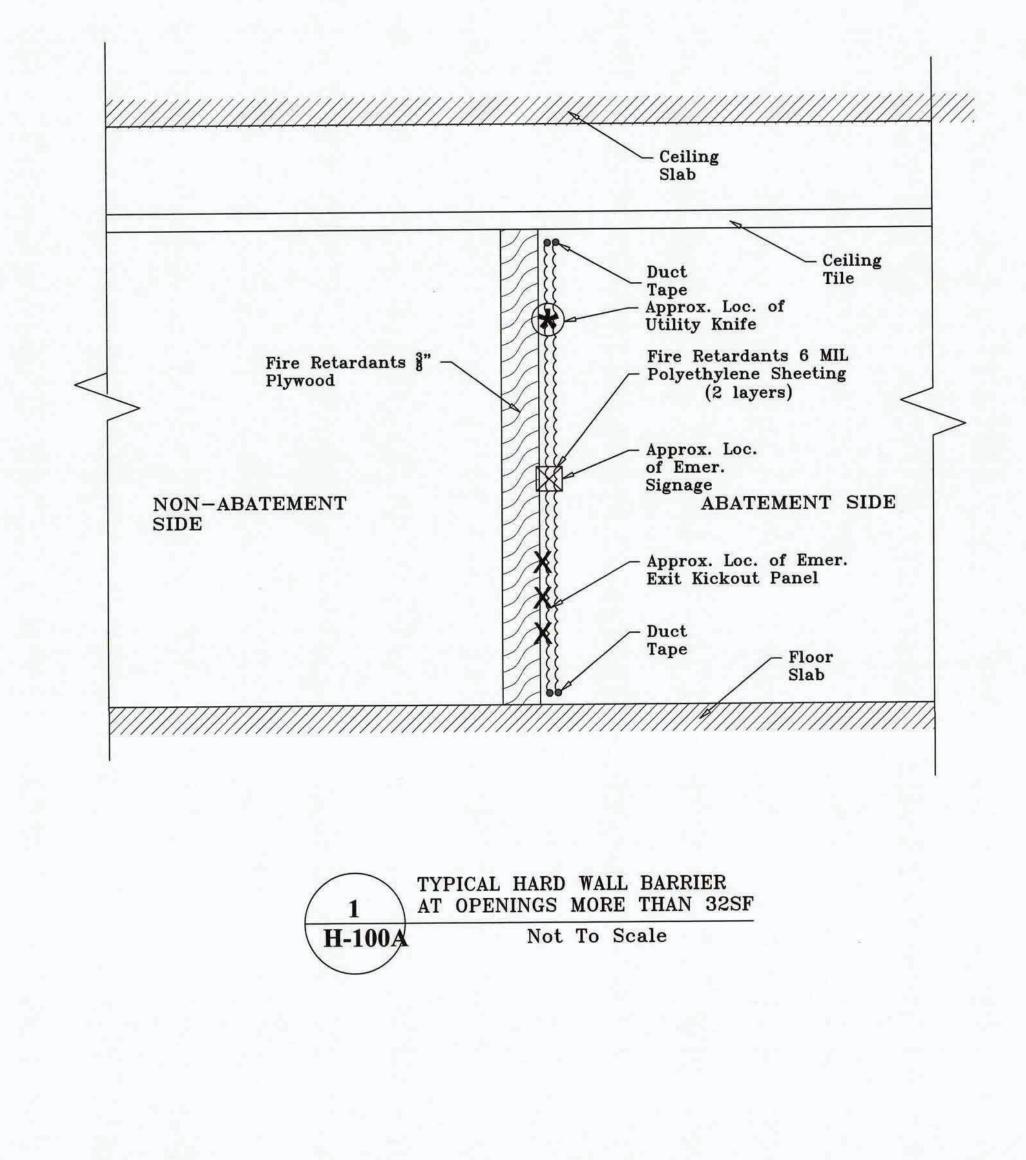
PROJECT NOTES:

SCOPE OF WORK

- A. This asbestos abatement Project will consist of the removal and disposal of asbestos containing flooring and mastic, replacement of abated tiles with non ACM tiles of similar color, pattern, and size, as well the disconnect and abandoning of asbestos cement ducts associated with the mechanical HVAC system.
- The work shall include but not be limited to the abatement work tabulated in the H-100 series B. drawings.
- The Contractor shall be aware of all conditions of the Project and is responsible for verifying C. quantities and locations of all Work to be performed. Failure to do so shall not relieve the Contractor of its obligation to furnish all labor and materials necessary to perform the Work.
- All Work shall be performed in strict accordance with the Project Documents and all governing D. codes, rules, and regulations. Where conflicts occur between the Project Documents and applicable codes, rules, and regulations, the more stringent shall apply.
- Working hours shall be as required and approved by the Owner. Asbestos abatement activities E. including, but not limited to, work area preparation, gross removal activities, cleaning activities, waste removal, etc. may need to be performed during 'off-hours' (including nights and weekends). In addition, multiple mobilizations may be required to perform the work identified in this project. The Contractor shall coordinate and schedule all Work with the facility and Owner's representative.



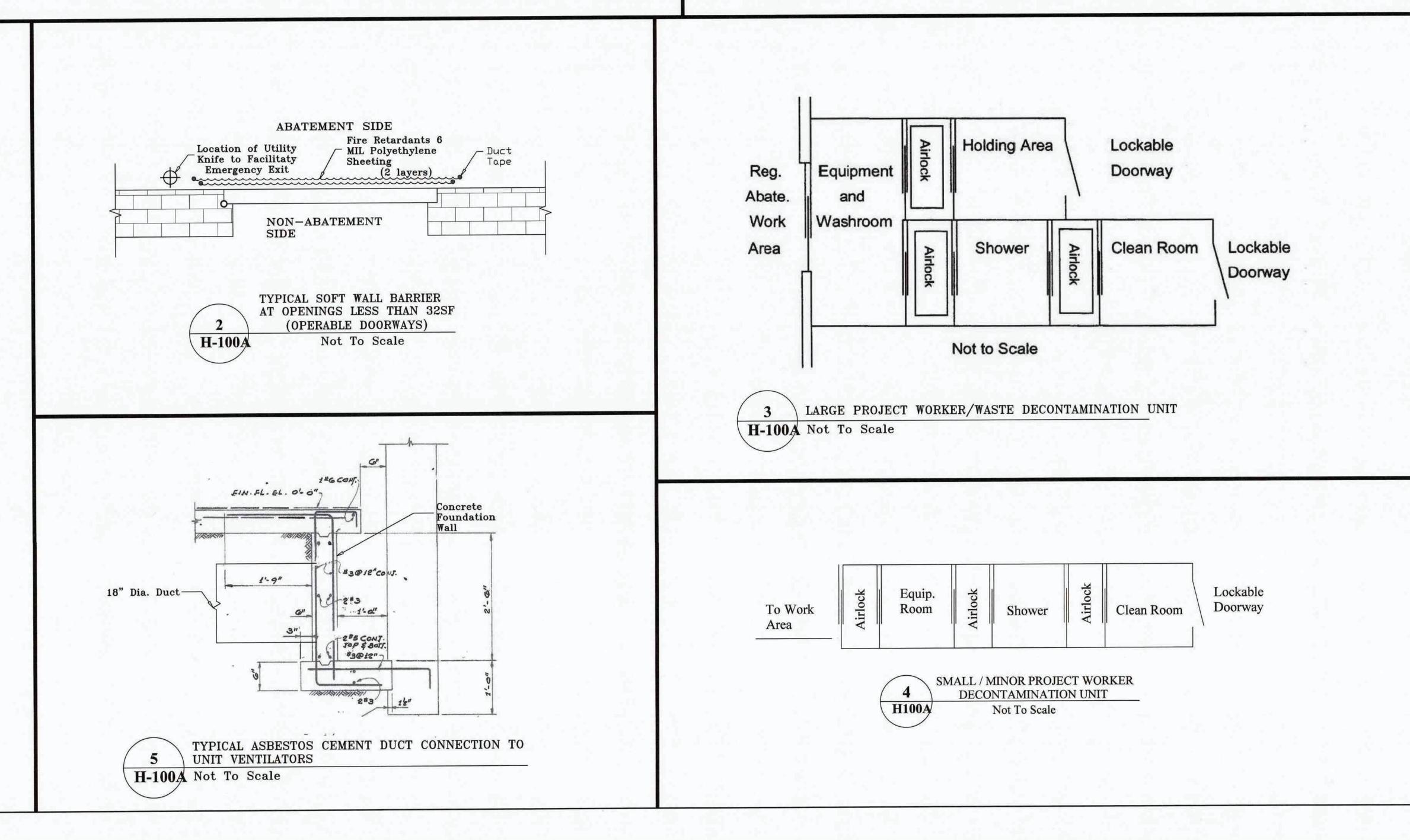
SPECIA	L JOB CONDITIONS
1.	The abatement contractor shall confirm the

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	The abatement contractor shall confirm the location and quantity of all asbestos removal and, prior
	to the start of any abatement activities, notify Yonkers Public Schools (YPS) of any inconsistencies
	with the Bid Documents, as well as any site conditions that were not captured by the Bid
	Documents that will impact the execution of the work.

