

SECTION 02 8070

ABATEMENT SUMMARY OF WORK

PART 1 - GENERAL

1.1 WORK COVERED BY CONTRACT DOCUMENTS

- A. The Work of this Contract comprises the requirements for potential asbestos abatement located at Rye Town Park Bath House. The building will be under various stages of renovation at the time of abatement if required.
- B. During the course of demolition conducted under an earlier separate contract, asbestos and lead paint abatement was conducted. The nature and scope of the abated materials and scope of abatement work was as identified in "Asbestos and Lead Paint Survey Report – July 20, 2022, prepared by Hygenix, Inc. This document is incorporated into this project specification for all contractors' knowledge and information and as, such, is part of the contract documents.
- C. The strong potential exists that during the course of the renovations, materials requiring abatement will be revealed by various isolated demolition. Contractors are hereby informed and notified that in the event the Contractors, their employees, or their sub-contractors encounter a material or condition which is unknown or may be suspected to contain asbestos or other hazardous material, they will not disturb the material, will immediately stop work in that area and immediately notify the Architect and Owner in writing of the condition or suspected material.
- D. Likely asbestos-containing materials which may be encountered (pipe insulation) are friable except for the linoleum flooring. In general, all abatement must be performed in accordance with the New York State Department of Labor Industrial Code Rule 56 (12NYCRR Part 56) and Federal (EPA and OSHA) regulations as they pertain to asbestos abatement. A NYSDOL licensed asbestos abatement contractor employing certified workers must perform the work. The non-friable asbestos abatement should be performed in accordance with the applicable sections of Rule 56 for the Removal of Non-friable ACM. A NYSDOL certified project monitor must inspect the project on a daily basis for completeness of abatement in accordance with Section 56-0.1. The project monitor will be engaged and paid directly by the Owner; the General Construction Contractor shall be responsible for communicating the work schedule so the project monitor can be on site when needed.
- E. Any work in these areas must be done by individuals with the proper asbestos training and certifications.

1.2 CONTRACTS

A. Division of Work

- 1. Under the General Construction Contractor's contract, the Asbestos Abatement Contractor shall:
 - a. Perform Abatement Work required as uncovered and directed during the course of renovation.

1.3 DESCRIPTION OF WORK

- A. The Work specified herein shall be the removal of asbestos containing materials by competent persons trained, knowledgeable, and qualified in the techniques of abatement, handling, and disposal of asbestos containing and asbestos contaminated materials and the subsequent cleaning of contaminated areas, who

comply with all applicable federal, state, and local regulations and are capable of and willing to perform the Work of this Contract.

- B. The General Construction Contractor shall supply labor, materials, services, insurance, permits, and equipment necessary to carry out the Work in accordance with all applicable federal, state, and local regulations and these specifications.

1.4 WORK SEQUENCE

- A. Conduct Abatement Work in stages whenever possible to accommodate all construction contractors' use of the promises during the construction period. Coordinate construction schedule with the General Construction Contractor and Architect.
- B. Conduct Abatement Work in stages to provide for other contractors' convenience in maintaining project schedule.

1.5 CONSTRUCTION DURING ABATEMENT

- A. It is intended that work of other trade contractors will proceed concurrently with abatement activities to the extent possible to facilitate the continuity and progress of the work and minimize the disturbance of contractor activities in spaces adjacent to abatement work.
- B. Protect all workers against hazards of the asbestos abatement and other construction operations and also provide access to work spaces. If elimination of access to any work space becomes necessary, it shall occur only after advance notice and special arrangements with the Architect.
- C. Provide necessary barricades, temporary partitions, other separations, and closures to protect the other workers in the building from harm or injury due to the abatement operations, to restrict access to construction areas to construction workers, and to prevent dust and debris caused by construction activities from entering worker-occupied spaces.

1.6 COORDINATION

- A. The Abatement Contractor shall work with all Contractors at the job site to maintain continuity of work in accordance with the project schedule. The Abatement Contractor must cooperate to the maximum extent with the other Contractors to facilitate the execution of their work. Timely notice of change in the Abatement Contractor's schedule shall be given to the others and to the Architect so that all operations may be rescheduled or modified as required.
- B. In case of conflicts occurring because of failure to abide by the requirements of the above paragraph, the Architect's decisions will be final, and no extra compensation will be awarded for extra work caused by failure to follow the above requirements.
- C. The Architect shall have the right to stop the work immediately if the Asbestos Contractor does not adhere to the specifications contained herein. Such notice can be verbal or in writing. If a verbal order is given, a written order must follow.

1.7 PROTECTION OF EXISTING BUILDING AND GROUNDS

- A. Provide protection to prevent damage to building, both interior and exterior, during abatement operations.
- B. Repair damage to building and grounds to the satisfaction of the Architect. operations.

1.8 PROTECTION OF EQUIPMENT AND MATERIALS

- A. Abatement Contractor must assume full and complete responsibility for protection and safekeeping of his products and equipment stored at project location.

