# SCOPE OF WORK

## Abatement/Lighting State Library

Capitol Complex
Trenton, Mercer County, NJ

## Project No. A1425-00

## STATE OF NEW JERSEY

Honorable Philip D. Murphy, Governor
Honorable Tahesha L. Way, Lt. Governor

## DEPARTMENT OF THE TREASURY

Elizabeth Maher Muoio, Treasurer

## DIVISION OF PROPERTY MANAGEMENT AND CONSTRUCTION

Thomas A. Edenbaum, Director

**Date: October 08, 2025**

*Document Format Revision 8-1-2022*

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# I. OBJECTIVE

The objective of this project is to abate hazardous materials, remove light fixtures, wiring, switches and drop ceilings, and replace with new lighting and ceilings in the reading room on the first floor (Law & References Section) and the whole third floor at the State Library. See **Exhibit 'B'** for the project site location map.

# II. CONSULTANT QUALIFICATIONS

## A. CONSULTANT & SUB-CONSULTANT PRE-QUALIFICATIONS

The Consultant shall be a firm pre-qualified with the Division of Property Management & Construction (DPMC) in the following discipline(s):

- **P001 Architecture**

The Consultant shall also have in-house capabilities or Sub-Consultants pre-qualified with DPMC in:

- **P002 Electrical Engineering**
- **P025 Estimating/ Cost Analysis**
- **P037 Asbestos Design Discipline**
- **P038 Asbestos Safety Control Monitoring**
- **P065 Lead Paint Evaluation/Inspection**

As well as, **any and all** other Architectural, Engineering and Specialty Disciplines necessary to complete the project as described in this Scope of Work (SOW).

# III. PROJECT BUDGET

## A. CONSTRUCTION COST ESTIMATE (CCE)

The initial Construction Cost Estimate (CCE) for this project is $ 2,700,000

The Consultant shall review this Scope of Work and provide a narrative evaluation and analysis of the accuracy of the proposed project CCE in its technical proposal based on its professional experience and opinion.

## B. CURRENT WORKING ESTIMATE (CWE)

The Current Working Estimate (CWE) for this project is $ 3,490,000

The CWE includes the construction cost estimate and all consulting, permitting and administrative fees.

The CWE is the client agency's financial budget based on this project Scope of Work and shall not be exceeded during the design and construction phases of the project unless DPMC approves the change in Scope of Work through a Contract amendment.

## C. CONSULTANT'S FEES

The construction cost estimate for this project ***shall not*** be used as a basis for the Consultant's design and construction administration fees. The Consultant's fees shall be based on the information contained in this Scope of Work document and the observations made and/or the additional information received during the pre-proposal meeting.

# IV. PROJECT SCHEDULE

## A. SCOPE OF WORK DESIGN & CONSTRUCTION SCHEDULE

The following schedule identifies the estimated design and construction phases for this project and the estimated durations.

| PROJECT PHASE | ESTIMATED DURATION (Calendar Days) |
|---|---|
| **1. Site Access Approvals & Schedule Design Kick-off Meeting** | **14** |
| **2. Schematic Design Phase** | **21** |
| • *Project Team & DPMC Plan/Code Unit Review & Comment* | 14 |
| **3. Design Development Phase** | **42** |
| • *Project Team & DPMC Plan/Code Unit Review & Comment* | 14 |
| **4. Final Design Phase** | **42** |
| • *Project Team & DPMC Plan/Code Unit Review & Approval* | 14 |
| **5. Final Design Re-Submission to Address Comments** | **7** |
| • *Project Team & DPMC Plan/Code Unit Review & Approval* | 14 |

| | |
|---|---|
| **6. DCA Submission Plan Review** | **30** |
| **7. Permit Application Phase**<br>• *Issue Plan Release* | **7 (See Note)** |
| **8. Bid Phase** | **42** |
| **9. Award Phase** | **28** |
| **10. Construction Phase** | **120** |
| **11. Project Close Out Phase** | **30** |

**Note:** The Final Design Phase is considered complete upon the release of Construction Documents by either the DPMC Code Group or the Department of Community Affairs (DCA).

## B. CONSULTANT'S PROPOSED DESIGN & CONSTRUCTION SCHEDULE

The Consultant shall submit a project design and construction schedule with its technical proposal that is similar in format and detail to the schedule depicted in **Exhibit 'A'**. The schedule developed by the Consultant shall reflect its recommended project phases, phase activities, activity durations.

A written narrative shall also be included with the technical proposal explaining the schedule submitted and the reasons why and how it can be completed in the time frame proposed by the Consultant.

This schedule and narrative will be reviewed by the Consultant Selection Committee as part of the evaluation process and will be assigned a score commensurate with clarity and comprehensiveness of the submission.

# V. PROJECT SITE LOCATION & TEAM MEMBERS

## A. PROJECT SITE ADDRESS

The location of the project site is:

State Library
185 West State Street
Trenton, NJ 08608

See **Exhibit 'B'** for the project site location map.

## B. PROJECT TEAM MEMBER DIRECTORY

The following are the names, addresses, and phone numbers of the Project Team members.

### 1. DPMC Representative:

Name: Michael Ryan, Project Design Manager
Address: Division of Property Management & Construction
20 West State Street, 3rd Floor
Trenton, NJ 08608-1206
Phone No: (609)-984-5062
E-Mail: Michael.Ryan3@treas.nj.gov

### 2. Client Agency Representative:

Name: Mark Dae, Chief, Property Management
Address: Division Property Management & Construction
20 West State Street, 3rd Floor
Trenton, NJ 08608-1206
Phone No: (609) 984-9711
E-Mail: Mark.Dae@treas.nj.gov

# VI. PROJECT DEFINITION

## A. BACKGROUND

The State Library located at 185 West State Street, Block 17, Lot 5, in Trenton, NJ was built in 1962. The building is owned by the Department of Treasury and is identified as NJ DPMC Building ID 6975.

The State Library envisions a future where all New Jerseyans can access outstanding library services and the information they need to reach their goals.

## B. FUNCTIONAL DESCRIPTION OF THE BUILDING

The State Library building has a total of 5 stories. Two stories (namely a Sub-Basement of approximately 23,350 square feet, & a Basement of approximately 19,185 square feet) are below grade. The Sub-Basement has mechanical equipment space, stack areas and building support space. The Basement has offices, storage and support spaces therein. The building connects to the adjacent subterranean Parking Garage at the Basement level through a pair of fire doors.

The First Floor is accessed at grade through vestibules on both sides of a linear lobby that bisects the building in an East/West direction. This is the primary public access for pedestrians from the grounds of the Capital Complex. This floor has some offices and support spaces as well as the toilet and elevator core, but the majority of the area is the public Reading Room and the Archives Exhibits.

The Second and Third Floors are a combination of staff/support spaces and areas accessed by the public for specialized research, examination of books and electronic media.

The 1st (Law & References Section) and 3rd floors of the NJ State Library, require asbestos abatement above the original ceiling. The electrical wiring for interior lighting has an asbestos coating and the lighting ballast are original to the building and contain PCBs. The lighting cannot be upgraded to LED due to the fact that they are contaminated. They cannot be repaired either. Thus, several locations throughout the library do not have adequate lighting. This lack of lighting creates a health and safety issue and the unions have already been notified by employees on site. See **Exhibits 'D' & 'E'** for environmental studies by Environmental Connection, Inc. Note that Level 5 in **Exhibit 'D'** is the third floor.

# VII. CONSULTANT DESIGN RESPONSIBILITIES

## A. DESIGN REQUIREMENTS

The Consultant shall review the report by Environmental Connection Inc., shown in **Exhibit 'D'** and provide design, specification, bid/award and construction administration services to abate asbestos and remove lighting ballast which contain PCBs in the Reading Area on the first floor and the whole third floor with the exception of the Meeting Room, including:

1. Asbestos in accordance with N.J.A.C. 5:23-8, Asbestos Hazard Abatement Sub-code.

2. Lead in accordance with N.J.A.C. 5:17, Lead Hazard Evaluation and Abatement Code.

3. PCB's in accordance with 40 CFR 761, Polychlorinated Biphenyls (PCBs) Manufacturing, Processing, Distribution in Commerce, and Use Prohibitions. Consultant shall engage a firm certified in the testing and analysis of materials containing PCB's.

Based on the Hazardous Materials Survey Report, Consultant shall provide Construction Documents, Construction Monitoring and Administration Services for all hazardous material abatement in accordance with the applicable code, subcode and Federal regulations.

There shall be no "mark-up" of subconsultant or subcontractor fees if subconsultants or subcontractors are engaged to perform any of the work. All costs associated with managing, coordinating, observing and administrating subconsultants and subcontractors performing

hazardous materials analysis, and hazardous materials construction administration services shall be included in the consultant's lump sum fee proposal.

## B. CEILING AND LIGHTING REPLACEMENT

The Consultant shall provide the design, specification, bid/award and construction administration services to replace all the ceiling, light fixtures, wiring and light ballasts in the Reading Area on the first floor and the whole third floor with the exception of the Meeting Room.

Electrical drawings shall include all supply service equipment, lighting, power, communications, fire alarm, security, and specialized systems. Riser diagrams, showing service equipment, feeders and panels, branch circuits must be shown. Wire sizes, switch and panel schedules shall be provided. Location, capacity, space requirements of all major items or equipment must be indicated.

Lighting features must indicated typical lighting arrangements, types of fixtures, proposed light intensities, emergency and egress lighting. All lighting specified shall be energy efficient and have occupancy sensors where applicable.

## C. DESIGN MEETINGS & PRESENTATIONS

### 1. Design Meetings

Conduct the appropriate number of review meetings with the Project Team members during each design phase of the project so they may determine if the project meets their requirements, question any aspect of the contract deliverables, and make changes where appropriate. The Consultant shall describe the philosophy and process used in the development of the design criteria and the various alternatives considered to meet the project objectives. Selected studies, sketches, cost estimates, schedules, and other relevant information shall be presented to support the design solutions proposed. Special considerations shall also be addressed such as: Contractor site access limitations, utility shutdowns and switchover coordination, phased construction and schedule requirements, security restrictions, available swing space, material and equipment delivery dates, etc.

It shall also be the responsibility of the Consultant to arrange and require all critical Sub-Consultants to be in attendance at the design review meetings.

Record the minutes of each design meeting and distribute within three (3) calendar days to all attendees and those persons specified to be on the distribution list by the Project Manager.

### 2. Design Presentations

The minimum number of design presentations required for each phase of this project is identified below for reference:

Schematic Phase: One (1) oral presentation at phase completion.

Design Development Phase: One (1) oral presentation at phase completion.

Final Design Phase: One (1) oral presentation at phase completion.

## D. EXISTING DOCUMENTATION

Copies of the following documents will be provided to each Consulting firm at the pre-proposal meeting to assist in the bidding process.

- (Cultural Center, 09-1968, and by Charles E. Reid – Library Consultant)
- (E0141-00: Renovations To New Jersey State Library, 11-01-1988, and by Herbert S. Newman Associates AIA, PC.)
- (A0907-00: State Library Roof Replacement, 12-14-2004, and by ARMM Associates, Inc.)
- (A1026-00: State Library Façade Stabilization And Joint Sealant Replacement, 11-16-2006, and by Ronald A. Sebring, Architect)
- (A1185-00 – T01: State Library Final Assessment Report, 02-29-2016, and by USA Architects Planners + Interior Designers)

Review these documents and any additional information that may be provided at a later date such as reports, studies, surveys, equipment manuals, as-built drawings, etc. The State does not attest to the accuracy of the information provided and accepts no responsibility for the consequences of errors by the use of any information and material contained in the documentation provided. It shall be the responsibility of the Consultant to verify the contents and assume full responsibility for any determination or conclusion drawn from the material used. If the information provided is insufficient, the Consultant shall take the appropriate actions necessary to obtain the additional information required.

All original documentation shall be returned to the provider at the completion of the project.

# VIII. PERMITS & APPROVALS

## A. NJ UNIFORM CONSTRUCTION CODE PLAN REVIEW AND PERMIT

The project construction documents must comply with the latest adopted edition of the NJ Uniform Construction Code (NJUCC).

The latest NJUCC Adopted Codes and Standards can be found at:

https://www.nj.gov/dca/codes/codreg/ucc.shtml

### 1. NJUCC Plan Review

Consultant shall estimate the cost of the NJUCC Plan Review by DCA and include that amount in their fee proposal line item entitled **"Plan Review and Permit Fee Allowance,"** refer to paragraph X.A.

Upon approval of the Final Design Phase Submission by DPMC, the Consultant shall submit the construction documents to the DCA, Bureau of Construction Project Review to secure a complete plan release.

As of July 25, 2022, the DCA is only accepting digital signatures and seals issued from a third party certificate authority.

Procedures for submission to the DCA Plan Review Unit can be found at:

https://www.nj.gov/dca/codes/forms/pdf_bcpr/pr_app_guide.pdf

Consultant shall complete the "Project Review Application" and include the following on Block 5 as the "Owner's Designated Agent Name":

Trevor M. Dittmar, DPMC
PO Box 235
Trenton, NJ 08625-0235
Trevor.Dittmar@treas.nj.gov 609-984-5529

The Consultant shall complete the NJUCC "Plan Review Fee Schedule," determine the fee due and pay the NJUCC Plan Review fees, refer to Paragraph X.A.

The NJUCC "Plan Review Fee Schedule" can be found at:

https://www.nj.gov/dca/codes/forms/pdf_bcpr/pr_fees.pdf

## 2. NJUCC Permit

Upon receipt of a complete plan release from the DCA Bureau of Construction Project Review, the Consultant shall complete the NJUCC permit application and all applicable technical sub-code sections. The "Agent Section" of the application and certification section of the building sub-code section shall be signed. These documents, with **six (6) sets of DCA approved, signed and sealed construction documents** shall be forwarded to the DPMC Project Manager.