2. The schedule for all work at the school must be coordinated with and approved in advance of mobilization by YPS.

Mechanical system components that the Contractor may need to access to perform the work of this contract, including oversized ducts, duct enclsoures, and plenum units, are considered confined spaces for purposes of planning and executing abatement work in this area. The Contractor shall submit a Confined Space Entry plan that must be approved by YPS and acknowledged by the local City of Yonkers fire rescue department.

- The HVAC Contractor shall perform disconnect of electrical and mechanical components of 4. ventilation system units that are being taken out of service. Care shall be taken to avoid disturbance in asbestos cement ducts; the general contractor's asbestos abatement contractor shall make the final disconnection at the asbestos duct, cut the asbestos duct to slab/grade as necessary and cap air tight using galvanized steel or effective equivalent.
- The abatement contractor shall perform asbestos abatement in a manner consistent with the project specifications as well as all applicable federal, state, and local regulations (or) as modified by Site Specific Varainces.
- The Contractor shall be aware of the presence of lead-based paint on all surfaces except those YPS has designated as non-lead-based paint, and apply the appropriate health and safety measures.
- All work must be coordinated with YPS facility representatives prior to scheduling and mobilization of manpower and resources to the project site.
- The Contractor shall replace all floor tile removed as part of this abatement using non-asbestos resilient vinyl tiles of similar color, pattern and size. Flooring shall be removed down to the substrate.
- Abandoned Incinerator Flue is assumed to contain asbestos. Removal shall be performed from the Incinerator Room; flue / flue liner may be secured at roof level and/or intermittently along vertical extension - Contractor is responsible for complete removal of the flue / flue liner as ACM.
 - 10. For Work Areas 4,5,6 & 7 (H-102), the asbestos cement ducts leading to the unit ventilators shall also be capped & sealed air tight at the subgrade intakes.

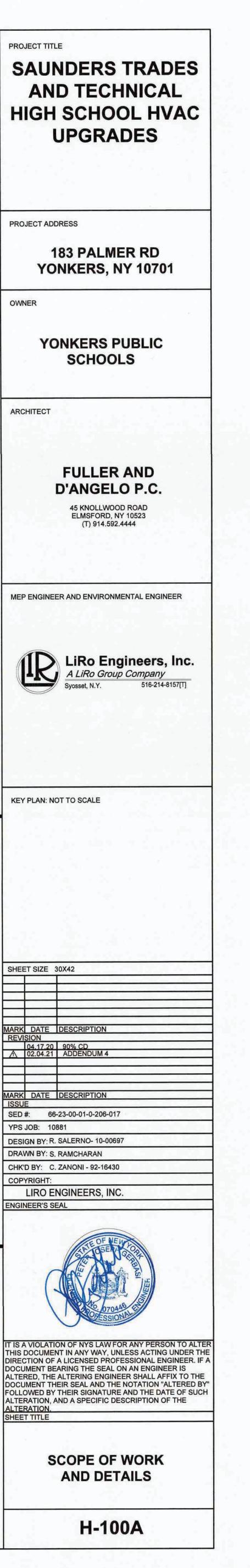


STOS AB	ATEMENT	BASE	SCOPE	OF WORK	TABLE:
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Work Area	Location	Description of Asbestos Material	Approximate Quantity Of ACM	ICR 56 Procedure
1	3rd Floor Library (Corner)	9"x9" Beige Floor Tile and Mastic	200.0 SF	56-11.7
2	1st Floor Mechanical Room	Asbestos Cement Ducts	<1.0 SF	56-11.3 or SSV
3	1st Floor Fan Room	Asbestos Cement Ducts	<1.0 SF	56-11.3 or SSV
4 (1st Floor Room 101	Asbestos Cement Ducts	<1.0 SF	56-11.3 oi SSV
5	1stFloor Room 102	Asbestos Cement Ducts	<1.0 SF	56-11.3 oi SSV
6	1st Floor Room 103/105	Asbestos Cement Ducts	<1.0 SF	> 56-11.3 oi SSV
7	1st Floor Room 106	Asbestos Cement Ducts	<1.0 SF	56-11.3 oi SSV
8	1st Floor Faculty Dining	Asbestos Cement Ducts	<1.0 SF	56-11.3 or SSV
9	1st Floor Room 110	Asbestos Cement Ducts	<1.0 SF	56-11.3 ol SSV
10	1st Mechanical Room - Incinerator Duct	Asbestos Cement Ducts	<1.0 SF	56-11.3 o SSV
11	1st Floor Old Incincerator Room	Flue / Flue Liner	50.0 LF	56-7.11 (f
12	2nd Floor Teacher Room	9"x9" Floor Tile and Mastic	550.0 SF	56-11.7
13	2nd Floor Storage Room	9"x9" Floor Tile and Mastic	65.0 SF	56-11.7
		Total	815.0 SF / 50.0 LF	

ASBESTOS ABATEMENT ALTERNATE SCOPE OF WORK TABLE:

Work Area	Location	Description of Asbestos Material	Approximate Quantity Of ACM	ICR 56 Procedure
A1	3 rd Floor Library	9"x9" Beige Floor Tile and Mastic	2,450.0 SF	56-11.7
		Total	5,310.0 SF	



ASBESTOS PROJECT REQUIREMENTS:

