# Building 919 Patio Repair Resolution Worksheet

Date: September 18, 2024

# **Suggested Motion:**

9 in the
tures."

# **Vote:**

	In Favor	Opposed	Abstained	Absent
Scott Buchanan				
Dave Bush				
Caitlin Counihan				
Robin Davis				
Jeff Lisanick				
Amanda Mullan				
Scott Mulrooney				
Mike Rothenberg				
Jim Wicker				



September 10, 2024

Francisco Foschi, CMCA, AMS, PCAM General Manager Parkfairfax Condominium Unit Owners Association 33690 Gunston Road Alexandria, VA 22302

Re: Letter Summary for Building 919 Foundation Wall Assessment Parkfairfax Condominium 1656 – 1670 Fitzgerald Lane (Building 919) Alexandria, VA 22303 Walker Consultants Project #22-001530.00

Dear Mr. Foschi:

At the request of Parkfairfax Condominium, (the Condominium) Walker Consultants (Walker) performed a visual assessment of the visually and physically acceptable (Walker) portions of the foundation walls below Unit 1670 of Building 919 (the subject building). Walker was asked to perform this assessment due to reported differential movement of the patio (see Photo #4 in Appendix B) of Unit 1670 that is located at the rear elevation of the subject building.

Appendix A of this report contains a schematic plan that shows our findings from our survey work within the crawl space below Unit 1670 of the subject building. Appendix B of this report contains photo documentation of certain conditions observed during our field work.

# Observations

On Thursday, June 13, 2024, Walker was on site at 1670 Fitzgerald Lane to observe the rear foundation wall from the crawl space.

From the ground level along the rear elevation, Walker observed that the downspout adjacent to the patio door entrance of Unit 1670 discharges below grade. Walker could not locate the discharge end of the below grade downspout line.

Upon entering the crawl space at the rear of Building 919, Walker observed sections/areas of the concrete foundation wall were previously cut out and filled with an infill material (CMU blocks) at three locations. At the rear elevation (Refer to Photo #1 in Appendix B) the CMU blocks are not adequate for the opening. There is also visible backfill from outside the building entering the opening in the foundation wall and into the crawl space. Along the side elevation, (Refer to Photos 2 and 3 in Appendix B) penetrations have been created for conduit and piping. The penetration shown in Photo #3 of Appendix B has been filled with miscellaneous materials.



# Conclusions and Recommendations

Based on our observations from our June 13, 2024, site visit as well as our historical understanding regarding soil that the patios and buildings are supported by, it is our opinion that:

- 1. The patio for Unit 1670 is experiencing differential movement due to moisture from the downspout being discharged into the ground at/adjacent to the patio.
- 2. The infills within the concrete foundation walls are inadequate to help support the loads from the soil acting on the foundation walls and are also allowing moisture to enter into the crawlspace. Since Walker could not locate the discharge end of the below grade downspout line, there is the possibility the downspout is providing a source of moisture that enters the crawlspace through the inadequate infills in addition to the moisture within the soil adjacent to the foundation walls.

Walker recommends the following conceptual recommendations:

- 1. Excavate along the rear and side elevations of Unit 1670 to expose the foundation walls and footings.
- 2. Perform concrete infill repairs at the three locations where the CMU was installed.
- 3. Install a steel lintel at the elevated repair location on the foundation wall along the side elevation of unit 1670.
- 4. Install a cementitious parge coating, cold-applied waterproofing, and drainage board with filter fabric.
- 5. Install a foundation drain to help drain water away from the existing foundations. The foundation drain should include provisions for cleaning the lines and future maintenance as well as venting.
- 6. Remove and replace the below grade drain lines for the downspouts.
- 7. Where possible, regrade the site adjacent to the elevations to promote positive slope away from the building. This may require removal of existing greenscape (trees, shrubs, and/or plants) that are located at/adjacent to the subject elevations.

In order to perform the repair work outlined above, the patio for Unit --- will have to be fully removed for the work to be performed. By removing the entire patio, the entire area of soil that the patio will bear on can be backfilled and compacted per Walker's construction documents.