The Consultant may obtain copies of all NJUCC permit applications at the following website:

https://www.nj.gov/dca/codes/resources/constructionpermitforms.shtml

All other required project permits shall be obtained and paid for by the Consultant in accordance with the procedures described in Paragraph VIII.B.

## 3. Prior Approval Certification Letters

The issuance of a construction permit for this project may be contingent upon acquiring various "prior approvals" as defined by N.J.A.C. 5:23-1.4. It is the Consultant's responsibility to determine which prior approvals, if any, are required. The Consultant shall submit a general certification letter to the DPMC Plan & Code Review Unit Manager during the Permit Phase of this project that certifies all required prior approvals have been obtained.

In addition to the general certification letter discussed above, the following specific prior approval certification letters, where applicable, shall be submitted by the Consultant to the DPMC Plan & Code Review Unit Manager: Soil Erosion & Sediment Control; Water & Sewer Treatment Works Approval; Coastal Areas Facilities Review; Compliance of Underground Storage Tank Systems with N.J.A.C. 7:14B; Pinelands Commission, Highlands Council; Well Construction and Maintenance; Sealing of Abandoned Wells with N.J.A.C. 7:9D; Certification that all utilities have been disconnected from structures to be demolished; Board of Health Approval for Potable Water Wells; and, Health Department Approval for Septic Systems. It shall be noted that in accordance with N.J.A.C. 5:23-2.15(a)5, a permit cannot be issued until the letter(s) of certification is received.

## 4. Multi-building or Multi-site Permits

A project that involves many buildings and/or sites requires that a separate permit shall be issued for each building or site. The Consultant must determine the construction cost estimate for *each* building and/or site location and submit that amount where indicated on the permit application.

### 5. Special Inspections

In accordance with the requirements of the NJUCC N.J.A.C. 5:23-2.20(b), Bulletin 03-5 and Chapter 17 of the International Building Code, the Consultant shall be responsible for the coordination of all special inspections during the construction phase of the project.

Bulletin 03-5 can be found at:

https://www.nj.gov/dca/codes/publications/pdf_bulletins/b_03_5.pdf

#### a. Definition

Special inspections are defined as an independent verification by a certified special inspector for **Class I buildings and smoke control systems in any class building**. The special inspector is to be independent from the Contractor and responsible to the Consultant so that there is no possible conflict of interest.

Special inspectors shall be certified in accordance with the requirements in the NJUCC.

#### b. Responsibilities

The Consultant shall submit with the permit application, a list of special inspections and the agencies or special inspectors that will be responsible to carry out the inspections required for the project. The list shall be a separate document, on letter head, signed and sealed.

## B. OTHER REGULATORY AGENCY PERMITS, CERTIFICATES AND APPROVALS

The Consultant shall identify and obtain all other State Regulatory Agency permits, certificates, and approvals that will govern and affect the work described in this Scope of Work. An itemized list of these permits, certificates, and approvals shall be included with the Consultant's Technical Proposal and the total amount of the application fees should be entered in the Fee Proposal line item entitled, **"Plan Review and Permit Fee Allowance."**

The Consultant may refer to the DPMC "Procedures for Architects and Engineers Manual", Paragraph "**9. REGULATORY AGENCY APPROVALS"** which presents a compendium of State permits, certificates, and approvals that may be required for this project.

The Consultant shall determine the appropriate phase of the project to submit the permit application(s) in order to meet the approved project milestone dates.

Where reference to an established industry standard is made, it shall be understood to mean the most recent edition of the standard unless otherwise noted. If an industry standard is found to be

revoked, or should the standard have undergone substantial change or revision from the time that the Scope of Work was developed, the Consultant shall comply with the most recent edition of the standard.

# IX. ENERGY REBATE AND INCENTIVE PROGRAMS

The Consultant shall review any and all programs on the State and Federal level to determine if any proposed upgrades to the mechanical and/or electrical equipment and systems for this project qualify for approved rebates and incentives.

The Consultant shall review the programs available on the "New Jersey's Clean Energy Program" website at: http://www.njcleanenergy.com as well as federal websites and New Jersey electric and gas utility websites to determine if and how they can be applied to this project.

The Consultant shall identify all applicable rebates and incentives in their technical proposal and throughout the design phase.

The Consultant shall be responsible to complete the appropriate registration forms and applications, provide any applicable worksheets, manufacturer's specification sheets, calculations, attend meetings, and participate in all activities with designated representatives of the programs and utility companies to obtain the entitled financial incentives and rebates for this project.

All costs associated with this work shall be estimated by the Consultant and the amount included in the base bid of its fee proposal.

# X. ALLOWANCES

## A. PLAN REVIEW AND PERMIT FEE ALLOWANCE

The Consultant shall obtain and pay for all of the project permits in accordance with the guidelines identified below.

### 1. Permits

The Consultant shall determine the various permits, certificates, and approvals required to complete this project.

## 2. Permit Costs

The Consultant shall estimate the application fee costs for all of the required project permits, certificates, and approvals (excluding the NJUCC permit) and include that amount in its fee proposal line item entitled **"Plan Review and Permit Fee Allowance."** A breakdown of each permit and application fee shall be attached to the fee proposal for reference.

**NOTE:** The NJUCC permit is excluded since it will be paid for by the State.

## 3. Applications

The Consultant shall complete and submit all permit applications to the appropriate permitting authorities and the costs shall be paid from the Consultant's permit fee allowance. A copy of the application(s) and the original permit(s) obtained by the Consultant shall be given to the DPMC Project Manager for distribution during construction.

## 4. Consultant Fee

The Consultant shall determine what is required to complete and submit the permit applications, obtain supporting documentation, attend meetings, etc., and include the total cost in the base bid of its fee proposal under the "Permit Phase" column.

Any funds remaining in the permit allowance will be returned to the State at the close of the project.

# XI. SOW SIGNATURE APPROVAL SHEET

This Scope of Work shall not be considered a valid document unless all signatures appear in each designated area below.

The client agency approval signature on this page indicates that they have reviewed the design criteria and construction schedule described in this project Scope of Work (including the subsequent contract deliverables and exhibits) and verifies that the work will not conflict with the existing or future construction activities of other projects at the site.

**SOW PREPARED BY:** Cecile Guirguis 10-08-2025
CECILE GUIRGUIS, PROJECT MANAGER DATE
DPMC PROJECT PLANNING & INITIATION

**SOW APPROVED BY:** James Wright 10/8/2025
JAMES WRIGHT, MANAGER DATE
DPMC PROJECT PLANNING & INITIATION

**SOW APPROVED BY:** MMD 10-27-25
MARK DAE, CHIEF, PROPERTY MANAGEMENT DATE
CLIENT AGENCY REPRESENTATIVE

**SOW APPROVED BY:** Michael Ryan 10-28-2025
MICHAEL J RYAN, PROJECT MANAGER DATE
DPMC PROJECT MANAGEMENT GROUP

**SOW APPROVED BY:** Jeanette M Barnard 11.10.25
JEANETTE M. BARNARD, DEPUTY DIRECTOR DATE
DIV PROPERTY MGT & CONSTRUCTION

# XII. CONTRACT DELIVERABLES

The following are checklists listing the Contract Deliverables that are required at the completion of each phase of this project. The Consultant shall refer to the DPMC publication entitled "Procedures for Architects and Engineers," 3.0 Edition, dated September 2022 available at https://www.nj.gov/treasury/dpmc/Assets/Files/ProceduresforArchitectsandEngineers.pdf for a detailed description of the deliverables required for each submission item listed. References to the applicable paragraphs of the "Procedures for Architects and Engineers" are provided.

Note that the Deliverables Checklist may include submission items that are "S.O.W. Specific Requirements." These requirements will be defined in the project specific scope of work and included on the deliverables checklist.

This project includes the following phases with the deliverables noted as "Required by S.O.W" on the Deliverables Checklist:

- **SCHEMATIC DESIGN PHASE;**
- **DESIGN DEVELOPMENT PHASE;**
- **FINAL DESIGN PHASE;**
- **PERMIT APPLICATION PHASE;**
- **BIDDING AND CONTRACT AWARD;**
- **CONSTRUCTION PHASE; and,**
- **PROJECT CLOSE-OUT PHASE.**

# XIII. EXHIBITS

**A. SAMPLE PROJECT SCHEDULE FORMAT**
**B. PROJECT SITE LOCATION MAP**
**C. PHOTOS**
**D. THIRD FLOOR STUDY**
**E. FIRST FLOOR STUDY**

**END OF SCOPE OF WORK**

# Deliverables Checklist
# Schematic Design Phase

**A/E Name:** _____

| A/E Manual Reference | Submission Item | Required by S.O.W. | | Previously Submitted | | Enclosed | |
|---|---|---|---|---|---|---|---|
| | | Yes | No | Yes | No | Yes | No |
| 13.4.1. | A/E Statement of Site Visit | | | | | | |
| 13.4.2. | Narrative Description of Project | | | | | | |
| 13.4.3. | Building Code Information Questionnaire | | | | | | |
| 13.4.4. | Space Analysis | | | | | | |
| 13.4.5. | Special Features | | | | | | |
| 13.4.6. | Catalog Cuts | | | | | | |
| 13.4.7. | Site Evaluation | | | | | | |
| 13.4.8. | Subsurface Investigation | | | | | | |
| 13.4.9. | Surveys | | | | | | |
| 13.4.10. | Arts Inclusion | | | | | | |
| 13.4.11. | Design Rendering | | | | | | |
| 13.4.12. | Regulatory Approvals | | | | | | |
| 13.4.13. | Utility Availability | | | | | | |
| 13.4.14. | Drawings (6 Sets) | | | | | | |
| 13.4.15. | Specifications (6 Sets) | | | | | | |
| 13.4.16. | Current Working Estimate/Cost Analysis in CSI Format | | | | | | |
| 13.4.17. | Project Schedule | | | | | | |
| 13.4.18. | Formal Presentation | | | | | | |
| 13.4.19. | Scope of Work Compliance Statement | | | | | | |
| 13.4.20. | Schematic Design Phase Deliverables Checklist | | | | | | |
| **S.O.W. Reference** | **S.O.W. Specific Requirements** | | | | | | |
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This checklist shall be completed by the Design Consultant and included as the cover sheet of this submission to document to the DPMC the status of all the deliverables required by the project specific Scope of Work.

_____ _____

Consultant Signature Date

**DPMC Project No.:** A1425-00

# Deliverables Checklist
# Design Development Phase

**A/E Name:** _____

| A/E Manual Reference | Submission Item | Required by S.O.W. | | Previously Submitted | | Enclosed | |
|---|---|---|---|---|---|---|---|
| | | Yes | No | Yes | No | Yes | No |
| 14.4.1. | A/E Statement of Site Visit | | | | | | |
| 14.4.2. | Narrative Description of Project | | | | | | |
| 14.4.3. | Building Code Information Questionnaire | | | | | | |
| 14.4.4. | Space Analysis | | | | | | |
| 14.4.5. | Special Features | | | | | | |
| 14.4.6. | Catalog Cuts | | | | | | |
| 14.4.7. | Site Evaluation | | | | | | |
| 14.4.8. | Subsurface Investigation | | | | | | |
| 14.4.9. | Surveys | | | | | | |
| 14.4.10. | Arts Inclusion | | | | | | |
| 14.4.11. | Design Rendering | | | | | | |
| 14.4.12. | Regulatory Approvals | | | | | | |
| 14.4.13. | Utility Availability | | | | | | |
| 14.4.14. | Drawings (6 Sets) | | | | | | |
| 14.4.15. | Specifications (6 Sets) | | | | | | |
| 14.4.16. | Current Working Estimate/Cost Analysis in CSI Format | | | | | | |
| 14.4.17. | Project Schedule | | | | | | |
| 14.4.18. | Formal Presentation | | | | | | |
| 14.4.19. | Plan Review/Scope of Work Compliance Statement | | | | | | |
| 14.4.20. | Design development Phase Deliverables Checklist | | | | | | |
| **S.O.W. Reference** | **S.O.W. Specific Requirements** | | | | | | |
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This checklist shall be completed by the Design Consultant and included as the cover sheet of this submission to document to the DPMC the status of all the deliverables required by the project specific Scope of Work.

_____ _____

Consultant Signature Date

**DPMC Project No.:** A1425-00

# Deliverables Checklist
# Final Design Phase

**A/E Name:** _____

| A/E Manual Reference | Submission Item | Required by S.O.W. | | Previously Submitted | | Enclosed | |
|---|---|---|---|---|---|---|---|
| | | Yes | No | Yes | No | Yes | No |
| 15.4.1. | A/E Statement of Site Visit | | | | | | |
| 15.4.2. | Narrative Description of Project | | | | | | |
| 15.4.3. | Building Code Information Questionnaire | | | | | | |
| 15.4.4. | Space Analysis | | | | | | |
| 15.4.5. | Special Features | | | | | | |
| 15.4.6. | Catalog Cuts | | | | | | |
| 15.4.7. | Site Evaluation | | | | | | |
| 15.4.8. | Subsurface Investigation | | | | | | |
| 15.4.9. | Surveys | | | | | | |
| 15.4.10. | Arts Inclusion | | | | | | |
| 15.4.11. | Design Rendering | | | | | | |
| 15.4.12. | Regulatory Approvals | | | | | | |
| 15.4.13. | Utility Availability | | | | | | |
| 15.4.14. | Drawings (6 Sets) | | | | | | |
| 15.4.15. | Specifications (6 Sets) | | | | | | |
| 15.4.16. | Current Working Estimate/Cost Analysis in CSI Format | | | | | | |
| 15.4.17. | Project Schedule | | | | | | |
| 15.4.18. | Formal Presentation | | | | | | |
| 15.4.19. | Plan Review/Scope of Work Compliance Statement | | | | | | |
| 15.4.20. | Final Design Phase Deliverables Checklist | | | | | | |
| **S.O.W. Reference** | **S.O.W. Specific Requirements** | | | | | | |
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This checklist shall be completed by the Design Consultant and included as the cover sheet of this submission to document to the DPMC the status of all the deliverables required by the project specific Scope of Work.