GENERAL

PERMI	IS AND COMPLIANCE
A.	The Contractor shall assume full responsibility and liability for compliance with all applicable Federal, State, and local laws, rules, and regulations pertaining to Work practices, protection of Workers, authorized visitors to the site, persons, and property adjacent to the Work. Perform asbestos related Work in accordance with New York State Industrial Code Rule 56 (herein referred to as Code Rule 56), 40 CFR 61, and 29 CFR 1926. Where more stringent requirements are specified, adhere to the more stringent
В. С.	requirements. The Contractor must maintain current licenses, permits and certifications pursuant to New York State Department of Labor and Department of Environmental Conservation for all Work related to this Project, including the removal, handling,
D. E. F.	The Contractor must have and submit proof upon request that any persons employed by the Contractor to engage in or supervise work on any aboatos reject nerve a value of a value of the submitted are included as an appendix of this specification. The Contractor shall comply fully with any Variance secured from regulatory agencies by the Owner in the performance of the Work. Any Variance applications previously submitted are included as an appendix of this specification. The Contractor shall be responsible for obtaining all Variances as may be required for the Project or as requested by the Owner. Approval of the Owner is required prior to submission of a Variance application to any regulatory agency. Failure
G. H.	to obtain Owner approval may result in Owner not permitting variance to be used on the project. The Contractor shall be responsible for compliance with The New York State Uniform Fire Prevention and Building Code, or its successor during all Work at the site. Failure to adhere to the Project Documents shall constitute a breach of the Contract and the Owner shall have the right to and may terminate the Contract provided, however, the failure of the Owner to so terminate shall not relieve the Contractor
SUBMI	from future compliance.
Α.	Pre-Work Submittals: Within 7 days prior to the pre-construction conference, the Contractor shall submit 3 copies of the documents listed below for review and approval prior to the commencement of asbestos abatement activities: 1. Contractor license issued by New York State Department of Labor. 2. Progress Schedule:
	 Progress Schedule: a. Show the complete sequence of abatement activities and the sequencing of Work within each building or building section. b. Show the dates for the beginning and completion of each major element of Work including substantial completion dates for each Work Area, building, or phase. 3. Project Notifications: As required by Federal and State regulatory agencies together with proof of transmittal (i.e. certified mail return receipt).
	 Building Occupant Notification: As required by regulatory agencies. Abatement Work Plan: Provide plans that clearly indicate the following: All Work Areas/containments numbered sequentially.
	 b. Locations and types of all decontamination enclosures. c. Entrances and exits to the Work Area/containments'. Type of abatement activity/technique for each Work Area/containment. c. Number and location of negative air units and exhaust. Also provide calculations for determining number of negative air pressure units.
	 f. Location of water and electrical connections to building services. g. Waste transport routes through the building to the waste storage container. 7. Disposal Site/Landfill Permit from applicable regulatory agency.
В.	 Disposal bite/Landmin Project Close-out Submittals: Within 30 days of the completion of each abatement phase, the Contractor shall submit one copy of the documents listed below to the owner's environmental consultant for review and approval prior to Project Close-out Submittals: Within 30 days of the completion of each abatement phase, the Contractor shall submit one copy of the documents listed below to the owner's environmental consultant for review and approval prior to Contractor's final payment. Once the close-out submittal is approved, the Contractor shall provide three sets of the approved close-out documents (double-sided and bound) to owner's representative. All waste disposal manifests and disposal logs (Original waste manifests shall be sent to the owner's representative.
	 OSHA compliance air monitoring records conducted during the Work. Daily progress log, including the entry/exit log.
PRE-C	 Disposal Site/Landfill Permit from applicable regulatory agency. Project notifications, amended notifications, Variances. ONSTRUCTION CONFERENCE
A. B.	Prior to start of preparatory Work under this Contract, the Contractor shall attend a pre-construction conference attended by Owner, Facility Personnel, and Environmental Consultant.
	 Contractor's scope of Work, Work plan, and schedule to include number of workers and shifts. Contractor's safety and health precautions including protective clothing and equipment and decontamination procedures. Environmental Consultant's duties, functions, and authority.
	 4. Contractor's Work procedures including: a. Methods of job site preparation and removal methods. b. Respiratory protection. c. Disposal procedures.
	 d. Cleanup procedures. e. Fire exits and emergency procedures. e. Fire exits and emergency procedures.
	 Contractor's required pre-work and on-site submittals, documentation, and posinger. Contractor's plan for twenty-four (24) hour Project security both for prevention of theft and for barring entry of unauthorized personnel into Work Areas. Temporary utilities. Handling of furniture and other moveable objects.
C.	 Storage of removed asbestos containing materials. Waste disposal requirements and procedures, including use of the Owner supplied waste manifest. Waste disposal requirements and procedures, including use of the Owner and Environmental Consultant on a pre-construction walk-through documenting existing condition of finishes and furnishings, reviewing overall Work plan, location In conjunction with the conference the Contractor shall accompany the Owner and Environmental Consultant on a pre-construction walk-through documenting existing condition of finishes and furnishings, reviewing overall Work plan, location In conjunction with the conference the Contractor shall accompany the Owner and Environmental Consultant on a pre-construction walk-through documenting existing condition of finishes and furnishings, reviewing overall Work plan, location
	of fire exits, fire protection equipment, water supply and temporary electric tie-in. ICABLE STANDARDS AND REGULATIONS
A. B.	The Contractor shall comply with the following codes and standards, except where more stringent requirements are shown or specified: Federal Regulations:
	 29 CFR 1910.1001, "Asbestos" (OSHA) 29 CFR 1910.1200, "Hazard Communication" (OSHA) 29 CFR 1910.134, "Respiratory Protection" (OSHA) 29 CFR 1910.134, "Respiratory Protection" (OSHA)
	 29 CFR 1910.145, "Specification for Accident Prevention Signs and Tags" (OSHA) 29 CFR 1926, "Construction Industry" (OSHA) 29 CFR 1926.1101, "Asbestos, Tremolite, and Actinolite" (OSHA) 29 CFR 1926.1101, "Asbestos, Tremolite, Anthophyllite, and Actinolite" (OSHA)
	 29 CFR 1926, Subpart AA (1200 through 1213) 29 CFR 1926.500 "Guardrails, Handrails and Covers" (OSHA) 40 CFR 61, Subpart A, "General Provisions" (EPA)
	 40 CFR 61, Subpart M, "National Emission Standard for Asbestos" (EPA) 40 CFR 763, Appendix A to Subpart E, "Interim TEM Analytical Methods" 49 CFR 171-172, Transportation Standards (DOT)
C.	New York State Regulations: 1. 12 NYCRR, Part 56, "Asbestos", Industrial Code Rule 56 (DOL) 2. 6 NYCRR, Parts 360, 364, Disposal and Transportation (DEC) 3. 10 NYCRR, Part 73, "Asbestos Safety Program Requirements" (DOH)
D.	 10 NYCRR, Part 73, "Asbestos Safety Program Requirements (DOH) "New York State Uniform Fire Prevention and Building Code" Standards and Guidance Documents: American National Standard Institute (ANSI) Z88.2-80, Practices for Respiratory Protection
	 American Valuational Statute (Find the Design and Operation of Local Exhaust Systems ANSI Z9.2, 79, Fundamentals Governing the Design and Operation of Local Exhaust Systems EPA 560/585_024, Guidance for Controlling Asbestos Containing Materials in Buildings (Purple Book) EPA 530-SW-85-007, Asbestos Waste Management Guidance
NOT	5. ASTM Standard E1368 "Standard Practice for Visual Inspection of Asbestos Abatement Projects"
A.	The Contractor shall provide notification of intent to commence asbestos abatement activities as indicated below. 1 At least ten (10) Working days prior to beginning abatement activities, send written notification to:
	National Emissions Standards for Hazardous Air Pollutants (NESHAPS) Coordinator 26 Federal Plaza
	New Vork NY 10007
	 At least ten (10) days prior to beginning abatement activities send written notification to: New York, NY 10007 New York State Department of Labor Division of Safety and Health, Asbestos Control Program.
	 At least ten (10) days prior to beginning abatement activities send written notification to: New York State Department of Labor Division of Safety and Health, Asbestos Control Program. State Office Campus Building 12 - Room 161B Albany, NY 12240
B. C.	 At least ten (10) days prior to beginning abatement activities send written notification to:
C. D.	 At least ten (10) days prior to beginning abatement activities send written notification to:
С. D. СОМ А.	2. At least ten (10) days prior to beginning abatement activities send written notification to: New York State Department of Labor Division of Safety and Health, Asbestos Control Program. State Office Campus Building 12 - Room 161B Albany, NY 12240 The Contractor is required to send notifications to regulatory agencies via electronic, mail, or package delivery service that will provide proof of delivery and receipt. The Contractor shall be responsible for maintaining current project filings with regulatory agencies for the duration of the project. The Contractor shall post and/or provide Building Occupant Notification at least 10 days prior to beginning abatement activities as required by Code Rule 56. TTRACTOR AIR SAMPLING In addition to the requirements of OSHA 1926.1101, the Contractor shall be required to perform personal air monitoring every Work shift in each Work Area during which abatement activities occur in order to determine that appropriate respiratory protection is being worn and utilized.
C. D. CON	 At least ten (10) days prior to beginning abatement activities send written notification to: New York State Department of Labor Division of Safety and Health, Asbestos Control Program. State Office Campus Building 12 - Room 161B Albany, NY 12240 The Contractor is required to send notifications to regulatory agencies via electronic, mail, or package delivery service that will provide proof of delivery and receipt. The Contractor shall be responsible for maintaining current project filings with regulatory agencies for the duration of the project. The Contractor shall post and/or provide Building Occupant Notification at least 10 days prior to beginning abatement activities as required by Code Rule 56. TRACTOR AIR SAMPLING In addition to the requirements of OSHA 1926.1101, the Contractor shall be required to perform personal air monitoring every Work shift in each Work Area during which abatement activities occur in order to determine that appropriate respiratory protection is being worn and utilized. The Contractor's lall conduct air sampling that is representative of both the 8-hour time weighted average and 30-minute short-term exposures to indicate compliance with the permissible exposure and excursion limits. The Contractor's all boratory analysis of air samples shall be conducted by an NYS DOH ELAP approved laboratory. The consultant shall not collect or analyze the Contractor's air samples. The Contractor's laboratory analysis of air samples shall be exposured by an NYS DOH ELAP approved laboratory. The consultant shall not collect or analyze the contractor's air samples. Deve for ensemption equiption escale the expansion be addited by an NYS DOH ELAP approved laboratory. The consultant shall not collect or analyze the contractor's air samples. Deve for ensemption escale the expansion be delivered and posted at the Work site within five (5) days. Deve for the fore t
C. D. COM A. B. C. D.	 At least ten (10) days prior to beginning abatement activities send written notification to:
C. D. COM A. B. C. D.	 At least ten (10) days prior to beginning abatement activities send written notification to: New York State Department of Labor Division of Safety and Health, Asbestos Control Program. State Office Campus Building 12 - Room 161B Albany, NY 12240 The Contractor shall be responsible for maintaining current project filings with regulatory agencies for the duration of the project. The Contractor shall post and/or provide Building Occupant Notification at least 10 days prior to beginning abatement activities as required by Code Rule 56. TTRACTOR AIR SAMPLING In addition to the requirements of OSHA 1926.1101, the Contractor shall be required to perform personal air monitoring every Work shift in each Work Area during which abatement activities occur in order to determine that appropriate respiratory protection is being worn and utilized. The Contractor shall bot the requirements of OSHA 1926.1101, the Contractor shall be required to perform personal air monitoring every Work shift in each Work Area during which abatement activities occur in order to determine that appropriate respiratory protection is being worn and utilized. The Contractor's alaboratory analysis of air samples shall be conducted by an NYS DOH ELAP approved laboratory. The consultant shall not collect or analyze the Contractor's shall be delivered and posted at the Work site within five (5) days. Failure to comply with these requirements may result in all work being stopped until compliance is achieved. The Contractor shall beging a fail beging and shall be posted upon receipt. Written laboratory reports shall be delivered and posted at the Work site within five (5) days. Failure to comply with these requirements of a "Competent Person" as a defined by OSHA 1926.1101 and shall have a minimum of one year experience as a supervisor. The Project Supervisor shall
C. D. COM A. B. C. D. PRC A. B.	 At least ten (10) days prior to beginning abatement activities send written notification to: New York State Department of Labor Division of Safety and Health, Asbestos Control Program. State Office Campus Building 12: Acom 16 18 Albany, NY 12240 The Contractor is required to send notifications to regulatory agencies via electronic, mail, or package delivery service that will provide proof of delivery and receipt. The Contractor shall be responsible for maintaining current project filings with regulatory agencies for the duration of the project. The Contractor shall be requirements of OSHA 1926.1101, the Contractor shall be required to perform personal air monitoring every Work shift in each Work Area during which abatement activities occur in order to determine that appropriate respiratory protection is being worm and utilized. The Contractor shall be requirements of OSHA 1926.1101, the Contractor shall be required to perform personal air monitoring every Work shift in each Work Area during which abatement activities occur in order to determine that appropriate respiratory protection is being worm and utilized. The Contractor shall conduct air sampling that is representative of both the 8-hour time weighted average and 30-minute short-term exposures to indicate compliance with the permissible exposure and excursion limits. The Contractor's hall conduct air sample shall be available, verbally, within twenty-four (24) hours of sampling and shall be posted upon receipt. Written laboratory reports shall be delivered and posted at the Work site within five (5) days. Failure to comply with these requirements are a Abeetos Supervisor.
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EXECUTION