Please note that prior to the Condominium requesting Walker prepare this summary letter, we were asked to prepare construction documents for the conceptual recommendations outlined above. Our construction documents (dated July 15, 2024) were forwarded to the Condominium, and it is our understanding that they have obtained pricing for their review for the proposed work.

This summary letter is not intended for construction purposes.



Please feel free to contact us if there are any questions or comments regarding the information presented in this summary letter.

Sincerely,

WALKER CONSULTANTS

Joseph W Willia TI

Joseph W. Wilcher III, PE Director – Building Envelope, Forensics & Restoration

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Steven Miller Restoration Engineer

Enclosures Limitations Appendix A: Schematic Foundation Plan Appendix B: Photographs



## Limitations

This summary letter contains the professional opinions of Walker Consultants based on the conditions observed as of the date of our site visit and documents made available to us by Parkfairfax (Client). This summary letter is believed to be accurate within the limitations of the stated methods for obtaining information.

It should be noted that our recommendations are conceptual in nature and do not represent changes to the original design intent of the structure. As a result, this summary letter does not provide specific repair details or methods, construction contract documents, material specifications, or details to develop the construction cost from a contractor.

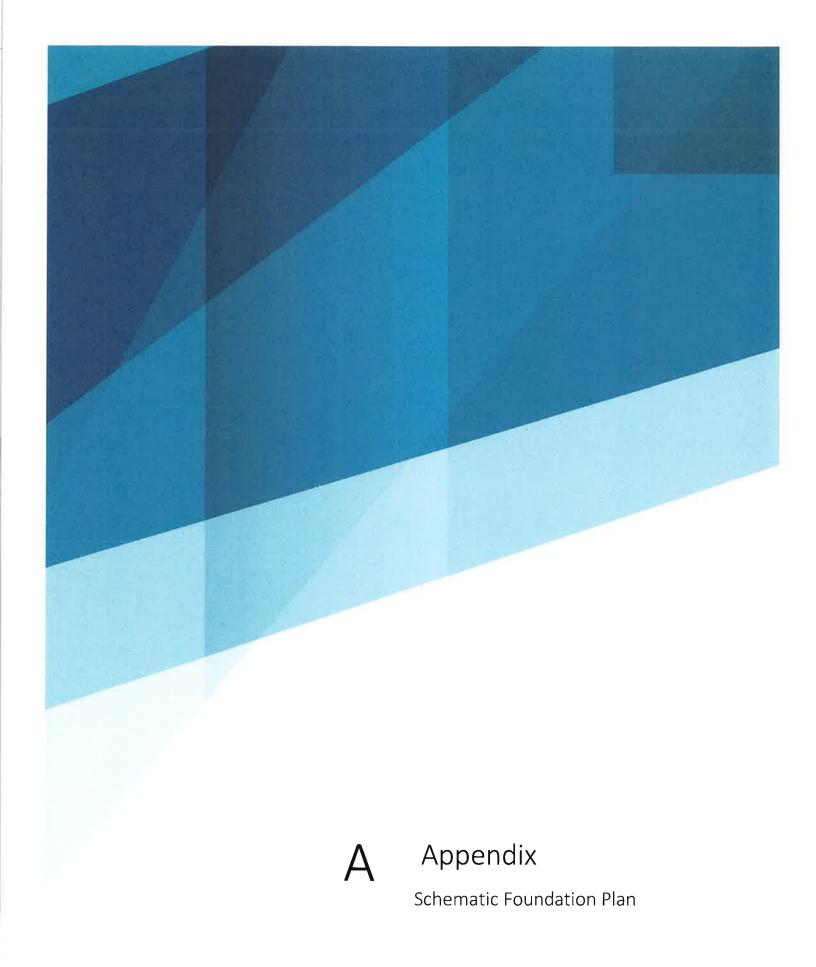
Based on the agreed scope of services, the assessment was based on certain assumptions made on the existing conditions. Some of these assumptions cannot be verified without expanding the scope of services or performing more invasive procedures on the structure. More detailed and invasive testing may be provided by Walker Consultants as an additional service upon written request from Client.