_____ _____

Consultant Signature Date

**DPMC Project No.:** A1425-00

# Deliverables Checklist
# Permit Application Phase

**A/E Name:** _____

| A/E Manual Reference | Submission Item | Required by S.O.W. | | Previously Submitted | | Enclosed | |
|---|---|---|---|---|---|---|---|
| | | Yes | No | Yes | No | Yes | No |
| 16.1. | N.J. UCC Permit Application | | | | | | |
| 16.4. | Drawings, Signed and Sealed (6 Sets) | | | | | | |
| 16.5. | Specifications, Signed and Sealed (6 Sets) | | | | | | |
| 16.6. | Current Working Estimate/Cost Analysis in CI Format | | | | | | |
| 16.7. | Project Schedule | | | | | | |
| 16.8. | Plan Review/Scope of Work Compliance Statement | | | | | | |
| 16.9. | Permit Application Phase Deliverables Checklist | | | | | | |
| **S.O.W. Reference** | **S.O.W. Specific Requirements** | | | | | | |
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This checklist shall be completed by the Design Consultant and included as the cover sheet of this submission to document to the DPMC Project Manager the status of all the deliverables required by the project specific Scope of Work.

_____ _____

Consultant Signature Date

# Deliverables Checklist
# Bidding and Contract Award Phase

**A/E Name:** _____

| A/E Manual Reference | Submission Item | Required by S.O.W. | | Previously Submitted | | Enclosed | |
|---|---|---|---|---|---|---|---|
| | | Yes | No | Yes | No | Yes | No |
| 17.1.1. | Notice of Advertising | | | | | | |
| 17.1.2. | Bid Proposal Form | | | | | | |
| 17.1.3. | Bid Clearance Form | | | | | | |
| 17.1.4. | Drawings (6 Sets) | | | | | | |
| 17.1.5. | Specifications (6 Sets) | | | | | | |
| 17.1.6. | Construction Schedule | | | | | | |
| 17.3 | Pre-Bid Conference/Mandatory Site Visit | | | | | | |
| 17.3.1. | Meeting Minutes | | | | | | |
| 17.4 | Bulletins | | | | | | |
| 17.5 | Post Bid Meeting | | | | | | |
| 17.6. | Contract Award "Letter of Recommendation" | | | | | | |
| 17.8. | Bid Protests - Hearings | | | | | | |
| 17.9. | Bidding and Contract Award Phase Deliverables Checklist | | | | | | |
| **S.O.W. Reference** | **S.O.W. Specific Requirements** | | | | | | |
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_____ _____

Consultant Signature Date

# Deliverables Checklist
# Construction Phase

**A/E Name:** _____

| A/E Manual Reference | Submission Item | Required by S.O.W. | | Previously Submitted | | Enclosed | |
|---|---|---|---|---|---|---|---|
| | | Yes | No | Yes | No | Yes | No |
| 18.2. | Pre-Construction Meeting | | | | | | |
| 18.3. | Submittal Log | | | | | | |
| 18.4. | Construction Schedule | | | | | | |
| 18.5. | Project Progress Meetings | | | | | | |
| 18.7. | Contractor's Invoicing and Payment Process | | | | | | |
| 18.8. | Contractor Submittals | | | | | | |
| 18.10. | Testing | | | | | | |
| 18.11. | Shop Drawings (6 Sets) | | | | | | |
| 18.12. | As-Built & Record Set Drawings (6 Sets) | | | | | | |
| 18.13. | Change Orders | | | | | | |
| 18.14. | Construction Photographs | | | | | | |
| 18.15. | Field Observations | | | | | | |
| 18.17. | Construction Phase Deliverables Checklist | | | | | | |
| **S.O.W. Reference** | **S.O.W. Specific Requirements** | | | | | | |
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_____ _____

Consultant Signature Date

**DPMC Project No.:** A1425-00

# Deliverables Checklist
# Project Close-Out Phase

**A/E Name:** _____

| A/E Manual Reference | Submission Item | Required by S.O.W. | | Previously Submitted | | Enclosed | |
|---|---|---|---|---|---|---|---|
| | | Yes | No | Yes | No | Yes | No |
| 19.3. | Development of Punch List and Inspection Reports | | | | | | |
| 19.5. | Determination of Substantial Completion | | | | | | |
| 19.6. | Correction/Completion of Punch List | | | | | | |
| 19.7. | Submission of Close-Out Documentation | | | | | | |
| 19.7.1. | As-Built and Record Sets of Drawing (6 Sets) | | | | | | |
| 19.8. | Final Payment | | | | | | |
| 19.9.1. | Contractors Final Payment | | | | | | |
| 19.9.2. | A/E's Final Payment | | | | | | |
| 19.10. | Project Close-Out Phase Deliverables Checklist | | | | | | |
| **S.O.W. Reference** | **S.O.W. Specific Requirements** | | | | | | |
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This checklist shall be completed by the Design Consultant and included as the cover sheet of this submission to document to the DPMC the status of all the deliverables required by the project specific Scope of Work.

_____ _____

Consultant Signature Date

February 7, 1997
**Rev.**: January 29, 2002

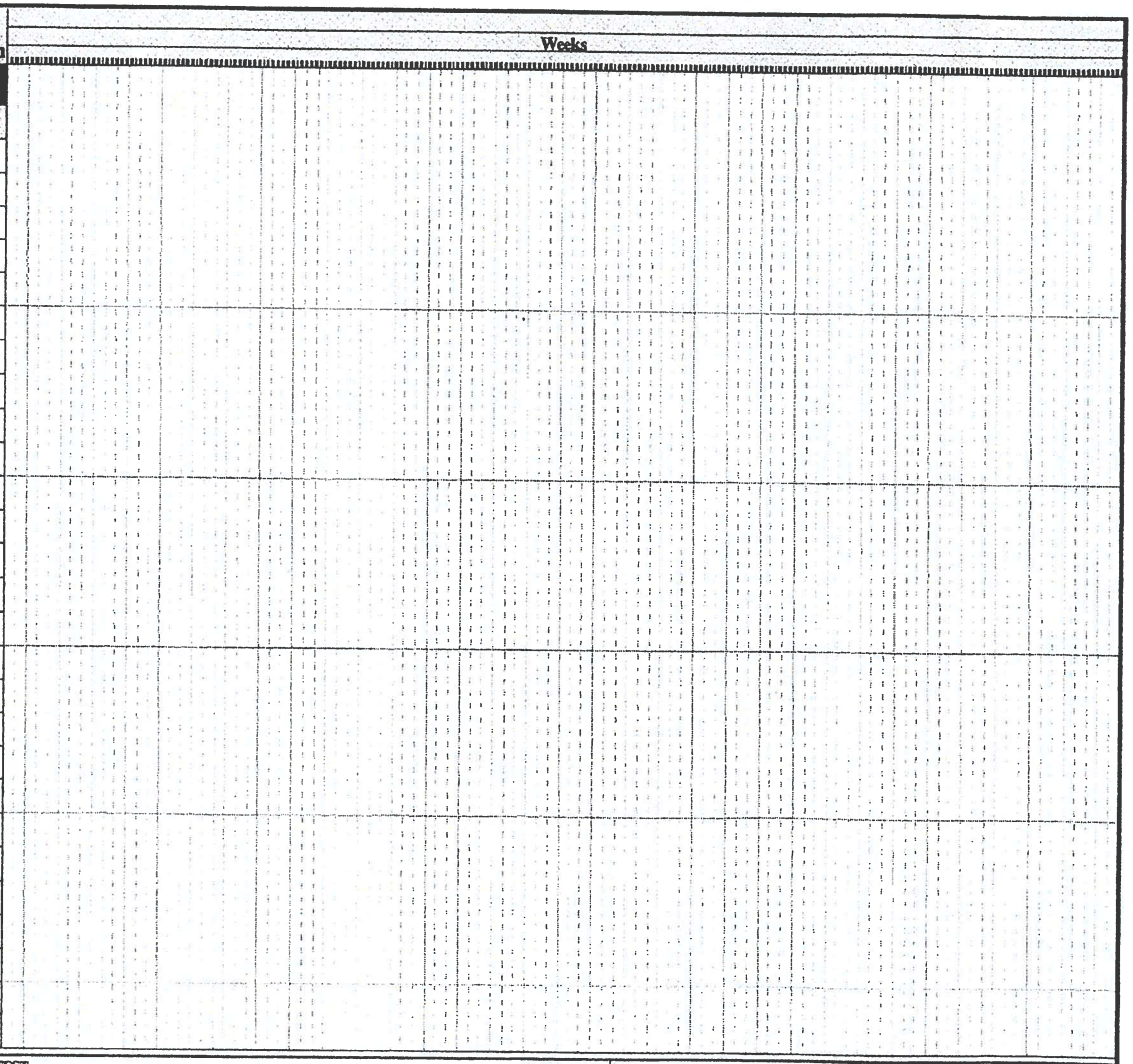
## Responsible Group Code Table

The codes below are used in the schedule field "GRP" that identifies the group responsible for the activity. The table consists of groups in the Division of Property Management & Construction (DPMC), as well as groups outside of the DPMC that have responsibility for specific activities on a project that could delay the project if not completed in the time specified. For reporting purposes, the groups within the DPMC have been defined to the supervisory level of management (i.e., third level of management, the level below the Associate Director) to identify the "functional group" responsible for the activity.

| CODE | DESCRIPTION | REPORTS TO ASSOCIATE DIRECTOR OF: |
|---|---|---|
| CM | Contract Management Group | Contract Management |
| CA | Client Agency | N/A |
| CSP | Consultant Selection and Prequalification Group | Technical Services |
| A/E | Architect/Engineer | N/A |
| PR | Plan Review Group | Technical Services |
| CP | Construction Procurement | Planning & Administration |
| CON | Construction Contractor | N/A |
| FM | Financial Management Group | Planning & Administration |
| OEU | Office of Energy and Utility Management | N/A |
| PD | Project Development Group | Planning & Administration |

# EXHIBIT 'A'

| Activity ID | Description | Rspn |
|---|---|---|
| <PROJ> | | |
| *Design* | | |
| CV3001 | Schedule/Conduct Predesign/Project Kick-Off Mtg. | CM |
| CV3020 | Prepare Program Phase Submittal | AE |
| CV3021 | Distribute Program Submittal for Review | CM |
| CV3027 | Prepare & Submit Project Cost Analysis (DPMC-38) | CM |
| CV3022 | Review & Approve Program Submittal | CA |
| CV3023 | Review & Approve Program Submittal | PR |
| CV3024 | Review & Approve Program Submittal | CM |
| CV3025 | Consolidate & Return Program Submittal Comments | CM |
| CV3030 | Prepare Schematic Phase Submittal | AE |
| CV3031 | Distribute Schematic Submittal for Review | CM |
| CV3037 | Prepare & Submit Project Cost Analysis (DPMC-38) | CM |
| CV3032 | Review & Approve Schematic Submittal | CA |
| CV3033 | Review & Approve Schematic Submittal | PR |
| CV3034 | Review & Approve Schematic Submittal | CM |
| CV3035 | Consolidate & Return Schematic Submittal Comment | CM |
| CV3040 | Prepare Design Development Phase Submittal | AE |
| CV3041 | Distribute D. D. Submittal for Review | CM |
| CV3047 | Prepare & Submit Project Cost Analysis (DPMC-38) | CM |
| CV3042 | Review & Approve Design Development Submittal | CA |
| CV3043 | Review & Approve Design Development Submittal | PR |
| CV3044 | Review & Approve Design Development Submittal | CM |
| CV3045 | Consolidate & Return D.D. Submittal Comments | CM |
| CV3050 | Prepare Final Design Phase Submittal | AE |
| CV3051 | Distribute Final Design Submittal for Review | CM |
| CV3052 | Review & Approve Final Design Submittal | CA |
| CV3053 | Review & Approve Final Design Submittal | PR |
| CV3054 | Review Final Design Submitl for Constructability | OCS |




**NOTE:**
**Refer to section "IV Project Schedule" of the Scope of Work for contract phase durations.**



DBCA - TEST

Sheet 1 of 3

**Bureau of Design & Construction Services**

# EXHIBIT 'A'

| Activity ID | Description | Rspn | Weeks |
|---|---|---|---|
| CV3055 | Review & Approve Final Design Submittal | CM | |
| CV3056 | Consolidate & Return Final Design Comments | CM | |
| CV3060 | Prepare & Submit Permit Application Documents | AE | |
| CV3068 | Prepare & Submit Bidding Cost Analysis (DPMC-38) | CM | |
| ***Plan Review-Permit Acquisition*** | | | |
| CV4001 | Review Constr. Documents & Secure UCC Permit | PR | |
| CV4010 | Provide Funding for Construction Contracts | CA | |
| CV4020 | Secure Bid Clearance | CM | |
| ***Advertise-Bid-Award*** | | | |
| CV5001 | Advertise Project & Bid Construction Contracts | CP | |
| CV5010 | Open Construction Bids | CP | |
| CV5011 | Evaluate Bids & Prep. Recommendation for Award | CM | |
| CV5012 | Evaluate Bids & Prep. Recommendation for Award | AE | |
| CV5014 | Complete Recommendation for Award | CP | |
| CV5020 | Award Construction Contracts/Issue NTP | CP | |
| ***Construction*** | | | |
| CV6000 | Project Construction Start/Issue NTP | CM | |
| CV6001 | Contract Start/Contract Work (25%) Complete | CON | |
| CV6002 | Preconstruction Meeting | CM | |
| CV6003 | Begin Preconstruction Submittals | CON | |
| CV6004 | Longest Lead Procurement Item Ordered | CON | |
| CV6005 | Lead Time for Longest Lead Procurement Item | CON | |
| CV6006 | Prepare & Submit Shop Drawings | CON | |
| CV6007 | Complete Construction Submittals | CON | |
| CV6011 | Roughing Work Start | CON | |
| CV6012 | Perform Roughing Work | CON | |
| CV6010 | Contract Work (50%+) Complete | CON | |
| CV6013 | Longest Lead Procurement Item Delivered | CON | |
| CV6020 | Contract Work (75%) Complete | CON | |