1.9 PROTECTION OF UTILITIES

- A. Provide and maintain adequate protection for existing utilities. Repair such Work damaged during construction to the satisfaction of the Architect.

1.10 ASBESTOS PROJECT MONITOR

- A. Perform work only when the Asbestos Project Monitor is on site unless otherwise instructed in writing by the Architect.
- B. Perform work only during the hours of work which established at the Pre-Construction Meeting or as approved in writing by the Architect at least 24 hours in advance of the change. This will allow the Asbestos Project Monitor to monitor the Work in progress.

NOTE: ALL CONTRACTORS ARE HEREBY NOTIFIED THAT IN THE EVENT THE CONTRACTORS, THEIR EMPLOYEES OR SUBCONTRACTORS ENCOUNTER A MATERIAL OR CONDITION WHICH IS UNKNOWN OR WHICH MAY BE SUSPECTED TO CONTAIN ASBESTOS OR OTHER HAZARDOUS MATERIAL, THE CONTRACTOR WILL NOT DISTURB THE MATERIAL, BUT SHALL STOP WORK IN THAT AREA AND NOTIFY THE OWNER IN WRITING IMMEDIATELY OF THE CONDITION OR MATERIAL.

END OF SECTION

SECTION 02 8071

ABATEMENT REGULATORY REQUIREMENTS

PART 1 - GENERAL

1.1 GENERAL REQUIREMENTS

- A. All Work shall be done in strict accordance with all applicable federal, state, and local regulations, standards, and codes governing asbestos abatement and any other trade work done in conjunction with the abatement.
- B. The most recent edition of any relevant regulation, standard, document, or code shall be applicable to the Work. Where conflict among the requirements or with these specifications exists, the most stringent requirements are applicable.
- C. Copies of all standards, regulations, codes, and other applicable documents and subsequent amendments thereto, listed in this section and including this specification, shall be available at the work site in the clean change area of the worker decontamination system.

PART 2 - SPECIFIC REQUIREMENTS

2.1 OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA)

- A. OSHA regulations governing asbestos abatement include, but are not limited to:
 - 1. Title 29 CFR Section 1926.1101, Occupational Exposure to Asbestos Construction Standard.
 - 2. Title 29 CFR Section 1910.1001, General Industry Standard for Asbestos.
 - 3. Title 29 CFR Section 1910.134, General Industry Standard for Respiratory Protection.
 - 4. Title 29 CFR Section 1910.20, Access to Employee Exposure and Medical Records.
 - 5. Title 29 CFR Section 1910.1200, Hazard Communication.
 - 6. Title 29 CFR Section 1910.145, Specifications for Accident Prevention Signs and Tags.
 - 7. Title 29 CFR Section 1910.95, Noise Regulation.

2.2 ENVIRONMENTAL PROTECTION AGENCY (EPA)

- A. EPA regulations governing asbestos abatement include, but are not limited to:
 - 1. Title 40 CFR Part 61, Subparts A and M, National Emission Standard for Asbestos.
 - 2. Title 40 CFR Part 763, Subpart G, Asbestos Abatement Project.
 - 3. Title 40 CFR Part 763, Asbestos Containing Materials in Schools, Final Rule and Notice.

2.3 AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI)

- A. ANSI standards governing asbestos abatement include, but are not limited to:
 - 1. Fundamentals Governing the Design and Operation of Local Exhaust Systems, Publication 29.2-79.

- 2. Practices for Respiratory Protection, Publication Z88.2-80.
- 2.4 COMPRESSED GAS ASSOCIATION (CGA)
 - A. Pamphlet G-7, "Compressed Air for Human Respiration" and Specification G-7.1, "Commodity Specification for Air."
- 2.5 MINE SAFETY AND HEALTH ADMINISTRATION (MSHA)
 - A. Certification of respirators as per 30 CFR Part 11.
- 2.6 NATIONAL INSTITUTE FOR OCCUPATIONAL SAFETY AND HEALTH (NIOSH)
 - A. NIOSH regulations governing asbestos abatement include, but are not limited to:
 - 1. A guide to respiratory protection for the asbestos abatement industry.
 - 2. Approval of respirators as per 30 CFR Part 11.
 - 3. Standards for analysis of air samples.
- 2.7 CANADIAN STANDARD ASSOCIATION
 - A. Standard Z180.1-1978, "Compressed Breathing Air."
- 2.8 AMERICAN SOCIETY FOR TESTING AND MATERIALS (ASTM)
 - A. Standard Guide for Visual Inspection of Asbestos Abatement Projects.
- 2.9 NEW YORK STATE REQUIREMENTS
 - A. State regulations governing asbestos abatement include, but are not limited to:
 - 1. New York State Department of Environmental Conservation (NYSDEC), Title 6 NYCRR, Part 360 and 364, The New York State Hazardous Waste Management Regulations.
 - B. Part 56 of Title 12 of the Official Compilation of Codes, Rules and Regulations.
 - C. Chapter II: Title 10, Part 73 of the New York Code of Rules and Regulations: Asbestos Safety Program Requirements.
- 2.10 LICENSES
 - A. Maintain current licenses as required by applicable state or local jurisdictions for the removal, transportation, disposal, or other regulated activity relative to the Work of this Contract.
- 2.11 NEW AND AMENDED REGULATIONS
 - A. Any and all new or amended federal, state, or local regulations becoming effective during this project and not listed are to be considered as part of this specification.
- 2.12 NOTICES

