The City of WORCESTER

Administration & Finance – Purchasing Division
Christopher J. Gagliastro, MCPPO – Purchasing Director
455 Main Street, Room 201, Worcester, MA 01608
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purchasing@worcesterma.gov

October 20, 2026

To All Bidders:

Subject: **Bid No. 8828-M7 – Roof Replacement – 76 East Worcester St / DPW**

ADDENDUM NO. 4

To Whom It May Concern:

With reference to our bid request relative to the above subject, please refer to the changes/modifications/clarifications to the original proposal request.

CLARIFICATIONS

1. Q. At one collapsed deck area, we observed a sprinkler pipe that appeared to have been bent by the collapse. Clarification requested: Please confirm whether the Owner will repair the damaged piping before construction or whether the GC must include the repair in the base bid.

   A. GC to repair existing damaged sprinkler piping at locations where the existing roof collapsed. Limit repair of pipes within collapsed structural bays, indicated on drawings (approximately 30 lf, GC v.i.f.). Shutdowns of existing system is to be coordinated with Owner during construction.

2. Q. The ACM tables refer to architectural drawings without measured quantities, while the specification requires quantity verification and limits compensation for quantity variations. We need a consistent, measurable basis for abatement pricing. Please specifically confirm whether ACM quantities exceeding the quantities established for bidding will be treated as additional work, how the excess will be measured and compensated (unit prices or Change Order), who must authorize it, and whether related delays qualify for a time adjustment.

   A. ***DELETE*** entirely Section 020800 and ***REPLACE*** with the updated Section 020800, attached as part of this Addendum. Additional removal due to unforeseen conditions will be approved by the Owner and Architect and will be handled through a Change Order and would qualify for a time adjustment.

2. Q. Clarification requested: Please identify the fence owner, and adjacent landowner or railroad operator. Clarify any permit required to work in that area and the authority that provided the permit.

   A. A temporary license from the MBTA is required to work within the "Zone of Influence" (ZOI). This license will be procured by the DPW and has a 45-60 day approval window. Construction start will be deferred until this application is approved and the DPW is in receipt of the license. The DPW will coordinate all access to the ZOI. The Contractor is expected to begin sending submittals and a

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proposed construction schedule upon issuing of the Notice to Proceed, beginning the 120 day window. A no cost time extension PCO will be issued as required to extend the contract.

2. Q. Will the Owner and Structural Engineer evaluate complete deck replacement and broader replacement of existing beams and columns? If considered, issue a defined alternate or revised base-bid scope. Additional clarification requested: Please provide any existing structural condition assessment, investigation, or deterioration report identifying the beams, columns, connections, and supporting elements requiring repair or replacement, together with the basis used to define that scope.

   A. The extent of decking replacement and structural repairs, including temporary shoring, are shown on the Structural Drawings (S0.1 – S1.3).

2. Q. S1.1 directs bidders to budget for 50 percent deck replacement, while the bid form states that unit prices are not applicable. The controlling quantity and adjustment method are unclear. Clarification requested: Please establish the base-bid replacement square footage and the roof area used to calculate 50 percent. Confirm whether identified collapsed areas and replacement required for steel repairs are included within that quantity.

   A. Refer to Structural Drawings for the hatch indicating existing decking to be replaced. This plan is to be cross-referenced with the Architectural Plans showing areas of collapse. Refer to Note 6. on S1.1 explaining approximately 30% of decking is shown on the drawings to be replaced, but 50% shall be budgeted to cover any additional replacement required. The GC may issue an RFI during construction if additional decking is uncovered requiring replacement. The architect and structural engineer will then review and advise on the RFI. Additional replacement beyond 50% shall be covered through a Change Order.

2. Q. Please confirm that all indicated conditional repairs must be included in the base bid. Establish the method for calculating credits when repairs are omitted and for pricing additional deterioration beyond the detailed repairs. Identify the required inspection hold points and expected review timing before fabrication or reinforcement proceeds.

   A. All repairs indicated on the structural drawings are to be included in the base bid. GC to advise the Architect when the existing beams indicated on the drawings have been cleaned and are ready for Architect/Engineer review. If additional or reduced repairs are required, the difference will be handled through Change Order.

3. Q. Please identify the anticipated award, execution, notice-to-proceed, and site-availability dates. Confirm whether the 120-day period includes submittal review, foundation investigations, fabrication, and procurement. Clarify whether roofing and masonry must proceed through winter or whether a deferred start or seasonal suspension will be allowed, and how an Owner-directed suspension affects the completion date.

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A. Refer to Section 001500, Article (12) for information regarding the Award of Contract and Section 002000, Article 8, 8.1.2 for the Date of Commencement of the Work. Site availability and NTP dates are to be determined after award of the low bid. Upon issuing of the NTP, the Contractor may begin coordinating access to the site with the DPW. The 120-day period includes submittal review, fabrication, and procurement, but does not include MBTA review of the ZOI Application. Foundation investigations are not within the project scope. Masonry work is intended to proceed through the Winter, along with roofing work that is able to be completed in the Winter. Refer to 015000, 2.6 for Temporary Weather Protection and note that temporary enclosures are required for masonry work to commence, but temporary enclosures are not required over the roof, except temporary roofing as required per the answer to Question 14 of this Addendum.

4. Q. Confirm who will investigate newly exposed suspect materials outside the survey and establish the authorization, pricing, and schedule procedure if additional hazardous materials are identified.

   A. When suspect materials outside the survey are uncovered, Atlas shall test the additional materials. Any additional abatement work shall be treated as an unforeseen condition and will be handled through a Change Order.

5. Q. Please confirm which trade is responsible for disconnecting, temporarily removing, relocating, protecting and storing, reinstalling, and reconnecting rooftop HVAC equipment affected by roof replacement, including rigging/crane operations and final testing and commissioning.

   A. Disconnections will be performed by the GC. Refer to the updated Section 020800

6. Q. Please confirm the complete required assembly, including any substrate board beneath the vapor barrier and cover board beneath the membrane. Provide roof-zone wind-uplift pressures and assembly approval criteria. Confirm required fastener pullout testing and acceptance criteria for retained deck, and how corrective work will be authorized and priced if adequate attachment cannot be achieved.

   A. The complete required assembly is as shown on the drawings. In Section 075000, Article 1.15, Paragraph B, Sub-paragraph 1, ***CHANGE*** Item (a.) to read as follows:

   (a.) Total system warranty shall include all roofing materials, related components and accessories including **all materials installed**. The manufacturer shall repair defects in materials and workmanship as promptly after observation as weather and site conditions permit.

   Refer to 075001, Article 3.06, Paragraph E for mechanical fastening requirements, to be set by the membrane manufacturer per windspeed warranty requirements.

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7. Q. Please identify the responsible trade at these interfaces for trim, plywood/blocking, self-adhered membranes, EPDM transitions, and seals. Confirm the limits of retained steel supporting construction and define how deteriorated concealed wood infill or retained steel discovered after removal will be assessed and priced.

   A. Refer to Addendum 1. Unforeseen conditions will be addressed with a Change Order.

8. Q. Please correct Article 1.4.A and confirm that the unrelated accessibility-renovation work is excluded. Clarify the project-specific occupancy or completion approval required at substantial completion for this roof-replacement and structural-repair project.

   A. Section 010100, Article 1.4, ***CHANGE*** Paragraph A. to read as follows:
   A. The Work of this Project is defined by the Contract Documents and consists of the following: The project scope generally consists of structural repairs to a DPW truck garage, including repairs and select replacement of steel roof decking, roof framing, masonry backup wall, and face brick, and any other related work necessary to complete all the Work of the respective Sections and indicated on the drawings.

   A Certificate of Occupancy is not required.

9. Q. Please identify the monitoring limits, who directs and releases a shutdown, and which work areas/trades must stop.

   A. GC to determine means and methods of scheduling all work of the project. GC is responsible for directing and releasing a shutdown, if necessary.

10. Q. Confirm whether the Structural Engineer of Record has verified the capacity, compatibility, connections, and load paths of existing members that will remain. Identify any required strengthening, stabilization, or remediation of those members, and explain how concealed deficiencies, additional design/repair work, cost adjustments, and resulting delays will be handled.

    A. Refer to the Structural Drawings for required structural repairs. The GC will submit an RFI for questions regarding existing conditions discovered during construction. If discrepancies exist between the drawings and the field conditions, changes in the work will be handled per Article 12 of Section 002000.

11. Q. Confirm whether roofing/deck work and structural repairs must proceed concurrently or by phase; specify work-area handoff, inspection/acceptance, access, and coordination responsibilities. If incomplete structural work prevents roofing progress, identify the procedure and responsibility for schedule adjustments, standby time, repeated mobilization, and associated extra costs.

    A. GC is responsible for the means and methods of how to sequence work.

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12. Q. Identify any project-specific engineered lifelines/anchors, fall-through protection, access platforms, shoring, or temporary stabilization required beyond applicable safety regulations. Confirm who will evaluate and approve the capacity of remaining deck and anchorage points and who is responsible for designing, furnishing, and paying for required temporary systems.

    A. The GC is responsible for safety per Article 10 of Section 002000. The Roofing Contractor is responsible for the safety of his employees when working on the roof, per Section 075000, Article 1.11.

13. Q. Confirm whether the building will remain occupied or operational, and identify unavailable areas, restrictions, temporary separations, work hours, and required phasing, if any. Clarify which party coordinates area access and how Owner-imposed restrictions or delayed area turnover will affect contract time and compensation.

    A. The garage will continue to be used throughout construction. GC to coordinate construction schedule with DPW who will make areas of work available to the GC and subcontractors as necessary.

14. Q. Define the required temporary waterproofing/weather protection during work, overnight, and during forecast rain; identify any limits on open-roof exposure and whether temporary roofs, enclosures, or interior protection systems are required. Distinguish normal daily protection from separately required engineered or extended-duration systems, and confirm scope, responsible trade, performance criteria, and payment basis.

    A. Building is required to stay above freezing and is heated. Temporary roofing required to enclose the building not during construction when temps are below 50. Refer to Section 015000, Article 2.6 for temporary weather protection requirements.

15. Q. Please confirm whether MassDEP approval has been obtained and provide the final approved procedures and any associated conditions.

    A. Refer to the updated Section 020800, attached as part of this addendum.

16. Q. Please provide a site logistics plan identifying designated areas for contractor and subcontractor material storage, removed HVAC and other rooftop equipment, dumpsters, crane setup, and loading/unloading. Confirm access restrictions, space limitations, permitted storage durations, and availability throughout the project.

    A. Designated areas for storage and staging shall be determined at the pre-construction meeting. The DPW will clear parking spaces in the adjacent parking lot for storage and staging purposes. GC to coordinate needs with the DPW.

17. Q. Please confirm which party is responsible for providing and paying for the metal roof deck structural design, including engineering calculations, stamped drawings, and any required professional engineering services. Clarify whether this work is included in the

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Roofing and Flashing filed sub-bid or under the GC's structural scope. Also confirm the Structural Engineer of Record's responsibility for providing design criteria, reviewing the proposed deck design, and verifying compatibility with the existing supporting structure.

