

MEMORANDUM

To: CRA Board

From: Erica Schwarz

Date: May 19, 2021

Re: 99 Bishop Allen Drive: Testing and Inspection Selection Change & OPM Contract Amendment

INTRODUCTION

The construction phase of the major renovation of the CRA's property at 99 Bishop Allen Drive, which houses nonprofit organizations, continues to progress well. Masonry repair is approximately 25% complete. The stormwater retention and infiltration chambers have been installed in the rear lot. Removal of the 1960's vinyl siding and analysis of repair needs of the brick beneath is underway. Interior trenching for electrical and plumbing is completed. HVAC units and related ductwork are being installed in the attic. Subflooring has been replaced as needed and partition walls are being installed. The completed renovation will feature environmental sustainability, ADA compliance, historic preservation, and warm and modern aesthetics.

Last month the CRA Board approved a motion to enter into a contract for testing and inspection services with Briggs Engineering and Testing. Briggs has since informed the project team that they lack the capacity provide the necessary services in a timely manner. The CRA needs to enter into a contract with another firm that is able to complete the work.

Additionally, the contract value for owner's project management services is now inadequate to meet the needs of the project. The project itself is more complex than originally conceived, the design phase lasted longer than first anticipated as the scope expanded, and the delivery of the elevator mechanism will delay the completion date, requiring more weeks of project management services.

SELECTING A TESTING AND INSPECTION SERVICES FIRM

In April, the CRA Board approved a contract for testing and inspection services with Briggs Engineering and Testing. Briggs was selected under a process in conformance with M.G. L. 30B and the CRA's Procurement Policy. Upon learning that the firm lacks the capacity to complete the scope of work, the CRA's Owner's Project Manager, STV|DPM, reached out to the very closely ranked second ranked firm, UTS, who can fulfill the scope under the same not to exceed \$20,000 contract value. In addition to meeting all of the requirements detailed in the procurement process, UTS is a large firm with a depth of capacity that has completed other projects in Cambridge.

OWNER'S PROJECT MANAGEMENT CONTRACT AMENDMENT

When the CRA initially signed a contract with STV|DPM, the complexity of the project was not known. The project timeline for a less complex scope included a shorter design phase, and assumed the CRA would go out to bid in October of 2020. Further study revealed the extent of work required for storm water management, façade restoration, accessibility and code compliance, and general improvement of building conditions. The CRA Board and staff expanded the scope and related design work to include extensive floor replacement, window replacement, full masonry repointing, an extensive storm water drainage system, and a reorganization of most floors to allow full access to the elevator. This resulted in a longer design phase which pushed the bid date out to December 2020. The start of construction was moved from an original date of December 2020 to February 2021. Once the construction phase was underway it also became clear that the delivery date for the elevator mechanics would result in a delay in the construction completion date.

The expanded scope requires more oversight of the construction site, coordination with the architect, and management and review construction related documents and data. The expanded timeline due to a longer design phase and later elevator mechanics delivery date requires more overall hours.

The total project budget approved by the CRA Board in January 2021 included an estimate of the full cost of owner's project management. However, an accurate amendment of STV|DPM's contract was not possible until the project completion date was known. This has become contingent on the elevator mechanism, whose delivery date is expected to result in a project completion date of October 18th, approximately 4 weeks later than anticipated.

In its updated scope proposal, STV has added a Clerk of the Works, who is on site for several hours each week to monitor and take photo documentation of the general contractor's work, particularly of systems that ultimately will be underneath or behind finished materials. The updated scope proposal also adds hours to reflect the longer design phase and the additional weeks of construction. The updated scope proposal would cover all of the project's needs through project completion, and add \$114,012 to the current contract, increasing it from \$241,196 to \$355,208. This is a not to exceed value; CRA staff will continue to monitor STV|DPM's hours to ensure that the hours they spend are necessary to meet the project's needs.

MOTIONS

Motion: Instructing the Executive Director to terminate the contract with Briggs Engineering and Testing due to their inability to perform, and instead authorizing the Executive Director and Chair to enter into a Testing and Inspection Services contract with UTS for an amount not to exceed twenty thousand dollars (\$20,000).

Motion: Authorizing the Chair to amend the Construction Project Management Contract with STV to extend the term and increase the contract value by one hundred thousand twelve dollars (\$114,012) for an amount not to exceed three hundred fifty-five thousand, two hundred eight dollars (\$355,208).