- A. USEPA: Send written notification in accordance with 40 CFR Part 61.146 to the Regional Asbestos Contact responsible for the enforcement of the National Emission Standard for Asbestos at least ten (10) days prior to the commencement of any on-site project activity. Send notification to the following address:

Region 2
Asbestos NESHAPS Contact
Air and Waste Management Division
USEPA
26 Federal Plaza
New York, New York 10007

- B. NYS Department of Labor: Send written notification in accordance with Part 56 of Title 12 to the Asbestos Control Bureau of the NYS Department of Labor's Division of Safety and Health. Use forms provided by the Department of Labor.

END OF SECTION

SECTION 02 8073

ABATEMENT SUBMITTALS

PART 1 - GENERAL

1.1 DESCRIPTION

A. Related requirements specified elsewhere.

1. Testing Laboratory Services: Section 02 8074

1.2 SUBMISSION REQUIREMENTS

A. A Submittal cover sheet in 02 8073.01 must be used for all abatement submittals.

B. Pre-contract Submittals. Within three days after bids are opened, the three apparent low bidders shall be required to submit the following documentation:

1. Resume: Shall include the following:

- a. Contractor license issued by New York State Department of Labor.
- b. The number of years engaged in asbestos removal.
- c. An outline of the worker training course and medical surveillance program conducted by the contractor.
- d. A standard operating procedures manual describing work practices and procedures, equipment, type of decontamination facilities, respirator program, special removal techniques, etc.

2. Citations/Violations/Legal Proceedings

- a. Submit a notarized statement describing any citations, violations, criminal charges, or legal proceedings undertaken or issued by any law enforcement, regulatory agency, or consultant concerning performance on previous abatement contracts. Briefly describe the circumstances citing the project and involved persons and agencies as well as the outcome of any actions.
- b. Answer the question: "Has your Abatement firm or its agents been issued a Stop Work Order on any project within the last two years?" If "Yes", provide details as discussed above.
- c. Answer the question: "Are you now, or have you been in the past, a party to any litigation or arbitration arising out of your performance on asbestos abatement contracts?" If "Yes", provide details as discussed above.
- d. Describe any liquidated damages assessed within the last two years.

3. Preliminary Schedule

- a. Provide an estimate of manpower to be utilized and the time required for completion of each work area uncovered. Include the size and number of crews and work shifts.

C. Prior to Commencement of Work, Contractor shall:

1. NYS Department of Labor: Provide Owner with a copy of the notice to the Asbestos Control Program of the NYS Labor Department's Division of Safety and Health as per Part 56 of Title 12.
2. NYSDEC: Submit to the Owner a copy of the annual "Industrial Waste Hauler Permit" specifically for asbestos-containing materials required pursuant to 6 NYCRR364. Submit certification that the proposed waste disposal site meets the requirements of 40 CFR 61.156 and any pertinent local and state regulations. Provide Owner with a copy of the notice to the Asbestos Enforcement Division of the NYSDEC.
3. Submit documentation satisfactory to the Owner that the Contractor's employees, including Superintendent, Foremen, Supervisors, and other company personnel or agents, who may be exposed to airborne asbestos fibers or who may be responsible for any aspects of abatement activities, have received adequate training. A copy of their Asbestos Handling Certificates will be provided. Foremen and Supervisors shall, at a minimum, meet the training requirements of a competent person as defined in 29 CFR 1926.1101.
4. Submit to the Architect shop drawings for layout and construction of decontamination enclosure systems and barriers for isolation of the work area as required by applicable regulations.
5. Submit manufacturer's certification that HEPA vacuums, negative pressure ventilation units, and other local exhaust ventilation equipment conform to ANSI Z9.2-79.
6. When rental equipment is to be used in abatement areas or to transport asbestos-contaminated waste, a written notification concerning intended use of the rental equipment must be provided to the rental agency with a copy submitted to the Architect.
7. Provide a copy of the respiratory program required in 29 CFR 1910.134 (b), (d), (e), and (f). Include manufacturer certification of HEPA filtration capabilities for all cartridges and filters.
8. Submit a copy of the firm's asbestos handling license.
9. Submit the name, address, contact person and the ELAP approval number for the laboratory utilized for the analysis of the Contractor's OSHA monitoring.
10. Worker Training and Medical Surveillance: The Contractor shall submit a list of the persons who will be employed by him and his subcontractors in the removal work. Present evidence that workers have received proper training required by the regulations and the medical examinations required by OSHA 29 CFR 1926.1101.
11. Logs: Specimen copies of daily progress log, visitor's log, and disposal log.
12. Material List: A complete materials list of all items proposed to be furnished and used under this contract.
13. Subcontractors List: The General Construction Contractor shall submit a list of all subcontractors to be used for abatement.
14. Material Safety Data Sheets (MSDS): Submit copies of MSDS for each chemical or material used for the project (encapsulant, surfactant, mastic remover, etc.)
15. Project Supervisor: Submit the resume of the proposed Project Supervisor.

