports distributed shortly after.

### **Scope of Services**

Services are performed under the direction of a licensed professional engineer, either on a full-time or periodic basis, depending on the construction schedule and when they are requested by the general contractor. After reviewing the available information, we understand our scope of services for the project will be limited to the tasks defined below.

#### **Soil Related Services**

- Observe and evaluate the soils exposed in excavations to determine if the soils are similar to those encountered with the geotechnical evaluation and suitable for support of fill, foundations, or pavements. Our engineer can provide consultation for conditions that appear to differ from the geotechnical evaluation.
- Perform laboratory mechanical analyses (gradations) of prospective fill materials.
- Perform laboratory Proctor tests to determine the maximum Proctor dry densities and optimum moisture contents of prospective fill materials.
- Observe the placement and compaction of the fill.
- Test compacted fill placed below building footprints and oversizing areas, below slabs and/or pavements, and in utility trenches, to determine if the relative compaction was achieved.
- Provide test-roll observations of the foundation's slab subgrade soils to determine if the subgrade is capable of supporting the structural backfill.
- Engineering oversight and review of the services provided.

#### **Deep Foundations Related Services**

- Observe the installation of drilled shafts (piers) on a continuous basis.
- Perform the associated concrete and reinforcement observations related to the foundation elements as shown below.
- Engineering oversight and review of the services provided.

### **Concrete Related Services**

- Observe concrete reinforcement placement.
- Sample and test the plastic concrete for slump, air content, temperature, and prepare test cylinders for laboratory compressive strength testing with ACI level 1 field technicians. We will perform concrete testing on structural items as required by the IBC. Although not required by IBC, we will perform concrete testing on pavement related items.
- Observe the concrete placement and test sample preparation.
- Perform laboratory compressive strength testing of the concrete samples.
- Core and measure concrete pavement thickness of the fire lanes.

### **Fireproofing Related Services**

- Observe and test the spray-applied fireproofing for thickness, density and bond strength.
- Observe and test application of intumescent paint.

### **Firestopping Related Services**

- Perform 3rd party firestop special inspection of through-penetration firestopping and fire-resistive joint systems.
- Review of contract documents, including drawings, specifications, submittals, and materials prior to installation.
- Coordinate with the firestop installer(s) and general contractor with respect to scheduling.

### **Structural Masonry-Related Services**

- Observe the structural masonry construction and grouting operation on a full-time basis.
- Observe the preparation of grout and masonry block prism samples.
- Perform structural masonry grout testing.

### **Structural Steel Related Services**

- Observe and test the structural steel welded and bolted connections in the field.
- Observe and test the metal decking connections for orientation, side lap fasteners, hold-down connections, and the placement of shear studs.
- Observe and document the installation of the base plate anchor bolts.
- Observe the installation of post-installed anchors.

### **Engineering Consulting and Project Communication and Reporting Services**

- Provide engineering consulting services, review test results and observations reports, and prepare required final reports.
- Management, including scheduling of our field personnel and communication with the contractor, owner, building official, and design team.
- Transmit results to the project team.

### **Basis of Scope of Work**

The costs associated with the proposed scope of services were estimated using the following assumptions. If the construction schedule is modified or the contractor completes the various phases of the project at different frequencies or durations than shown in this proposal, we may need to adjust the overall cost accordingly. The scope of work and number of trips required to perform these services are shown in the attached table. Notable assumptions in developing our estimate include:

- Assumptions regarding the number of trips for special inspections and testing are outlined in the attached cost estimate table. As the contractor's schedule becomes available and designs are finalized, please review this proposed scope of work to determine if the project's needs and budget will be met.
- The earthwork phase of the project will be substantially complete in about three weeks. We have assumed that full-time earthwork observation and testing will be required.
- We assume the site utilities will be completed in six weeks (about one and a half months) per the provided construction schedule.
- The drilled shafts will be assumed to take 30 days (about four weeks) to be complete. We assumed observations will be required full-time.
- Concrete placements for the structure will be observed throughout the duration by our technician as required by the IBC and project documents.
- We assume the construction and concrete placement of the ICF wall will be placed in 20-foot sections.
- The masonry construction will require third party inspections every time grout is placed in a reinforced cell.
- We assume the structural steel fabricator will be AISC certified, and a review of the quality control manual or inspections of the fabrication shop is **not** required. If this assumption is not

correct, please call us and we will provide a cost estimate for the fabrication shop inspections.