**NOTE:**
**Refer to section "IV Project Schedule" of the Scope of Work for contract phase durations.**



DBCA - TEST

Sheet 2 of 3

**Bureau of Design & Construction Services**

# EXHIBIT 'A'

| Activity ID | Description | Rspn | Weeks |
|---|---|---|---|
| CV6014 | Roughing Work Complete | CON | |
| CV6021 | Interior Finishes Start | CON | |
| CV6022 | Install Interior Finishes | CON | |
| CV6030 | Contract Work to Substantial Completion | CON | |
| CV6031 | Substantial Completion Declared | CM | |
| CV6075 | Complete Deferred Punch List/Seasonal Activities | CON | |
| CV6079 | Project Construction Complete | CM | |
| CV6080 | Close Out Construction Contracts | CM | |
| CV6089 | Construction Contracts Complete | CM | |
| CV6090 | Close Out A/E Contract | CM | |
| CV6092 | Project Completion Declared | CM | |

**NOTE:**
**Refer to section "IV Project Schedule" of the Scope of Work for contract phase durations.**

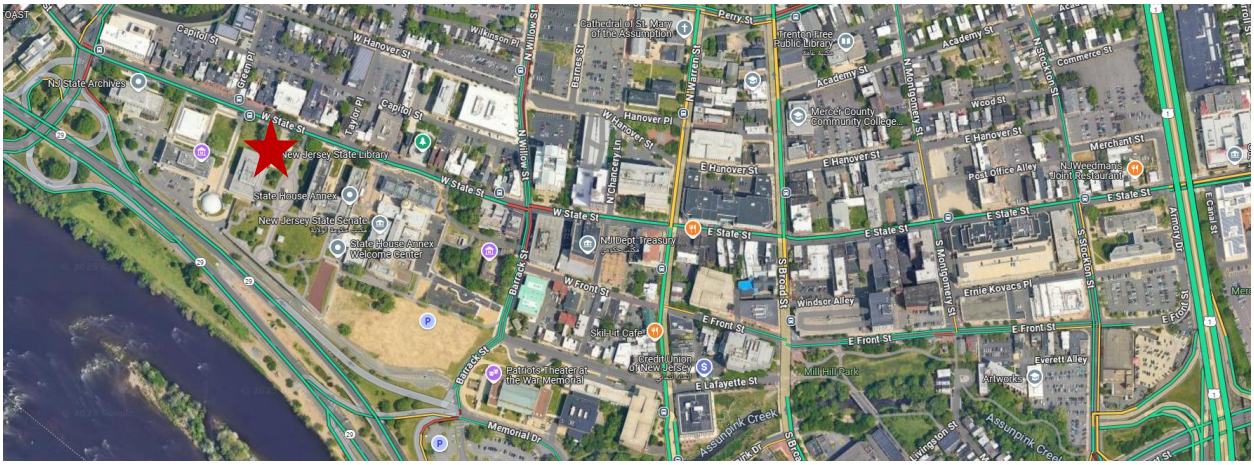


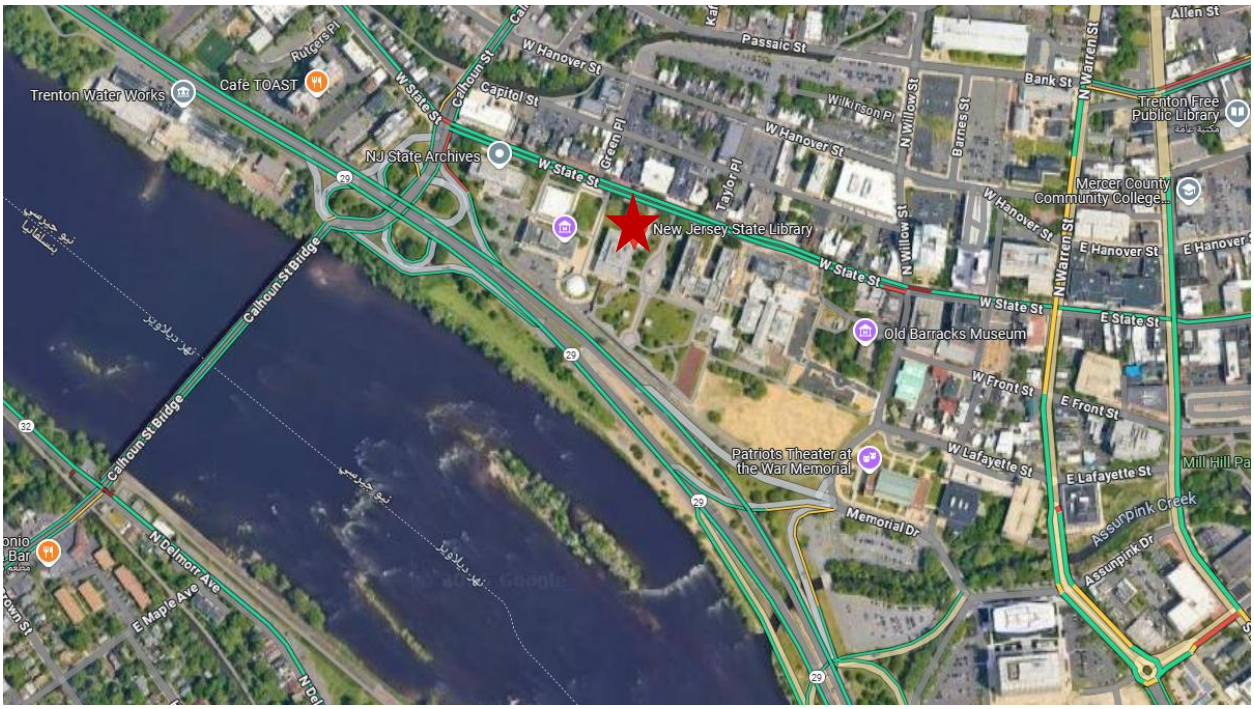
DBCA - TEST

Sheet 3 of 3

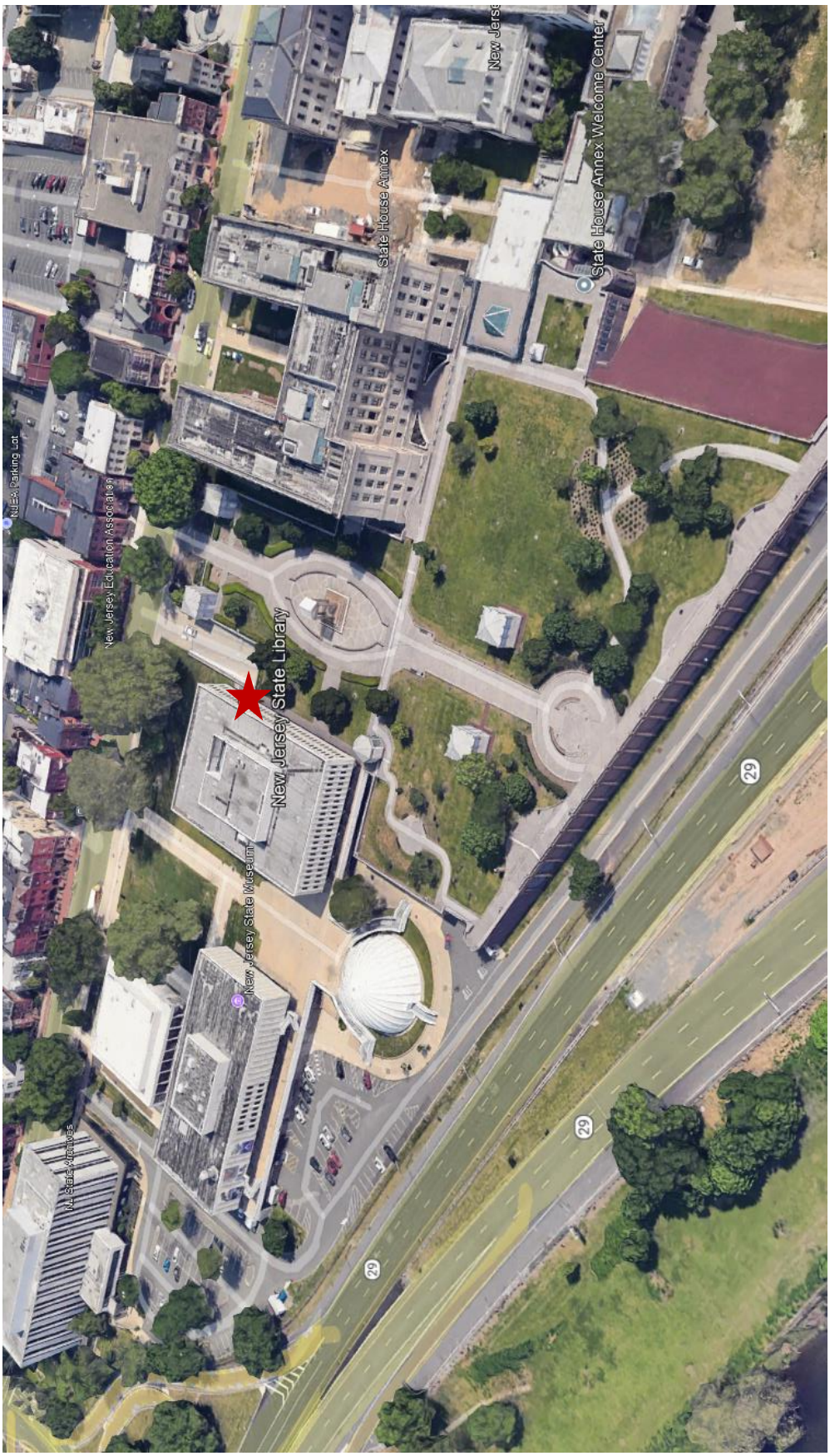
**Bureau of Design & Construction Services**

# EXHIBIT 'A'


NJ State Archives
W State St
New Jersey State Library
State House Annex
New Jersey State Senate
State House Annex Welcome Center
Capitol St
W Hanover St
Wilkinson Pl
N Willow St
Barnes St
Cathedral of St. Mary of the Assumption
Perry St
Trenton Free Public Library
Academy St
Mercer County Community College
N Montgomery St
N Stockton St
Commerce St
Wood St
E Hanover St
Merchant St
Post Office Alley
NJ Weedmaps Joint Restaurant
E State St
Armory Dr
E Canal St
Green Pl
Taylor Pl
N Chancery Ln
N Warren St
NJ Dept. Treasury
S Broad St
S Montgomery St
S Stockton St
Ernie Kovacs Pl
Windsor Alley
W Front St
E Front St
Barrack St
Skit-Lit Cafe
Credit Union of New Jersey
Patriots Theater at the War Memorial
E Lafayette St
Mill Hill Park
Artworks
Everett Alley
Memorial Dr
Assunpink Creek
Hungerford St


Trenton Water Works
Cafe TOAST
Rutgers Pl
W State St
Calhoun St
Capitol St
W Hanover St
Passaic St
Allen St
Bank St
N Warren St
Trenton Free Public Library
NJ State Archives
Green Pl
Taylor Pl
Wilkinson Pl
N Willow St
Barnes St
New Jersey State Library
Mercer County Community College
E Hanover St
E State St
Old Barracks Museum
W Front St
E Front St
Calhoun St Bridge
Patriots Theater at the War Memorial
W Lafayette St
E Lafayette St
Memorial Dr
Assunpink Creek
Assunpink Dr
N Delmorr Ave
E Maple Ave

# EXHIBIT 'B'


New Jersey State Library
New Jersey State Museum
State House Annex
State House Annex Welcome Center
New Jersey Education Association
NJEA Parking Lot
NJ State Archives
29
29
29

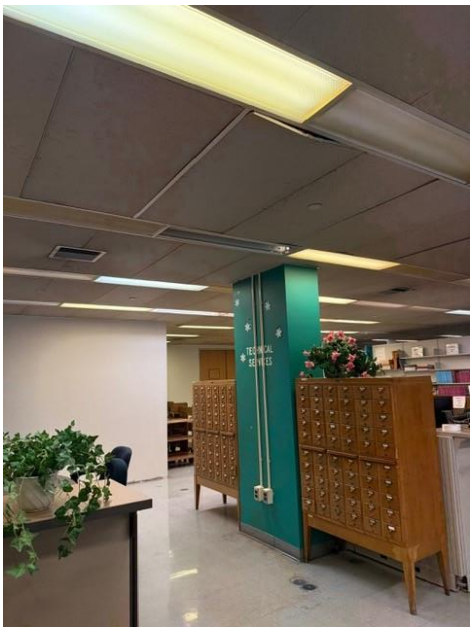
# EXHIBIT 'B'