16. Worker's Acknowledgments: Submit statements signed by each employee that the employee has received training in the proper handling of asbestos containing materials; understands the health implications and risks involved; and understands the use and limitations of the respiratory equipment to be used.

E. During abatement activities, General Construction Contractor shall:

1. Submit copies of all transport manifests, trip tickets, and disposal receipts for all asbestos waste materials removed from the work area during the abatement process. The documentation must show the entire chain of custody from the time the asbestos is removed.
2. The Contractor will maintain worksite entry log books with information on worker and visitor access. The Asbestos Handling Certificates for all workers will be kept at the entrance to the work site or the certificates will be checked upon each entry by the Contractor. Copies will be provided to the Owner, Engineer, and Contractor.
3. Submit logs documenting filter changes on respirators, HEPA vacuums, negative pressure ventilation units, and other engineering controls.
4. Submit results of bulk material analysis and air sampling data collected during the course of the abatement including OSHA compliance air monitoring results.
5. Submit results of materials testing conducted during the abatement for purposes of utilization during abatement activities (e.g., testing of encapsulant for depth of penetration and testing of substitute materials for adherence to encapsulated surfaces).
6. Post in the clean room area of the worker decontamination enclosure a list containing the names, addresses, and telephone numbers of the General Construction Contractor, the Abatement Contractor, the Architect, the Asbestos Project Monitor, the Air Sampling Professional, the testing laboratory, the police department, the fire department, and any other personnel who may be required to assist during abatement activities.

F. Project Closeout Submissions:

1. Submit copies of all waste disposal manifests, seals, and disposal logs.
2. Submit OSHA compliance air monitoring records conducted during the work.
3. Submit copies of the daily progress log.
4. Submit copies of the Visitor's log.
5. Submit Certificate of Visual Inspection.
6. Submit copies of any required Employee Statements such as Medical Examination Statement, Certificate of Worker's Release, or Employee Training Statement.

END OF SECTION

SECTION 02 8080

ABATEMENT PERSONNEL PROTECTION

PART 1 - GENERAL

1.1 DESCRIPTION

A. Related Requirements Specified Elsewhere

1. Regulatory Requirements: Section 028071

B. Description of Work

1. This section describes the equipment and procedures required for worker and authorized visitor protection against asbestos contamination and other hazards.

1.2 SUBMITTALS

A. Asbestos Handling Certificate

1. Each worker will have a current asbestos handling certificate issued by the NYS Department of Labor. Copies will be submitted to the Architect.

B. Product Data

1. Submit manufacturer's product data for all components of respiratory systems proposed to be utilized.

C. Operations and Maintenance (O&M)

1. Submit O&M manuals for respiratory systems.
2. Submit the name and qualifications of the individual assigned to monitor the supply air respiratory system.

D. Respiratory Protection Program

1. Provide the respiratory protection program detailed herein.

PART 2 - EQUIPMENT

2.1 RESPIRATORY PROTECTION EQUIPMENT

- A. Respirators shall be provided that have been tested and approved by NIOSH MSHA under 30 CFR Part 11 for use in asbestos-contaminated atmospheres and bear the approval labels and TC numbers. The respirator chosen by the Contractor must ensure that the workers are not exposed to asbestos concentrations above the PEL, 0.1 f/cc, 8 hour TWA. The rules in 29 CFR 1926.1101 (h) shall govern the respirator selection.

1. Where not in violation of NIOSH, OSHA, and any other regulatory requirements, the Contractor shall provide the following minimum respiratory protection to the maximum use concentrations indicated:

MSHA/NIOSH Approved Respiratory Protection	Maximum Use Concentrations
Half Mask Air Purifying With HEPA Filters	0.1 f/cc
Full Facepiece Air Purifying With HEPA Filters	0.5 f/cc
HEPA Filters and Quantitative Fit Test	
Powered Air Purifying (PAPR) Loose fitting Helmet or Hood, HEPA Filter	0.25 f/cc
Powered Air Purifying (PAPR) Full Facepiece, HEPA filter	0.5 f/cc
Supplied Air, Continuous Flow Loose fitting Helmet or Hood	0.25 f/cc
Supplied Air, Continuous Flow Full Facepiece, HEPA Filter	0.5 f/cc
Full Facepiece Supplied Air, Pressure Demand, HEPA Filter	10 f/cc
Full Facepiece Supplied Air, Pressure Demand, with Aux. SCBA, Pressure Demand or Continuous Flow	>10 f/cc

- B. Spectacle kits and eyeglasses must be provided for employees who wear glasses and who must wear full face piece respirators.
- C. The nature of the encapsulant may affect the requirements for respiratory protection. Vapors that may be given off during encapsulant application must be taken into account when selecting respirators, if types other than air supplied are used.
- D. The minimum level of respiratory protection allowable for all plaster and fireproofing work areas during gross removal will be PAPRs.