GENERAL REQUIREMENTS

A. Should visible emissions or water leaks be observed outside the Work Area, immediately stop Work and institute emergency procedures per Code Rule 56. Should there be elevated fiber levels outside the Work Area, immediately stop Work, institute emergency procedures per Code Rule 56, and notify all employers and occupants in adjacent areas. All costs incurred in decontaminating such non-Work Areas and the contents thereof shall be borne by the Contractor, at no additional cost to the Owner

- B. Valid NYS DOL Asbestos Handler certification cards shall be on site prior to admittance of any Contractor's employees to the asbestos Work Area. C. The following submittals, documentation, and postings shall be maintained on-site by the Contractor during abatement activities at a location approved by the Abatement
- Project Monitor: Valid Contractor handling license issued by New York State Department of Labor.
- NYS DOL Asbestos Handler certification cards for each person employed in the removal, handling, or disturbance of asbestos. 3. Daily OSHA personal air monitoring results.
- 4. NYS Department of Health ELAP certification for the laboratory that will be analyzing the OSHA personnel air samples. 5. NYS Department of Environmental Conservation Waste Transporter Permit.
- 6. Project documents (specifications and drawings.)
- 7. Notifications, Variances, Approved Work Plan. Ensure that the most up-to-date notifications and Variances are on-site. 8. Applicable regulations.
- Material Safety Data Sheets of supplies/chemicals used on the Project.
- 10. Disposal Site/Landfill Permit from applicable regulatory agency. 11. List of emergency telephone numbers.
- 12. Magnahelic manometer semi-annual calibration certification. 13. Waste Disposal Log.
- 14. Daily Project Log.
- 15. Entry/Exit Logs. D. The following documentation shall be maintained on-site by the Abatement Project Monitor during abatement activities: 1. Valid Contractor handling license issued by New York State Department of Labor.
- 2. Air Sample Log.
- Air sample results. 4. Project Monitor Daily Log
- 5. Asbestos Survey Report.
- 6. A copy of ASTM Standard E1368 "Standard Practice for Visual Inspection of Asbestos Abatement Projects."
- 7. Calibration chart for rotometer(s) used on-site. E. The Work Area must be vacated by building occupants prior to decontamination enclosure construction and Work Area preparation.
- F. All demolition necessary to access asbestos containing materials for removal must be conducted within negative pressure enclosures by licensed asbestos handlers. Demolition debris may be disposed of as construction and demolition debris provided the Abatement Project Monitor determines that it is not contaminated with asbestos and there has been no disturbance of ACM within the enclosure. If the demolition debris is determined to be contaminated or ACM has been disturbed, it must be disposed of as asbestos waste.
- WORK AREA PREPARATION
- A. Asbestos danger signs shall be posted at all approaches to the asbestos Work Area. Post all emergency exits as emergency exits only on the Work Area side, post with asbestos caution signs on the non-Work Area side. Provide all non-Work Area stairs and corridors accessible to the asbestos Work Area with warning tapes at the base of stairs and beginning of corridors. Warning tapes shall be in addition to caution signs
- B. Shut down and lock out the building heating, ventilating, and air conditioning systems. Electrical systems and circuits shall also be shut down unless permitted to remain active per Code Rule 56 and appropriately protected and labeled. Existing lighting sources shall not be utilized. Provide temporary electric power and lighting as specified 2. All non-ACM surfaces and objects within the Work Area shall be pre-cleaned using HEPA vacuuming and/or wet-wiping methods. Dry sweeping and any other methods
- that raise dust shall be prohibited. ACM shall not be disturbed during pre-cleaning. D. Movable objects within the Work Area shall be HEPA vacuumed and/or wet-wiped and removed from the Work Area.
- E. All non-movable equipment in the Work Area shall be completely covered with 2 layers of fire retardant plastic sheeting, at least 6 mil in thickness, and secured in place with duct tape and/or spray adhesive. Active Fire Protection System components in the Work Area shall not be covered with fire retardant plastic sheeting or any other obstruction
- Provide enclosure of the asbestos Work Area necessary to isolate it from unsealed areas of the building in accordance with the approved asbestos Work plan and as specified G. Provide critical barriers by sealing off all openings including but not limited to operable windows and skylights, doorways, diffusers, grills, electrical outlets and boxes,
- doors, floor drains, and any other penetrations to surfaces in the Work Area enclosure, using 2 layers of at least 6 mil fire retardant plastic sheeting. H. Provide isolation barriers by installing temporary framing and sheathing at openings larger than 32 square feet forming the limits of the asbestos Work Area. Sheathing thickness must be a minimum of 3/8 inch and all sheathing shall be caulked and the Work Area side sealed with two layers of 6 mil fire retardant plastic sheeting. Isolation barriers in stairwells and at work area egress locations shall not be covered with sheathing, only two layers of 6 mil fire retardant plastic sheeting.
- Isolation barriers shall be installed at all elevator openings in the Work Area. Elevators running through the regulated abatement work area shall be shut down or isolated as per Code Rule 56. Elevator controls shall be modified so that elevators bypass the Work Area Provide two independent layers of 6 mil fire retardant plastic sheeting over all floor, wall, and ceiling surfaces. Isolation barriers shall also be covered with two independent
- layers (for a total of four layers). Sheeting shall be secured with duct tape. All joints in fire retardant plastic sheeting shall overlap 12" minimum. Carpeting left in place shall be covered with 3/8 inch plywood sheathing prior to plasticizing. K. Unless otherwise specified for removal, the Contractor shall either protect all fiberglass insulation on piping, ductwork, tanks, etc. in the Work Area using two layers of six mil fire retardant plastic sheeting or remove the insulation as asbestos containing waste. If the Contractor elects to remove the fiberglass insulation as asbestos-contaminated,
- he/she shall be responsible for reinsulation if reinsulation of removed insulations is part of the Contract or Project. . Frame out emergency exits from Work Area. Provide double layer 6 mil fire retardant plastic sheeting and tape seal opening. Post as emergency exits only and tape utility knife to the Work Area side of each exit. Within the Work Area, mark the locations and directions of emergency exits throughout the Work Area using exit signs and/or duct
- M. Remove all items attached to or in contact with ACM only after the Work Area enclosure is in place. HEPA vacuum and wet wipe with amended water all items prior to
- their removal from the Work Area and before the start of asbestos removal operations. N. Suspended ceiling tiles shall only be removed after Work Area preparation is complete. If possible, non-contaminated ceiling tiles shall be HEPA vacuumed and removed from the Work Area before asbestos removals begin. Contaminated ceiling tiles shall be disposed of as asbestos waste.
- NEGATIVE AIR PRESSURE FILTRATION SYSTEM A. Provide a portable asbestos filtration system that develops a minimum pressure differential of negative 0.02 in. of water column within all full enclosure areas relative to adjacent unsealed areas and that provides a minimum of 4 air changes per hour in the Work Area during abatement and 6 air changes for non-friable flooring and/or mastic
- B. Such filtration systems must be made operational after critical and isolation barriers are installed but before wall, floor, and ceilings are plasticized and shall be operated 24 removal hours per day during the entire Project until the final cleanup is completed and satisfactory results of the final air samples are received from the laboratory.
- C. The system shall include a series of pre_filters and filters to provide High Efficiency Particulate Air (HEPA) filtration of particles down to 0.3 microns at 100% efficiency and below 0.3 microns at 99.9% efficiency. Provide sufficient replacement filters to replace pre_filters every 2 hours, secondary pre_filters every 24 hours, and primary HEPA filters every 600 hours (25 continuous days) of operation. HEPA filter sides shall be marked with installation date during all new HEPA filter installations on project. D. A minimum of one additional filtration unit of at least the same capacity as the primary unit(s) shall be installed and fully functional to be used during primary unit (s) filter
- changing and in case of primary failure. E. At no time will the unit exhaust indoors, within 15 feet of a receptor, including but not limited to windows and doors, or adversely affect the air intake of the building. Exhaust ducting shall not exceed 25' in length, except as allowed by Industrial Code Rule 56. Provide construction fencing at ground level exhaust termination locations per Code Rule 56.
- F. Upon electric power failure or shut_down of any filtration unit, all abatement activities shall stop immediately and only resume after power is restored and all filtration units are fully operating. For shut_downs longer than one hour, all openings into the Work Area, including the decontamination enclosures, shall be sealed. G. For all OSHA Class I removal Work Areas, the Contractor shall provide a manometer to verify negative air pressure. Manometers shall be read twice daily and recorded
- within the Daily Project Log. H. There shall be at least a 4 hour settling period after the Work Area is fully prepared and the negative filtration units have been started to ensure integrity of the barriers. I. Once installed and operational, the Contractor's Supervisor shall conduct daily inspections of the Work Area to insure the airtight integrity of the enclosure and operation of the negative air system. Findings shall be recorded within the Daily Project Log. Inspections shall also be conducted on days when no abatement activities are in progress per Code Rule 56 (i.e. weekends).
- REMOVAL OF ASBESTOS CONTAINING MATERIALS
- A. Asbestos-containing materials shall be removed in accordance with the Contract Documents and the approved Asbestos Work Plan. Only one type of ACM shall be abated at a time within a Work Area. Where there are multiple types of ACM requiring abatement, Code Rule 56 procedures for sequential abatement shall be followed. B. Sufficiently wet asbestos materials with a low pressure, airless fine spray of surfactant to ensure full penetration prior to material removal. Re-wet material that does not
- display evidence of saturation. . One Worker shall continuously apply amended water while ACM is being removed.
- D. Perform cutting, drilling, abrading, or any penetration or disturbance of asbestos containing material in a manner to minimize the dispersal of asbestos fibers into the air. Use equipment and methods specifically designed to limit generation of airborne asbestos particles. All power operated tools used shall be provided with manufacturer HEPA
- equipped filtered local exhaust ventilation, as required by regulation. E. Upon removal of ACM from the substrate, the newly exposed surfaces shall be HEPA vacuumed and/or wet cleaned. Surfaces must be thoroughly cleaned using necessary methods and any required solvents to completely remove any adhesive, mastic, etc.
- F. All removed material shall be placed into 6 mil plastic disposal bags or other suitable container upon detachment from the substrate. Cleanup of accumulations of loose debris or waste shall be performed whenever there is enough accumulation to fill a single bag or container and minimally at the end of each work shift.
- G. Large components shall be wrapped in two layers of 6 mil fire retardant plastic sheeting. Sharp components likely to tear disposal bags shall be placed in fiber drums or boxes and then wrapped with sheeting. H. Power or pressure washers are not permitted for asbestos removal or clean-up procedures unless approved in a Site Specific Variance and allowed by owner.
- I. All open ends of pipe and duct insulation not scheduled for removal shall be encapsulated using lag cloth. J. All construction and demolition debris determined by the Environmental Consultant to be contaminated with asbestos shall be handled and disposed of as asbestos waste.
- K. The use of metal shovels, metal dust pans, etc. are not permitted inside the work area. EQUIPMENT AND WASTE CONTAINER DECONTAMINATION AND REMOVAL PROCEDURES
- A. External surfaces of contaminated containers and equipment shall be cleaned by wet cleaning and/or HEPA vacuuming in the Work Area before moving such items into the waste decontamination enclosure system airlock by persons assigned to this duty. The persons in the Work Area shall not enter the airlock. No gross removal operations are
- permitted when waste transfer is in progress. B. The containers and equipment shall be removed from the airlock by persons stationed in the washroom during waste removal operations. The external surfaces of containers
- and equipment shall be cleaned a second time by wet cleaning. C. The cleaned containers of asbestos material and equipment are to be dried of any excessive pooled or beaded liquid, placed in uncontaminated 6 mil plastic bags or sheeting, as the item's physical characteristics demand, and sealed airtight.
- D.The clean recontainerized items shall be moved into the airlock that leads to the holding area. Workers in the washroom shall not enter this airlock. E. Containers and equipment shall be moved from the airlock and into the holding area by persons dressed in clean personal protective equipment, who have entered from the
- The cleaned containers of asbestos material and equipment shall be placed in water tight carts with doors or tops that shall be closed and secured. These carts shall be held in holding area. the holding until transfer to the waste container. The carts shall be wet cleaned and/or HEPA vacuumed at least once each day.
- G. The exit from the decontamination enclosure system shall be secured to prevent unauthorized entry.
- H. Where the waste removal enclosure is part of the personnel decontamination enclosure, waste removal shall not occur during shift changes or when otherwise occupied. Precautions shall be taken to prevent short circuiting and cycling of air outward through the shower and clean room.
- TENT ENCLOSURES A. Tent enclosures may only be used where specifically permitted by Code Rule 56 or a Site Specific Variance issued by the NYS Department of Labor. B. The Contractor shall restrict access to the immediate area where tent removal procedures are taking place using barrier tape and/or construction barriers. Caution signs shall
- C. Remote personnel decontamination enclosures shall be constructed. Configuration shall be as required by Project size and a washroom with attached airlock shall be be posted. constructed contiguous to the tent enclosure for small and large size tent enclosure work areas. For tent enclosures with gross abatement of friable materials, a contiguous decontamination system shall be constructed, maintained and utilized, except for minor size tent enclosure work areas where an adjacent decontamination room or area is
- permitted by Code Rule 56. D. The Work Area shall be precleaned. All objects and equipment that will remain in the restricted area during abatement shall be sealed with two layers of six mil
- polyethylene and tape. E. The tent shall be a single use barrier constructed with a rigid frame and at least two layers of six mil polyethylene unless one layer of six mil polyethylene is otherwise permitted by Code Rule 56. Tents with twenty (20) square feet or less of floor space or no gross removal of friable ACM shall be constructed of one (1) layer of six mil polyethylene and shall include walls, ceilings and a floor (except portions of walls, floors and ceilings that are the removal surface) with double folded seams. All seams shall be sealed airtight using duct tape and/or spray adhesive.
- F. The tent shall be constructed with at least one airlock for worker/waste egress.
- G. A manometer shall be used for all OSHA Class I abatement. H. Negative air shall be maintained at four (4) air changes per hour for non-friable and glovebag abatement tent enclosure work areas. Eight (8) air changes shall be maintained for friable gross removal tent enclosure work areas. In a Minor size abatement tent enclosure work area a HEPA vacuum may be used to maintain the required air changes. . OSHA compliance air monitoring is required per section 1.09.