# ENTRANCE LEVEL

# EXHIBIT 'C'

# ENTRANCE LEVEL

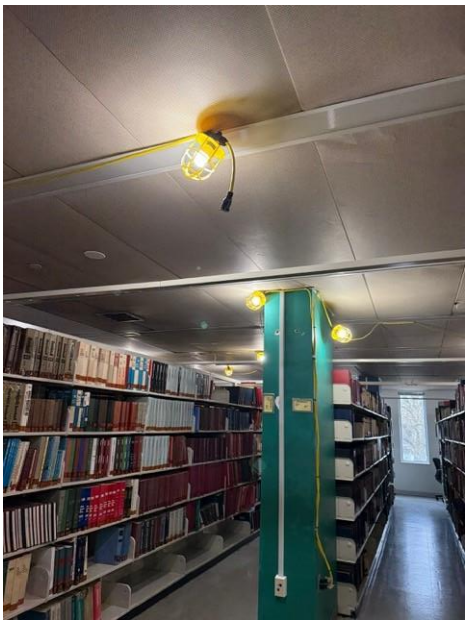

# EXHIBIT 'C'



# THIRD LEVEL

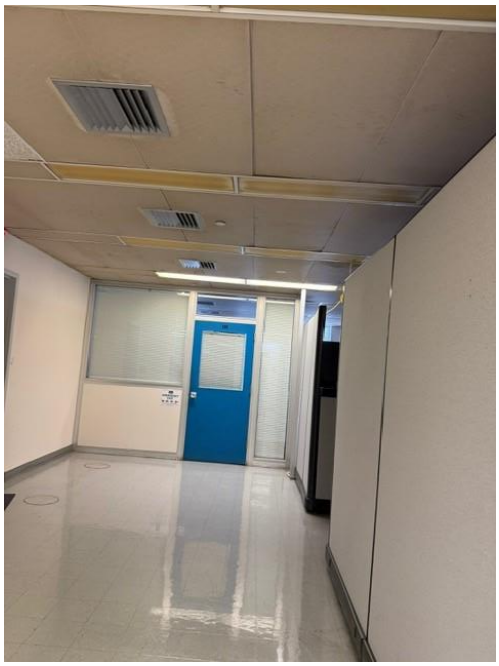
# EXHIBIT 'C'

# THIRD LEVEL



# EXHIBIT 'C'

# THIRD LEVEL



# EXHIBIT 'C'

ENVIRONMENTAL CONNECTION INC
A Vertical Technologies Corporation

# TECHNICAL SPECIFICATIONS

**Asbestos**
**Polychlorinated Biphenyls Ballasts and Mercury**
**Fluorescent Light Removal and Disposal**

New Jersey State Library
Level 5
185 West State Street
Trenton, New Jersey 08608

***Prepared For:***

State of New Jersey
Department of Treasury
Division of Property Management and Construction
PO Box 034
Trenton, NJ 08625-0034

***Prepared By:***

Environmental Connection, Inc.
120 North Warren Street
Trenton, New Jersey 08608

EC Project #: 22268-01

September 15, 2022



# EXHIBIT 'D'

**TABLE OF CONTENTS**



**ATTACHMENTS**:

**ATTACHMENT 1 – REMEDIATION PLANS**

**ATTACHMENT 2 - REVISED NOTIFICATION OF PROTECTION AND POLICIES ON DPMC CONSTRUCTION PROJECTS EFFECTIVE JUNE 28, 2021**





# EXHIBIT 'D'

**PROJECT DIRECTORY**

| | |
|---|---|
| Client/Owner: | State of New Jersey<br>Department of Treasury<br>Division of Property Management and Construction<br>PO Box 034<br>Trenton, NJ 08625-034 |
| Client/Owner Contact: | Georgette E. Bunch, Environmental Scientist 1<br>Telephone: 609-633-2127<br>Facsimile: (609) 292-6869<br>Email: Georgette.Bunch@treas.nj.gov |
| Facility: | New Jersey State Library<br>185 West State Street<br>Trenton, New Jersey 08608 |
| Environmental Consulting Firm/<br>Owner's Representative | Environmental Connection, Inc.<br>120 North Warren Street<br>Trenton, New Jersey 08608<br>Telephone: 609-392-4200<br>Telefax: 609-392-1216 |
| Project Contact/Designer: | Mr. Jordan Reed, CIH<br>Asbestos Project Designer<br>Certification # ACC-0822-10-001<br>Expires: August 5, 2023 |





# EXHIBIT 'D'

## SECTION 1.0 GENERAL REQUIREMENTS

1.1 General Conditions

The General Conditions of this Contract is the State of New Jersey Department of Treasury, Division of Property Management and Construction General Conditions, Revised December 2015: which Document is hereby specifically made a part of the Contract Documents with the same force and effect as though set forth in full herein. A copy of the General Conditions is available for inspection at the office of Environmental Connection, Inc., (EC).

1.2 Contract Documents

Contract Drawings and all general and specific provisions of the Contract Documents, including General and Supplementary Conditions, all Addenda and Modifications thereto, and all government regulations and industry standards included or incorporated by reference herein, shall apply to work described herein.

Except to the extent that more explicit or more stringent requirements are written directly into the Contract Documents, all applicable codes, regulations, and standards listed herein have the same force and effect (and are made a part of the Contract Documents by reference) as if copied directly and bound herewith.

When submitting a proposal, the Contractor shall give written notice to the Owner of any item in violation of laws, ordinances, rules, or regulations of all authorities having jurisdiction, and notice of any necessary items omitted. If no such notice is received, it will be assumed that the Contractor accepts the adequacy and legality of the Contract Documents, has included the cost of all items in its proposal, and shall be responsible for satisfactory operation and approval of the work without additional compensation.

Any plans, reports, written instruction, or verbal instructions are for reference purposes only. PRIOR TO SUBMITTING A PROPOSAL, THE CONTRACTOR SHALL INSPECT AND VERIFY EXISTING SITE CONDITIONS AND THE EXTENT OF THIS PROJECT, INCLUDING TYPE AND QUANTITIES OF MATERIALS TO BE REMOVED AND/OR REPLACED, AND ANY SPECIAL DIFFICULTIES ASSOCIATED WITH THIS PROJECT. It is the Contractor's responsibility to review the written Technical Specifications in conjunction with the Contract Drawings, where applicable, and to visit and inspect the job site as necessary to provide an accurate bid proposal to the Owner. No subsequent extras, change orders, or compensation shall be provided for failure of the Contractor to evaluate the total extent of the Project or for errors or omissions in Contract Documents.

All documents prepared by Environmental Connection, Inc., (EC) including any attachments, may contain information that is privileged and confidential, and is exclusively generated for the sole and intended use of the recipient(s). EC's Instruments of Service, including Contract Drawings, Technical Specifications and other documents prepared by EC, are for the sole use of this Project, and unless otherwise provided, EC shall be deemed the Author and Owner of these documents and shall retain all common law, statutory and other reserved rights, including copyrights.

EC shall not be liable for the acts, errors or omissions of the Owner and/or the Owner's Representatives, Vendors, Agents or other entities performing any of the work relative to this Project/Assignment. Should the Owner, and/or the Owner's other Representatives, Vendors, Agents or other entities performing any of the work fail to substantially prevail in any lawsuit brought against EC, EC shall be entitled to recover its reasonable attorneys' fees and other costs, in the court of appropriate jurisdiction.

1.3 Ordinances and Permits

The Contractor shall give the proper authorities all requisite notices for information relating to the work, pay all fees, and obtain all permits, licenses and certificates where required. The Contractor shall comply with Underwriter's rules; federal, state, and local codes, and with all ordinances and laws pertaining to this work.





# EXHIBIT 'D'

1.4 The Owner's Representative

Environmental Connection, Inc., (EC) shall represent the Owner in all matters pertaining to the work performed pursuant to these Technical Specifications.

EC will provide an Industrial Hygiene Technician (IHT), to conduct visual inspections, and environmental air monitoring during the project. The IHT shall have the authority to oversee and inspect all work, interpret and direct the Contractor in matters pertaining to compliance with the Technical Specifications, and stop all work in the event of substantial or continued non-compliance with the Contract Documents or applicable regulations. The Owner will be notified immediately if work is stopped.

Contract compliance is the responsibility of the Contractor. The IHT shall not be responsible for the Contractor's obligations under local, state, or federal law to provide safe working conditions for its workers. The Contractor shall cooperate fully with the IHT in all matters pertaining to compliance with these Technical Specifications and shall ensure the cooperation of its workers.

1.5 Environmental Remediation Contractor

Wherever the word "Contractor" is used herein, it shall mean the Asbestos Abatement Contractor. The Contractor and all workers performing asbestos abatement or repair work on this Project shall maintain at all time throughout the duration of the Contract valid licenses, permitted by the State of New Jersey, Department of Labor and Workforce Development for this discipline. The Contractor shall be qualified for said discipline with the State of New Jersey, Department of Treasury, Division of Property Management and Construction (DPMC).

The Contractor shall have a Project supervisor present at all times while work on this Contract is in progress. The Project supervisor shall be qualified, as a minimum, to act as a "competent person" within the meaning of 29 CFR, Part 1926.1101(o), and shall assume those duties throughout the project.

The Project supervisor shall be thoroughly familiar and experienced with asbestos abatement and repair and shall be familiar with and enforce the use of all safety procedures and equipment. The Project supervisor shall also be knowledgeable and enforce all applicable United States Environmental Protection Agency (USEPA); United States Department of Labor, Occupational Safety and Health Administration (OSHA), National Institute of Occupational Safety and Health (NIOSH), and all other federal regulations and state requirements and guidelines.

The Project supervisor shall keep the Contractor's Project log book up to date, ensure that all work criteria is carried out in the proper sequence, and document the progress of the work. The Contractor shall perform all record keeping required by state and federal regulations and these Technical Specifications.

1.6 Coordination of Building Use

The Contractor shall conform to all operations, health and safety, or security guidelines enforced by the Client and the Facility. This shall include participation in awareness or site-specific safety training, security registration/sign in procedures/ID badges or permits and parking/motor vehicle guidelines.

The Contractor shall have control of work areas and restricted areas during the project, as designated in the Contract Documents and/or delineated in the field. The Contractor shall limit the use of the premises to the above referenced areas and to direct routes of travel to and from the above areas.

The Contractor shall provide regular maintenance of staging areas, transportation routes, and other premises utilized during the project. Where transportation routes or other areas utilized by the Contractor (other than work areas) may also be utilized by the Owner's/Facility's personnel during the project, the Contractor shall take all steps necessary to ensure that these areas remain clean, free of hazards related to the project, and suitable for passage throughout the duration of the project.





# EXHIBIT 'D'

The Contractor shall leave all areas clean and contaminant free in accordance with these Technical Specifications for other trades, if applicable, to complete renovations associated with the project.

The Contractor shall forward all matters pertaining to this Project to the Owner (State of New Jersey, Department of Property Management and Construction or its Representative, Environmental Connection, Inc.) through the contacts provided within the Project Directory, should they arise. Direct coordination with Site personnel by the Contractor without prior Owner's approval is not authorized.

1.7 Description of the Work

Work shall be performed in accordance with all applicable state and federal regulations pertaining to the removal and disposal of asbestos containing materials.

Representative worker breathing zone air tests, collected and analyzed pursuant to 29 CFR, Part 1926.1101, and 29 CFR, Part 1926.62, shall be taken by the Contractor to determine the effectiveness of engineering controls. The Contractor shall implement corrective action if the Personal Exposure Limit (PEL) over an eight (8) hour Time Weighted Average (TWA), for personal air monitoring, is exceeded.

All work specified herein shall be carried out in a workmanlike and professional manner. The Contractor shall furnish all items and labor as required to complete the Project to the satisfaction of the Owner/Owner's Representative and appropriate regulatory agencies.

The Contractor shall furnish all tools, machinery, scaffolding, transportation, etc., as needed and shall promptly remove all equipment, debris, surplus material, etc., from the site upon completion of the work. Disposal of waste and debris shall be performed in compliance with appropriate federal, state and local regulations.

1.8 Definitions

*Accredited or Accreditation (when referring to a person or laboratory)* means a person or laboratory accredited in accordance with Section 206 of Title II of the Toxic Substance Control Act (TSCA).

*Aggressive Sampling* means a method of final clearance air sampling in which normal building activity is simulated in the work area environment by using mechanical equipment to stir the air during the sampling period.

*Air Sampling* means the process of measuring fiber content of a known volume of air collected during a specific period of time.

*Air Pressure Differential* means the difference in air pressure between two areas, generally caused by exhausting air from a sealed space (work area).

*Asbestos* means a general term used to describe a group of naturally occurring hydrated mineral silicates. The asbestos form varieties include chrysotile (serpentine), crocidolite (riebeckite), and amosite (cummingtonite-grunerite). Asbestos containing material (ACM) means any material containing more than one percent asbestos by weight.

*AFD* means an air differential device equipped with HEPA filtration, utilized to clean the air and establish negative pressure conditions within the containment area.

*Authorized Visitor* means the Owner, the Owner's Representative, testing lab personnel, the Architect/Engineer, emergency personnel or a representative of any federal, state and local regulatory or other agency having authority over the project.

*Certified Industrial Hygienist (C.I.H.)* means an industrial hygienist certified in Comprehensive Practice by the Board for Global EHS Credentialing.





EXHIBIT 'D'

*Contractor* means the Asbestos Abatement Contractor.

*Decontamination Unit* means serial arrangement of rooms or spaces for the purpose of separating the work site from the building environment upon entering the work site and for the cleaning of persons, equipment, and contained waste prior to returning to the clean environment.

*Demolition* means the actual destruction and removal of a building or part of a building, without intent to renovate, repair, or replace.

*Enclosure* means an impermeable barrier (made of wood, metal, etc.) placed around asbestos-containing material.

*Engineering Controls* means all methods used to maintain low work site fiber counts, including air management and barriers to assure public safety.

*Friable* means any material applied to ceilings, walls, piping, duct work, etc. which when dry may be crumbled, pulverized, or reduced to a powder by moderate hand pressure.

*Glove bag* means a plastic bag especially designed to contain sections of pipe for the purpose of removing short lengths of damaged asbestos material without releasing fibers into the air.

*HEPA* means High Efficiency Particulate Absolute filter, capable of a filter efficiency of 99.97 percent down to 0.3 microns (um).