2.2 PROTECTIVE CLOTHING

- A. Full body disposable protective clothing, including head, body, and foot coverings (unless using footwear as described below) consisting of material impenetrable by asbestos fibers (TyvekR or equivalent) shall be provided to all workers and authorized visitors in sizes adequate to accommodate movement without tearing. Provide a sufficient number for all required changes, for all workers in the work area.
- B. Additional safety equipment (e.g., hard hats meeting the requirements of ANSI Standard Z89.1-1981, eye protection meeting the requirements of ANSI Standard Z87.1-1979, safety shoes meeting the requirements of ANSI Standard Z41.1-1967, disposable PVC gloves or other work gloves), as necessary, shall be provided to all workers and authorized visitors.
- C. Nonskid footwear shall be provided to all abatement workers. Disposable clothing shall be adequately sealed to the footwear to prevent body contamination.

PART 3 - EXECUTION

3.1 TRAINING

- A. All workers will have current Asbestos Handling Certificates issued by the New York State Commissioner of Labor.
- B. Supervisory personnel shall be competent people, as defined in 29 CFR 1926.1101 (b), and shall receive training as required in 29 CFR 1926.1101 and have a current Supervisor Certificate issued by the New York State Commissioner of Labor.

3.2 RESPIRATORY PROTECTION

- A. All respiratory protection shall be provided to workers in accordance with the submitted written respiratory protection program, which includes all items in OSHA 29 CFR 1910.134 (b), (d), (e), and (f). This program shall be posted in the clean room of the worker decontamination enclosure system.
- B. Workers shall be provided with personally issued, individually identified (marked with waterproof designations) respirators.
- C. Respirators shall be selected that meet the following level of protection requirements: The workers will not be exposed to in excess of 0.1 f/cc, 8-hour TWA.
- D. When air tests show the level of asbestos exceeds 0.1 f/cc, the permissible exposure level, the Contractor will begin respiratory protection and personnel monitoring. At a minimum, half-face air purifying respirators will be worn during all preparation and cleaning operations.
- E. During all removal operations, except glovebag removal, the minimum level of protection required is the powered air purifying respirator. During glovebag removal the minimum level of protection required is a half face negative pressure air purifying respirator.
- F. Fit Testing
 - 1. Workers must perform positive and negative air pressure fit tests each time a respirator is put on, whenever the respirator design so permits. Powered air-purifying respirators shall be tested for adequate flow as specified by the manufacturer.
 - 2. Workers shall be given a qualitative fit test in accordance with procedures detailed in the OSHA Regulation (29 CFR 1926.1101, Appendix C, Qualitative and Quantitative Fit Testing Procedures) for all respirators to be used on this abatement project. The irritant fume protocol will be utilized. An appropriately administered quantitative fit test may be substituted for the qualitative fit test.
- G. No one wearing a beard or other facial hair shall be permitted to don a respirator and enter the work area.
- H. Additional respirators (minimum of two of each type) and training on their donning and use must be available at the work site for authorized visitors who may be required to enter the work area.

3.3 PROTECTIVE CLOTHING

- A. Disposable clothing including head, foot, and full body protection shall be provided in sufficient quantities and adequate sizes for all workers and authorized visitors.

- B. Hard hats, protective eyewear, gloves, rubber boots, and/or other footwear shall be provided as required for workers and authorized visitors. Safety shoes may be required for some activities.
- C. Protective clothing shall not be worn outside the work area in lieu of street clothing.

3.4 MEDICAL SURVEILLANCE

- A. Medical surveillance must be provided by the Contractor to any employee or agent that may be exposed to asbestos in excess of background levels during any phase of the abatement project. The surveillance program shall be in accordance with 29 CFR 1926.1101.
- B. Employees shall be given an opportunity to be evaluated by a physician to determine their capability to work safely while breathing through the added resistance of a respirator.
- C. Copies of the Medical Surveillance Documentation for each employee must be submitted.

END OF SECTION

SECTION 02 8084

ABATEMENT MAINTENANCE OF RECORDS

PART 1 GENERAL

1.1 DESCRIPTION

- A. The General Construction Contractor/Abatement Contractor shall maintain the records required in Title 29 CFR 1926.1101 (n) and Part 56 of Title 12 of the Official Compilation of Codes, Rules and Regulations of the State of New York.
- B. The General Construction Contractor shall provide the Owner and Architect with 3 bound hard copies and 1 electronic copy of all records.
- C. Related Requirements Specified Elsewhere
 - 1. Submittals: Section 02 8073
 - 2. Closeout Procedures and Submittals: Section 01 7800.