- We assume eight trips will be required to inspect installed firestop systems as noted in the construction documents for the project. Inspection guidelines will be based on IBC code required ASTM E2174 and ASTM E2393 inspection standards.
- Safe access to all locations where our services are required.
- No special site-specific training or gear is required to complete our scope of services.
- Parking will be available on-site for our vehicles.
- You, or others you may designate, will provide us with current and approved plans and specifications for the project. Modifications to these plans must also be sent to us so we can review their incorporation into the work.
- We will require a minimum of 24 hours' notice for scheduling inspections for a specific time. Shorter than 24 hours' notice may impact our ability to perform the requested services, and the associated impacts will be the responsibility of others.

## Cost and Invoicing

We will furnish the services described in this proposal for an estimated fee of **\$276,141.80**. A tabulation showing hourly and unit rates associated with our proposed scope of services is attached. To the extent possible, units and hours were reviewed with representatives of Joeris (general contractor) to determine if time frames are consistent with their expectations for completing the various activities. The actual cost of our services will be based on the actual units or hours expended to meet the requirements of the project documents.

This cost estimate was developed with the understanding the scope of services defined herein will be required and requested during our normal work hours of 7:00 a.m. to 5:00 p.m., Monday through Friday. Services that we are asked to provide to meet the project requirements or the contractor's construction schedule **outside** our normal business hours will be invoiced using an overtime rate factor. The factor for services provided outside our normal work hours or on Saturday will be 1.5 times the listed hourly rate for the service provided. The factor for services provided on Sunday or legal holidays will be 2.0 times the listed hourly rate for the service provided. We have not included premiums for overtime in our cost estimate; however, we recommend allowances and contingencies be made for overtime charges; our estimated fee includes a 10 percent contingency. You will be billed only for services provided on a time and materials basis.

Because our services are directly controlled by the schedule and performance of others, the actual cost may vary from our estimate. It is difficult to project all of the services and the quantity of services that may be required for any project. If services are required that are not discussed above, we will provide

them at the rates shown in the attached table or, if not shown, at our current Schedule of Charges. We will invoice you on a monthly basis.

## General Remarks

We will be happy to meet with you to discuss our proposed scope of services further and clarify the various scope components.

We appreciate the opportunity to present this proposal to you. After reviewing this proposal, **please sign and return one copy to our office as notification of acceptance and authorization to proceed.** If anything in this proposal is not consistent with your requirements, please let us know immediately. Braun Intertec will not release any written reports until we have received a signed agreement. Also, ordering services from Braun Intertec constitutes acceptance of the terms of this proposal.

The proposed fee is based on the scope of services described and the assumption that our services will be authorized within 30 days and that others will not delay us beyond our proposed schedule.

Our services will be provided under the terms of the Revised General Conditions for Frisco Independent School District dated November 2, 2020.

To have questions answered or schedule a time to meet and discuss our approach to this project further, please contact Hershel Lance at 817.666.9014 (HLance@braunintertec.com) or Reece Taylor at 469.687.6253 (RTaylor@braunintertec.com).

Sincerely,

BRAUN INTERTEC CORPORATION  
TBPELS Firm Registration No. F-12228



Hershel Lance  
Senior Project Manager



Reece E. Taylor, P.E.  
Director, Senior Engineer

Attachments:  
Cost Estimate Table

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The proposal is accepted. We will reimburse you in accordance with this agreement, and you are authorized to proceed:

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**Authorizer's Firm**

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**Authorizer's Signature**

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**Authorizer's Name (please print or type)**

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**Authorizer's Title**

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**Date**



## Project Proposal

### QTB189951

### Visual and Performing Arts Center

<b>Client:</b>	<b>Work Site Address:</b>	<b>Service Description:</b>
Frisco Independent School District Danny Melton 12025 Rolater Rd Frisco, TX 75035	NE Corner of Legendary Dr and Stockard Dr Frisco, TX	Construction Materials Testing