*Industrial Hygiene Technician (IHT)* means a person hired by the Owner to monitor and inspect the asbestos abatement work.

*Lamp*, also referred to as "universal waste lamp," is defined as the bulb or tube portion of an electric lighting device. A lamp is specifically designed to produce radiant energy, most often in the ultraviolet, visible, and infra-red regions of the electromagnetic spectrum. Examples of common universal waste electric lamps include, but are not limited to, fluorescent, high intensity discharge, neon, mercury vapor, high pressure sodium, and metal halide lamps.

*Leak or Leaking* means any instance in which a PCB article, PCB container, or PCB equipment has any PCBs on any portion of its external surface.

*Polychlorinated Biphenyls (PCBs):* PCBs as used in this Technical Specifications Section shall mean the same as PCB, PCB article container, PCB container, PCB equipment, PCB item, PCB transformer, PCB-contaminated electrical equipment, as defined in 40 CFR, Part 761, Section 3, Definitions. PCBs are defined as containing 50 milligrams per Kilogram (mg/Kg) or greater; 50 parts per million (ppm) shall apply.

*Primary Seal/Critical Barrier* means two layers of 6 mil polyethylene sheeting that completely seals off the work area to prevent the distribution of fibers to the surrounding area, such as the opening between the top of a wall and the underside of ceiling construction, electrical outlets, non-removable lights, HVAC systems, windows, doorways, entrance ways, ducts, grills, grates, diffusers, wall clocks, speaker grills, floor drains, sink drains, etc.

*Project* means the work that is specified in the Plans and Technical Specifications.

*Sealant or Encapsulant* means a liquid or solution to be used as a binding agent, such as a diluted encapsulant or a water-based paint, on dried exposed surfaces from which asbestos-containing material has been removed. The color of the coat shall be separate and distinct from the underlying substrate.

*Spill* means intentional and unintentional spills, leaks, and other uncontrolled discharges when the release results in any quantity of PCBs running off or about to run off the external surface of the equipment or other PCB source, as well as the contamination resulting from those releases.





# EXHIBIT 'D'

*Universal Waste* means any of the following hazardous wastes that are managed under the universal waste requirements of 40 CFR, Part 273: 1.) batteries as described in 40 CFR, Part 273.2; 2.) pesticides as described under 40 CFR, Part 273.3; 3.) thermostats as described in 40 CFR, Part 273.4; and 4.) lamps as referenced in 40 CFR, Part 273.5.

*µm* - micrometers.

*Wet Cleaning* means the process of eliminating asbestos contamination from building surfaces and objects by using cloths, mops, or other cleaning utensils which have been dampened with amended water or a removal encapsulant and afterward thoroughly decontaminated or disposed of as asbestos-contaminated waste.

*Work Area* means the area where asbestos-related and PCB work or removal operations are performed which is defined and/or isolated to prevent the spread of PCBs, asbestos dust, fibers or debris, and entry by unauthorized personnel.

## SECTION 2.0 REGULATORY REVIEW AND PRE-CONTRACT DOCUMENTATION

The Contractor shall be familiar with the regulations and guidance documents referenced below, relating to the remediation, disposal and treatment of asbestos containing materials, and submit, where indicated, the required pre-contract documentation.

2.1 Code of Federal Regulations (CFR)

| | |
|---|---|
| 29 CFR, Part 1910.20 | Access to Employee Exposure and Medical Records |
| 29 CFR, Part 1910.134 | Respiratory Protection |
| 29 CFR, Part 1910.145 | Specifications for Accident Prevention Signs and Spill Response |
| 29 CFR, Part 1910.1001 & 29 CFR, Part 1926.1101 | Occupational Exposure to Asbestos; Final Rule |
| 29 CFR, Part 1910.1200 | Hazard Communication |
| 29 CFR, Part 1926.55 | Gases, Vapors, Fumes, Dusts, and Mists |
| 29 CFR, Part 1926.59 | Hazard Communication |
| 29 CFR, Part 1926.103 | Respiratory Protection |
| 40 FR, Part 61 | National Emission Standard for Hazardous Air Pollutants (NESHAP) |
| 40 CFR, Part 171 | Standards for Transportation of Hazardous Materials. |
| 40 CFR, Part 172 | Hazardous Material Tables and Hazardous Materials Communications Regulations. |
| 40 CFR, Part 173 | General Requirements for Shipments and Packaging |
| 40 CFR, Part 178 | Shipping Container Specifications |
| 40 CFR, Part 260 & 40 CFR, Part 261 | Hazardous Waste Management Systems: General |
| 40 FR, Part 263 | Transporters of Hazardous Waste. |
| 40 CFR, Parts 264 & 265 | Owners and Operators of Hazardous Waste Treatment, Storage and Disposal facilities. |
| 40 CFR, Part 763, Sub-part G | Asbestos Abatement Projects; Worker Protection |
| 40 CFR, Part 763, Sub-part E | Asbestos Hazard Emergency Response Act (AHERA) Regulation Asbestos Containing Materials in Schools; Final Rule and Notice |
| 40 CFR, Part 761 | Polychlorinated Biphenyl Manufacturing, Processing, Distribution in Commerce, and Use Prohibitions. |

2.2 New Jersey Administrative Codes (N.J.A.C.)

**Asbestos Licenses and Permits (As Per N.J.A.C. 8:60 and 12:120)**





# EXHIBIT 'D'

State of New Jersey
Department of Labor and Workforce Development
Asbestos Control and Licensing
1 John Fitch Plaza
3rd Floor
Trenton, New Jersey 08625-0949

**Asbestos Training Courses (As Per N.J.A.C. 8:60 and 12:120)**
State of New Jersey
Department of Health and Senior Services
Consumer and Environmental Health Services
P. O. Box 360
Trenton, New Jersey 08625-0360

**Disposal Regulations (As Per N.J.A.C. 7:26)**
State of New Jersey
Department of Environmental Protection
Division of Solid and Hazardous Waste
120 South Stockton Street
Trenton, New Jersey 08625-0410

**N.J.A.C. 12:100-13-New Jersey Indoor Air Quality Standard**
The Contractor shall comply with the New Jersey Public Employee Occupational Safety and Health (PEOSH) program, Indoor Air Quality Standard, N.J.A.C. 12:100-13, which is applicable to the protection of all Trades working in the building for the demolition of the structure, which is a public building/site and it is anticipated that workers and visitors will be on-site during the course of the project.

Standards which apply to PCB remediation related work, waste hauling and disposal:

1. American National Standards Institute (ANSI)
   1430 Broadway
   New York, New York 10018
   (212) 354-3300
2. Compressed Gas Association (CGA): G7.1, American National Standard Commodity Specification for Air.
3. National Institute of Occupational Safety and Health (NIOSH): 30 CFR, Part II.

2.3 Guidance Documents

UNDERWRITERS LABORATORIES (UL) Document 586, "(1996; Rev. thru April 2000) High-Efficiency, Particulate, Air Filter Units."

2.4 Documentation

When requested by the Owner, the Contractor shall furnish proof that employees have had proper training and required refresher courses for asbestos removal from an accredited training program endorsed or conducted by the State of New Jersey, Department of Health. When requested by the Owner, the Contractor shall furnish proof that all workers on the job have completed medical examinations within the last year, as required by OSHA regulation 29 CFR, Part 1926.1101, and shall provide documentation that all workers have been properly "fit tested" and issued appropriate respiratory protection in accordance with 29 CFR, Part 1926.1101. The above documentation shall not be a blanket statement for all workers but shall be specific to each worker on the project.

Upon request, the Contractor shall submit all Product Data Sheets and Safety Data Sheets (SDS) for all materials, chemicals, agents, etc., to be used on the Project prior to commencement.





# EXHIBIT 'D'

Additional documentation to be maintained in view at the job site shall include:

- One (1) copy of each of the federal or state regulations, including but not limited to, each of the regulations cited in 2.1 and 2.2 above;
- A list of emergency telephone numbers for the job site, which include the OSHA monitoring firm employed by the Contractor, the Owner's Representative, police and emergency squad;
- An official copy of the Contractor's Asbestos Abatement License;
- If applicable, a duly executed and approved construction permit for the Project from the authority having jurisdiction;
- Appropriate notifications to all applicable federal and state agencies;
- Work area emergency procedures;
- A daily log of all persons entering the work area, including visitors;
- A daily log including a record of start and stop times for each day, any work area issues encountered and corrective action, and estimated amount of waste generated;
- A copy of daily OSHA monitoring results; and
- A copy of any other record required by federal or state law to be kept in view at the job site.

## SECTION 3.0 SPECIFIC CONDITIONS AND INSTRUCTIONS

### 3.1 Bid Submission Information

Bids will be received by the Owner, the State of New Jersey, Department of Property Management and Construction, (DPMC) no later than the prevailing date and time set forth on the Bid Documents, as prepared by EC. No bid may be withdrawn after the specific opening time and date, and all bids become the property of the State of New Jersey and will not be returned to bidders. Bids received after the due date and time shall not be considered.

Bids shall be addressed and mailed, hand delivered or electronically mailed to:

State of New Jersey
Department of Treasury
Division of Property Management and Construction
PO Box 034
Trenton, NJ 08625-034

Ms. Georgette Bunch – Georgette.Bunch@treas.nj.gov

In the event of tie bids, the Owner shall have the authority to award the Contract to the vendor selected by the Owner, at its sole discretion.

All Contracts entered into with the State of New Jersey are subject to the availability and appropriation of sufficient funds.

Bids are requested based on the items stated in Section 4.0 of the Technical Specifications for the Project. The bid prices shall include all costs of any nature incidental to and growing out of the work. In explanation, but not in limitation thereof, these prices shall include the cost of all work, labor, material, equipment, transportation and all





# EXHIBIT 'D'

else necessary to perform and complete the Project in the manner and within the time required, all incidental expenses in connection therewith, all costs on account of loss by damage or destruction of the Project and any additional expenses for unforeseen difficulties of defective work and materials. Conditions, limitations or provisions attached to the proposal by the bidder may be cause for its rejection. Contractor is to provide bid prices for the "Base Bid" and any "Add/Alternate" prices requested.

Before submitting a proposal, the bidder shall be familiar with the Technical Specifications and other documents that will form parts of the Contract, shall have investigated in detail the site of the Project and shall have made such examination thereof as may be necessary to satisfy themselves that it can secure the necessary labor and equipment and that the materials it proposes to use will comply with the requirements thereof and can be obtained by the Contractor in the quantities and at the time required.

Bidders are cautioned to carefully read the complete set of Technical Specifications and, where applicable, the Contract Drawings, to acquaint itself with any requirements therein necessitating installation work by one Contractor of materials or equipment furnished by another Contractor and required to complete the entire project.

The Project shall be performed in accordance with the requirements of the Technical Specifications, subject to modifications as provided in the General Conditions, as applicable. The Technical Specifications and the Contract Drawings, where applicable, are intended to complement and supplement each other. Any work required by either of them, and not by the other, shall be performed as if denoted in the Technical Specifications or on the Contract Drawings, where applicable, because of an obvious omission, but which is nevertheless necessary for the proper performance of the project. Such work shall be performed as fully as if it were described and delineated.

Each bidder shall inspect the site of the proposed work and fully acquaint itself with the conditions as they exist to fully understand the facilities, difficulties and restrictions attending the execution of the work under this Contract.

Bidders shall also thoroughly examine and be familiar with the Contract Documents. The failure or omission of any bidder to receive or examine any form, instrument, or document, or to visit the site and acquaint themselves with existing conditions shall not relieve any bidder from obligation with respect to their bid. By submitting a bid, the bidder agrees and warrants that they have examined the site, the Contract Drawings, where applicable, and the Technical Specifications, and where the Technical Specifications require in any part of the work, a given result to be produced, that the Technical Specifications and Contract Drawings are adequate and the required result can be produced as specified. No claim for any extra compensation will be allowed due to alleged impossibilities in the production of the results specified, unintentional errors or conflicts between Contract Drawings and Technical Specifications.

3.2 Proposals

Proposals shall be submitted on the appropriate forms.

When the proposal is made by an individual, his/her post office address shall be stated, and he/she shall sign the proposal; when made by a firm or partnership, its name and post office address shall be stated and the proposal shall be signed by one (1) or more of the partners; when made by a corporation, its name and principal post office address shall be stated and the proposals shall be signed by an authorized official of the corporation. Before award is made to a bidder not resident of the State, such bidder shall designate a proper agent in the State on whom service can be made in event of litigation.

3.3 Conditions of Work

Insofar as possible, the Contractor in carrying out the work must employ such methods or means that will not cause any interruption of, or interference with, the work of any other Contractor.

3.4 Statement of Contractor's Qualifications





# EXHIBIT 'D'

Each bid and conformed copy thereof, must be accompanied by a statement of the Contractor's construction experience, and its organization and equipment available for the work contemplated. Such evidence shall be supplied as a copy of state licensure for asbestos abatement work, and a copy of a current DPMC pre-qualification for asbestos abatement. The Owner shall have the right to take such steps as it deems necessary to determine the ability of the Contractor to perform the work and the bidder shall furnish the Owner all such information data for this purpose as the Owner may request. The right is reserved to reject any proposal where an investigation of the available evidence or information does not satisfy the Owner that the bidder is qualified to carry out properly the terms of the Technical Specifications.

3.5 Award of the Contract

The State of New Jersey may reject all bids or may award the Contract to that responsible bidder whose base bid or, where required, add alternate bids, therefore is the lowest. The Owner reserves the right to waive any minor defects or informality in any bid should it be in the best interest of the State of New Jersey. Bids shall be awarded based on the lowest responsive and responsible submission.

The successful Contractor shall be required to furnish a Performance and Payment Bond from an approved surety company. The Performance and Payment Bond shall be equal to the proposal amount.