EXHIBITS

Exhibit A: Letter of Recommendation from STV|DPM for UTS

Exhibit B: RPF for Testing and Inspection Services

Exhibit C: Price Proposals from UTS and price proposals comparison chart

Exhibit D: Updated scope proposal from STV|DPM for owner's project management services

Exhibit E: Recent construction photos

Exhibit A
Letter of Recommendation from STV | DPM



May 14, 2021

Mr. Tom Evans
Executive Director
Cambridge Redevelopment Authority
99 Bishop Allen Drive, Cambridge MA

RE: Testing and Inspection Services Letter of Recommendation
99 Bishop Allen Dr. Renovation Project.

Dear Mr. Evans:

We solicited proposals for Testing and Inspection Services for the Renovation of 99 Bishop Allen Dr. from 4 firms – asking each to submit Unit Pricing and Qualifications for a specified scope of services.

Scope:

Following consultation with the design team and their consultants, a testing program was designed to accommodate testing for soil compaction, concrete compliance, framing connections and air/water entrainment.

Bid Results:

We received 3 responses to our Request for Proposals. I have attached for you the bid analysis illustrating the unit price comparison with the proposals received from competing bids.

Recommendation:

After consultation with the design team and a review of the submitted pricing against the anticipated testing schedule, and the availability of the testing/inspection staff, it is our recommendation to proceed with UTS of Massachusetts on a Time and Materials contact Not to Exceed \$20,000 based on rates from their March 19, 2021 proposal.

Attachments:

Testing and Inspection Services Request for Proposal
UTS of MA Price Proposal
STV Bid Evaluation Form.

Please advise with any questions or concerns.



Respectfully,

Tim MacKay, AIA
Senior Project Manager
OPM, STV Construction, Inc.

cc: Bob Labrecque
Tom Evans
Erica Schwarz
David Silverman

Exhibit B
RPF for Testing and Inspection services

REQUEST FOR PROPOSALS - CONSTRUCTION TESTING & INSPECTION

Cambridge Redevelopment Authority – 99 Bishop Allen Dr. Renovation

**Cambridge Redevelopment Authority – 99 Bishop Allen Dr. Renovation
February 24, 2021**

STV is soliciting proposals on behalf of The Cambridge Redevelopment Authority (CRA) for Construction Testing and Inspection Services for the renovation of 99 Bishop Allen Drive in Cambridge, MA. Three (3) copies of your proposals are required to be submitted and shall be received by the Owner's Project Manager (STV/DPM) for the CRA at One Gateway Center, Suite 951, Newton, MA 02458 no later than 2:00 PM, Friday, March 5, 2021. Any proposal received after the time and date specified or submitted in a form other than that indicated below, will not be considered. Proposals will not be opened publicly. STV will make a list of respondents available upon written request. STV will evaluate the Non-Price Proposals and rate the respondents per the criteria set forth in the Request for Proposals (RFP). The Unit Price Proposals will be reviewed, and the Contract will be awarded to the most responsive and responsible bidder by CRA. The estimated value of Inspection and Testing Services anticipated for this Project is \$15,000.

Construction is expected to start in Mid-March 2021. The project is scheduled to be substantially complete by September 2021. Project consists of a Renovation of 2 existing 1855 buildings, 18,616 sf, four-story plus attic, with associated selective demolition and abatement, site work and site utilities, façade restoration/renovations, windows, roofing, siding, new elevator, fire protection, mechanical, electrical and renovation of plumbing and partial interior renovations. The building is currently used as office space for nonprofit companies who will move out during construction and reoccupy when the construction is completed. At the conclusion of the project the two adjoining buildings will share all new building systems. The General Contractor – GVW, Inc. Designer - Silverman Trykowski Associates, Inc, Geotech Engineer – Haley & Aldrich, Civil Engineer - Bohler. Questions should be directed to Tim MacKay, AIA in writing at timothy.mackay@stvinc.com

I. GENERAL

A. Provide evidence of the following minimum laboratory qualifications:

1. State Licensed (CTL) Concrete Testing Laboratory.
2. Nuclear Regulatory Commission (NRC) Licensed Nuclear Gauge Facility
3. Massachusetts Construction Industry Board (MCIB) Licensed Field Technician with five (5) years minimum experience.
4. ASTM E329, Standard Specification for Agencies Engaged in the Testing and/or Inspection of Materials Used in Construction (note: this includes, but is not limited to, the full time in-house services of a professional engineer registered in the Commonwealth of Massachusetts and a minimum of five (5) years' experience for Laboratory and Field Technicians).