A. All scope involving the metal deck and structural steel repairs are the responsibility of the General Contractor. The GC is responsible for providing engineer stamped drawings per Note 8 under section G on Sheet S0.1.

18. Q. Please confirm whether the demolition, removal, and disposal of existing wood beneath the parapets, cant strips, and clerestory sill counterflashing are the responsibility of the Asbestos Abatement Contractor or the Roofing and Flashing Subcontractor.

    A. All roofing components shown to be removed on drawings are the responsibility of the roofing contractor, unless otherwise indicated on the drawings or specifications. Refer to the updated Section 020800 attached as part of this addendum.

19. Q. Is a builder's risk policy required?

    A. Not required.

20. Q. Are liquidated damages required.

    A. Refer to Question 5 from Addendum 1.

21. Q. Will permit fees be waived for this project?

    A. Yes.

22. Q. Is there an OPM on this project, if so, what is the firm?

    A. There is no OPM firm for this project.

23. Q. Is there an MBE goal for this project?

    A. The MBE goal is 10%, per the City MWBE form, attached to the bid packet.

24. Q. Will any testing costs be reimbursed by the Owner?

    A. Refer to Section 002000, Article 7.7.

25. Q. Please confirm that all scaffolding, staging, hoisting, and other equipment is to be carried by the filed subcontractor.

    A. Confirmed, all subcontractors are responsible for their own lifts, derricks, hoisting services etc. In Section 015000, 2.8, ***DELETE*** Paragraphs A and B and re-letter C and D to "A" and "B" respectively. In new Paragraph "A", ***DELETE*** the text reading "(excluding crane services outside the building)".

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26. Q. The drawings are stamped "Not for Construction". Please confirm drawings are for bidding.

    A. Confirmed. These drawings are to be used for bidding.

27. Q. For shoring on structural drawings, please confirm if contractor is to carry engineered stamped drawing from a registered engineer in MA?

    A. Confirmed. See Note 8 under section G on Sheet S0.1.

28. Q. Please confirm if Filed Sub Bidder Mason owns demo of masonry.

    A. Confirmed. In Section 024119, Article 3.05, ***DELETE*** Paragraph A, "Masonry". In Section 042001, Article 1.03, Paragraph E, ***DELETE*** sub-paragraph 1, starting with "02 41 19 – Selective Demolition…" and under Article 3.01, ***REPLACE*** Paragraph A to read as follows: Demolish existing masonry in small sections. Cut masonry at junctures with construction to remain, using powerdriven saw, and then remove masonry between saw cuts. Using hand tools, tooth masonry that remains to receive new matching masonry. Tooth out any broken or cracked blocks along construction joints so that full new masonry units can be installed to align with existing courses.

29. Q. Please confirm if Filed Sub Bidder owns metal deck replacement.

    A. No. GC is responsible for all structural steel and metal deck work.

30. Q. The specifications include Section 03 30 00 Cast-in-Place Concrete. Please confirm whether it applies to this project and where that scope is located.

    A. Concrete is to be used to infill column pockets. Refer to Details 2, 3, and 4 on S1.2.

31. Q. Please confirm the plumbing scope is not a Filed Sub-Bid and is to be carried by the General Contractor.

    A. Roof drain work is by the Roofing Filed Sub-bidder. Refer to Section 075001, Article 2.08, Paragraph F for Roof Drain and pipe information. 075001, Article 2.08, Paragraph F, Sub-paragraph 5, ***CHANGE*** item (a.) to read as follows:
    (a.) Drain Pipe: 4" cast iron drain pipe to match existing. Contractor to verify existing pipe dimension in field.

32. Q. Please confirm whether the new sill detail (4/A3) shows (1) or (2) layers of ½" plywood on the interior face.

    A. One (1) layer.

33. Q. Please confirm staging requirements. Section 01 50 00 states "All staging and scaffolding shall be enclosed at the ground by a temporary construction fence." Is this required for this project?

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A. Yes.

34. Q. Who is responsible for removing the "deteriorated base of existing 8" CMU Bearing wall" shown on S1.1. and 3/A2?

    A. The mason is responsible for all masonry removal and replacement shown on the drawings.

35. Q. Who is responsible for removing the existing expansion joint shown in Typical Expansion Joint Detail 9/A2?

    A. The abatement contractor is responsible for removal and the mason filed sub-bidder is responsible for the new expansion joint. Refer to Section 042001, Article 2.07.

36. Q. Addendum 1 question 8 assigns roof ACM to the roofing filed sub-bidder. Please confirm.

    A. In Section 075001, Part 3, 3.03, ***DELETE*** Paragraph B, added via Addendum 1. All ACM to be removed by Abatement Contractor. Refer to drawings.

37. Q. Section 07 50 01 §1.03.A.2 includes "new wood perimeter blocking and plywood substrates" in the Roofing FSB, while 06 10 00 excludes "roof edge curbs and blocking." Please confirm which trade furnishes and installs: (a) the 2x6 P.T. and (2) 2x4 P.T. blocking at the clerestory roof edge in 3/A3; and (b) the 3/4" plywood backer at the clerestory sill in 4/A3 that receives the adhered EPDM.

    A. The roofing filed sub-bidder is responsible for all wood blocking required for installation of their roofing membrane. Carpentry items for the installation of trim, windows, and interior finishes are by the General Contractor.

38. Q. The Enlarged Sill Flashing Detail on A3 calls for "cedar clapboard" beneath the new glazing sill. Is this actually the preferred lumber? If not, please confirm the intended material.

    A. This is the preferred lumber but the Architect takes no exception to the GC proposing their preferred method of providing a sloped window sill.

39. Q. Sheet A1 Detail 3 requires painting the underside of new and existing roof deck and all new and existing steel beams. Please confirm this applies to the entire roof area of the building (approx. 26,000 SF) and not only areas of new work. The Atlas survey sampled roofing materials only; please advise whether the existing deck and steel coatings have been tested for lead and, if lead is present, the required surface preparation (09 90 01 3.03 calls for abrading existing corrosion).

    A. Confirmed. Painting applies to the entirety of the underside of the roof deck. The existing steel paint was not tested for lead, but can be assumed to contain lead given the age of the building. De-leading is not required because the building is not a residential property. When prepping existing steel per 09 90 01, 3.03, follow MA DEP best management practices for working with lead paint.

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40. S1.1 Note 5 states temporary shoring capacities assume 20 psf roof live load and 0 psf roof snow load. Please confirm how snow loads on shored areas are to be handled during winter construction (e.g., snow removal by Owner or Contractor, or shoring designed for snow load), and whether the Contractor's PE-stamped shoring design may assume 0 psf snow.

    A. With work occurring in the winter, temporary shoring is to include snow load. Contractor's engineer to design and stamp temporary shoring to support snow load.

41. Q. Section 05 12 00 references Section 05 50 00 Metal Fabrications, which is not included in the Project Manual. Please confirm there is no miscellaneous metals scope or provide the section.

    A. Confirmed. There is no misc. metals scope in this project. Section 051200, Article 1.02, Paragraph D, ***DELETE*** Sub-paragraph 3. Reading "Section 055000 – Metal Fabrications".

42. The City's anticipated contract award and execution dates.

    A. Generally speaking, award happens within 2-3 weeks of bid closing. Execution depends on awarded vendor's timeline for signature and bonding,

43. The anticipated Notice to Proceed or on-site start date.

    A. Upon return of contract, bonds, and issuance of City Purchase Order.

44. Whether the City intends construction to begin this winter, or whether a spring start is anticipated.

    A. Winter construction is expected for this project.

45. Please confirm who is responsible for furnishing and installing the staging for the Roofing Filed Sub Bid scope. Is it the FSB Roofer or the General Contractor?

    A. Please see Question 25.

46. Documents only state the total allowed duration of 120 days for this project, but do not have a start date. Please confirm this is a spring 2027 project, and that the GC is not responsible or expected to carry any winter conditions/temp hear for the installation of windows/CMU repairs.

    A. Please see Question 44 and Section 015000

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Bidders are requested to acknowledge and/or include this addendum with submission. All other terms, conditions and specifications remain unchanged.

Very truly yours,

Stephen R. McDonald
Assistant Purchasing Director

PART I - GENERAL

1.1 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including General and Supplementary Conditions apply to this Section.

B. The Owner shall not incur any additional costs due to negligence or regulatory requirements imposed upon this project due to the Asbestos Abatement Contractor failing to abide by the requirements of the specifications and applicable regulations.

1.2 SUMMARY

A. Provide all labor, materials, and equipment necessary to complete work of this Section, including but not limited to the following:

1. All Asbestos Abatement work referenced herein shall be performed by a Massachusetts licensed Asbestos Abatement Contractor in accordance with Massachusetts Department of Labor Standards (DLS) 454 CMR 28.00 Regulations.

2. The Contractor shall also provide the project name, contact person and phone number of three (3) projects which were successfully completed of similar size and scope within the last two (2) years. Each project shall have been completed in good standing and the work performed by the Contractor for each project resulted in no work violations/citations, contract delays, contract extensions/disputes or litigation. Failure to provide this information and/or meet the approval of these qualifications by the Owner may result in rejection of the Contractor.

3. The Owner shall also reserve the right to research and utilized other information received from any other projects completed by the Contractor for any project not provided under 1.2 B (2) above, regardless of the date completed, location or circumstances resulting from the outcome of their work. The Owner shall reserve their right to reject the Contractor based upon this review, for any reason, if found to be in the best interest of the Owner.

B. Items to Be Installed Only: None

C. Items to Be Furnished Only: None

D. Related Sections: Section 075001 – Membrane Roofing, for materials to be removed by the Roofing Filed Sub-Bid.

1.3 ALTERNATIVES

A. Alternates: None

1.4 UNIT PRICES

A. Unit Prices: None.

1.5 DEFINITIONS

A. Site: Refers to the Worcester DPW facility located at 76 East Worcester Street, Worcester, Massachusetts as outlined by contract documents and drawings.

B. Owner: Refers to the City of Worcester and their designated, authorized personnel.

C. Architect: Refers Nault Architects Inc., 71 Hope Avenue, Worcester, Massachusetts and their designated, authorized personnel.

D. Consultant: Refers to ATLAS Technical Consultant, LLC (ATLAS), 73 William Franks Drive, West Springfield, Massachusetts and their designated, authorized personnel.

E. Contractor: Refers to the Contractor who has been awarded the Contract for performance of asbestos roofing materials abatement work as outlined by this Section.

F. Asbestos Project Designer: The MADLS certified Asbestos Project Designer for this project is Mr. Edward Kolodziej (#AD074321), ATLAS Technical Consultant, LLC.

1.6 SUBMITTALS

A. Refer to Division 1 Section Submittal Procedures for administrative and procedural requirements for submitting Shop Drawings, Product data, Samples, and other miscellaneous submittals.