The recommended repair concepts outlined represents current generally accepted technology. This summary does not provide any kind of guarantee or warranty on our findings and recommendations. Our assessment was based on and limited to the agreed scope of work. We do not intend to suggest or imply that our observation has discovered or disclosed latent conditions or has considered all possible improvement or repair concepts.

A review of the facility for Building Code compliance and compliance with the Americans with Disabilities Act (ADA) requirements was not part of the scope of this project. However, it should be noted that whenever significant repair, rehabilitation or restoration is undertaken in an existing structure, ADA design requirements may become applicable if there are currently unmet ADA requirements.

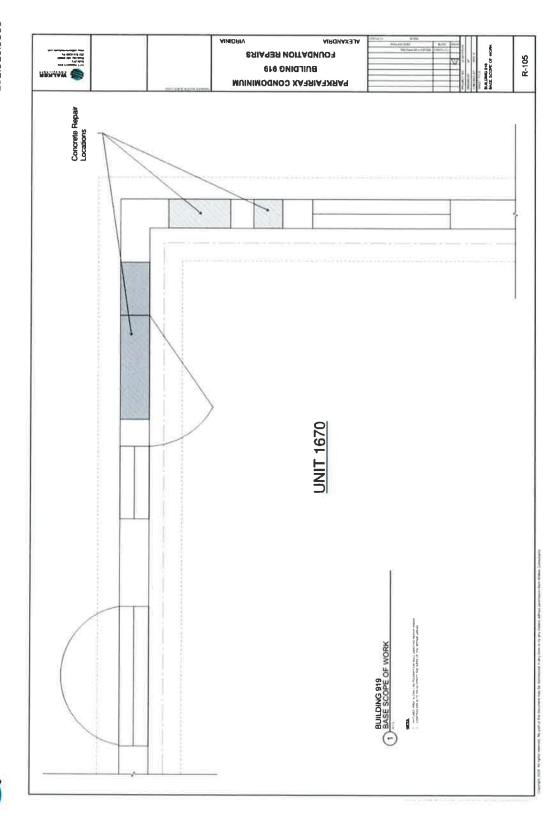
Similarly, we have not reviewed or evaluated the presence of, or the subsequent mitigation of, hazardous materials including, but not limited to, asbestos and PCB.

This summary letter was created for the use of Client and may not be assigned without written consent from Walker Consultants. Use of this report by others is at their own risk. Failure to make repairs recommended in this report in a timely manner using appropriate measures for safety of workers and persons using the facility could increase the risks to users of the facility. Client assumes all liability for personal injury and property damage caused by current conditions in the facility or by construction, means, methods and safety measures implemented during facility repairs. Client shall indemnify or hold Walker Consultants harmless from liability and expense including reasonable attorney's fees, incurred by Walker Consultants as a result of Client's failure to implement repairs or to conduct repairs in a safe and prudent manner.