B. A separate form for submitting unit prices shall be used. Unit prices for testing services shall be all inclusive, total cost and shall include, as a minimum, the following:

1. Travel time to and from the site, if applicable.
2. Mileage, if applicable.
3. Equipment required for testing.
4. Administrative costs.
5. Test reports emailed to six or more individuals. A written draft of the on-site technicians

REQUEST FOR PROPOSALS - CONSTRUCTION TESTING & INSPECTION

Cambridge Redevelopment Authority – 99 Bishop Allen Dr. Renovation

report shall be presented to the Construction Managers Superintendent prior to departure from site for all daily testing and inspections activities. All inspectors shall sign in and out on a daily basis at the job site.

6. Daily rates for soils, concrete, masonry, wood framing and steel inspectors:

- a. Half day – four (4) hours at the site.
- b. Full day – eight (8) hours at the site.

7. Daily rates for Air and Water testing of Window, Curtainwall and Entrances per AAMA 501 and 502 including all field test reports: Include a complete proposal with submission.

- a. Half day – four (4) hours at the site.
- b. Full day – eight (8) hours at the site.

II. NON PRICE PROPOSAL – EVALUATION CRITERIA

- Listed in order of Value

- A. **EXPERIENCE** - Submit, with proposal, resumes of all laboratory/field technicians and engineers anticipated for use on the project. Laboratory/field technicians and engineers shall have a minimum of 5 years' experience in the field and shall be acceptable to the Owner; the Owner reserves the right to reject any personnel during the duration of the project. The personnel assigned to the project shall remain for the duration and not be replaced without the Owner's consent.
- B. **REFERENCES** - Submit a list of 5 similar projects completed. Provide a list of references with email and phone contact information.
- C. **LONGEVITY** - List how many years your firm has been providing material testing services.
- D. **PROXIMITY** – describe your firm's proximity to the construction site and the time required to respond to short notice calls.
- E. **LEGAL** - List any terminations or legal proceedings in the last 5 years which was concluded adversely against your firm.
- F. **SAFETY** - Provide documentation from and insurance carrier of three years of the firm's workers' compensation modifier and a sample insurance certificate. Provide documentation of OSHA-10 certification of all technicians, engineers, staff, etc. expected to enter the site and service the job.

III. UNIT PRICE PROPOSAL – BID FORM (to be submitted in a separate envelope)

- A. Unit prices for testing services shall be all inclusive, total cost and shall include, as a minimum, the following:
 1. Travel time to and from the site, if applicable.
 2. Mileage, if applicable.
 3. Equipment required for testing.
 4. Administrative costs.
 5. Test reports e-mailed 8 or more recipients.
- B. Identify overtime multiplier that shall apply only to full days exceeding eight (8) hours at the site.
- C. Identify extra cost for less than 24 hours notification if applicable

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Cambridge Redevelopment Authority – 99 Bishop Allen Dr. Renovation

BID FORM (submit on Firm Letterhead)

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IV. SOILS

- A. Mechanical Gradation Analysis (ASTM D-422) _____ / sample
- B. Standard Proctor (ASTM D-698) _____ / sample
- C. Modified Proctor (ASTM D-1557) _____ / sample
- D. Compaction Testing by Nuclear Methods (ASTM D-2922) _____ / half day
_____ / full day
- E. Compaction Testing by Sand-Cone Method (ASTM D-1556) _____ / half day
_____ / full day
- F. Soils Engineer, (Professional Engineer) with experience in
the classification of rock _____ / half day
_____ / full day
- G. Professional Engineering Time _____ / hour
_____ / half day
_____ / full day
- H. Sampling at Site _____ / visit
- I. Overtime multiplier _____ x reg. rate

V. CONCRETE

- A. Field monitoring, slump testing, air testing, fabrication of test
Specimens, Inspection of reinforcing steel _____ / half day
_____ / full day
- B. Cylinder Compression Testing (ASTM C-39) _____ / Specimen
- C. Transportation of test specimens to lab _____ / trip
- D. Overtime multiplier _____ x reg. rate