END OF SECTION

SECTION 02 8086

ABATEMENT WASTE DISPOSAL PROCEDURES

PART 1 GENERAL

1.1 DESCRIPTION

- A. As the work progresses, to prevent exceeding available storage capacity on site, sealed and labeled containers of asbestos-containing waste shall be removed and transported to the prearranged disposal location.
- B. All containers of asbestos-containing waste shall be labeled with the name of the waste generator and the location at which the waste was generated.
- C. Disposal of all regulated asbestos-containing material must occur at an authorized site in accordance with regulatory requirements of NESHAP 40 CFR 61.156, NYSDEC 6NYCRR364, and local guidelines and regulations.
- D. All dump receipts; trip tickets, transportation manifests, or other documentation of disposal shall be delivered to the Owner for his records.
 - 1. A record keeping format utilizing a chain of custody form which includes the names and addresses of the Generator (Owner), Contractor, pickup site, disposal site, the estimated quantity of the asbestos waste, and the type of containers used.
 - 2. The form should be signed by the Generator, the Contractor, the truck drivers, and the disposal site operator, as the responsibility for the material changes hands.
 - 3. If a separate hauler is employed, his name, address, telephone number, and signature should also appear on the form.

PART 2 - PRODUCTS - NOT APPLICABLE

PART 3 - EXECUTION

3.1 TRANSPORTATION TO THE LANDFILL - (REGULATED ASBESTOS CONTAINING MATERIAL)

- A. Once drums, bags, and wrapped components have been removed from the work area, they shall be loaded into an enclosed, hardbody, lockable truck for transportation.
- B. When moving containers, utilize hand trucks, carts, and proper lifting techniques to avoid back injuries. Trucks with lift gates are helpful for raising drums during truck loading.
- C. The enclosed cargo area of the truck shall be free of debris and lined with 2 layers of 6 mil polyethylene sheeting to prevent contamination from leaking or spilled containers. Floor sheeting shall be installed first and extend up the sidewalls. Ceiling and wall sheeting shall be overlapped and taped into place.
- D. Drums shall be placed on level surfaces in the cargo area and packed tightly together to prevent shifting and tipping. Large structural components shall be secured to prevent shifting and have bags placed on top. Do not throw containers into truck cargo area.

- E. Personnel loading asbestos-containing waste shall be protected by disposable clothing including head, body, and foot protection, and at a minimum, half-face piece, air-purifying, dual cartridge respirators equipped with high efficiency filters.
- F. Any debris or residue observed on containers or surfaces outside of the work area resulting from clean-up or disposal activities shall be immediately cleaned up using HEPA filtered vacuum equipment and/or wet methods as appropriate.
- G. Large metal dumpsters are sometimes used for asbestos waste disposal. These should have doors or tops that can be closed and locked to prevent vandalism or other disturbance of the bagged asbestos debris and wind dispersion of asbestos fibers. Unbagged material shall not be placed in these containers, nor shall they be used for non-asbestos waste. Bags shall be placed, not thrown, into these containers to avoid splitting.
- H. The waste hauler shall provide a copy of his "Industrial Waste Hauler Permit" specifically for asbestos-containing material required pursuant to NYSDEC regulation 6 NYCRR364.

3.2 DISPOSAL AT THE LANDFILL - (REGULATED ASBESTOS CONTAINING MATERIAL)

- A. Upon reaching the landfill, trucks are to approach the dump location as closely as possible for unloading of the asbestos-containing waste.
- B. Bags, drums, and components shall be inspected as they are off-loaded at the disposal site. Material in damaged containers shall be repacked in empty drums or bags as necessary. (Local requirements may not allow the disposal of asbestos waste in drums. Check with appropriate agency and institute appropriate alternative procedures.)
- C. Waste containers shall be placed on the ground at the disposal site, not pushed or thrown out of trucks (weight of wet material could rupture containers).
- D. Personnel off-loading containers at the disposal site shall wear protective equipment consisting of disposable head, body, and foot protection and, at a minimum, half-face piece, air-purifying, dual cartridge respirators equipped with high efficiency filters.
- E. Following the removal of all containerized waste, the truck cargo area shall be decontaminated using HEPA vacuums and/or wet methods to meet the no-visible residue criteria. Polyethylene sheeting shall be removed and discarded along with contaminated cleaning materials and protective clothing, in bags or drums at the disposal site.
- F. If landfill personnel have not been provided with personal protective equipment for the compaction operation by the landfill operator, Contractor shall supply protective clothing and respiratory protection for the duration of this operation.

END OF SECTION

SECTION 02 8087

ABATEMENT RESTORING THE WORK AREA AND SYSTEMS

PART 1 - GENERAL

1.1 DESCRIPTION

A. Related Requirements Specified Elsewhere

1. Cleaning Up: Section 028090

- B. Restoring of the work area to pre-abatement condition shall only occur following the completion of clean-up procedures and after clearance air monitoring has been performed and documented to the satisfaction of the Architect.