DISPOSAL OF ASBESTOS WASTE

- TRANSPORTATION AND DISPOSAL SITE A. The Contractor's Hauler and Disposal Site shall be approved by the Owner. All waste generated during the asbestos project shall be disposed of as RACM asbestos B. The Contractor shall give twenty-four (24) hour notification prior to removing any waste from the site. Waste shall be removed from the site only during normal
- working hours unless otherwise specified. No waste may be taken from the site unless the Contractor and Environmental Consultant are present and the Environmental Consultant authorizes the release of the waste as described herein. All waste generated as part of the asbestos project shall be removed from the site within ten (10) calendar days after successful completion of all asbestos abatement
- D. Upon arrival at the Project Site, the Hauler must possess and present to the Environmental Consultant a valid New York State Department of Environmental
- Conservation Part 364 Asbestos Hauler's Permit. The Environmental Consultant may verify the authenticity of the hauler's permit with the proper authority. E. The Hauler, with the Contractor and the Environmental Consultant, shall inspect all material in the transport container prior to taking possession and signing the Asbestos Waste Manifests. WASTE STORAGE CONTAINERS
- A. All waste containers shall be fully enclosed and lockable (i.e. enclosed dumpster, trailer, etc.). No open containers will be permitted on-site (i.e. open dumpster with canvas cover, etc.) unless specifically permitted by applicable regulation or a Site Specific Variance. When asbestos contaminated waste must be kept on the work site overnight or longer, it shall be double bagged and stored in accordance with Federal, State, and local laws. B. The Environmental Consultant shall verify that the waste storage container and/or truck tags (license plates) match that listed on the New York State Department of
- Environmental Conservation Part 364 permit. Any container not listed on the permit shall be removed from the site immediately. C. The container shall be plasticized and sealed with two (2) layers of 6 mil polyethylene. Once on site, it shall be kept locked at all times, except during load out. The waste container shall not be used for storage of equipment or contractor supplies.
- D. While on-site, the container shall be labeled with EPA Danger signage:

DANGER CONTAINS ASBESTOS FIBERS AVOID CREATING DUST

- CANCER AND LUNG DISEASE HAZARD E. The New York State Department of Environmental Conservation Asbestos Hauler's Permit number shall be stenciled on both sides and back of the container. F. The container is not permitted to be loaded unless it is properly plasticized, has the appropriate danger signage affixed, and has the permit number appropriately stenciled on the container.
- G. Waste generated off-site is not permitted to be brought onto the Project site and loaded into the waste container. H. All asbestos waste removed from the project site shall be transported directly to the disposal site without any additional waste being added to the container during transport.

ACM removal shall follow procedures defined in section 3.07. K. Waste material shall be placed in properly labeled 6 mil plastic bags or other appropriate containers. The outside of the bags or containers shall be wet wiped and/or HEPA vacuumed in the washroom and shall then be placed in a second bag/container before being transferred to the waste storage container. All transportation of waste bags and containers outside the Work Area shall be in watertight carts. These carts shall be held in the holding area until transfer to the waste container. The carts shall be wet cleaned and/or HEPA vacuumed at least once each day. . Following completion of gross abatement and after all accumulations of asbestos waste materials have been containerized, the following decontamination procedures shall be

- followed 1. All bagged asbestos waste and unnecessary equipment shall be decontaminated and removed from the Work Area. All surfaces in the Work Area shall be wet cleaned. A wet_purpose shop vacuum may be used to pick up excess liquid, and shall be decontaminated prior to removal
- from the Work Area. The Contractor shall then apply a thin coat of encapsulant to all non-removal surfaces covered with plastic in the Work Area. In no event shall encapsulant be applied to any surface that was the subject of removal prior to obtaining satisfactory air monitoring results. Encapsulants shall be pigmented or tinted to provide an indication for
- completeness of coverage. The APM shall determine adequacy of coverage. After the waiting/settling/drying time requirements have elapsed, the Asbestos Project Monitor shall conduct a visual inspection of the Work Area for cleanliness and completion of abatement. The APM shall document the results of the visual inspection in the Project Monitor Log and Contractor's Daily Project Log.
- 4. After satisfactory APM visual inspection, aggressive final clearance air sampling shall then be conducted by the Environmental Consultant. 5. Upon receipt of satisfactory final clearance air sampling results, the tent shall be collapsed into itself, placed in suitable disposal bags, and tranferred through the washroom to the waste decontamination enclosure. Isolation and critical barriers shall then be removed and bagged as asbestos waste followed by satisfactory visual inspections by the project supervisor and the APM for cleanliness.