VI. MASONRY

- A. Field monitoring, testing and fabrication of test specimens _____ / half day
_____ / full day
- B. Mortar Cube Compression Testing _____ / specimen
- C. Grout Prism Compression Testing _____ / specimen
- D. Overtime multiplier _____ x reg. rate

REQUEST FOR PROPOSALS - CONSTRUCTION TESTING & INSPECTION

Cambridge Redevelopment Authority – 99 Bishop Allen Dr. Renovation

VII. STRUCTURAL STEEL

- A. Visual inspection of welds and bolted connections _____ / half day
- B. Ultrasonic Testing of Full Penetration Welded Connections _____ / half day
(ASTM E-164) _____ / full day
- C. Magnetic Particle Testing of Fillet Welds and Partial _____ / half day
Penetration Welds (ASTM E-709) _____ / full day
- D. Overtime multiplier _____ x reg. rate

VIII. WOOD FRAMING

- A. Inspection _____ / half day
_____ / full day
- D. Overtime multiplier _____ x reg. rate

IX. BITUMINOUS CONCRETE

- A. Field monitoring and testing _____ / half day
_____ / full day
- B. Extraction analysis _____ / sample
- C. Coring services _____ / half day
_____ full day
- D. Overtime multiplier _____ x reg. rate

X. AIR and WATER TESTING of WINDOWS, CURTAINWALL and ENTRANCES AAMA 501 & 502

- A. Field monitoring and testing _____ / half day
_____ / full day

XI PROFESSIONAL LIABILITY

- A. Indicate the dollar amount limit of professional Liability
Insurance carried by your firm (Min. \$1 million required): \$ _____

Exhibit C
Price Proposals from UTS and price proposals comparison chart



Of Massachusetts Inc. "The Construction Testing People"

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IV. SOILS

A.	Mechanical Gradation Analysis (ASTM D-422)	<u>90.00</u> / sample
B.	Standard Proctor (ASTM D-698)	<u>100.00</u> / sample
C.	Modified Proctor (ASTM D-1557)	<u>110.00</u> / sample
D.	Compaction Testing by Nuclear Methods (ASTM D-2922)	<u>180.00</u> / half day <u>350.00</u> / full day
E.	Compaction Testing by Sand-Cone Method (ASTM D-1556)	<u>165.00</u> / half day <u>320.00</u> / full day
F.	Soils Engineer, (Professional Engineer) with experience in the classification of rock	<u>300.00</u> / half day <u>600.00</u> / full day
G.	Professional Engineering Time	<u>125.00</u> / hour <u>500.00</u> / half day <u>900.00</u> / full day
H.	Sampling at Site	<u>40.00</u> / visit
I.	Overtime multiplier	<u>1.50x</u> reg. rate

V. CONCRETE

A.	Field monitoring, slump testing, air testing, fabrication of test Specimens, Inspection of reinforcing steel	<u>160.00</u> / half day <u>320.00</u> / full day
B.	Cylinder Compression Testing (ASTM C-39)	<u>12.00</u> Specimen
C.	Transportation of test-specimens to lab	<u>40.00</u> / trip
D.	Overtime multiplier	<u>1.5</u> x reg. rate

VI. MASONRY

A.	Field monitoring, testing and fabrication of test specimens	<u>170.00</u> / half day <u>330.00</u> / full day
B.	Mortar Cube Compression Testing	<u>12.00</u> / specimen
C.	Grout Prism Compression Testing	<u>20.00</u> / specimen
D.	Overtime multiplier	<u>1.5</u> x reg. rate

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Cambridge Redevelopment Authority – 99 Bishop Allen Dr. Renovation

VII. STRUCTURAL STEEL

A. Visual inspection of welds and bolted connections	<u>180.00 /</u> half day
B. Ultrasonic Testing of Full Penetration Welded Connections (ASTM E-164)	<u>200.00 /</u> half day <u>380.00 /</u> full day
C. Magnetic Particle Testing of Fillet Welds and Partial Penetration Welds (ASTM E-709)	<u>190.00 /</u> half day <u>370.00 /</u> full day
D. Overtime multiplier	<u>1.5</u> x reg. rate

VIII. WOOD FRAMING

A. Inspection	<u>180.00 /</u> half day <u>350.00 /</u> full day
D. Overtime multiplier	<u>1.5</u> x reg. rate

IX. BITUMINOUS CONCRETE

A. Field monitoring and testing	<u>180.00 /</u> half day <u>350.00 /</u> full day
B. Extraction analysis	<u>75.00 /</u> sample
C. Coring services	<u>450.00 /</u> half day <u>700.00</u> full day
D. Overtime multiplier	<u>1.5</u> x reg. rate