WALKER CONSULTANTS

2277 Research Boulevard, Suite 275 Rockville, MD 20850 202.510.9366



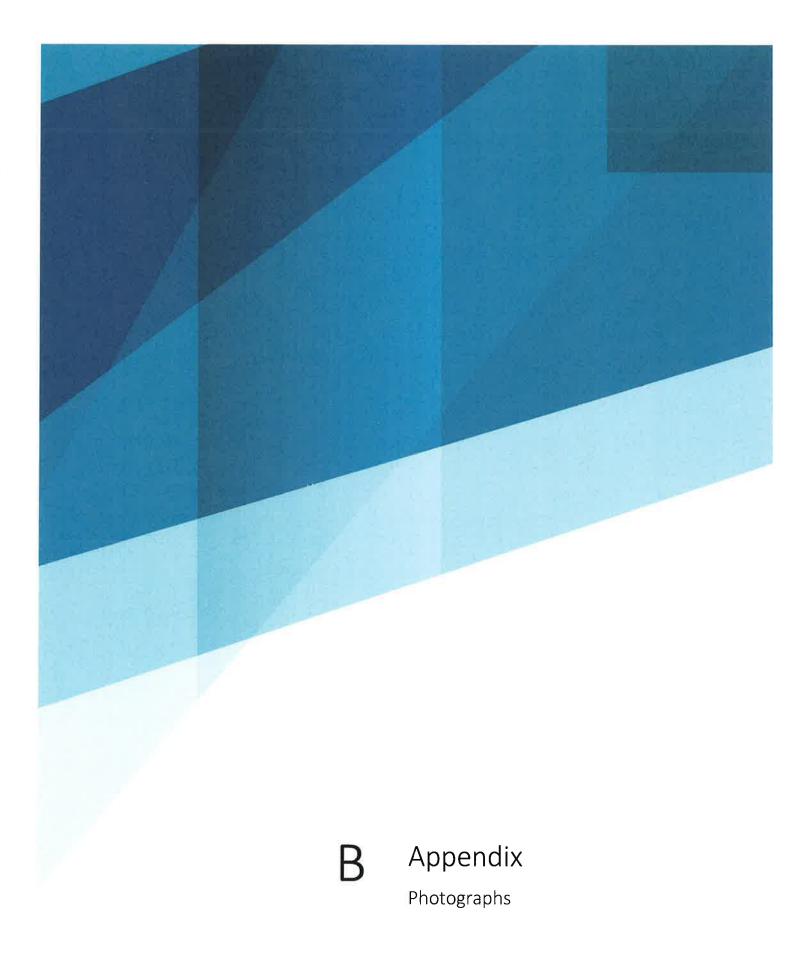




Photo 1. Demolished foundation wall at the rear of Unit 1670's foundation wall.



Photo 2. CMU infill at the side elevation of Unit 1670.





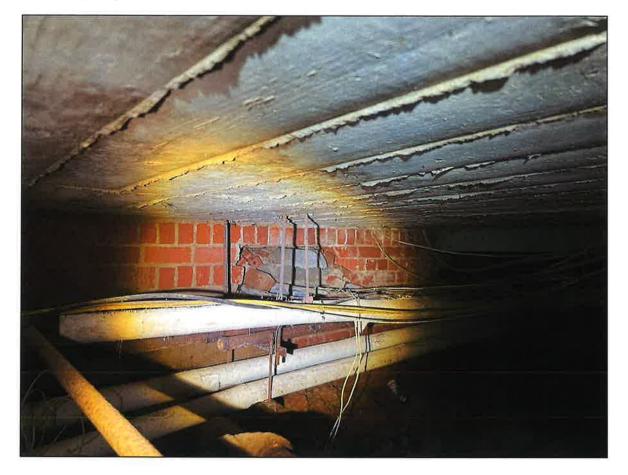


Photo 3. Opening in the side elevation foundation wall.



Photo 4. Rear porch of Unit 1670 sinking towards the building.