PART 2 - PRODUCTS - NOT APPLICABLE

PART 3 - EXECUTION

3.1 RE-ESTABLISHMENT PROCEDURES

- A. The General Construction Contractor and Architect shall visually inspect the work area for any remaining visible residue. Evidence of contamination will necessitate additional cleaning.
- B. Additional air monitoring shall be performed if additional clean-up is necessary.
- C. Following satisfactory clearance of the work area, remaining polyethylene barriers may be removed and disposed of as asbestos-contaminated waste.
- D. Mandatory requirements for personal protective equipment may be waived following the removal of all barriers.
- E. Re-secure mounted objects removed from their former positions during area preparation activities.
- F. Relocate objects that were removed to temporary locations back to their original positions.
- G. Repair areas of damage that occurred as a result of abatement activities and as indicated.

END OF SECTION

SECTION 02 8090
ABATEMENT CLEANING UP

PART 1 - GENERAL

1.1 DESCRIPTION

- A. Related Requirements Specified Elsewhere
 - 1. Regulatory Requirements: Section 02 8071
 - 2. Restoring the Work Area and Systems: Section 02 8087
 - 3. Cleaning for Specific Products or Work: The respective sections of the specifications.
- B. Maintain premises and public properties free from accumulations of waste, debris, and rubbish caused by operations.
- C. At completion of Work, remove waste materials, rubbish, tools, equipment, machinery, and surplus materials, and clean all sight-exposed surfaces; leave project clean and ready for occupancy.

1.2 SAFETY REQUIREMENTS

- A. Standards: Maintain project in accordance with safety and insurance standards and the specifications contained herein.
- B. Hazards Control
 - 1. Remove asbestos waste from premises daily.
 - 2. Prevent accumulation of wastes which create hazardous conditions.
 - 3. Provide adequate ventilation.
- C. Conduct cleaning and disposal operations to comply with federal, state, and local ordinances.

PART 2 - PRODUCTS

2.1 MATERIALS

- A. Use only cleaning materials recommended by manufacturer of surface to be cleaned.
- B. Use cleaning materials only on surfaces recommended by cleaning material manufacturer.

PART 3 - EXECUTION

3.1 DURING CONSTRUCTION

- A. Clean the Worker Decontamination Unit at least once each shift.
- B. Clean the area near the Waste Decontamination Unit and the Worker Decontamination Unit at least once each shift.

3.2 FINAL CLEANING

- A. Employ experienced workmen or professional cleaners for final cleaning.
- B. In preparation for substantial completion or occupancy, conduct final inspection of sight-exposed interior and exterior surfaces, and of concealed spaces.
- C. Remove grease, dust, dirt, stains, labels, fingerprints, and other foreign materials from sight-exposed interior and exterior finished surfaces; polish surfaces so designated to shine finish.
- D. Repair, patch, and touch up marred surfaces to specified finish, to match adjacent surfaces.
- E. Broom clean paved surfaces; rake clean other surfaces of grounds.
- F. Maintain cleaning until project, or portion thereof, is occupied by Owner

END OF SECTION

SECTION 02 8300

LEAD HAZARD REMOVAL AND DISPOSAL

PART 1 GENERAL

1.1 DESCRIPTION

- A. This section describes the procedures and requirements to be followed by all workers for controlling the potential release of hazardous lead-containing dust, fumes, and particulates from construction activities. This section also describes the waste handling and disposal of asbestos-containing construction materials. Lead is a toxic metal known to cause adverse health effects with exposure. Lead dust released during demolition and construction activities is a potential hazard to workers and building occupants.
 - 1. The proposed renovation/alteration of the Rye Town Park Bath House requires the removal and lawful disposal of various building components including but not limited to: window sills, doors, base, wood trim, plaster walls and ceilings.
- B. The complete report of the inspection for lead-based paints is incorporated into Asbestos and Lead Paint Survey Report, dated July 20, 2022, by Hygenix, Inc., which is incorporated into this project specification and, as such, is a part of the contract.
 - 1. Asbestos – non-friable asbestos has been detected in sink caulking in both existing men’s and women’s bathrooms and the waterproofing of the interior side of an exterior (see report). The non-friable asbestos-containing waterproofing on the wall is not to be abated or disturbed and will be encapsulated by the new construction.
 - 2. Lead Abatement is not required as all lead-based paint will be completely removed in sections and disposed of in a timely fashion in accordance with OSHA regulations.
- C. All contractors are to comply with these Lead Hazard Control requirements and all U.S. Department of Housing and Urban Development (HUD) Guidelines for the Evaluation and Control of Lead-Based Paint in Housing, and Occupational Safety and Health Administration requirements (OSHA) 29 CFR 1926.62.
- D. Any required abatement must be done by workers trained under the OSHA and HUD regulations, as appropriate. (This section does not include lead abatement, as defined by USEPA).
- E. All contractors are to comply with U.S. EPA 40CFR 745.80; Lead-Renovation, Repair, and Painting Program (Lead Renovator Rule).