X. AIR and WATER TESTING of WINDOWS, CURTAINWALL and ENTRANCES AAMA 501 & 502

A. Field monitoring and testing	<u> /</u> half day <u>2,400.00 /</u> full day
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XI PROFESSIONAL LIABILITY

A. Indicate the dollar amount limit of professional Liability Insurance carried by your firm (Min. \$1 million required):	\$ <u>5,000,000.00</u>
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Item	Unit	UTS		Briggs Engineering/ PK Asso.		JTC		Estimated Quantities
		Rate	Estimated Cost	Rate	Estimated Cost	Rate	Estimated Cost	
IV. SOILS								
Mechanical Gradation Analysis (ASTM D-422)	\$/Sample	\$90.00	\$720.00	\$100.00	\$800.00	\$105.00	\$840.00	8
Standard Proctor (ASTM D-698)	\$/Sample	\$100.00	\$800.00	\$125.00	\$1,000.00	\$100.00	\$800.00	8
Modified Proctor (ATSM D-1557)	\$/Sample	\$110.00	\$880.00	\$140.00	\$1,120.00	\$135.00	\$1,080.00	8
Compaction Testing by Nuclear Methods (ASTM D-2922)	\$/Half Day	\$180.00	\$1,440.00	\$180.00	\$1,440.00	\$168.00	\$1,344.00	8
	\$/Full Day	\$350.00	\$2,800.00	\$360.00	\$2,880.00	\$336.00	\$2,688.00	8
Compaction Testing by Sand-Cone Method (ASTM D-1556)	\$/Half Day	\$165.00	\$0.00	\$300.00		\$180.00		
	\$/Full Day	\$320.00	\$0.00	\$600.00		\$340.00		
Soils Engineer, (Professional Engineer) with experience in the classification of rock	\$/Half Day	\$300.00	\$0.00	\$300.00		\$380.00		
	\$/Full Day	\$600.00	\$0.00	\$600.00		\$750.00		
Professional Engineering Time	\$/Hour	\$125.00	\$0.00	\$125.00		\$95.00		
	\$/Half Day	\$500.00	\$0.00	\$500.00		\$380.00		
	\$/Full Day	\$900.00	\$0.00	\$1,000.00		\$750.00		
Sampling at Site	\$/Visit	\$40.00	\$0.00	\$25.00		\$168.00		
Overtime Multiplier	\$ x reg. rate	1.5	\$0.00	1.5		1.5		
V. CONCRETE								
Field Monitoring, slump testing, air testing, fabrication of test Specimens, Inspection of reinforcing steel	\$/Half Day	\$160.00	\$1,920.00	\$220.00	\$2,200.00	\$210.00	\$2,100.00	10
	\$/Full Day	\$320.00		\$440.00		\$380.00		
Cylinder Compression Testing (ASTM C-39)	\$/Specimen	\$12.00	\$720.00	\$20.00	\$800.00	\$12.00	\$480.00	40
Transportation of test specimens to lab	\$/Trip	\$40.00	\$480.00	\$20.00	\$200.00	\$50.00	\$500.00	10
Overtime Multiplier	\$ x reg. rate	1.5		1.5		1.5		
VI. Masonry								
Field monitoring, testing and fabrication of test specimens	\$/Half Day	\$170.00	\$850.00	\$232.00	\$1,160.00	\$180.00	\$900.00	5
	\$/Full Day	\$330.00		\$464.00		\$340.00		
Mortar Cube Compression Testing	\$/ Specimen	\$12.00	\$120.00	\$20.00	\$200.00	\$12.00	\$120.00	10
Grout Prism Compression Testing	\$/Specimen	\$20.00		\$20.00		\$14.00		
Overtime Multiplier	\$ x reg. rate	1.5		1.5		1.5		
VII. STRUCTURAL STEEL								
Visual Inspection of welds and bolted connections	\$/Half Day	\$180.00	\$180.00	\$240.00	\$240.00	\$450.00	\$450.00	1
Ultrasonic Testing of Full Penetration Welded Connections (ASTM E-164)	\$/Half Day	\$200.00		\$248.00		\$600.00		
	\$/Full Day	\$380.00		\$496.00		\$800.00		
Magnetic Particle Testing of Fillet Welds and Partial Penetration Welds (ASTM E-709)	\$/Half Day	\$190.00	\$190.00	\$248.00	\$248.00	\$600.00	\$600.00	1
	\$/Full Day	\$370.00		\$496.00		\$800.00		
Overtime Multiplier	\$ x reg. rate	1.5		1.5		1.5		
VIII. Wood Framing								
Inspection	\$/Half Day	\$180.00	\$720.00	\$220.00	\$880.00	\$380.00	\$1,520.00	4
	\$/Full Day	\$350.00		\$440.00		\$550.00		
Overtime Multiplier	\$ x reg. rate	1.5		1.5		1.5		
IX. BITUMINOUS CONCRETE								
Field Monitoring and Testing	\$/Half Day	\$180.00		\$220.00		\$260.00		
	\$/Full Day	\$350.00	\$1,400.00	\$440.00	\$1,760.00	\$490.00	\$1,960.00	4
Extraction analysis	\$/Sample	\$75.00		\$268.00		\$200.00		
Coring Services	\$/Half Day	\$450.00		\$400.00		\$320.00		
	\$/Full Day	\$700.00		\$800.00		\$500.00		
Overtime Multiplier	\$ x reg. rate	1.5		1.5		1.5		
General testing sub Total			\$13,220.00		\$14,928.00		\$15,382.00	
Add 10% for CM Sequencing			\$1,322.00		\$1,492.80		\$1,538.20	
Testing firm Sub Total			\$14,542.00		\$16,420.80		\$16,920.20	
X. Air & Water Testing of Windows/Curtainwall								
Field Testing	\$/Half Day			\$540.00		\$2,500.00		
	\$/Full Day	\$2,400.00	\$7,200.00	\$1,080.00	\$3,240.00	\$3,500.00	\$10,500.00	3
Estimate cost of services			\$21,742.00		\$19,660.80		\$27,420.20	
XI. PROFESSIONAL LIABILITY								
Indicate the Dollar amount limit of professional Liability Insurance carried by your firm (Min. \$1 million required)				\$ 2,000,000.00		\$ 3,000,000.00		