# **BUILDING 919 FOUNDATION REPAIRS** PARKFAIRFAX CONDOUMINIUM

1668 FITZGERALD LANE (BUILDING 919) ALEXANDRIA, VA 22302

WALKER CONSULTANTS PROJECT NO: 22-001570.00

**DRAWING INDEX** 

COVER SHEET GENERAL NOTES R-000 R-001 PARTIAL FOUNDATION PLAN AND FOUNDATION REPAIRS R-500

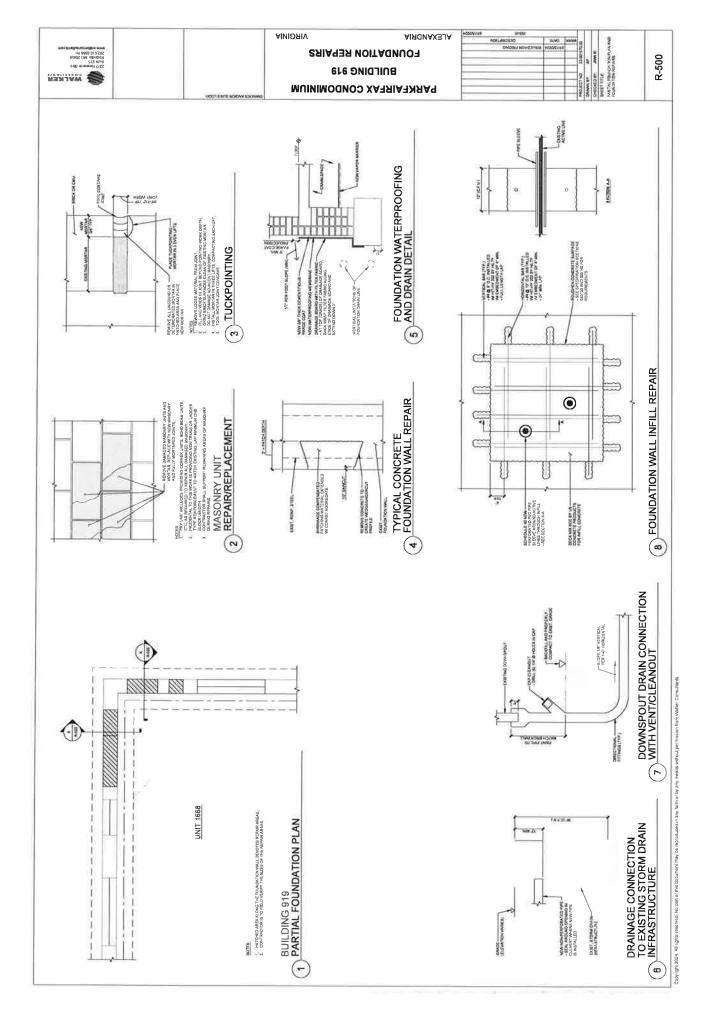
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LOCATION MAP



www.walkerconsultants.com 2277 Research Blvd Suite 275 Rockville, MD 20850 202.510.9366 Ph

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Date: 7/19/2024

Park Fairfax 3360 Gunston Road Alexandria, Virginia 22302

Re: Proposal

Dear, Mr. Steven Miller

For your review, I am submitting the following Proposal for foundation and waterproofing repairs at **Park Fairfax Building #919 Foundation Repairs**. The proposal is based on performing the work in accordance with the Scope of Work provided by Walker Consultants noted herein.

### SCOPE OF WORK

Mobilize crew to site.

Excavate foundation wall.

Demo failed section of wall.

Furnish and install new reinforced concrete inside of foundation wall,

Furnish and install new waterproofing detail.

Reinstall foundation drain.

Restore work area.

Proposal Amount: <u>\$71,950.00</u>

### **Clarifications and Exclusions**

- Schedule for completion of work is anticipated at 40 to 45 working days, exclusive of inclement weather.
- Contractor shall notify Miss Utility for marking of existing utilities prior to commencement of work. Location of all other utilities not marked by Miss Utility to be located by others. Relocation or removal of utilities or other sub-surface improvements is excluded.
- Costs for acquiring permits are NOT included in this proposal.

### SITE AND GENERAL CONSTRUCTION

5621 Vine Street • Alexandria, VA 22310 • 703-978-8300 Class A #2701-033195 Mr. Steven Miller Date: 7/19/2024 Page Two

- Costs for shop drawings and engineering are NOT included in this proposal.
- Costs for third party inspections, testing, surveying, or soil borings are NOT included in proposal.
- Avon Corporation is a Virginia Class A contractor (2701-033195) State of Maryland (15449832) Maryland Home Improvement License (124039) District of Columbia (410517000107) State of Delaware (2000106911)
  - The contract may be terminated by either party and agreed to by both parties. Contractor shall be paid in full for work performed prior to termination.
- Changes in the scope of work must be agreed by both parties and signed by a written Change Order.
- Payment terms are net 30 days upon approved pay application with 5 percent retention.