B. In addition to items required by other sections of the Project Manual, the following submittals are required for review and approval by the Owner on/or before the Pre-Construction Meeting:

1. Copies of notifications
2. Chain-of-Command list of all personnel on-site and emergency contact person(s)
3. Work plan which dictates all removal procedures to be implemented

C. In addition to the items required by other sections of the Project Manual, the following submittals are required for final payment

1. Contractor’s Daily Log Notes
2. Personal Monitoring Results
3. Copy of Waste Shipment Records

1.7 DESCRIPTION OF WORK

A. Work: This section details all areas where asbestos abatement work is to be performed and lists areas requiring special protection during the abatement work. The Contractor shall furnish all labor, materials, services, training, insurance, and equipment as needed to complete removal of asbestos-containing and asbestos-contaminated materials located as indicated below. The Asbestos Abatement Contractor shall follow all Federal, State and local ordinances, regulations and rules pertaining to asbestos, including its abatement, storage, transportation and disposal.

B. The Contractor shall be responsible for verifying all quantity estimates in preparation of their bids, including the location and conditions of all asbestos-containing materials to be abated under this contract. No additional compensation and/or contract time shall be granted to the Contractor for failure to perform this requirement and no compensation shall be granted for variations in the

quantities presented herein.

C. The Contractor shall begin the work within a mutually agreed upon time with Owner, Architect and General Contractor. Contractor shall work in harmony with all other trades performing separate contract work in the building.

D. The following Scope of Work and Requirements shall be applicable for asbestos abatement work at the Worcester DPW facility located at 76 East Worcester Street, Worcester, MA. If a specific note for an abatement procedure or requirement is not mentioned herein, the Contractor shall perform the removal of such material in accordance with local, state and federal regulations. The Contractor shall also coordinate all work with the General Contractor, as applicable.

1. All Asbestos Abatement work shall take place in accordance with the provisions outlined herein as well as current local, state and federal regulations. No additional compensation shall be granted to the Contractor for compliance with applicable laws when performing the abatement work at the site. This shall include any regulatory requirements that mandate additional or more restrictive containment and abatement procedures than what has been presented herein. It shall be the Contractor's responsibility to comply with such regulations as well as any other additional requirements outlined by this Section.

2. The Contractor shall be responsible for all demolition work required to access all asbestos materials for abatement. All demolition debris shall be disposed of as asbestos (unless otherwise directed by the Consultant).

3. Coordination shall exist between the abatement under this Section and the disconnection of existing electrical, plumbing or fire suppression equipment within the building by the Contractor.

4. The following requirements shall be applicable for asbestos abatement activities at the site, unless otherwise stated in this section :
   a. Perform abatement of asbestos-containing materials using negative air filtration techniques (estimated at 1-NAFUs for each containment), decontamination chambers, critical barriers, full 2 layer plastic containment’s (2-layers of 4-mil poly on walls, and 2-layer of 4-mil poly for ceilings) and the encapsulation of post removal surfaces unless otherwise specified in this Section. Other similar building materials may be in/proximity to the work area but are not part of this abatement project and are outside of this scope.
   b. Establish a decontamination unit in accordance with applicable regulations. Properly sealed (double waste-bagged, cleaned, labeled, etc.) waste materials may be transported through the decontamination unit to the transport vehicle.
   c. Workers shall wear disposable protective suits and respiratory protection for abatement or disturbance of asbestos-containing materials.
   d. Consistently and thoroughly wet asbestos containing materials with a fine spray of amended water. Carefully remove (manual hand-methods) and immediately place asbestos in approved and properly labeled 6-mil polyethylene disposal bags or drums. Surfaces shall be free of visible debris and surfaces shall be wiped clean and/or HEPA vacuumed clean.
   e. All areas must meet visual inspection criteria and final air clearance criteria as described in Section 3.3 and as required by applicable regulations prior to tear down of polyethylene and area clean up.

5. Any damage as a result of the abatement work shall be repaired by the Contractor or compensate City of Worcester.

6. Comply with requirements for final clearance and release of a work area as described in this Section and as required by applicable regulations prior to tear down of polyethylene and area clean up. Perform Final Clearance Visual Inspections in accordance with requirements outlined in Section 3.3.

7. A Non-Traditional Work Plan (NTWP) has been included with the design specifications for this project. The MassDEP NTWP approval is located in Attachment B of the specification. An addendum to the NTWP will be submitted regarding the contractor information for the AQ36 Permit Request once the project has been awarded.

8. Refer to Attachment A (Table 1.0) for a summary of materials that require abatement at the site. In addition, refer to the Drawings for locations identified by Table 1.0.

1.8 CODES AND STANDARDS

A. All work shall conform to the standards set by applicable Federal, State and local laws, regulations, ordinances, and guidelines in such form in which they exist at the time of the work on the contract, and as may be required by subsequent regulations. In addition to any detailed requirements of the Specification, the Contractor shall at his own cost and expense comply with all laws, ordinances, rules and regulations of Federal, State, Regional and Local Authorities regarding handling and storing of asbestos waste material. This includes all applicable OSHA regulations.

B. All regulations and other governing agencies in their most current version are applicable throughout this project. Where there is a conflict between this Specification and the cited State, Federal, or local regulations, the more restrictive or stringent requirements shall prevail. This Section refers to many requirements found in these references, but in no way is it intended to cite or reiterate all provisions therein or elsewhere. It is the Contractor's responsibility to know, understand, and abide by all such regulations and common practices.

1.9 FEES, PERMITS & LICENSES

A. The Contractor shall pay all licensing fees, royalties, and other costs necessary for the use of any copyrighted or patented product, design, invention, or process in the performance of the work specified in this section. The Contractor shall be solely responsible for costs, damages, or losses resulting from any infringement of these patent rights or copyrights. The Contractor shall hold the Owner and Consultant harmless from any costs, damages, and losses resulting from any infringement of these patent rights or copyrights. If the Contract Specification requests the use of any product, design, invention, or process that requires a licensing, patent or royalty fee for use in the performance of the job, the Contractor shall be responsible for the fee or royalty fee and shall disclose the existence of such rights.

B. The Contractor shall be responsible for costs for all licensing requirements, where applicable and notification requirements and all other fees related to the Contractor’s ability to perform the work in this Section.

C. Secure all necessary permits for work under this Section, including hauling, removal, and disposal, fire, and materials usage, or any other permits required to perform the specified work.

1.10 CLEANING

A. Maintain the work site in a neat and orderly manner at all times, so as not to interrupt or infringe upon the work of other trades. Perform all final cleaning of abatement work areas as required by this Section and Massachusetts Regulations to the approval of the Owner’s Consultant. Upon

completion of work in any given area, Asbestos Abatement Contractor shall remove all material and equipment associated with the work, not necessary to complete other phases of the work in that area.

B. At the end of each work day the Contractor shall ensure that the building is secured and all exterior areas of the building are free and clear of all work-related debris.

C. Comply with all requirements for final clearance and release of a work area as described in this Section and required by the Massachusetts Regulations prior to take down of polyethylene and area clean-up.

1.11 COORDINATION

A. Extend full cooperation to Owner in all matters involving the use of Owner's facilities. At no time shall the Contractor cause or allow to be caused conditions, which may cause risk or hazard to the general public, or conditions that might impair safe use of the facility.

B. Complete Asbestos activities in the phases of the final schedule agreed upon by Owner.

C. The Contractor shall be made aware that separate contracts will be engaged by the Owner for other work to be performed within the site building. The Contractor shall be made aware that those Contracts will be on-going during the same time as the asbestos abatement work outlined herein. The work of this Contract shall proceed in "harmony" with the work of those projects, which will be subject to coordination by the Owner. No additional compensation or contract time shall be granted for failure to recognize and comply with this requirement.

1.12 SUBSTITUTION OF MATERIALS OR METHODS

A. Owner and Consultant approval is required for all modifications to methods, procedures, and design, which may be proposed by the Contractor. It is the intent of these documents to allow the Asbestos Abatement Contractor to present alternative methods to the abatement processes herein, for review by Owner and Consultant. Any such modifications or substitutions to methods, procedures, or design shall comply with applicable regulations. The Contractor shall submit the proposed modification or substitution in accordance with the requirements of the General Conditions, and no later than fifteen (15) working days prior to planned commencement of proposed modification, for review and approval.

B. Unless requests for modification or substitution are made in accordance with the above instructions and the instruction of the General Conditions, supported by sufficient proof of equality, the Contractor shall be required to furnish the specifically named or designed items, methods or procedures designated in this Section.

C. If the modification or substitution necessitates changes or additional work, same shall be provided and the Contractor shall assume the cost and the entire responsibility thereto unless performed under the approved Change Order Process.

D. The Owner and Consultant's permission to make such substitution shall not relieve the Contractor from full responsibility for the work.

1.13 SITE SECURITY

A. The Contractor is responsible for performing all work under this contract without contaminating the building or environment with asbestos fibers. This includes interior areas, outside

containment locations, machinery and equipment and any other release into unregulated spaces. The Contractor is responsible for making right and clean-up of any such contamination if found to be present.

B. The Contractor will be responsible for the security of the abatement area, allowing only authorized personnel into the area, and securing assigned entrances and exits at the end of the work day. Signs will be posted prior to asbestos removal as required in 29 CFR 1926.1101.

1.14 PROJECT MONITOR

A. The Owner has retained ATLAS, as their Consultant for technical advisement and project management during the Project. In addition, ATLAS will perform project monitoring services during abatement activities. The Asbestos Abatement Contractor shall regard ATLAS's direction, as authoritative and binding as provided herein, in matters outlined by this Section.

B. ATLAS's licensed Project Monitor, acting as the Owner's Representative, will perform monitoring of the Contractor's work practices and performance, inspection of the worksites, and air sampling and analysis for each phase of the asbestos removal project. Quality control and testing criteria have been established in these specifications, and will be strictly enforced. ATLAS's Project Monitor will review matters relating to safety, interpretation of the specifications, and scheduling of work, and will make decisions upon consultation with the Owner.

1.15 TEMPORARY FACILITIES

A. The Contractor shall coordinate the Owner as to the use of the existing power and water within the building.

B. All temporary hook-ups to the existing power and water within the building shall be the responsibility of the Contractor.

C. The Contractor shall also be responsible for providing all temporary toilets required for workers to use during the construction project.

PART 2 - PRODUCTS

2.1 MATERIALS

A. All materials and equipment proposed to be used on this project shall be subject to the acceptance of the Owner and Consultant. The Contractor shall comply with local, state and federal regulations pertaining to the selection and use of materials and equipment on this project. The Contractor shall provide a submittal on all materials and equipment to be used for review and approval by the Consultant prior to commencement of the work.

PART 3 - EXECUTION

3.1 WORK PROCEDURES

A. All asbestos abatement work shall take place in accordance with the provisions outlined herein as well as local, state and federal regulations. In particular, Massachusetts DLS and DEP regulations regarding asbestos removal and disposal shall be adhered to.

3.2 DISPOSAL

A. Packaging: Prior to post-abatement inspection, asbestos- containing waste shall be packaged in sealed double containers and removed from the work area to a specified transportation vehicle or a designated holding area approved by the Owner. At the end of each work day the Contractor shall remove the debris accumulated during that day's work activities using procedures outlined in the Specifications. The Contractor shall provide a daily tally of all bags removed.