GLOVEBAG REMOVAL A. Glovebag removals may only be used as specifically permitted by Code Rule 56 or a Site Specific Variance issued by the NYS Department of Labor. Glovebags may only be used on pipe or duct insulation. B. In addition to conformance with applicable regulations and variances, glovebag removals are only permitted to be conducted within tent enclosures complying with these

specifications. C. The Contractor shall restrict access to the immediate area where tent/glovebag removal procedures are taking place using barrier tape and/or construction barriers. Caution

signs shall be posted.

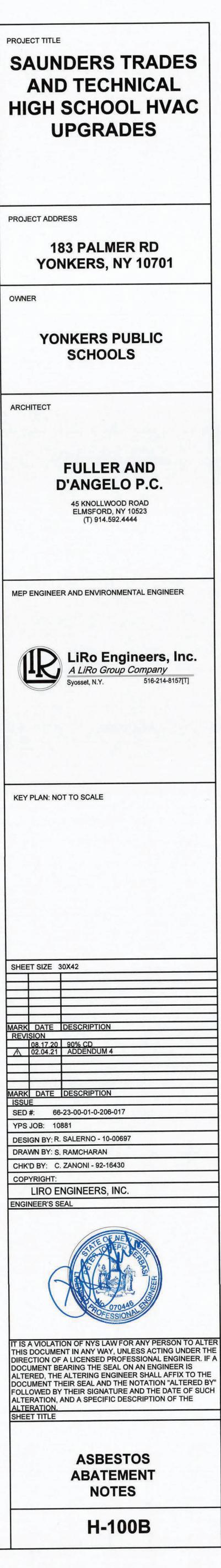
D. Remote personnel decontamination enclosures shall be constructed. Configuration shall be as required by Project size and a washroom with attached airlock shall be constructed contiguous to the tent enclosure. Glovebag removals shall utilize commercially available glovebags of at least six mil thickness. Use shall be in accordance with the manufacturer's instructions and the

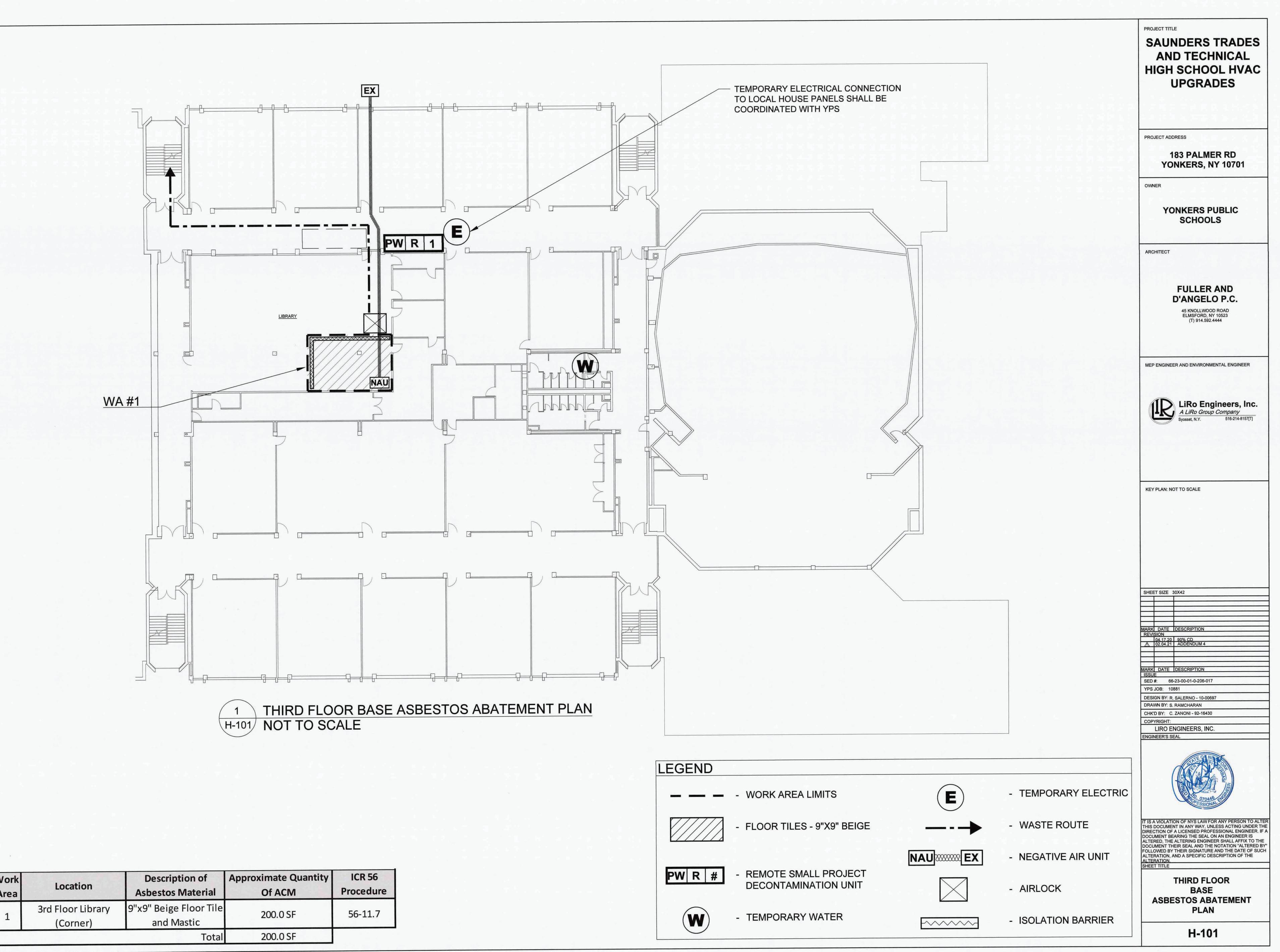
- following minimum requirements: 1. The sides of the glovebag shall be cut to fit the size pipe being removed. Tools shall be inserted into the attached tool pocket.
- 2. The glovebag shall be placed around the pipe and the open edges shall be folded and sealed with staples and duct tape. The glovebag shall also be sealed at the pipe to form a tight seal. . Openings shall be made in the glovebag for the wetting tube and HEPA vacuum hose. The opening shall be sealed to form a tight seal.
- 4. All glovebags shall be smoke tested by the Asbestos Project Monitor under negative pressure using the HEPA vacuum before removal operations commence.
- Glovebags that do not pass the smoke test shall be resealed and then retested. 5. After first wetting the materials to be removed, removal may commence. ACM shall be continuously wetted. After removal of the ACM, the piping shall be scrubbed or
- brushed so that no visible ACM remains. Open ends of pipe insulation shall be encapsulated. 6. After the piping is cleaned, the inside of the glovebag shall be washed down and the wetting tube removed. Using the HEPA vacuum, the glovebag shall be collapsed and then twisted and sealed with tape with the ACM at the bottom of the bag.
- 7. A disposal bag shall be placed around the glovebag that is then detached from the pipe. The disposal bag is then sealed and transferred through the washroom to the

waste storage container. After glovebag removals are complete, tent decontamination procedures shall be followed.

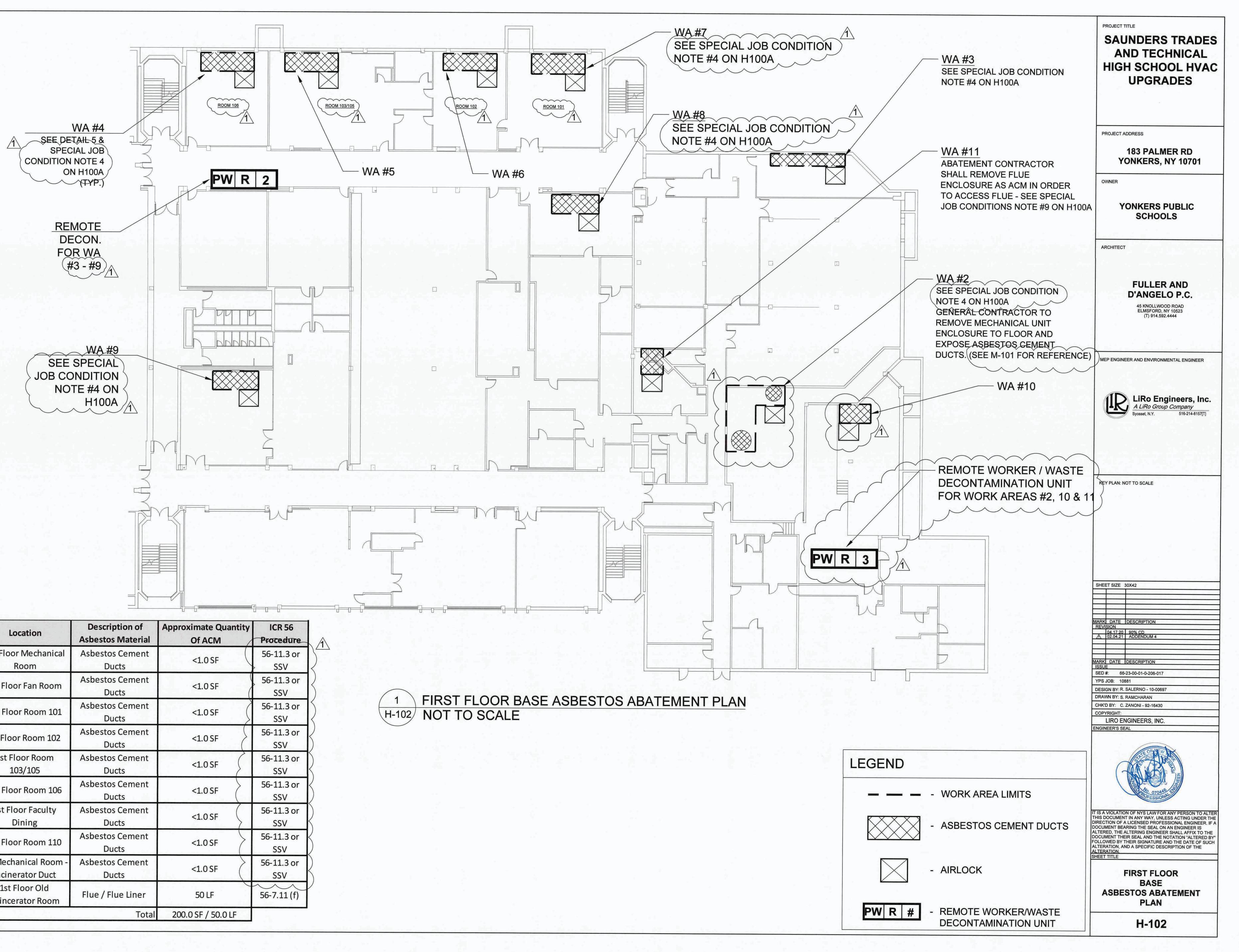
NON-FRIABLE FLOORING AND/OR MASTIC REMOVALS A. The following procedures may only be used for the removal of non-friable flooring and/or mastic materials using manual and chemical methods. These procedures shall not apply to beadblaster use or other abrasive abatement methods. B. The Contractor shall restrict access to the immediate Work Area where non-friable ACM removal procedures are taking place using barrier tape and/or construction barriers.