Sincerely,

AVON CORPORATION

Michael T. Avon President



# Proposal

### ADDRESS

Youssef (Joe) S Matar ParkFairfax Condominiums 3360 Gunston Rd Alexandria, VA 22302 United States

### ENVIROTECH CHEM. INC.

6300 Stevenson Ave Ste F VA +1 7033701617 joematar@envirotechchem.com

### PROPOSAL # 3360/Foundations DATE 08/08/2024

DESCRIPTION	QTY	RATE	CHARGE
<b>CONSTRUCTION</b> Partial foundation repair based on plans from Walker Consultants, labeled Parkfairfax Condouminium Building 919 Foundation Repairs, 1668 Fitzgerald Lane, Alexandria, VA 22302. Project No. 22-001570.00 (Index - R-000, R-001, R- 500)	1	49,877.50	49,877.50
We will provide material and labor to execute and follow listed plans. Excavation, backfill, pavers, foundation waterproofing and drainage will be priced as an "all inclusive" quote. Items listed in the plans under R-500-2 Masonry unit repairs/replacement, R-500-3 Tuckpointing, R-500-4 Typical Concrete Foundation Wall Repair and R-500-8 Foundation Wall Infill Repair will be quoted as estimated cost for labor and materials. (It might carry additional cost due to unseen items.)			
<ul> <li>SOW: 1668 Fitzgerald Ln</li> <li>1). Barricade rear exit and mask windows to prevent use of the door and protect glass during construction.</li> <li>2). Remove the existing pavers and salvage for reinstallation (approximately 540sf). NOTE - there are currently some missing and damaged pavers near the rear entrance, approximately 12sf.*</li> <li>Manually excavate approximately 12lf at 4'W x 6'D on the rear outside corner of 1668 Fitzgerald Ln</li> <li>3). Install protective system (shoring) after excavating with egress.</li> <li>4). Assess masonry units along with foundation wall to report to Walker Consultants/Parkfairfax to determine a scope of work for permanent repairs based on the plans.</li> </ul>			
PROPERTY PROTECTORS. BUILDERS. CONSTRUCTION. MAINTEN PROTECTORS. BUILDERS. CONSTRUCTION. MAINTEN			PERTY

<ul> <li>DESCRIPTION</li> <li>5). Trench from outside downspout drainage to the existing storm drain infrastructure. Install new downspout drainage connection with clean-out and directional fittings per plans. Install new non-perforated schedule 40 pipe and tie into the existing drain infrastructure per plans.</li> <li>6). After masonry repairs, tuckpointing and foundation repairs are performed, we will install new foundation waterproofing per plans with drain detail.</li> <li>7). Remove protective system to backfill and properly</li> </ul>	QTY	RATE CHARGE
compact to grade. 8). Install new crushed stone base for pavers. 9). Reinstall the existing pavers and replace approximately 12sf with new to match. 10). Remove all masking equipment, tools and project related debris away from the site.	I	
We are looking forward to working with you. T(	DTAL	\$49,877.50

Accepted By

Accepted Date



# Proposal

### ADDRESS

Youssef (Joe) S Matar ParkFairfax Condominiums 3360 Gunston Rd Alexandria, VA 22302 United States

### ENVIROTECH CHEM. INC.

6300 Stevenson Ave Ste F VA +1 7033701617 joematar@envirotechchem.com

### PROPOSAL # 3360/Foundations DATE 08/08/2024

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We are looking forward to working with you.	TOTAL	\$49,	877.50
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DESCRIPTION	QTY	RATE	CHARGE

Accepted By

Accepted Date



CS Proposal No. 2024-138

September 13, 2024

Mr. Francisco Foschi General Manager Parkfairfax Condominium 3360 Gunston Road Alexandria, VA 22302

RE: Parkfairfax Condominium - Building 919 Foundation Repair 1656-1670 Fitzgerald Lane, Building 919 Alexandria, VA 22303

Dear Mr. Foschi,

Per your request, Contracting Specialists (CS) is pleased to submit the following proposal to perform the scope of work as described below.

### SCOPE:

- 1. Mobilize all manpower, tools & equipment to the jobsite.
- 2. Remove and salvage up to 45 SF of existing patio pavers.
- 3. Excavate up to 220 CF of soil and salvage for backfill following repairs.
- 4. Prepare up to 80 SF of foundation wall area and apply parge coat.
- 5. Apply up to 80 SF of waterproofing on foundation wall.
- 6. Demolish, dispose of up to 50 SF of existing CMU. Then we will install reinforcing steel dowel into the existing foundation, form and pour back wall with a 5,000 psi bag mix.
- 7. Install 1 EA new drain clean out and connect to existing drainage line through the patio and a paint pipe to match existing brick in color.