B. Temporary Storage of Waste: An area for temporary storage of asbestos waste must be approved by the Owner. Asbestos waste may only be stored in an **enclosed container** which is posted and secured whenever not in use. Asbestos waste material shall be loaded into a waste transportation vehicle/dumpster and hauled away as soon as there is a sufficient quantity available for direct transportation to the approved disposal site.

C. OSHA/EPA labeling: Asbestos warning labels having permanent adhesive and waterproof print, or being permanently printed on the container, shall be affixed to the outside of all asbestos containers, and each inside bag, except that nonfriable asbestos-containing waste that has not been and does not have a high probability of becoming, crumbled, pulverized, or reduced to powder need not be labeled. Labels will be conspicuous and legible and shall contain the following warning:

DANGER
CONTAINS ASBESTOS FIBERS
MAY CAUSE CANCER
CAUSES DAMAGE TO LUNGS
DO NOT BREATHE DUST
AVOID CREATING DUST

The Contractor is directed to properly label each waste bag in accordance with the latest NESHAP standard, Section 61.150, with the following information:

SITE OWNER'S NAME SITE NAME

D. DOT labeling and marking: A DOT "class 9" shipping label and DOT mark shall be applied to or be printed on each packaging of asbestos-containing materials; except for nonfriable asbestos-containing materials that did not become crumbled, pulverized, or reduced to powder; or a limited quantity of asbestos-containing material which is not being transported by air.

E. EPA vehicle marking: Each vehicle transporting asbestos-containing waste shall be marked with asbestos danger signs during loading and unloading of the waste, in accordance with the NESHAP,40 CFR 61.150.

F. Asbestos waste shipment records: The Contractor shall prepare the waste shipment records. Completed waste shipment record(s) signed by the Contractor, all transporter(s), transferor(s), disposal and/or conversion facility(s), shall be provided to the Owner within 30 days of the time at which the asbestos-containing wastes are received at the disposal and/or conversion facility (ies), which shall be no longer than 40 days after the waste was accepted by the initial transporter. The Waste Shipment Record shall specify the designated number of bags or cubic yard(s) of asbestos waste.

G. Depositing: Asbestos waste shall be deposited as soon as practical at a regulated waste disposal site, except for EPA "Category I" nonfriable ACM that has not become friable, nor will be or has

been sanded, ground, cut, or abraded. Waste disposal sites for asbestos materials will be in accordance with 40 CFR 61.25, Waste Disposal Sites. The Contractor shall provide written evidence that the site is approved for asbestos disposal by the EPA, State and local regulatory agencies.

3.3 QUALITY CONTROL AND TESTING

A. The Contractor shall be responsible for achieving acceptable visual inspection for ALL abatement areas as follows:

1. The Work Area and perimeter shall be visually inspected by the Contractor's Site Supervisor and ATLAS's Project Monitor for dust, debris and other particulate residue. The Work Area and perimeter shall be repeatedly cleaned by the Contractor or other entity carrying out the work operation until the no Visible Debris criterion is achieved.
2. Visual Inspections: Work areas shall pass a visual inspection conducted by the Site Supervisor responsible for the project and the Owner's Project Monitor (i.e. Consultant). The criterion for this inspection will be the absence of visible debris in accordance with ASTM standard E1368-90. A certificate of visual inspection will be signed by the Project Monitor and the Site Supervisor after final inspection clearance. The Contractor will be responsible for the costs of visual inspection and testing required for any work which fails the visual inspection.

B. The Asbestos Abatement Contractor shall be responsible for achieving acceptable final air clearance testing for traditional abatement areas as follows:

1. Post-abatement Clearance Air Monitoring: For each abatement area, post abatement clearance air samples will be taken when a visual inspection by ATLAS's Project Monitor detects no visible debris, and surfaces are encapsulated and dry.
2. Phase Contrast Microscopy (PCM) clearance testing will be performed to confirm the completion of removal. All clearance testing shall be performed in accordance with state of Massachusetts Regulations. The work areas shall be considered complete if the following criteria is met:

    a. Containments cleared and samples analyzed by Phase Contrast Microscopy (PCM): Maximum airborne fiber concentration of <0.01 fibers per cubic centimeter.

ATTACHMENT A

TABLE 1.0

SUMMARY OF ACM TO BE ABATED

Table I CITY OF WORCESTER WORCESTER DPW FACILITY		
MATERIAL	**RESULTS**	**NOTES**
Brick Wall Expansion Caulk	4% Chrysotile	Refer to Architectural Drawings
Tar under White Flashing on Brick	2% Chrysotile	Refer to Architectural Drawings
Gray Sealant on Screw Caps	10% Chrysotile	Refer to Architectural Drawings
Gray Patch Material on exhaust Pipe/Roof	3% Chrysotile	Refer to Architectural Drawings
Gray Coating on 9-Light Window Frame	2% Chrysotile	Refer to Architectural Drawings
Glazing on 9-Light Window Frame	4% Chrysotile	Refer to Architectural Drawings

ATTACHMENT B

MASSDEP NON-TRADITIONAL WORK PLAN

73 William Franks Dr.
West Springfield, MA 01089
413.781.0070 | oneatlas.com

October 16, 2026

Ms. Christa Cronk
Asbestos Program Section Chief
Bureau of Air and Waste
MassDEP Central Region Office
8 New Bond Street
Worcester, MA 01606

RE: Non-Traditional Asbestos Abatement Work Plan
Worcester DPW, 76 East Worcester Street, Worcester, MA

Dear Ms. Cronk:

On behalf of the City of Worcester, ATLAS Technical Consultants LLC (ATLAS) is submitting for MassDEP's review, the following Non-Traditional Asbestos Abatement Work Plan ("NTWP") for removal and disposal of asbestos materials located on the roof of the Worcester DPW Facility. Identified asbestos-containing materials will be disturbed during the roof replacement project as follows:

Brick Wall Expansion Caulk	4% Chrysotile
Tar under White Flashing on Brick	2% Chrysotile
Gray Sealant on Screw Caps	10% Chrysotile
Gray Patch Material on exhaust Pipe/Roof	3% Chrysotile
Gray Coating on 9-Light Window Frame	2% Chrysotile
Glazing on 9-Light Window Frame	4% Chrysotile

The NTWP request is based on the safety issues regarding the construction and use of a traditional containment system on the roof. In addition constructing a completely sealed work area on a roof to accomplish removal of the asbestos sealants prevents worker from constructing a sufficiently strong static line for securing themselves to, without creating significant damage to the roof substructure.

The following proposed NTWP incorporates alternative work practices and engineering controls to be implemented during the work.

The NTWP will be applicable to the following regulations:

- 310 CMR 7.15(7)(c) - Work Area Preparations;
- 310 CMR 7.15(7)(e) - Requirements for Work Area Ventilation;
- 310 CMR 7.15(7)(f)1. - Wetting of asbestos prior to removal;

The following parties will be responsible for the work performed at the site.

Owner:	**Asbestos Consultant**:
City of Worcester Department of Public Works Sewer Operations Division 20 East Worcester Street Worcester, MA 01604 Attn: Dylan Ludy, E.I.T. (508) 929-1300	ATLAS Technical Consultants LLC 73 William Franks Drive West Springfield MA 01089 Attn: Edward Kolodziej (413) 426-6819
Architect	**Abatement Contractor**
Nault Architects, Inc. 71 Hope Avenue Worcester, MA 01603 Attn: Steve VanDyke (508)-755-6134	TBD

The following provisions shall be adhered to when performing the work under the NTWP:

1. Notifications

a. The Asbestos Contractor shall submit a completed Asbestos Notification Form (ANF-001) with the appropriate fee, if any, to MassDEP for the asbestos handling operation.
b. All asbestos notifications shall comply with all parts of MassDEP regulation 310 CMR 7.15 and a copy of the notification shall be kept at the Site by the Asbestos Contractor.

2. Training

a. Each and every contractor and sub-contractor working at the site shall be properly trained and have only properly trained personnel at the Site.
b. Each and every asbestos contractor and their workers associated with asbestos abatement activities shall hold current licenses or certifications as either; Asbestos Contractors, Asbestos Supervisors or Asbestos Workers, as appropriate.
c. All of the required licenses shall have been issued by the Commonwealth of Massachusetts' Division of Labor Standards, in accordance with 454 CMR 28.00.

3. Asbestos Project Monitor

a. An Asbestos Project Monitor (“APM”) who has been properly trained in accordance with 454 CMR 28.00 and who holds a current and valid license issued by the MADLS shall be on-site at all time during the asbestos roof removal work.
b. The Asbestos Project Monitor (“APM”) shall review each notification to verify that it is completed and contains all of the requisite information.
c. No work, pursuant to this NTWP, shall commence until this review has been performed and the results of said review recorded in the APM’s Site logbook.

4. Pre-Construction Meeting (NTWP)

a. The APM shall provide copies of the approved NTWP and all additional requirements set forth in any written approval issued by MassDEP, and shall review all aspects with the Owner, Architect, and Roofing Contractor prior to commencing any work pursuant to this NTWP.
b. A written record of each entity attending the review shall be kept by the APM and sent to MassDEP upon their request.
c. The property owner or their representative shall distribute copies of this NTWP to each entity involved with the project.
d. A copy of this NTWP shall be kept at the Site in a central location, for review by all local, state and federal agency personnel, for the duration of the project.

5. Work Procedures – Scope of Work

The following procedures shall be applicable for removal and disposal of the slate roof shingles where associated asbestos-containing materials are disturbed:

a. A Regulated Area shall be established consisting of asbestos barrier tape and asbestos warning signs. The Regulated Area shall be large enough to accommodate the work and keep non-authorized personnel out of the area.
b. A decontamination unit shall be established directly adjacent to the Regulated Area. The decontamination unit shall consist of a one chamber unit or polyethylene drop cloth on the floor or horizontal working surface. The polyethylene sheeting used for the decontamination unit or drop cloth shall at minimum 6-mil thickness. The decontamination unit must be large enough to accommodate cleaning of equipment and removing personal protective equipment (PPE) without spreading contamination beyond the area (determined by visible accumulations). Workers must exit the regulated area through the decontamination unit.
c. Workers must wear respiratory protection and disposable suits during removal unless a Negative Exposure Assessment has been performed. Workers shall wear disposable suits and exit through the decontamination unit, regardless if a Negative Exposure Assessment has been performed,. All equipment shall be cleaned within the decontamination unit. Water used to decontaminate equipment shall be used as an additional wetting agent for disposal of ACM.
d. Windows, doors or vents on the same side of the building where active work is taking place shall be closed.
e. Window, doors or vents within the Regulated Area shall also be sealed with 2 layers of six mil polyethylene sheeting at the exterior side.
f. A drop-cloth of polyethylene sheeting shall be placed under the removal area when removing expansion caulk on brick, gray sealant on screw caps and 9-Light windows with coating.
g. Windows shall be removed according to MassDEP Regulation 310 CMR 7.15 (11) which will include the glazing and gray coating on 9-light windows.
h. If lifts are to be used for the work, the basket area and/or platform on the lift shall also be demarcated with asbestos signs. The floor of the lift shall be covered with 6-mil polyethylene sheeting. The lift maybe utilized to lower packaged ACWM to the ground.
i. Removal of ACM adhered to a substrate from a lift shall require polyethylene sheeting sealed on the substrate under the removal area (asbestos waste bag maybe utilized). The contractor shall construct a catch basin underneath the removal area so loose debris and excess amended water shall be contained for proper disposal as ACWM.
j. All workers shall be properly tied-off to the roof as required by OSHA regulations.