Exhibit D
Updated scope proposal from STV | DPM for owner's project management services

**Cambridge Redevelopment Authority
93-99 Bishop Allen Drive Renovations - 5/11/21**

Date Range	No. Wks.	Jim Kolb Principal		Bob Labrecque Project Director		Tim MacKay Project Manager		Site Manager		TOTALS
		Hrs. Week	Total Hrs.	Hrs. Week	Total Hrs.	Hrs. Week	Total Hrs.	Hrs. Week	Total Hrs.	
Design Development 5/4/2020 9/7/2020	18		0		0		0		0	\$0.00
Construction documents 9/7/2020 11/30/2020	12		0		0		0		0	\$0.00
Bid & Award 11/30/2020 12/28/2020	4		0		0		0		0	\$0.00
Bid & Award 12/28/2020 2/1/2021	5		0		0		0		0	\$0.00
Construction 2/1/2021 5/3/2021	13		0		0		0	0	0	\$0.00
Construction 5/3/2021 10/18/2021	24	1	24	6	144	16	384	16	384	\$138,432.00
Closeout 10/18/2021 1/17/2022	13	1	13	2	26	8	104	2	26	\$27,924.00
Total Hrs.			37		170		488		410	695
Cost / Hr. 2020			\$206		\$175		\$160		\$110	
Cost / Hr. 2021			\$216		\$184		\$168		\$110	
Total			\$7,992		\$31,280		\$81,984		\$45,100	\$ 166,356

STV spent to date through 4/30/21

\$198,852

Spent to date plus proposed amendment

\$365,208

Base contract

\$ 251,196

Amendment # 2

\$ 114,012

NOTE: The CRA's current contract with STV totals \$241,196. There was a prior contract with STV to initiate the work just for \$10,000 which has been closed out. This explains the \$10,000 discrepancy between the figures shown here and those described in this memo.

Exhibit E
Recent construction photos from 99 Bishop Allen Drive

Stormwater Recharge Chamber installation



Left: Silt filled soil, removed during excavation
Right: site of stormwater chamber, backfilled



Removal of 1960's vinyl siding to reveal brick masonry below, much of it in need of repair



*Left: Protective covering installed after removal of dormer window
Right: wall partitions*