	Description	Quantity	Units	Unit Price	Extension
<b>Phase 1</b>	<b>Soil Related Services</b>				
<b>Activity 1.1</b>	<b>Observations and Testing</b>				<b>\$19,400.00</b>
207	Compaction Testing - Nuclear	224.00	Hour	55.00	\$12,320.00
	<b>Work Activity Detail</b>	<b>Qty</b>	<b>Units</b>	<b>Hrs/Unit</b>	<b>Extension</b>
	Compaction Testing: General Site Fills	4.00	Trips	4.00	16.00
	Compaction Testing: City Sidewalks	5.00	Trips	4.00	20.00
	Compaction Testing: Pavement Lime Treatment	10.00	Trips	4.00	40.00
	Compaction Testing: Waterline	5.00	Trips	4.00	20.00
	Compaction Testing: Sanitary Sewer	10.00	Trips	4.00	40.00
	Compaction Testing: Stormline	7.00	Trips	4.00	28.00
	Field Testing: Pavement Lime Treatment Gradations	10.00	Trips	4.00	40.00
	Compaction Testing: Flatwork	5.00	Trips	4.00	20.00
209	Sample pick-up	4.00	Hour	50.00	\$200.00
1861	CMT Trip Charge	58.00	Each	55.00	\$3,190.00
A2250C	Nuclear Moisture/Density Gauge, per day	46.00	Each	75.00	\$3,450.00
211	Proofroll Observations	4.00	Hour	60.00	\$240.00
<b>Activity 1.2</b>	<b>Special Inspections</b>				<b>\$23,040.00</b>
855	Special Inspector - Soils	280.00	Hour	60.00	\$16,800.00
	<b>Work Activity Detail</b>	<b>Qty</b>	<b>Units</b>	<b>Hrs/Unit</b>	<b>Extension</b>
	Compaction Testing: Structural Subgrade Mod/Prep	8.00	Trips	3.00	24.00
	Compaction Testing: Special Fill	16.00	Trips	8.00	128.00
	Compaction Testing: Basement Walls	8.00	Trips	8.00	64.00
	Compaction Testing: Grade Beam Backfill	16.00	Trips	4.00	64.00
1861	CMT Trip Charge	48.00	Each	55.00	\$2,640.00
A2250C	Nuclear Moisture/Density Gauge, per day	48.00	Each	75.00	\$3,600.00
<b>Activity 1.3</b>	<b>Other Services</b>				<b>\$18,000.00</b>
1087	Mobilization	1,500.00	Each	4.00	\$6,000.00
AD6110	Confirmation Collection Per Boring	16.00	Each	750.00	\$12,000.00
<b>Activity 1.4</b>	<b>Contingency</b>				<b>\$6,044.00</b>
4911	Miscellaneous	1.00	Each	6,044.00	\$6,044.00
<b>Phase 1 Total:</b>					<b>\$66,484.00</b>
<b>Phase 2</b>	<b>Deep Foundations Related Services</b>				
<b>Activity 2.1</b>	<b>Special Inspections</b>				<b>\$13,100.00</b>
850	Special Inspector	200.00	Hour	60.00	\$12,000.00
	<b>Work Activity Detail</b>	<b>Qty</b>	<b>Units</b>	<b>Hrs/Unit</b>	<b>Extension</b>
	Observations: Drilled Shaft Installation	20.00	Trips	10.00	200.00
1861	CMT Trip Charge	20.00	Each	55.00	\$1,100.00
<b>Activity 2.2</b>	<b>Other Services</b>				<b>\$1,255.00</b>

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### Visual and Performing Arts Center