k. All workers performing the work will utilize disposable clothing and Personal Protective Equipment (PPE) as required to the work task including respiratory protection as required by selection chart established in OSHA regulation 29 CFR 1926.1101.
l. All work shall be performed in a slow methodical manner to ensure that no emissions are generated or released. The removal of the asbestos materials shall be removed with standard hand tools and carefully misting the material with amended water so as not to cause a slip hazard on the roof. If visible emissions are observed work shall stop and MassDEP notified immediately. Asbestos material shall be placed into two 6-mil asbestos bags and labelled with asbestos warning and generator information as described in 310 CMR 7.15(15) once removed. All waste shall be lowered carefully to the ground. ACWM including properly packaged ACWM shall not be dropped or thrown to the ground or into an open top container.
m. All asbestos-containing waste material ("ACWM") including polyethylene sheeting and PPE shall be sealed into leak tight containers for disposal as ACWM.
n. Waste container shall be lined with a layer of 6-mil polyethylene sheeting, locked and demarcated and transported to the landfill when full or at project completion.
o. Following the completion of the work, a visual inspection shall be performed jointly by the Asbestos Abatement Contractor's Site Supervisor and the APM, to ensure that no remnant asbestos debris remains on the roof or within the Regulated Area. Any visible debris observed by the APM or Abatement Contractor shall be cleaned by the Abatement Contractor until no visible debris is observed in accordance with 310 CMR 7.15(8).
p. APM and Asbestos Abatement Contractor's Supervisor shall sign a "Certificate of Visual Inspection" specifying the work area(s) have met acceptable inspection criteria and reveal no visible or suspect asbestos or other remnant debris and wastes generated during the asbestos removal operation. A record of these visual inspections shall be maintained in the individual's site log books.

6. Equipment Decontamination

a. All equipment and personnel associated with the asbestos abatement operation shall be fully decontaminated using HEPA vacuums and wet methods prior to removal from the Regulated Area and being released to other service.

7. Perimeter Air Monitoring – Asbestos Project Monitor

a. The APM shall perform perimeter air monitoring of the ambient air adjacent to the work area.
b. This area air monitoring shall be performed on a continuous basis during the asbestos abatement operations.
c. Attention shall be paid to the downwind sector to ensure that monitoring points coincide with sensitive receptors.
d. The APM shall have a minimum of four (4) air monitoring stations, however more stations may be required to accomplish adequate monitoring between the Site and sensitive receptors.
e. The flow rate of the air monitoring stations shall range between 10-16 liters per minute (lpm) with a minimum volume of 1,080 liters. Air samples for all four (4) stations shall be collected twice per shift (morning & afternoon).
f. Analyses of the air samples shall be performed on-site immediately after collection and results reported to the APM, Abatement Contractor's Site Supervisor and general contractor's site supervisor forthwith, so that corrections in the work practices can be made immediately.
g. A copy of the results for all perimeter air samples collected each day shall be kept on-site and emailed to the MADEP the same day the samples are collected and analyzed.
h. If the air monitoring results meet or exceed one-one hundredth fiber per cubic centimeter (0.010 f/cc) of air, then all work shall stop. The work methods shall be evaluated by the

APM, the Abatement Contractor's Site Supervisor prior to continuing any further work. MassDEP shall be notified immediately on that same day of the air monitoring exceedance and the updated emission control procedures.

8. Air Sample Collection and Analysis Procedures (Employee and Perimeter Monitoring)

a. The device used to measure the flow rates for the perimeter and employee air monitoring samples shall have been calibrated by a primary calibration device within six (6) months of utilization at the Site.
b. A record of the calibration record for the measurement device used at the Site shall be kept at the Site for the duration of the project and a copy of each calibration record shall be submitted to MassDEP prior to commencing any work pursuant to this NTWP.
c. Analyses of the employee and perimeter air samples shall be performed by consultants who are properly trained, are successful participants in the American Industrial Hygiene Association's Asbestos Analytical Registry (AIHA's AAR), are considered proficient with the most recent "PAT" rounds, or alternatively, who are employees of a laboratory, which is licensed by the Commonwealth to perform such analysis and which is accredited with either the AIHA or National Voluntary Laboratory Accreditation Program (NVLAP), as appropriate.

9. General Conditions of Agreement

a. No work pursuant to this NTWP shall commence unless the APM is at the Site and all air monitoring stations, both perimeter and employee monitoring, are in full operation.
b. This NTWP applies specifically to the removal of the asbestos materials located on the roof at the Worcester DPW Facility, 76 East Worcester Street, Worcester, MA.
c. This NTWP does not apply to any past or future asbestos handling at the site.
d. All other MassDEP regulations are in force for the balance of this asbestos abatement operation.
e. This work plan does not negate the responsibility of the property owner, the contractor, subcontractors and consultants from complying with all other applicable federal, state and local regulations.

10. Timeframe of Approval

a. This Work Plan is valid as stipulated by the MassDEP.
b. If activities are to continue past the expiration date after this Plan is approved by MassDEP; the MassDEP shall be contacted to determine if a request for an extension shall be submitted or resubmittal of the NT Permit and Work Plan, with applicable fees, for their approval/renewal.

11. Changes in Conditions

a. Any variance from the proposed conditions listed above shall be evaluated by MassDEP prior to commencement of any such activities.
b. All requests for changes to or amendments of this NTWP shall be made to the MassDEP in writing.

12. Recording Keeping

a. All documentation regarding air monitoring collection procedures and analysis results, visual inspections and waste disposal shall be kept on site for inspection by MassDEP personnel for the duration of the removal operation.
b. Copies of the documentation are to be supplied to MassDEP within thirty (30) days of completion of the work.

I appreciate your attention regarding this matter and look forward to hearing your response. If you have any questions, please do not hesitate to contact me at (413) 781-0070.

Sincerely,
ATLAS Technical Consultants LLC

Edward Kolodziej
Senior Project Manager (AD074321)

Brian Williams
Area Manager

73 William Franks Dr.
West Springfield, MA 01089
413.781.0070 | oneatlas.com



Figure 1- Brick Wall Expansion Caulk



Figure 2 - Tar under White Flashing on Brick



Figure 3 - Gray Sealant on Screw Caps (Parapet Wall)



Figure 4 - Gray Patch Material on Exhaust Pipe



Figure 5 - Gray Coat on 9-Light Window

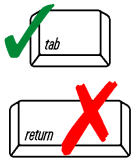


Figure 6 - Glazing on 9-Light Windows

Massachusetts Department of Environmental Protection
Bureau of Air & Waste
AQ 36 Application for Non-Traditional Asbestos Abatement Work Practice Approval

A. Work Site Information

Important: When completing forms on a computer, use only the tab key to move your cursor - do not use the return key.



Facility

Worcester DPW Facility
Facility Name or Site Description

76 East Worcester Street
Facility Address

Worcester | MA | 01604
City/Town | State | ZIP Code

Owner

City of Worcester
Owner Name

20 East Worcester Street
Owner Address

Worcester | MA | 01604
City/Town | State | ZIP Code

508-929-1300 | LudyD@worcesterma.gov
Telephone Number | Email Address

Applicant - ☐ Check here if same as Owner and skip to next section. Otherwise, complete fields below.

Edward Kolodziej
Applicant Name

73 William Franks Drive
Applicant Address

West Springfield | MA | 01089
City/Town | State | ZIP Code

413-781-0070 | edward.kolodziej@oneatlas.com
Telephone Number | Email Address

B. Project Information

Asbestos Project Designer & Consulting Service Provider

Edward Kolodziej
Asbestos Project Designer Name

AD074321 | 08/28/2026
DLS Project Designer License Number | Expiration Date (MM/DD/YYYY)

ATLAS Technical Consultants LLC
Consulting Service Provider Name

AF22 | 04/14/2027
DLS Consulting Service Certification Number | Expiration Date (MM/DD/YYYY)

73 William Franks Drive
Address

West Springfield | MA | 01089
City/Town | State | ZIP Code

413-781-0070 | edward.kolodziej@oneatlas.com
Telephone Number | Email Address

Continue to the Next Page ➔

Massachusetts Department of Environmental Protection
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B. Project Information (continued)

Asbestos Project Monitor & Consulting Service Provider

Edward Kolodziej
Asbestos Project Monitor Name

AM001903 | 8/28/2026
DLS Asbestos Project Monitor Certification Number | Expiration Date (MM/DD/YYYY)

ATLAS Technical Consultants, LLC
Consulting Service Provider Name

AF22 | 04/14/2027
DLS Consulting Service Certification Number | Expiration Date (MM/DD/YYYY)

73 William Franks Drive
Address

West Springfield | MA | 01089
City/Town | State | ZIP Code

413-781-0070 | edward.kolodziej@oneatlas.com
Telephone Number | Email Address

Asbestos Abatement Contractor

Contractor Name

DLS Contractor Certification Number | Expiration Date (MM/DD/YYYY)

Address

City/Town | State | ZIP Code

Telephone Number | Email Address

Demolition Contractor (If Applicable)

N/A
Contractor Name

Address

City/Town | State | ZIP Code

Telephone Number | Email Address

Circumstances – Explain why a Non-Traditional Asbestos Abatement Work Practice Approval is needed.

Note: Check all applicable boxes.

- ☐ Facility is being demolished under a state or local government order because it is structurally unsound and in danger of imminent collapse. (Please attach a copy of the order to your work plan proposal.)
- ☐ Asbestos Containing Material (ACM) or Asbestos Containing Waste Material (ACWM) was not accessible for testing, thus not discovered until after demolition began and, as a result, cannot be safely removed.
- ☐ Abatement activity is being conducted as part of an emergency renovation operation.
- ☐ Asbestos abatement activity is being conducted to clean up and decontaminate all or part of a facility where:
  - ☐ Previous asbestos abatement activities were not conducted in compliance with 310 CMR 7.15, or
  - ☒ ACM deterioration, if not immediately attended to, would present a safety or public health hazard.
- ☐ Wetting during a facility renovation would unavoidably damage equipment or present a safety hazard.
- ☐ The project requires bulk loading of ACM and/or ACWM.

Massachusetts Department of Environmental Protection
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AQ 36 Application for Non-Traditional Asbestos Abatement Work Practice Approval

B. Project Information (continued)

List the requirements of 310 CMR 7.15 that you are unable to comply with and explain why:

7.15 (7)(c); 7.15 (7)(e); 7.15 (7)(f)(1)

Other Project Details

Project Start Date: TBD (MM/DD/YYYY)

Project End Date: TBD (MM/DD/YYYY)

Types & Amounts of ACM and/or ACWM Requiring Non-Traditional Asbestos Abatement Work Practice(s):

☐ Friable _____ Quantity in Cubic Meters (Cubic Yards)

☒ Non-Friable 40 Quantity in Cubic Meters (Cubic Yards)

Location(s) of ACM in the Facility:

Exterior , Roof

C. Certification

"I certify that I have personally examined the foregoing and am familiar with the information contained in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including possible fines and imprisonment. I am aware that this permit application or notification shall not be deemed valid unless payment of the applicable fee is made."