Award of the Contract is conditioned upon the Owner appropriating sufficient funds to perform the proposed work in a lawful manner.

3.6 New Jersey Wage Requirements

The special attention of bidders is called to the wage requirements established by Chapter 150, Laws of New Jersey, 1963, which statute provided in parts, as follows: "...and provided further, that not less than the prevailing rate of per diem wages in the locality where the work is performed shall be paid to such laborers, or workmen and mechanics so employed by such contractors of sub-contractors by, or on behalf of, any county, city, township or other municipality of said State: and provided wage rate is understood to be the rate paid by the contractors and employers employing a majority of the workers of any craft in the county, city, township or municipality in which the work is being done and as approved by the United States Department of Labor, and provided further, that in case of a dispute as to the prevailing rate of wage, the matter shall be referred to the Commissioner of Labor for determination and the Commissioner's decision thereon shall be conclusive as to the prevailing rate of wage."

No responsibility is assumed by the Owner for the rates which the Contractor must pay at any given time in order to comply with the above quoted law for the reason that under the above quoted law it is the responsibility of the Contractor to pay laborers, workmen, and mechanics not less than the prevailing per diem wages in the locality where the work is performed. Therefore, the Contractor will be required to pay laborers, workmen and mechanics employed in this work not less than the applicable rates as required by State Laws, or the posted rates, whichever rates are higher.

As stated in the above quoted law, in case of a dispute as to the prevailing rate of wage under State Laws, the matter shall be referred to the Commissioner of Labor for determination, and that decision thereof shall be conclusive as to such prevailing rate of wage.

It shall be a responsibility of the Contractor to display in the vicinity of his job site office a schedule showing the prevailing rate of wage for all laborers, workmen and mechanics employed in the work.

In case it may become necessary for the Contractor or any Sub-Contractor to employ on the Project under this Contract any person in a trade or occupation (except executive, supervisory, administrative, clerical, or other non-minimal workers as such), for which no minimum wage rate is given, the Contractor shall immediately notify the Owner who will promptly thereafter furnish the Contractor with the minimum rate. The minimum rate thus furnished shall be applicable as a minimum of such trade or occupation for the time of the initial employment of the person affected and during the continuance of employment.





# EXHIBIT 'D'

Diane B. Allen Equal Pay Act

Pursuant to N.J.S.A. 34:11-56.14(b), any employer, regardless of the location of the employer, who enters into a contract with a public body to perform any public work for the public body shall provide to the Commissioner of the New Jersey Department of Labor and Workforce Development, through certified payroll records required pursuant to P.L.1963, c.150 (C.34:11-56.25 et seq.), information regarding the gender, race, job title, occupational category, and rate of total compensation of every employee of the employer employed in the State in connection with the contract. The employer shall provide the commissioner, throughout the duration of the contract or contracts, with an update to the information whenever payroll records are required to be submitted pursuant to P.L.1963, c.150 (C.34:11-56.25 et seq.).

Information regarding the Diane B. Allen Equal Pay Act and its requirements may be obtained from the New Jersey Department of Labor and Workforce Development (LWD) web site at: https://nj.gov/labor/equalpay/equalpay.html

LWD forms may be obtained from the online web site at: https://nj.gov/labor/forms_pdfs/equalpayact/MW-562withoutfein.pdf

IMPORTANT CONTRACTOR INFORMATION – FEDERAL SYSTEM FOR AWARD MANAGEMENT (SAM REGISTRATION):

Any firm seeking to be awarded a contract must register with the Federal System for Award Management (SAM) prior to contract award. In order to comply with this requirement, firms must register in SAM at http://www.sam.gov. In accordance with N.J.S.A. 52:32-44.1, the firm shall provide a written certification to DPMC that neither the firm nor the firm's affiliates are debarred at the federal level from contracting with a federal government agency.

3.7 Insurance

3.7.1 General

The State of New Jersey, Department of Property Management and Construction, including its Facility, The New Jersey State Library, and Environmental Connection, Inc., shall be named additionally insured.

Before commencing the work, the Contractor shall procure and maintain until completion and final acceptance of the work all insurance requirements and shall cause each Sub-contractor to so procure and maintain the following minimum insurance:

During the progress of the work the Contractor is to assume all risk and to bear all loss occasioned through neglect or accident caused by its personnel and sub-contractor(s), if any. Contractors must be prepared to submit satisfactory proof that it maintains public general and asbestos abatement liability, property damage and workers compensation insurance on an occurrence basis in the type and amounts as follows:

- Public general and asbestos abatement liability with individual limit of $1,000,000.00 and a total limit of $1,000,000.00 for any one accident.
- Contractor's contingent liability insurance and Sub-Contractor's liability insurance, in the same amounts.
- Broad Form property damage in the amount of $1,000,000.00 each accident: $1,000,000.000 aggregate.
- Vehicle liability insurance with a limit of $1,000,000.000 for each person, and a total limit of $1,000,000.00 property damage for each accident. This insurance must include non-owned, hired or rented vehicles as well as owned.





# EXHIBIT 'D'

1. Certificate of Insurance shall be submitted within ten (10) days upon notification of award of Contract.

2. Contractor's liability insurance must be maintained until the final Certificate of Payment is issued.

3. Certificates of Insurance must be submitted on the ACORD form of Certificate of Insurance.

The Contractor may procure whatever additional insurance deemed necessary to protect itself against hazards not covered by the Owner's property insurance including coverage for theft, collapse, water damage, materials and equipment stored on-site, for materials and equipment stored off-site, and against loss of owned or rented equipment and tools owned by mechanics or any tools, equipment, scaffolding, staging, towers and forms owned or rented by the Contractor, the value of which is not included in the cost of the work. Owners "all risk" insurance does not cover theft of material unless installed and made an integral part of the building.

Sub-contractors: The Contractor shall require all of its sub-contractors to provide the aforementioned coverages as well as any other coverage that the Contractor may consider necessary. Any deficiencies in sub-contractors' coverages and policy limits will be the sole responsibility of the Contractor.

3.7.2 Certificates of Insurance

Before commencement of operations, the Contractor shall furnish to the Owner, a Certificate of Insurance evidencing:

- The required coverages and limits written through an insurance company or companies acceptable to the Owner.
- The effective and expiration date of the policies.
- Thirty (30) days written notice of cancellation or material change in any policies.
- That a waiver of subrogation endorsement has been attached to all policies.
- The fact that the Contractor's policies are primary insurance.
- The Contract Number.

3.7.3 Waiver of Subrogation

All insurance policies of the Contractor will be endorsed to waive all right of subrogation against the Owner. The Owner as trustee shall have the power to adjust and settle any loss with the insurers unless one of the parties in interest shall object in writing within five (5) days after the occurrence of the loss to the Owner's exercise of this power. The Owner as trustee shall, in that case, make settlement with insurers. The Owner as trustee shall have power to adjust and settle any loss with the insurers unless one of the parties in interest shall object in writing within five (5) days after the occurrence of loss to the Owner's exercise of this power. The Owner as trustee shall, in that case, make settlement with the insurer.

3.7.4 Cancellation, Reduction or Non-Renewal

If the insurance policies required herein are canceled, or the coverage is reduced below the minimum specified, or expiration without renewal occurs before completion of the work, the Owner, at this option, may obtain the said certificates or policies, and charge the cost against money due the Contractor pursuant to the terms of this Contract.





# EXHIBIT 'D'

**SECTION 4.0 SCOPE OF WORK**

4.1 Base Bid

1. Prior to the commencement of work, the Contractor shall coordinate with the Owner for shutdown of the HVAC system serving the work area and lock out/tag out of the electrical power to the work area. The Contractor shall utilize a licensed electrician to verify and document the lock out/tag out of the electrical systems to the work area.

2. The Contractor shall install temporary lighting in accordance with 29 CFR 1926.405 and 1926.56.

3. All work shall be performed within a negative pressure enclosure, constructed as specified. See abatement plan A-01 for work area extents. Once the enclosure is constructed and negative pressure incorporated, the Contractor shall remove non-asbestos metal and acoustical ceiling tile and associated fiberglass insulation at the perimeters of the enclosure and extend the enclosure to the concrete ceiling deck.

4. The Contractor shall remove approximately 11,000 square feet of metal and non-asbestos acoustical ceiling tile and associated fiberglass insulation.

5. The Contractor shall remove and dispose of all fluorescent light fixtures, bulbs and associated wiring with asbestos containing red and white coatings (estimated quantity of 4,320 linear feet of wire), inclusive of all wire between electrical panel in electrical panel room and light fixtures.

6. The Contractor shall remove and dispose of all fluorescent light ballasts (estimated quantity of 540 ballasts). PCB containing light ballasts were suspected to be used historically and replaced with non-PCB ballasts as needed (estimated quantity of 270 PCB containing light ballasts).

**7.** The quantities shown are for informational purposes only. The Contractor shall inspect and verify all locations, quantities and measurements indicated in Contract Documents prior to bidding. No additional compensation shall be awarded for failure to complete said review or inspection.

4.2 Add Alternate 1

1. Prior to the commencement of work, the Contractor shall coordinate with the Owner for shutdown of the HVAC system serving the work area and lock out/tag out of the electrical power to the work area. The Contractor shall utilize a licensed electrician to verify and document the lock out/tag out of the electrical systems to the work area.

2. The Contractor shall install temporary lighting in accordance with 29 CFR 1926.405 and 1926.56.

3. All work shall be performed within a negative pressure enclosure, constructed as specified. See abatement plan A-02 for work area extents. Once the enclosure is constructed and negative pressure incorporated, the Contractor shall remove non-asbestos metal and acoustical ceiling tile and associated fiberglass insulation at the perimeters of the enclosure and extend the enclosure to the concrete ceiling deck.

4. The Contractor shall remove approximately 11,000 square feet of metal and non-asbestos acoustical ceiling tile and associated fiberglass insulation.

5. The Contractor shall remove and dispose of all fluorescent light fixtures, bulbs and associated wiring with asbestos containing red and white coatings (estimated quantity of 4,320 linear feet).





# EXHIBIT 'D'

6. The Contractor shall remove and dispose of all fluorescent light ballasts (estimated quantity of 540 ballasts). PCB containing light ballasts were suspected to be used historically and replaced with non-PCB ballasts as needed. (estimated quantity of 270 PCB containing light ballasts).

7. The quantities shown are for informational purposes only. The Contractor shall inspect and verify all locations, quantities and measurements indicated in Contract Documents prior to bidding. No additional compensation shall be awarded for failure to complete said review or inspection.

4.3 Schedule

The Contractor shall complete all work referenced under Base Bid within 15, eight (8) hour work shifts and, if awarded, Add Alternate 1 within 15, eight (8) hour work shifts, between the hours of 7:00 a.m. to 4:00 p.m., daily. Work shall commence as soon as possible after a Notice to Proceed is issued by the Owner. No work shall occur on weekends or holidays. Failure for the Contractor to complete the Project in said time period will result in liquidated damages of $500.00 per day, for each day the Project exceeds the completion date. In addition, should final clearance air samples fail for all or any of the phases, the Contractor shall re-clean the work area at no additional cost to the Owner. Additional costs incurred for all re-sampling of the work area shall be the responsibility of the Contractor, at no additional cost to the Owner or its Representative.

4.4 Additional Information

**OCCUPANCY:** The building shall be occupied on levels other than Level 5 during the actual remediation activities. Cooperate fully with the Owner and the Environmental Consulting Firm (EC) during construction operations to minimize conflicts. Perform the work so as not to interfere with the Owner's operations at the site.

The Contractor shall erect work area containment barriers (negative pressure enclosures) to minimize clearance testing collections sites as much as possible.

Electric is available at the Site. The Contractor shall not be allowed to utilize electrical receptacles within the work area. The Contractor must utilize Ground Fault Circuit Interrupters (GFCIs).

Water is available at the Site. The Contractor shall ensure all hoses are drained, disconnected and secured in the Contractor's decontamination unit clean room and/or staging area at the end of each shift.

At the entrance to the work area or in a central remote location, the Contractor shall erect a three-stage decontamination unit, consisting of an equipment room, shower room and clean room, with the equipment room attached to the containment. The chambers shall consist of a clean room, upon entering, a shower room, and an equipment room leading into the work area. The shower room shall have hot/cold water and soap. The decontamination unit shall be of rigid construction and enclosed with two (2) layers of six (6) mil polyethylene sheeting, to minimize any release of dust, particulates, contaminants, etc., during the decontamination process. Entrance flaps for each stage/chamber are to be weighted and installed so that the flaps will close if airflow into the work area is stopped for any reason. Contractor shall establish a three-stage decontamination unit to facilitate the changing in and out of personal protection equipment, and when enroute from the work area to the remote personal decontamination unit.

Negative air filtration devices shall exhaust to the exterior of the building through existing roof hatch.

The Contractor shall protect heat and smoke sensors within the work areas. The Contractor shall coordinate with the Facility for daily access into the building, the shut-down of Heating, Ventilation and Air Conditioning (HVAC) systems within the proposed work areas, de-energization of electrical systems within the work areas, and water/electrical power sources.

The Contractor shall protect and cover all non-moveable items with two (2) layers of six mil polyethylene.





# EXHIBIT 'D'

Protect all data cables, telephone lines, mechanical systems, fiber optic cables, etc., Exercise extreme caution when working around electric, communication, security, phone and other data transmission lines. Costs of repair or replacement of damaged facility components caused by Contractor operations shall be the responsibility of the Contractor. No repair work may be performed by the Contractor on damaged equipment unless authorized by the Owner.

Ingress/egress routes for the Contractor shall be established by the Facility for the building/work area, at the time the Contractor mobilizes to the site. The Contractor shall arrange with the Facility for a location for the temporary storage of equipment/supplies, storage of waste containers, ingress/egress routes, etc., upon the first shift of mobilization to the Site.