126	Project Engineer	8.00	Hour	150.00	\$1,200.00
1861	CMT Trip Charge	1.00	Each	55.00	\$55.00
Activity 2.3	Contingency				\$1,435.50
4911	Miscellaneous	1.00	Each	1,435.50	\$1,435.50
Phase 2 Total:					\$15,790.50
Phase 3	Concrete Related Services				
Activity 3.1	Observations and Testing				\$33,200.00
261	Concrete Testing	412.00	Hour	55.00	\$22,660.00
	Work Activity Detail	Qty	Units	Hrs/Unit	Extension
	Concrete Testing: Fire Lanes	6.00	Trips	8.00	48.00
	Concrete Testing: Parking Area/Pavement	12.00	Trips	8.00	96.00
	Concrete Testing: City Sidewalk	4.00	Trips	5.00	20.00
	Concrete Testing: Flatwork	10.00	Trips	4.00	40.00
	Concrete Testing: Inlets	8.00	Trips	4.00	32.00
	Concrete Cylinder Pickup	88.00	Trips	2.00	176.00
1861	CMT Trip Charge	88.00	Each	55.00	\$4,840.00
1401	Compressive Strength of Concrete Cores, per specimen	20.00	Each	72.00	\$1,440.00
2666	Length of Concrete Cores ASTM C1542, each	20.00	Each	35.00	\$700.00
221	Concrete Coring, per hour	32.00	Hour	80.00	\$2,560.00
9812	Mobilization - Core Rig	4.00	Each	250.00	\$1,000.00
Activity 3.2	Special Inspections				\$47,510.00
854	Special Inspector - Concrete	658.00	Hour	60.00	\$39,480.00
	Work Activity Detail	Qty	Units	Hrs/Unit	Extension
	Reinforcing Steel Observations: Slab-on-Grade	10.00	Trips	3.00	30.00
	Concrete Testing: Slab-on-Grade	10.00	Trips	6.00	60.00
	Reinforcing Steel Observations: Slab on Geo Foam	2.00	Trips	3.00	6.00
	Concrete Testing: Slab on Geo Foam	2.00	Trips	4.00	8.00
	Reinforcing Steel Observations: Pit Walls-	4.00	Trips	3.00	12.00
	Concrete Testing: Pit Walls-	4.00	Trips	4.00	16.00
	Reinforcing Steel Observations: ICF Walls	25.00	Trips	4.00	100.00
	Concrete Testing: ICF Walls	25.00	Trips	6.00	150.00
	Concrete Testing: Stairs	8.00	Trips	4.00	32.00
	Reinforcing Steel Observations: Slab-on-Metal Deck	10.00	Trips	4.00	40.00
	Concrete Testing: Slab-on-Metal Deck	10.00	Trips	4.00	40.00
	Reinforcing Steel Observations: Grade Beams	10.00	Trips	5.00	50.00
	Concrete Testing: Grade Beams	10.00	Trips	5.00	50.00
	Reinforcing Steel Observations: Pile Caps	8.00	Trips	4.00	32.00
	Concrete Testing: Pile Caps	8.00	Trips	4.00	32.00
1861	CMT Trip Charge	146.00	Each	55.00	\$8,030.00
Activity 3.3	Contingency				\$8,071.00
4911	Miscellaneous	1.00	Each	8,071.00	\$8,071.00
Phase 3 Total:					\$88,781.00
Phase 4	Masonry Related Services				
Activity 4.1	Observations and Testing				\$1,100.00
223	Masonry Testing	16.00	Hour	55.00	\$880.00
	Work Activity Detail	Qty	Units	Hrs/Unit	Extension
	Dumpster Enclosure	4.00	Trips	4.00	16.00
1861	CMT Trip Charge	4.00	Each	55.00	\$220.00
Activity 4.2	Special Inspections				\$10,700.00

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853	Special Inspector - Masonry	160.00	Hour	60.00	\$9,600.00
	<i>Work Activity Detail</i>	<i>Qty</i>	<i>Units</i>	<i>Hrs/Unit</i>	<i>Extension</i>
	CMU Related Observations	20.00	Trips	8.00	160.00
1861	CMT Trip Charge	20.00	Each	55.00	\$1,100.00
Activity 4.3	Contingency				<b>\$1,180.00</b>
4911	Miscellaneous	1.00	Each	1,180.00	\$1,180.00
Phase 4 Total:					<b>\$12,980.00</b>
<b>Phase 5 Steel Related Services</b>					
Activity 5.1	Special Inspections				<b>\$15,360.00</b>
852	Special Inspector - Structural Steel	160.00	Hour	85.00	\$13,600.00
	<i>Work Activity Detail</i>	<i>Qty</i>	<i>Units</i>	<i>Hrs/Unit</i>	<i>Extension</i>
	Welding/Bolting	32.00	Trips	5.00	160.00
1861	CMT Trip Charge	32.00	Each	55.00	\$1,760.00
Activity 5.2	Contingency				<b>\$1,536.00</b>
4911	Miscellaneous	1.00	Each	1,536.00	\$1,536.00
Phase 5 Total:					<b>\$16,896.00</b>
<b>Phase 6 Fireproofing Related Services</b>					
Activity 6.1	Special Inspections				<b>\$3,752.00</b>
281	Fireproofing Observations & Testing, ICC	48.00	Hour	69.00	\$3,312.00
	<i>Work Activity Detail</i>	<i>Qty</i>	<i>Units</i>	<i>Hrs/Unit</i>	<i>Extension</i>
	Fireproofing Observations & Testing, ICC	8.00	Trips	6.00	48.00
1861	CMT Trip Charge	8.00	Each	55.00	\$440.00
Activity 6.2	Other Services				<b>\$2,256.00</b>
1785	Adhesion/Cohesion Testing, per test	24.00	Each	42.00	\$1,008.00
1784	Thickness/Density, laboratory determination	24.00	Each	52.00	\$1,248.00
Activity 6.3	Contingency				<b>\$600.80</b>
4911	Miscellaneous	1.00	Each	600.80	\$600.80
Phase 6 Total:					<b>\$6,608.80</b>
<b>Phase 7 Firestopping Related Services</b>					
Activity 7.1	Special Inspections				<b>\$8,885.00</b>
652	Firestopping Observations	56.00	Hour	110.00	\$6,160.00
1870	Firestopping Trip Charge	8.00	Each	55.00	\$440.00
653	Firestopping Project Manager	8.00	Hour	160.00	\$1,280.00
5522	Firestopping Final Report	1.00	Each	825.00	\$825.00
654	Firestopping Consultant (If Needed)		Hour	175.00	\$0.00
168	Project Assistant	3.00	Hour	60.00	\$180.00
Activity 7.2	Contingency				<b>\$888.50</b>
4911	Miscellaneous	1.00	Each	888.50	\$888.50
Phase 7 Total:					<b>\$9,773.50</b>
<b>Phase 8 Laboratory Related Services</b>					
Activity 8.1	Soils Related				<b>\$11,696.00</b>
1166	Loss by Washing Through #200 Sieve, per sample	4.00	Each	60.00	\$240.00
1318	Moisture Density Relationship (Standard), per sample	10.00	Each	180.00	\$1,800.00
2646	Wet Ball Mill (Tex-116-E), per sample	1.00	Each	228.00	\$228.00