Signature

Edward Kolodziej
Printed Name

Senior Project Manager
Title

08/07/2026
Date (MM/DD/YYYY)

Continue to the Next Page ➔

Massachusetts Department of Environmental Protection
Bureau of Air & Waste
AQ 36 Application for Non-Traditional Asbestos Abatement Work Practice Approval

D. Submission of Application

Note: MassDEP review will begin only after your submissions have been received at both locations.

STEP 1: Submit Application

Send the following materials to the appropriate MassDEP Regional Office*, Attention: Asbestos Section:

☒ This original completed and signed form.

☒ A copy of the check or money order referenced in Step 2.

☒ Your proposed work plan, describing work practices, duration, and schedule. The proposal must:

- Include signature of the Asbestos Project Designer who prepared it.
- Demonstrate that the deviations from 310 CMR 7.15 and alternatives proposed will not cause any visible emissions to the outside air or pose significant risk to public health, safety or the environment.

☒ All supporting documentation.

*Find the MassDEP Regional Office for the community where this work will be done: https://www.mass.gov/service-details/massdep-regional-offices-by-community

STEP 2: Submit Fee Payment

Send the materials below to this address:

MassDEP
P.O. Box 4062
Boston, MA 02211

☒ A copy of this completed and signed form.

☐ Fee payment of $600* (check or money order payable to “Commonwealth of Massachusetts”).

*The following entities are exempt from this fee:

- Cities, towns, counties or districts of the Commonwealth
- Federally recognized Indian tribe housing authorities
- Municipal housing authorities
- The Massachusetts Bay Transportation Authority (MBTA)

Is this a fee-exempt project? ☒ Yes ☐ No

NOTE: Entities that are exempt from the fee must still submit a copy of this completed and signed form, without payment, to the P.O. box above.



LIMITED ASBESTOS INSPECTION REPORT

WORCESTER DPW ROOF
76 EAST WORCESTER STREET
Worcester, MA

PREPARED FOR:

Mr. Steve VanDyke
Nault Architects
71 Hope Avenue
100 Grove Street, Suite 303
Worcester, MA 01603

PREPARED BY:

Atlas Technical Consultants LLC
73 William Franks Drive
West Springfield, MA 01089

October 9, 2025

73 William Franks Drive
West Springfield, MA 01089
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October 9, 2025

Atlas No. 183BW25194

Mr. Steve VanDyke
NAULT ARCHITECTS
71 Hope Avenue
Worcester, MA. 010603

Subject: Limited Asbestos Inspection Report
Worcester DPW Roof
76 East Worcester Street
Worcester, MA

Dear Mr. VanDyke:

The enclosed Asbestos Inspection Report was performed and prepared by Atlas Technical Consultants LLC (ATLAS). The survey included a limited inspection of 76 East Worcester Street in Worcester, MA. Atlas's inspection was limited to proposed roof replacement. The scope of the renovations was determined by Nault Architects. Atlas' visual observations and laboratory reports forms the basis for the conclusions contained in this report.

The following licensed and accredited inspector performed the inspection on September 22, 2025. If you have any questions, please contact the undersigned.

Respectfully submitted,

James Lowell
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LIST OF ACRONYMS AND ABBREVIATIONS

ACBM	Asbestos-Containing Building Material
ACM	Asbestos-Containing Material
AHERA	Asbestos-Hazard Emergency Response Act
CFR	Code of Federal Regulations
DPH	Department of Public Health
EPA	Environmental Protection Agency
NESHAP	National Emission Standards for Hazardous Air Pollutants
NOB	Non-Friable Organically Bound
OSHA	Occupational Safety and Health Administration
PACM	Presumed Asbestos-Containing Material
PLM	Polarized Light Microscopy
RACM	Regulated Asbestos-Containing Building Material
TEM	Transmission Electron Microscopy

1. SITE DESCRIPTION

This report addresses sampling at the 76 Worcester Street roof only. The building's construction date was unknown at the time of the survey.

1.1 SURVEY LIMITATIONS

The interior of the building was occupied at the time of the survey. Limited destructive investigation techniques were used in this survey. Suspect lead, PCB, asbestos, mercury or other hazardous materials may exist at inaccessible areas of the building or grounds that could not be evaluated during this study. These areas include but are not limited to.

- Interior of floors, walls and ceiling cavities
- Foundation waterproofing systems
- Underground pipe tunnels and chases
- Gaskets on equipment, tanks, pipe, etc.
- Building plumbing systems
- Electrical wiring
- Pipe and duct wall penetrations

A number of regulated materials may also be present in the facility that were not evaluated as part of this study including but not limited to containerized wastes, hydraulic equipment, extinguishing systems, life safety equipment, etc.

2. ASBESTOS INSPECTION

Atlas's Scope of Work included a limited Asbestos Inspection of the above referenced building. Outlined below is a description of Atlas's testing methodology.

2.1 ASBESTOS PROTOCOL

Atlas preformed a limited pre-renovation/demolition survey to identify suspect asbestos-containing materials in the above referenced roof. The Asbestos Inspection included a visual assessment of accessible suspect asbestos-containing materials and subsequent bulk sampling and analysis.

EPA and OSHA define ACBM as any material containing greater than one percent (>1%) asbestos. The ACBM inspection and bulk sampling was performed in accordance with the methods outlined in the U.S. EPA guidance document titled, Guidance for Controlling Asbestos-Containing Materials in Buildings (Document No. 560/5-85/024). In addition, bulk sampling of asbestos was performed in general accordance with 40 CFR Part 763 Asbestos Hazard Emergency Response Act (AHERA) requirements for number of samples and types of ACBM to be sampled. According to these requirements, materials are classified as either surfacing (e.g., ceiling plaster, wall plaster, spray-applied fireproofing), thermal system insulation (e.g., pipe

insulation, pipe fitting insulation, boiler insulation), or miscellaneous materials (e.g., floor tile, ceiling tile, wallboard). The number of samples collected from each material varies based on the classification of the material and increases as the potential for a non-uniform mixture of asbestos in the material increases.

Samples collected for asbestos analysis were obtained by qualified and certified (Certified State of Massachusetts Site Inspector) personnel utilizing proper safety measures such as wetting the material prior to sampling, cleaning up the area by wet wiping any resulting residual debris, and wearing proper protective equipment, as needed. In order to be certain of sampling the entire thickness of a material, coring tools and knives were utilized to penetrate all layers of a material. All collected samples were then placed in appropriately labeled airtight containers for shipment to the laboratory for analysis.

2.2 ASBESTOS ANALYSIS

All samples collected were transported under chain-of-custody protocol to EMSL lab in New York, NY. Bulk samples were analyzed for asbestos content using Polarized Light Microscopy (PLM) with Dispersion Staining (EPA Method 600/R-93/116 and/or EPA Method 600/M4-82-020: Interim Method for the Determination of Asbestos in Bulk Building Materials). One sample from each group was analyzed by TEM via EPA/600/R-93/116 Section 2.5.5.1. To qualify as asbestos-containing, the material must be determined to contain greater than or equal to one percent (≥1%) from a homogeneous material area set of samples.

Consequently, according to the EPA/AHERA and State of Massachusetts Department of Environmental Protection criteria, all bulk samples from a homogeneous area must be found to contain less than one percent (<1%) asbestos in order to be classified as non-asbestos-containing. MassDEP also requires materials that contain any asbestos (<1%) be handled and disposed of as asbestos containing material.

3. FINDINGS

Refer to the following Attachments for a summary of each tested material, location, analytical and results and abatement cost estimates:

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II LIST OF ASBESTOS-CONTAINING MATERIALS
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VI DRAWING

4. CONCLUSIONS

Asbestos containing materials were identified in roofing materials in areas of the roof inspected by Atlas. The following response actions are required to be implemented to properly manage hazardous materials at the site:

A. In accordance with EPA's National Emission Standards for Hazardous Air Pollutants (NESHAP) regulations, all materials found to be asbestos-containing in the building will be required to be abated prior to renovation/demolition activities. In addition, all asbestos abatement work is required to be performed by a Massachusetts state licensed Asbestos Abatement Contractor in accordance with local, state and federal regulations.

B. Any suspect asbestos-containing material discovered during the course of renovation/demolition which is not included in this report shall be assumed to be asbestos-containing until further bulk sampling and analysis is performed.

C. The Massachusetts Department of Environmental Protection (DEP), as well as the U.S. Environmental Protection Agency (EPA) currently recognize Polarized Light Microscopy (PLM) analysis as an acceptable analytical method for determining the Asbestos content in non-friable, organically bound (NOB) materials.

However, comparative studies between PLM analysis and Transmission Electron Microscopy (TEM) analysis have shown that PLM analysis may yield false negative analytical results for NOB's such as floor tiles.

Atlas recommends that, prior to Renovation/Demolition activities, one sample from each homogeneous area of floor tiles and other non-friable organically bound (NOB) materials that originally tested negative by PLM undergo confirmatory analysis by TEM, utilizing ELAP-198.4 TEM Method for Identifying and Quantifying Asbestos in NOB bulk samples. One sample from each group was analyzed by TEM via EPA/600/R-93/116 Section 2.5.5.1.

D. For materials which contain less than 1 percent asbestos several OSHA requirements still apply if the asbestos permissible exposure limit (PEL) is exceeded or might be exceeded. These include requirements regarding:

- the use of wet methods
- prompt clean-up and disposal of waste and debris contaminated with asbestos in leak tight containers
- and record keeping requirements associated with negative exposure assessment

MassDEP also requires materials that contain any asbestos (<1%) be handled and disposed of as asbestos containing material.

E. All demolition work, which disturbs lead-containing materials, will be subject to OSHA 29 CFR 1926.62 "Lead in Construction Regulations". Under OSHA, the employer is responsible for protection of their employees when performing renovation and/or demolition work which disturbs lead materials. Compliance shall include written programs, medical monitoring, exposure assessment testing and engineering controls.

NOTE: Any lead waste streams generated during demolition must have a leachate characterization (TCLP) performed prior to disposal. Other regulated metals (e.g. chromium, cadmium, etc.) may be present in paint that were not evaluated as part of this limited survey.

F. To comply with OSHA's Hazard Communication Standard, (29 CFR 1910.1200) workers shall be notified of the presence of lead, asbestos, mercury or PCB in building materials and trained on proper handling methods. This shall include, but not be limited to:

- wearing work clothes and gloves
- washing hands prior to eating
- not smoking or eating within the work area
- employing methods that minimize the generation of dust when disturbing materials to the extent practicable.

G. Prior to the start of the work, hazardous material abatement specifications shall be developed to outline project requirements. Air monitoring shall be performed to determine the effectiveness of abatement. The Contractor shall be required to provide a written description detailing the means and methods to achieve compliance with the provisions outlined herein.