- Caution signs shall be posted. Remote personnel decontamination enclosures may be utilized and shall be constructed at a location in accordance with the approved Work Plan. A washroom with attached
- airlock shall be constructed contiguous to each Work area enclosure.). The Work Area shall be prepared per section 3.05, except that ceilings, walls, and floors need not be fully plasticized However, a four-foot high single layer of 6-mil fire retardant plastic sheeting shall be installed as a splashguard at all walls adjoining mastic removal portions of the work area, to prevent damage to the existing walls.
- Negative air shall be maintained at six (6) air changes per hour. OSHA compliance air monitoring is required per section 1.09.
- G. ACM removal shall follow procedures defined in section 3.07. H. Waste material shall be placed in properly labeled 6 mil plastic bags or other appropriate containers. The outside of the bags or containers shall be wet wiped and/or HEPA vacuumed in the washroom and double-bagged before being passed into the airlock. The bags or containers shall then be transported to the waste storage container. All transportation of waste bags and containers outside the Work Area shall be in watertight carts.
- Following completion of gross abatement and after all accumulations of asbestos waste materials have been containerized, the following decontamination procedures shall be All bagged asbestos waste and unnecessary equipment shall be decontaminated and removed from the Work Area.
- 2. All plastic sheeting splashguards shall be removed and containerized, followed by all surfaces in the Work Area being wet cleaned. A wet_purpose shop vacuum may be used to pick up excess liquid, and shall be decontaminated prior to removal from the Work Area. The Contractor shall then apply a thin coat of encapsulant to all non-removal surfaces in the Work Area. In no event shall encapsulant be applied to any surface that was the subject of removal prior to obtaining satisfactory air monitoring results. Encapsulants shall be pigmented or tinted to provide an indication for completeness of
- coverage. The APM shall determine adequacy of coverage. After the waiting/settliong/drying time requirements have elapsed, the Asbestos Project Monitor (APM) shall conduct a visual inspection of the Work Area for cleanliness and completion of abatement. The APM shall document the results of the visual inspection in the Project Monitor Log and Contractor's Daily Project Log.
- After satisfactory APM visual inspection, aggressive final clearance air sampling shall then be conducted by the Environmental Consultant. 6. Upon receipt of satisfactory final clearance air sampling results, the isolation and critical barriers shall be removed and bagged as asbestos waste. Following this and
- satisfactory inspections by the project supervisor and the APM for cleanliness the decontamination enclosures shall be removed. **RESTORATION OF UTILITIES, FIRESTOPPING, AND FINISHES** A. After final clearance, remove locks and restore electrical and HVAC systems. All temporary power shall be disconnected, power lockouts removed and power restored. All temporary plumbing shall be removed.
- B. Finishes damaged by asbestos abatement activities including, but not limited to, plaster/paint damage due to duct tape, staples, and spray adhesives, and floor tile lifted due to wet or humid conditions, shall be restored prior to final payment. 1. Finishes unable to be restored shall be replaced under this Contract at the Contractor's expense. 2. All foam and expandable foam products and materials used to seal Work Area openings shall be completely removed upon completion of abatement activities.
- C. All penetrations (including, but not limited to, pipes, ducts, etc.) through fire rated construction shall be firestopped using materials and systems tested in accordance with ASTM E814 on Projects where reinsulation is part of the required work.