1.2 WORKER TRAINING AND O.S.H.A. EXPOSURE MONITORING

- A. The Contractor must provide training and protect and monitor employees for lead exposure, as required by the Occupational Safety and Health Administration (OSHA) 29 CFR 1926.62, and U.S. EPA 40CFR 745.80

1.3 REGULATORY REQUIREMENTS

- A. All work shall be done in strict accordance with all applicable federal, state, and local regulations, standards, and codes governing the work. The most recent edition of any relevant regulation, standard, document, or code shall be applicable to the Work. Where conflict among the requirements or with these specifications exist, the most stringent requirements are applicable.

PART 2 - EXECUTION

2.1 SUMMARY OF PROTECTIVE MEASURES FOR LOW- AND HIGH-RISK PROJECT TASKS

- A. To determine the extent of protective measures needed, the task should be classified as low- or high-risk according to the HUD regulations.

2.2 PERSONAL PROTECTIOVE EQUIPEMENT (P.P.E.)

- A. All requirements for P.P.E. are minimum recommended requirements. Determination of actual requirements is the Contractors responsibility under the O.S.H.A. regulation.
 - 1. Respirators
 - a. Respiratory protection shall comply with the OSHA regulation.
 - 2. Protective Clothing
 - a. Low-Risk Jobs - Protective clothing is required for low-risk jobs.
 - b. High-Risk Jobs - Protective clothing and protective footwear are required for all high-risk jobs. Materials to be used shall be suitable for skin protection from lead dust hazard and other hazards present on site.

PART 3 – WASTE DISPOSAL

3.1 WASTE HANDLING AND DISPOSAL

- A. All lead debris shall be removed from work areas by using a covered cart to prevent dust migration. The lead debris shall be placed in a waste container and labeled with a warning sign on each side “Caution - Lead (Pb) Containing Debris - Health Hazard- Avoid Contact or Inhalation”.
- B. All waste containers shall be tested by the contractor to determine if waste is hazardous for lead disposal. This shall be done by collecting a composite sample from the waste and having it analyzed for lead toxicity using the EPA Toxicity Characterization Leachate Procedure (TCLP) Test. Results are to be reported in mg/l. All results of waste with levels equal to or greater than 5.0 mg/l of leachable lead is considered a regulated hazardous waste.
- C. All waste displaying a hazardous waste characteristic for lead Toxicity (5.0mg/l of greater, based on TCLP testing) or any other hazardous waste characteristic, Ignitibility, Corrosivity, Reactivity, shall be managed as a regulated hazardous waste.
- D. All lead waste that is determined to be a regulated hazardous waste shall be removed, containerized and disposed of as a RCRA Regulated Hazardous Waste. All waste shall be placed in Department of Transportation (DOT) approved waste containers and labeled “Hazardous Waste -TOXIC Lead Containing”. In addition, the following information shall be placed on the container: Date container was filled; Generator/Owner name and address; DOT Shipping Name (i.e. Hazardous Waste Solid N.O.S.”); EPA ID number of generator if applicable and manifest number container is listed on. Storage of this waste must be in a secured area and labeled “Hazardous Waste Storage”

PART 4 – SUBMITTALS

4.01 SUBMITTALS

A. Prior to Commencement of Work:

1. Project Supervisor: Submit the resume of the proposed Project Supervisor.
2. Submit copy of Health and Safety program.
3. Submit Material Safety Data Sheets (MSDS) for all chemicals/products to be used.
4. Provide evidence of appropriate training for all workers.
5. Provide evidence of EPA Firm and Worker Certification
6. Provide written Lead Safe Work Plan showing work areas including:
 - a. List of work activities and lead components that will be disturbed in work area
 - b. Job classifications (high risk low risk)
 - c. Location of barriers and signs (if used)
 - d. Clearance criteria

B. During Work Activities, Contractor shall:

1. The General Construction Contractor will maintain worksite log books with information on the work being completed, number of workers, dates, amounts, quantities, sub-contractors, inspections results and waste shipments.
2. Submit results of bulk material analysis, waste sample classification and OSHA compliance air monitoring results.
3. List of work areas inspected with results of visual clearance and name of providing inspection.

C. Project Closeout Submissions:

1. Submit copies of all waste disposal manifests.
2. Submit OSHA compliance air monitoring records conducted during the work.
3. Submit copies waste classification testing.
4. Submit copies of contractors daily logs.
5. DOCUMENTATION OF COMPLIANCE WITH THE REQUIREMENTS OF 745.85 INCLUDING:
 - a. documentation that a certified renovator was assigned to the project
 - b. that the certified renovator provided on the job training for workers used on the project;
 - c. that the certified renovator performed or directed all of the tasks described in 745.85(a);
 - d. that the certified renovator performed the post-renovation cleaning verification described in 745.85 (b), or provide copies of clearance testing completed.

END OF SECTION