H. For hazardous materials left in place, establish an operation and maintenance program to ensure that workers:

- Are made aware of hazardous materials locations through training or hazard labeling
- Regularly inspect hazardous materials and maintain in good condition
- Utilize personal protective equipment if exposed to hazard materials

APPENDIX I
SUMMARY OF ASBESTOS-CONTAINING MATERIALS

Summary of Asbestos-Containing Materials 76 Worcester Street Worcester MA
Brick Wall Expansion Caulk Tar Under White Flashing on Brick Gray Sealant on Screw Caps Gray Patch Material on Exhaust Pipe/Roof Glazing on 9-Light Metal Window Gray Coating on 9-Light Window Frame

APPENDIX II
LIST OF ASBESTOS-CONTAINING MATERIALS

Asbestos-Containing Materials Table 76 Worcester Street Worcester MA			
Material Description	**Location**	**Estimated Quantity**	**Notes Number-76W-**
Brick Wall Expansion Caulk	**Building Perimeter**	**220 LF**	**01A&B 4% Chrysotile**
Tar Under White Flashing on Brick	**Parapet Wall**	**300 LF**	**06A&B 2% Chrysotile**
Gray Sealant on Screw Caps	**Parapet Wall**	**300 LF**	**07A&B 10% Chrysotile**
Gray Patch Material on Exhaust Pipe/Roof	**Roof A**	**(3) 2' x 2' Patches**	**10A&B 3% Chrysotile**
Glazing on 9-Light Metal Window	**Roof B**	**(24) Windows**	**11A&B 4% Chrysotile**
Gray Coating on 9-Light Window Frame	**Roof B**	**(24) Windows**	**13A-C 2%Chrysotile**
		Contractor to verify all quantities in field	

1 Addendum 1
Nault Architects
10/8/2026

APPENDIX III
LIST OF NON-ASBESTOS MATERIALS

Non-Asbestos Materials Table 76 Worcester Street Worcester MA		
Material Description	**Location**	**Bulk Sample Reference # Number-76W-**
Brick Wall Mortar	Exterior	02A&B
Brick Wall	Exterior	03A&B
Roof Composite #1	A-Roof North	04A
White Flashing on Brick	Roof A Parapet Wall	05A&B
Roof Composite #2	A-Roof East	08A
Rubber Patch on Metal Parapet Wall Seam Cap	Roof A Parapet Wall	09A&B
Roof Composite #3	Roof B	12A
Gray Air Vent Frame Caulk	Roof B	14A&B
Roof Composite #4	Roof A West	15A

APPENDIX IV
LABORATORY REPORTS AND CHAIN OF CUSTODY

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EMSL Order: 032513165
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Customer PO: 11-81-0030
Project ID:

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Analysis Date: 09/27/2025 - 09/29/2025
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Project: 183BW25194/ Worcester DPW/ 76 East Worcester St., Worcester, MA

Test Report: Asbestos Analysis of Bulk Materials via AHERA Method 40CFR 763 Subpart E Appendix E supplemented with EPA 600/R-93/116 using Polarized Light Microscopy

			Non-Asbestos		Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
76W-01a *032513165-0001*	North Side - Brick Wall Expansion Caulk	Gray/White Non-Fibrous Homogeneous		33% Ca Carbonate 67.0% Non-fibrous (Other)	**None Detected**
76W-01b *032513165-0002*	North Side - Brick Wall Expansion Caulk	Brown/Gray Non-Fibrous Homogeneous	30% Cellulose	30% Ca Carbonate 36.0% Non-fibrous (Other)	**4% Chrysotile**
		The sample group is not homogeneous			
76W-02a *032513165-0003*	North Side - Brick Wall Mortar	Gray Non-Fibrous Homogeneous		50% Quartz 15% Ca Carbonate 35.0% Non-fibrous (Other)	**None Detected**
76W-02b *032513165-0004*	North Side - Brick Wall Mortar	White Non-Fibrous Homogeneous		50% Quartz 10% Ca Carbonate 40.0% Non-fibrous (Other)	**None Detected**
76W-03a *032513165-0005*	North Side - Brick Wall	Red Non-Fibrous Homogeneous		3% Quartz 10% Ca Carbonate 87.0% Non-fibrous (Other)	**None Detected**
76W-03b *032513165-0006*	North Side - Brick Wall	Red Non-Fibrous Homogeneous		5% Quartz 30% Ca Carbonate 65.0% Non-fibrous (Other)	**None Detected**
76W-04a *032513165-0007*	North A Side Roof - Roof Composite #1	Brown/Black Non-Fibrous Homogeneous	50% Cellulose	50.0% Non-fibrous (Other)	**None Detected**
76W-05a *032513165-0008*	Parapet Wall North - White Flashingon Brick Parapet Wall				**Not Analyzed**
		Sample material is metal, not analyzable by PLM			
76W-05b *032513165-0009*	Parapet Wall East - White Flashingon Brick Parapet Wall				**Not Analyzed**
		Sample material is metal, not analyzable by PLM			

EMSL maintains liability limited to cost of analysis. Interpretation and use of test results are the responsibility of the client. This report relates only to the samples reported above, and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. The report reflects the samples as received. Results are generated from the field sampling data (sampling volumes and areas, locations, etc.) provided by the client on the Chain of Custody. Samples are within quality control criteria and met method specifications unless otherwise noted. The above analyses were performed in general compliance with Appendix E to Subpart E of 40 CFR (previously EPA 600/M4-82-020 “Interim Method”) but augmented with procedures outlined in the 1993 (”final”) version of the method. This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST or any agency of the federal government. Non-friable organically bound materials present a problem matrix and therefore EMSL recommends gravimetric reduction prior to analysis. Unless requested by the client, building materials manufactured with multiple layers (i.e. linoleum, wallboard, etc.) are reported as a single sample. Estimation of uncertainty is available on request.

Samples analyzed by EMSL Analytical, Inc. Long Island City, NY AIHA LAP, LLC-IHLAP Accredited #102581, NVLAP Lab Code 101048-9, CT PH-0170, MA AA000170

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			Non-Asbestos		Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
76W-06a *032513165-0010*	Parapet Wall North - Tar Under White Flashingon Brick Parapet Wall	Black Non-Fibrous Homogeneous		98.0% Non-fibrous (Other)	**2% Chrysotile**
76W-06b *032513165-0011*	Parapet Wall East - Tar Under White Flashingon Brick Parapet Wall				**Positive Stop (Not Analyzed)**
76W-07a *032513165-0012*	Parapet Wall North - Gray Sealant on Screw Caps	Black Non-Fibrous Homogeneous		90.0% Non-fibrous (Other)	**10% Chrysotile**
76W-07b *032513165-0013*	Parapet Wall East - Gray Sealant on Screw Caps				**Positive Stop (Not Analyzed)**
76W-08a *032513165-0014*	Roof A East Side - Roof Composite #2	Black Non-Fibrous Homogeneous		100.0% Non-fibrous (Other)	**None Detected**
76W-09a *032513165-0015*	Parapet Wall North - Rubber Patch on Metal Parapet Wall Seam	Black Non-Fibrous Homogeneous		100.0% Non-fibrous (Other)	**None Detected**
76W-09b *032513165-0016*	Parapet Wall East - Rubber Patch on Metal Parapet Wall Seam	Black Non-Fibrous Homogeneous		100.0% Non-fibrous (Other)	**None Detected**
76W-10a *032513165-0017*	Roof A - Gray Patch Material on Exhaust/ Roof	Black Non-Fibrous Homogeneous		97.0% Non-fibrous (Other)	**3% Chrysotile**
76W-10b *032513165-0018*	Roof A - Gray Patch Material on Exhaust/ Roof				**Positive Stop (Not Analyzed)**

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			Non-Asbestos		Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
76W-11a *032513165-0019*	B - Roof (Metal Windows) - Glazing on 9-Light Metal Windows	Gray Non-Fibrous Homogeneous		50% Ca Carbonate 46.0% Non-fibrous (Other)	**4% Chrysotile**
76W-11b *032513165-0020*	B - Roof (Metal Windows) - Glazing on 9-Light Metal Windows				**Positive Stop (Not Analyzed)**
76W-12a-Cove Base *032513165-0021*	B - Roof - Roof Composite #3	Black Non-Fibrous Homogeneous		100.0% Non-fibrous (Other)	**None Detected**
76W-12a-Roofing *032513165-0021A*	B - Roof - Roof Composite #3	Brown Non-Fibrous Homogeneous	95% Cellulose	5.0% Non-fibrous (Other)	**None Detected**
76W-13a *032513165-0022*	B - Roof East Side - Gray Coat on 9-Light Window Frame	Black Non-Fibrous Homogeneous		4% Quartz 50% Ca Carbonate 44.0% Non-fibrous (Other)	**2% Chrysotile**
76W-13b *032513165-0023*	B - Roof North Side - Gray Coat on 9-Light Window Frame				**Positive Stop (Not Analyzed)**
76W-13c *032513165-0024*	B - Roof West Side - Gray Coat on 9-Light Window Frame				**Positive Stop (Not Analyzed)**
76W-14a *032513165-0025*	B - Roof East Side - Gray Air Vent Frame Caulk	Gray Non-Fibrous Homogeneous		10% Ca Carbonate 90.0% Non-fibrous (Other)	**None Detected**
76W-14b *032513165-0026*	B - Roof East Side - Gray Air Vent Frame Caulk	Gray Non-Fibrous Homogeneous		10% Ca Carbonate 90.0% Non-fibrous (Other)	**None Detected**

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			Non-Asbestos		Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
76W-15a-Tar *032513165-0027*	Roof A West Side - Roof Composite #3	Brown Non-Fibrous Homogeneous	10% Cellulose	5% Ca Carbonate 85.0% Non-fibrous (Other)	**None Detected**
76W-15a-Roofing *032513165-0027A*	Roof A West Side - Roof Composite #3	Brown Fibrous Homogeneous	35% Cellulose	65.0% Non-fibrous (Other)	**None Detected**

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The samples in this report were submitted to EMSL for analysis by Asbestos Analysis of Bulk materials via EPA/600 (0513) Method using Polarized Light Microscopy. The reference number for these samples is the EMSL Order ID above. Please use this reference number when calling about these samples.