<u>Note:</u> All work is to be completed per the Terms and Conditions as listed below. Excavation and replacement of drainage line under the patio pavers to the drainage basin is excluded as requested during site visit.



### CONTRACTING SPECIALISTS

### PRICING:

CS proposes to perform the scope of work as listed above for the total price of:

### **Total Lump Sum Price**

### \$ 39,445.14

<u>Note:</u> Pricing is valid until October 31, 2024. Pricing assumes all work items will be performed concurrently under one (1) contract agreement, utilizing one (1) mobilization. Pricing is subject to change upon clarification of repair details.

### SCHEDULE:

CS estimates that this scope of work will last fifteen (15) working days. Please contact Mr. Ville Vainio at (301) 513-5226 to schedule work.

### PAYMENT TERMS:

Payment shall be made within thirty (30) days of the invoice or requisition date. Penalties and late charges shall be assessed at 1.5% of the outstanding balance per month. Following completion of CS's scope of work, retainage shall not be held beyond a period of sixty (60) calendar days.

### **TERMS & CONDITIONS:**

Working Conditions

- Daily Work Hours 7:30am-4:00pm
- Standard, Day Work Shift Monday-Friday
- Open Shop Labor
- Premium time & Night Rates are not included in pricing

### Work Item Clarifications

- **CS** excludes all work items not specified in quote above.
- Unobstructed access to work area.
- Proposal assumes adequate electric (110V & 220V, 30 amp, single phase), temporary toilet & water supply to be provided onsite by others.
- Any masonry repairs at stair towers or adjacent garage are excluded.
- Laydown area is required to be provided by others and cost for laydown area rental are excluded.
- Façade cleaning is excluded.
- Replacement of roof deck structure or vertical supports are excluded.
- Concrete slab repairs are excluded.
- Repairs to footing, stabilization and/or jacking are excluded.
- Repair and/or replacement of steel framing/members are excluded.
- Removal and/or replacement of insulation is excluded.
- Removal and/or relocation of surface mounted appurtenances such as conduit, MEP, lighting to be done by others.
- Reconstruction/repair of back up wall, flashings and/or panels are excluded.
- Interior repairs of any kind are excluded.



### CONTRACTING SPECIALISTS

- D.C. LIC
- Third party testing is excluded.
- > Repair, painting and/or replacement of windows/ fenestrations are excluded.
- Parking area for construction vehicles to be provided.
- Relocation of site vehicles in work area must be performed by others and is excluded from pricing.
- Relocation and/or temporary storage of furniture at terrace or roof level are excluded and to be performed by others prior to mobilization.
- > Demolition and/or replacement of asphalt, slab on grade is excluded.
- Staging, storage & office area to be provided by others.
- > Engineering design/evaluation is not included.
- > Abatement work of any kind such as removal of sealants is not included.
- Landscaping repairs are not included.
- All work will be performed during regular work hours unless otherwise specified. Overtime/weekend work can be performed at an additional cost.
- CS will complete all work in a workman-like manner in accordance with industry standards.
- We exclude all work associated with hazardous/contaminated materials and conditions.
- > We exclude all costs associated with winter/inclement weather conditions.
- We exclude all bonds, permits, and special insurances, however, these can be provided for an additional cost.
- Proposal includes one mobilization and assumes clear un-impeded access to all work areas for the full duration of our work.
- CS will not be responsible for embedded utilities unless clearly marked on drawings or details provided prior to commencement of work.
- Proposal assumes a suitable and adequate location for dumpsters, storage trailers, staging area, and parking area for work vehicles will be provided on site.



By signing this proposal, the client hereby agrees that this is a binding contract based on the terms & conditions above.

CLIENT ACCEPTANCE	CS	
BY;	BY:	
TITLE:	TITLE:	
DATE:	DATE:	

We thank you for the opportunity to provide this proposal. Should you have any questions or require additional information, please do not hesitate to call me at (301)513-5226.

Respectfully,

Contracting Specialists

Ville VS

Ville Vainio Branch Manager

CC: CS Proposal File 2024-138