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1157	Atterberg Limits LL and PL, Multi-Point, per sample	15.00	Each	75.00	\$1,125.00
2619	Lime Treatment Of Soil (Tex-121-E Part 1), per point	4.00	Each	246.00	\$984.00
1692	Specific Gravity, Fine and Course (ASTM C127)	1.00	Each	119.00	\$119.00
1204	Free Swell Potential	80.00	Each	90.00	\$7,200.00
<b>Activity 8.2</b>	<b>Concrete Related</b>				<b>\$16,790.00</b>
1364	Compressive strength of concrete cylinders (ASTM C 39), each	730.00	Each	23.00	\$16,790.00
	<b>Work Activity Detail</b>	<b>Qty</b>	<b>Units</b>	<b>Hrs/Unit</b>	<b>Extension</b>
	Concrete Testing: Parking Area/Pavement	25.00	Sets	5.00	125.00
	Concrete Testing: Flatwork	10.00	Sets	5.00	50.00
	Concrete Testing: Pit Walls	4.00	Sets	5.00	20.00
	Concrete Testing: Fire Lanes	15.00	Sets	5.00	75.00
	Concrete Testing: Piers	20.00	Sets	5.00	100.00
	Concrete Testing: ICF Walls	20.00	Sets	5.00	100.00
	Concrete Testing: City Sidewalk	4.00	Sets	5.00	20.00
	Concrete Testing: Inlets	8.00	Sets	5.00	40.00
	Concrete Testing: Slab-on-Grade	10.00	Sets	5.00	50.00
	Concrete Testing: Slab-on-Metal Deck	10.00	Sets	5.00	50.00
	Concrete Testing: Slab-on-Geo Foam	2.00	Sets	5.00	10.00
	Concrete Testing: Grade Beams	10.00	Sets	5.00	50.00
	Concrete Testing: Pile Caps	8.00	Sets	5.00	40.00
<b>Activity 8.3</b>	<b>Masonry Related</b>				<b>\$1,659.00</b>
1412	Compressive strength of grout (ASTM C 1019), per specimen	3.00	Each	35.00	\$105.00
1404	Compressive strength - Block, per specimen	3.00	Each	63.00	\$189.00
1406	Physical measurements and absorption (ASTM C 140), per specimen	3.00	Each	88.00	\$264.00
1407	Net area determination (ASTM C 140) , per specimen	3.00	Each	67.00	\$201.00
1411	Compressive strength - Grouted block prisms (ASTM C 1314), per specimen	3.00	Each	300.00	\$900.00
<b>Activity 8.4</b>	<b>Contingency</b>				<b>\$3,014.50</b>
4911	Miscellaneous	1.00	Each	3,014.50	\$3,014.50
<b>Phase 8 Total:</b>					<b>\$33,159.50</b>
<b>Phase 9</b>	<b>Project Management Related Services</b>				
<b>Activity 9.1</b>	<b>Project Management, Engineering Review, Oversight</b>				<b>\$23,335.00</b>
128	Senior Engineer	25.00	Hour	195.00	\$4,875.00
228	Senior Project Manager	100.00	Hour	145.00	\$14,500.00
126	Project Engineer		Hour	150.00	\$0.00
138	Project Assistant	24.00	Hour	60.00	\$1,440.00
125	Project Control Specialist	24.00	Hour	105.00	\$2,520.00
<b>Activity 9.2</b>	<b>Contingency</b>				<b>\$2,333.50</b>
4911	Miscellaneous	1.00	Each	2,333.50	\$2,333.50
<b>Phase 9 Total:</b>					<b>\$25,668.50</b>
<b>Proposal Total:</b>					<b>\$276,141.80</b>