Report Comments:

Sample Receipt Date:	09/23/2025	Sample Receipt Time:	9:41 AM
Analysis Completed Date:	09/29/2025	Analysis Completed Time:	10:09 AM

Analyst(s):

Aldo Atemis PLM (14)

Madison Fragoso PLM (7)

Samples Reviewed and approved by:

Charles Johnson, Laboratory Manager
or other approved signatory

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Samples analyzed by EMSL Analytical, Inc. Long Island City, NY AIHA LAP, LLC-IHLAP Accredited #102581, NVLAP Lab Code 101048-9, CT PH-0170, MA AA000170

Initial report from: 09/29/2025 11:06:07

Relinquished by:		Date/Time:	09-22-2025
Received by:		Date/Time:	9/23/25 9:41 am
Relinquished by:		Date/Time:	
Received by:		Date/Time:	
Relinquished by:		Date/Time:	
Received by:		Date/Time:	

032513165

EMSL--New York
RECEIVED
2025 SEP 23 A 9:41

EMSL--New York
10-39 45th Road
Long Island City, NY 11101
(212) 290-0051

Company Name: Atlas Technical		
Company Address: 73 William Franks Rd		
City: West Springfield State: MA Zip: 01089		
Phone: (413) 781-0070	Project Name: Worcerter DPW	Analysis Type: PLM CS
Brian.williams@oneatlas.com	Project Address: 76 East Worceter st. Worcester. Ma	Positive Stop: Yes
Results to:	Project Manager: Brian Williams	Turnaround Time 5 Days
Verbal Results: Yes No	Project Number: 183BW25194	Fax Copy by:
Cell or Pager 413-348-4479	Sampled by: Jim Lowell Date: 09-22-2025	Return Samples: Yes No
Site Fax:	Special Instructions Analysis All Composite Roof Sample Layers	
Additional Fax:		

Lab ID	Field ID	Location	Sample Description	Homogenous Area #
	76W-01a	North Side	Brick Wall Expansion Caulk	1
	76W-01b	North Side	Brick Wall Expansion Caulk	1
	76W-02a	North Side	Brick Wall Mortar	2
	76W-02b	North Side	Brick Wall Mortar	2
	76W-03a	North Side	Brick Wall	3
	76W-03b	North Side	Brick Wall	3
	76W-04a	North A Side Roof	Roof Composite #1	4
	76W-05a	Parapet Wall North	White Flashingon Brick Parapet Wall	5
	76W-05b	Parapet Wall East	White Flashingon Brick Parapet Wall	5
	76W-06a	Parapet Wall North	Tar Under White Flashingon Brick Parapet Wall	6
	76W-06b	Parapet Wall East	Tar Under White Flashingon Brick Parapet Wall	6
	76W-07a	Parapet Wall North	Gray Seaalant on Screw Caps	7
	76W-07b	Parapet Wall East	Gray Seaalant on Screw Caps	7
	76W-08a	Roof A East Side	Roof Composite #2	8

OrderID: 032513165

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Site Fax:	Special Instructions Analysis All Composite Roof Sample Layers	
Additional Fax:		

Lab ID	Field ID	Location	Sample Description	Homogenous Area #
	76W-09a	Parapet Wall North	Rubber Patch On Metal Parapet Wall Seam	9
	76W-09b	Parapet Wall East	Rubber Patch On Metal Parapet Wall Seam	9
	76W-10a	Roof A	Gray Patch Material on Exhaust/Roof	10
	76W-10b	Roof A	Gray Patch Material on Exhaust/Roof	10
	76W-11a	B-Roof (Metal Windows)	Glazing on 9-Light Metal Windows	11
	76W-11b	B-Roof (Metal Windows)	Glazing on 9-Light Metal Windows	11
	76W-12a	B-Roof	Roof Composite #3	12
	76W-13a	B-Roof East Side	Gray Coat On 9-Light Windoe Frame	13
	76W-13b	B-Roof North Side	Gray Coat On 9-Light Windoe Frame	13
	76W-13c	B-Roof West Side	Gray Coat On 9-Light Windoe Frame	13
	76W-14a	B-Roof East Side	Gray Air Vent Frame Caulk	14
	76W-14b	B-Roof East Side	Gray Air Vent Frame Caulk	14
	76W-15a	Roof A West Side	Roof Composite #3	15

OrderID: 032513165

APPENDIX V
PHOTO LOG

Worcester DPW
76 East Worcester Street
Worcester, Ma



Photo #1: Worcester DPW



Photo #2: Worcester DPW

Worcester DPW
76 East Worcester Street
Worcester, Ma



Photo #3 Sample #01A&B Brick Wall Expansion Caulk (Positive)

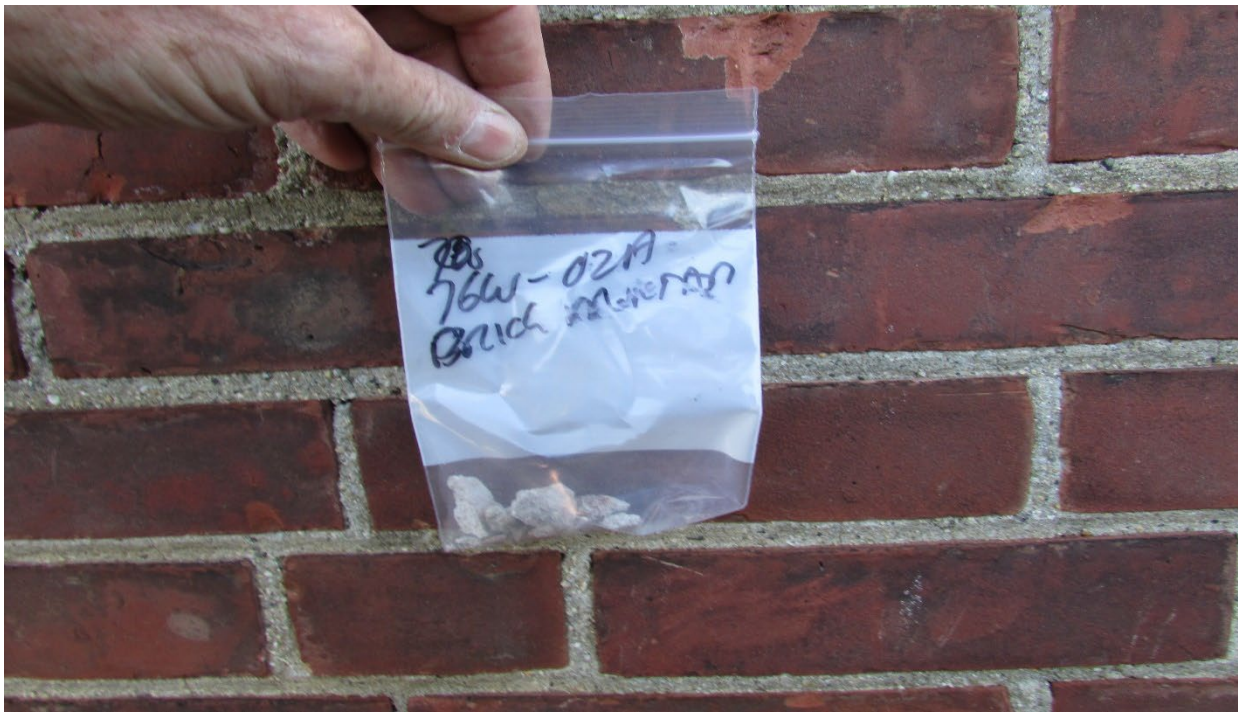


Photo #4 Sample 02A&B Brick Wall Mortar

Worcester DPW
76 East Worcester Street
Worcester, Ma



Photo #5 DPW Brick Wall (North Side)



Photo #6 Sample 03A&B Brick Wall

Worcester DPW
76 East Worcester Street
Worcester, Ma



Photo #7 Sample 04A Roof Composite #1 A-Roof



Photo #8 A-Roof

Worcester DPW
76 East Worcester Street
Worcester, Ma



Photo #09 A-Roof



Photo #10 A-Roof

Worcester DPW
76 East Worcester Street
Worcester, Ma



Photo #11 A-Roof Parapet Wall



Photo #12 Sample 05/06A&B White Flashing/Tar Under (Positive)

Worcester DPW
76 East Worcester Street
Worcester, Ma



Photo #13 A-Roof Material



Photo #14 Sample #07A&B Gray Sealant on Screw Caps (Parapet Wall) (Positive)

Worcester DPW
76 East Worcester Street
Worcester, Ma



Photo #15 Sample #09A&B Rubber Patch on Parapet Wall Seam



Photo #16 A-Roof

Worcester DPW
76 East Worcester Street
Worcester, Ma



Photo #17 Sample 10A&B Gray Patch Material on Exhaust Pipe (Positive)



Photo #18 Sample 11A&B Glazing on 9-Light Metal Window (B Roof) (Positive)

Worcester DPW
76 East Worcester Street
Worcester, Ma

Photo #18 Sample 11A&B

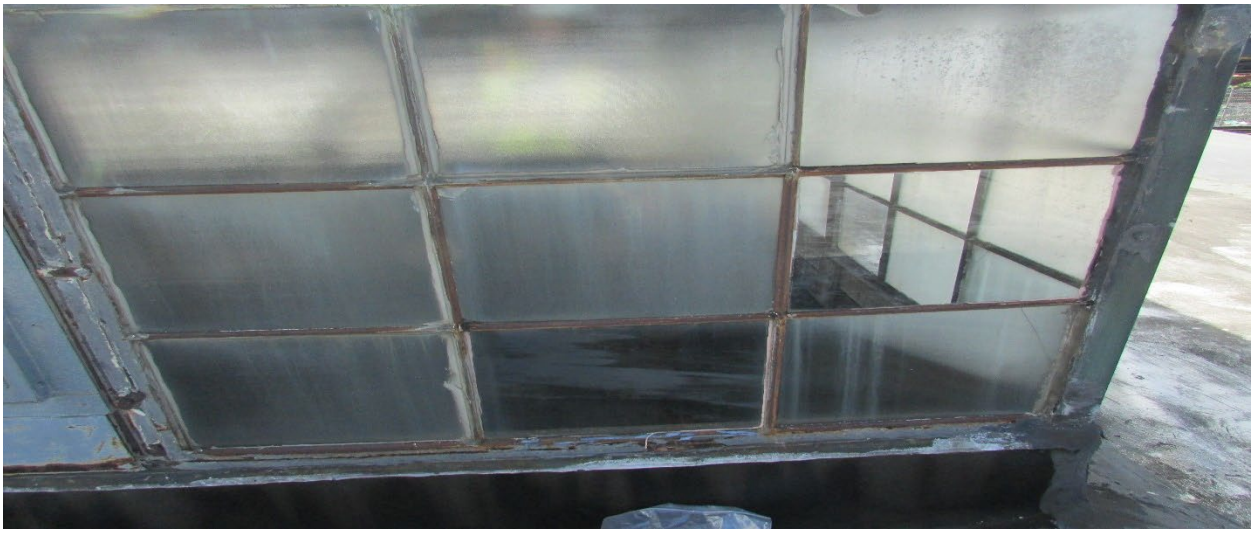


Photo #19 9-Light Metal Windows (B Roof)



Photo #20 B-Roof

Worcester DPW
76 East Worcester Street
Worcester, Ma



Photo #21 B-Roof



Photo #22 B-Roof

Worcester DPW
76 East Worcester Street
Worcester, Ma



Photo #23 Sample 13A-C Gray Coat on 9-Light Window Frame (Positive)



Photo #24 Sample #12A Roof Composite #3 B-Roof

Worcester DPW
76 East Worcester Street
Worcester, Ma



Photo #25 Compromized Roof Area

Worcester DPW
76 East Worcester Street
Worcester, Ma



Photo#26 A-Roof West



Photo #27 B-Roof West Side

Worcester DPW
76 East Worcester Street
Worcester, Ma



Photo #28 Sample 14A&B Vent Frame Caulk

APPENDIX VI
DRAWING

76 East Worcester St.
Worcester, MA
Job 183BW25194

O- Negative

O- Positive