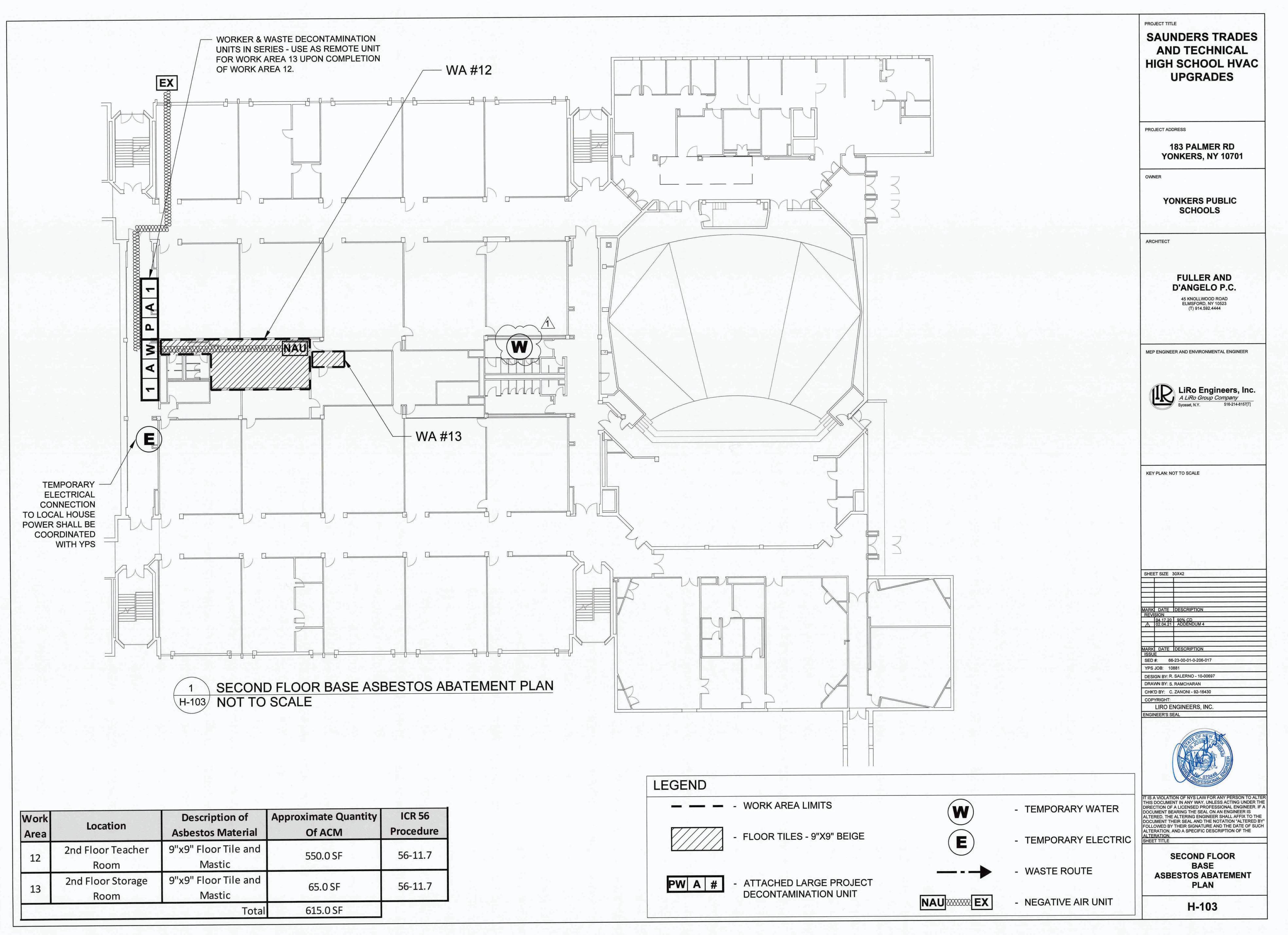




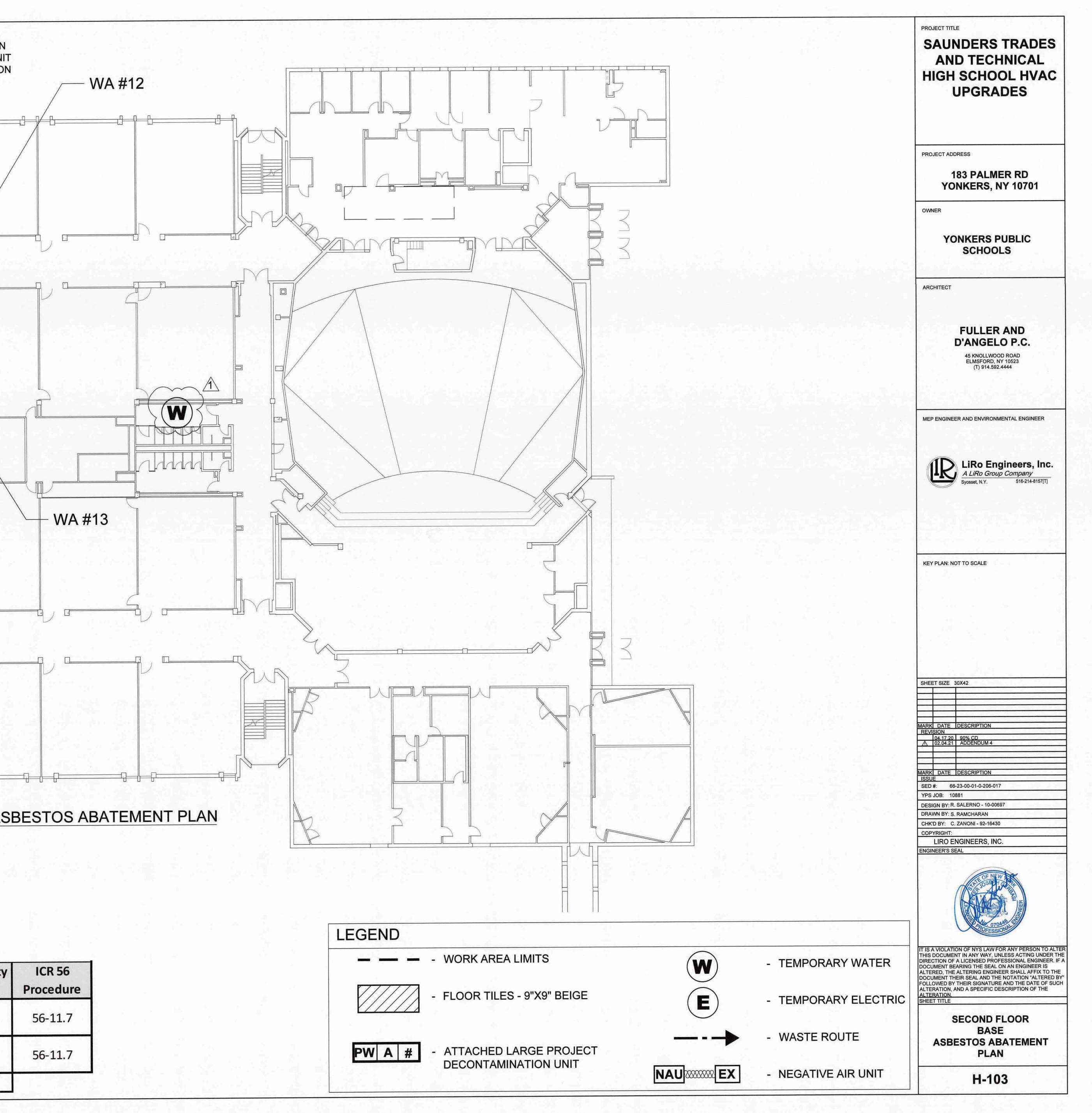
Work Area	Location	Description of Asbestos Material	Approximate Quantity Of ACM	Pre
1	3rd Floor Library (Corner)	9"x9" Beige Floor Tile and Mastic	200.0 SF	5
		Total	200.0 SF	

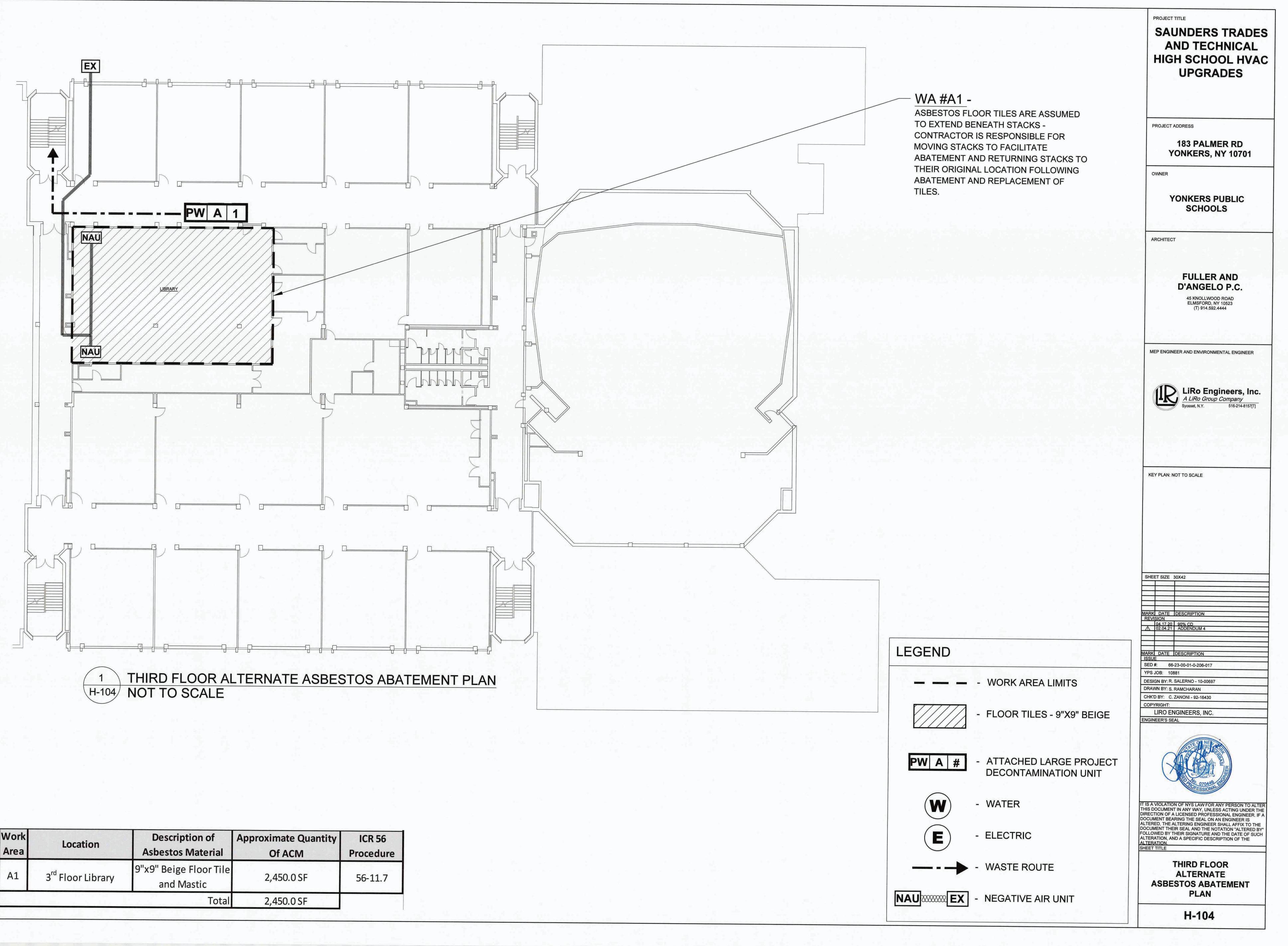


Work Area	Location	Description of Asbestos Material	Approximate Quantity Of ACM	ICR 56 Procedure
2	1st Floor Mechanical Room	Asbestos Cement Ducts	<1.0 SF	56-11.3 or → SSV
3	1st Floor Fan Room	Asbestos Cement Ducts	<1.0 SF	56-11.3 or SSV
4	1st Floor Room 101	Asbestos Cement Ducts	<1.0 SF	56-11.3 or SSV
5	1stFloor Room 102	Asbestos Cement Ducts	<1.0 SF	56-11.3 or SSV
6	1st Floor Room 103/105	Asbestos Cement Ducts	<1.0 SF	56-11.3 or SSV
7	1st Floor Room 106	Asbestos Cement Ducts	<1.0 SF	56-11.3 or SSV
8	1st Floor Faculty Dining	Asbestos Cement Ducts	<1.0 SF	56-11.3 or SSV
9	1st Floor Room 110	Asbestos Cement Ducts	<1.0 SF	56-11.3 or SSV
10	1st Mechanical Room - Incinerator Duct	Asbestos Cement Ducts	<1.0 SF	56-11.3 or SSV
11	1st Floor Old Incincerator Room	Flue / Flue Liner	50 LF	56-7.11 (f)
		Total	200.0 SF / 50.0 LF	



Work Area	Location	Description of Asbestos Material	Approximate Quantity Of ACM
12	2nd Floor Teacher Room	9"x9" Floor Tile and Mastic	550.0 SF
13	2nd Floor Storage Room	9"x9" Floor Tile and Mastic	65.0 SF
		Total	615.0 SF





Work Area	Location	Description of Asbestos Material	Approximate Quantity Of ACM	l(Pro
A1	3 rd Floor Library	9"x9" Beige Floor Tile and Mastic	2,450.0 SF	56
		Total	2,450.0 SF	

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