All polyethylene sheeting, plywood, caulk, foams, etc. shall be fire-retardant. Duct tape and spray-glue shall be of high quality. Polyethylene sheeting shall be a minimum of six (6) mil thick.

The Contractor shall ensure that there are four (4) air changes per one (1) hour.

## SECTION 5.0 ASBESTOS ABATEMENT AND DISPOSAL

### 5.1 Negative Pressure Enclosures

The disturbance and or removal of identified asbestos containing and/or contaminated materials, shall be accomplished within a negative pressure enclosure. At a minimum, the negative pressure enclosure shall consist of:

1. Two (2) layers of six (6) mil polyethylene sheeting (critical barriers) installed over all openings in the work area(s), such as, but not limited to: windows, doors, ceiling tile systems, ventilation diffusers/registers/grilles, etc.

2. Curtain doorways shall be established at the entrance to the work area(s). These doorways shall consist of overlapping layers of polyethylene sheeting in a "Z-formation." Where the work area entrance is at a critical barrier, a vertical slit, seven (7) feet from the floor, shall be established prior to the installation of the curtain doorway.

Work area negative pressure shall be established, at a minimum, at –0.02 inches of water column. High Efficiency Particulate Air (HEPA) filter equipped negative air filtration devices shall be incorporated in the work area and exhaust to the building via flexible duct work. Sufficient negative air filtration devices shall achieve four (4) air exchanges per hour and a work area pressure differential of –0.02. The Contractor shall demonstrate the minimum air exchanges per hour and work area pressure differential via calculation and manometers, respectively, to Owner's Representative.

Where appropriate, materials shall be adequately wetted with amended water during all phases of removal and immediately placed in appropriate asbestos waste disposal bags. All surfaces in the work area shall be cleaned of debris and dust by a combination of wet-wiping and HEPA vacuuming. A sealant shall be applied to all abated surfaces, where applicable.

Demobilization of work area containment and engineering controls shall not be allowed until acceptable post abatement air sample results are obtained.

### 5.2 Removal and Packaging of Intact Non-Friable Asbestos Containing Materials

Work specified herein is limited to those materials that can be removed intact and in whole sections such as, but not limited to electrical wiring.

Products

- Six (6) mil polyethylene sheeting
- Spray glue
- High quality duct tape
- Garden sprayer
- Amended water
- Asbestos warning signs
- Other equipment deemed necessary by the Contractor, such as man-lifts, pulley systems, fork lifts, etc.

Execution

1. Establish work area engineering controls and containment as indicated in these Technical Specifications.

2. Post appropriate warning signs and/or tape at the entrance to the work area and around the work area boundaries.

3. Mist the material with amended water.

4. Remove fasteners used to secure the non-friable asbestos containing material (ACM) to a substrate without disturbing the ACM.

5. Remove the non-friable ACM in whole sections and lengths to the extent possible and place on two (2) layers of six (6) mil polyethylene sheeting.

6. Package the ACM with the two (2) layers of polyethylene sheeting and seal all seams with spray-glue and duct tape.

7. Place appropriate warning signs and generator labels on the packaged ACM and place in the on-site waste container or Contractor's registered vehicle, in accordance with the requirements set forth in Section 8.0 of this Technical Specifications.

8. Personnel shall decontaminate in accordance with the requirements set forth in this Technical Specifications.

9. Engineering controls shall remain operational until a satisfactory visual inspection, final clearance air samples have been collected and the clearance criteria achieved.

5.3 Work Area(s) Clean Up

First Cleaning: Carry out a first cleaning of all surfaces of the Work Area including items of remaining sheeting, tools, scaffolding and/or staging by use of damp-cleaning and mopping, and/or a High Efficiency Particulate Air (HEPA) Filtered Vacuum. (Note: A HEPA vacuum may fail if used with wet material.) Do not perform dry-dusting or dry sweeping. Use each surface of a cleaning cloth one time only and then dispose of as contaminated waste. Continue this cleaning until there is no visible debris from removed materials or residue on plastic sheeting or other surfaces.

Second Cleaning: Carry out a second cleaning of all surfaces in the work area in the same manner as the first cleaning.

Encapsulation of Exposed Surfaces: Where surfaces have been removed of asbestos containing materials, perform encapsulation of work area surfaces. Apply two (2) individual coats to all exposed surfaces and allow to dry between coats. Assure color is sufficiently distinct to allow for identification of applications.

Final Cleaning: Carry out a Final Cleaning of all surfaces in the Work Area in the same manner as the previous cleaning.

Removal of Work Area Isolation: After approval of the visual inspection and testing, remove personnel decontamination unit and critical barriers. Remove any small quantities of residual material found upon removal of the plastic sheeting with wet wiping, HEPA filtered vacuum cleaners. If significant quantities, as determined by the Owner's Representative are found, then the entire area affected shall be decontaminated as specified in Cleaning and Decontamination Procedures.

Remove all equipment, materials and debris from the work site. Dispose of all asbestos containing waste as specified in Disposal of Asbestos Containing Waste Materials.

5.5 Project Completion

Asbestos containing waste shall be stored in a covered, locked dumpster or approved waste transfer vehicle. Prepare waste for transport in accordance with specific requirements of the waste facility and all applicable local, state and federal regulations.

Transport the waste to the on-site lockable container or Contractor's registered vehicle in covered carts, with consideration given at all times to building occupants and/or facility personnel.

The Contractor shall be allowed to utilize on-site bathrooms for sanitary facilities; however, the Contractor shall be responsible for maintaining all surfaces within the bathroom, including urinals, toilets and sinks, as found upon commencement of the Project.

## SECTION 6.0 ASBESTOS WORKER PROTECTION AND DECONTAMINATION

6.1 Worker Protection

All workers shall wear protective clothing and respiratory protection as required by OSHA regulation 29 CFR, Part 1926.1101. The Contractor shall be responsible for personnel exposure monitoring of employees as required by OSHA regulation 29 CFR, Part 1926.1101.

OSHA requirements for medical surveillance, respiratory fit testing, monitoring shall be the responsibility of the Contractor. All persons entering the work area shall be required to wear a disposable coverall during work. Wash water, soap and towels shall be provided in the entry airlock to permit workers the opportunity for personal decontamination upon completion of abatement activities within the designated work area, or as indicated elsewhere in these Technical Specifications. All waste containers, equipment, etc., shall be decontaminated by means of wet wiping prior to removal from the work area.

6.2 Decontamination Units

6.2.1 General

At the entrance to the work area or in a remote central location, the Contractor shall erect a three-stage decontamination unit, consisting of an equipment room, shower room and clean room. The chambers shall consist of a clean room, upon entering, a shower room, and an equipment room leading into the work area. The shower room shall have hot/cold water and soap. The decontamination unit shall be of rigid construction and enclosed with two (2) layers of six (6) mil polyethylene sheeting, to minimize any release of dust, particulates, contaminants, etc., during the decontamination process. Entrance flaps for each stage/chamber are to be weighted and installed so that the flaps will close if airflow into the work area is stopped for any reason.





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Construct airtight walls and ceiling using fire-rated six (6) mil polyethylene sheeting. Use (2) two layers (minimum) of six (6) mil polyethylene sheeting to cover floors in all areas of the Decontamination Units. Fabricate airlock flap doors from three (3) overlapping sheets with openings a minimum of four (4) feet wide. Configure so that sheeting overlaps adjacent surfaces. Weigh sheets at bottoms as required so that they quickly close after being released. Mark with arrows on sheets to indicate direction of overlap and/or travel. Provide a minimum of four (4) feet between entrance and exit of any room.

6.2.2. Decontamination Procedures

When exiting the work area(s) individuals shall enter the equipment room and the suit shall be removed and placed in a disposal bag staged in the equipment room. Then the individual shall proceed to the shower room of the decontamination unit, and remove protective clothing, except respirators. Respirators shall be taken off last to prevent inhalation of fibers during removal of contaminated clothing and shall not be removed until they have been washed free of dust. After showering, the person moves to the clean room and dresses in street clothing prior to exiting. Respirators are picked up, washed thoroughly, and disinfected as required, wrapped and stored in the clean room. The Contractor shall ensure that filters in cartridge type respirators used during the preparation and abatement phase of the Project are removed, wetted, and discarded as contaminated waste. All new filters shall be in place in the respirator prior to reuse. For powered air purifying respirators or supplied air respirators, the manufacturer's instructions shall be followed about the proper decontamination sequence.

There shall be no smoking, eating, or drinking in any contaminated areas (shower room, equipment room, and work area). Respirators shall be worn in all contaminated areas. Non-disposable footwear shall remain inside the contaminated area until completion of the activity and shall be thoroughly cleaned at that time. At minimum, decontamination units shall be cleaned on a daily basis, at the end of each shift.

## SECTION 7.0 ASBESTOS PROJECT MONITORING AND WORK AREA CLEARANCE

7.1. Perimeter Air Monitoring

The Environmental Consulting Firm shall conduct perimeter air monitoring to detect faults in work area isolation, such as the contamination of the building outside of the work areas with airborne asbestos fibers, failure of filtration or rupture in the differential pressure system, etc. Should any of the above occur, immediately cease asbestos abatement activities until the fault is corrected. Do not recommence work until authorized by the Owner's representative.

Perimeter air monitoring shall be performed from the start of work to Project decontamination, per shift. The Owner's Representative shall collect air samples from locations adjacent to the work area, including critical barriers, the clean room of the decontamination unit and the waste removal route.

Phase Contrast Microscopy (PCM) sampling and analysis will be performed using the latest revision of NIOSH Method 7400 A. Where required, this analysis will be carried out at the job site. The acceptable airborne fiber concentration shall be less than 0.01 fibers per cubic centimeter of air (f/cc).

7.2 Final Clearance Air Monitoring

The Owner's representative shall collect final clearance air samples at the completion of the abatement activities, upon receipt of a satisfactory inspection. Engineering controls, critical barriers and the decontamination unit shall remain during final clearance air sampling.

A minimum of five (5) samples will be taken from the work area and analyzed in accordance with the method set forth in 40 CFR, Part 763, Appendix A. For work area(s) where more than 260 linear feet/160 square feet of asbestos containing materials have been removed, final clearance samples shall be collected and analyzed utilizing Transmission Electron Microscopy (TEM). For work area(s) where less than 260 linear feet/160 square feet of asbestos containing materials have been removed, final clearance samples shall be collected/analyzed utilizing Phase Contrast Microscopy (PCM). NOTE: Acceptable final air test results must be achieved by Monday of each week the project is in progress





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to allow regular business hours occupancy. The Contractor shall execute the project in a manner that will allow the collection, where applicable delivery to the laboratory, analyses, and reported results by no later than 7:00 am each Monday morning.

The exception to the above is Small Scale Short Duration (SSSD) work, such as the non-friable removal of less than 160 square feet of vinyl asbestos floor tile, completed as an exemption project, approved by the DHS, where perimeter air samples, as indicated in Section 7.1 above, can also be utilized for work area final clearance, prior to re-occupancy.

TEM samples shall be analyzed at a laboratory accredited by the American Industrial Hygiene Association (AIHA), participating in the National Voluntary Laboratory Accreditation Program (NVLAP). Analytical results shall be available to the Owner's representative within six (6) hours upon receipt by the laboratory. PCM samples shall be analyzed on-site, in accordance with the most recent revision to NIOSH method 7400, when feasible.
Acceptable Clearance Criteria for work area(s) demobilization and re-occupancy shall be as follows:

- TEM: average of less than 70 Structures per square millimeter.
- PCM: less than 0.01 fibers per cubic centimeter.

Upon completion of satisfactory air sampling, the Contractor will disassemble the work area containment. All residual tape, plastic and ACM debris will be placed in double, six (6) mil polyethylene waste bags. All waste bags must contain required OSHA warning and USEPA generator identification labels.

## SECTION 8.0 ASBESTOS WASTE DISPOSAL

8.1 Asbestos Containing Waste

The Contractor shall not start work until these submittals are returned approved. On a weekly basis submit copies of all manifests and disposal site receipts to the Owner's representative.

- Copy of State or Local license for waste hauler.
- Name and address of landfill where asbestos containing waste materials are to be disposed. Include contact person and telephone number. Submission of a ten (10) day Federal and State Notification form that has this information.
- Chain of Custody form and proposed Waste Manifest Form.
- Sample of disposal bag and any labels to be used.

Provide six (6) mil leak tight polyethylene asbestos waste disposal bags labeled with three (3) labels, with text as follows:

CAUTION
CONTAINS ASBESTOS FIBERS
AVOID OPENING OR BREAKING CONTAINER
BREATHING ASBESTOS IS HAZARDOUS TO YOUR HEALTH

Provide in accordance with 29 CFR, Part 1910.1200(f), of the United States Department of Labor, Occupational Safety and Health Administration, (OSHA) Hazard Communication Standard:

DANGER
CONTAINS ASBESTOS FIBERS
AVOID CREATING DUST
CANCER AND LUNG DISEASE HAZARD
BREATHING AIRBORNE ASBESTOS, TREMOLITE, ANTHROPHYLLITE, OR
ACTINOLITE FIBERS IS HAZARDOUS TO YOUR HEALTH

Provide in accordance with the United States Department of Transportation (USDOT) regulation on hazardous waste marking, 29 CFR, Parts 171 and 172, Hazardous Substances Final Rule, Published November 21, 1986, and revised February 17, 1987:

RQ HAZARDOUS
SUBSTANCE,
SOLID, NOS,
ORM-E, NA 9188
(ASBESTOS)

Provide waste generator and location in accordance with state regulations.

All waste is to be hauled by a waste hauler with all required state transporting licenses. Load all asbestos containing waste material in disposable bags or leak-tight drums. All materials are to be contained in one (1) of the following:

- Two (2) six (6) mil disposal bags, or
- Two (2) six (6) mil disposal bags and a fiberboard drum, or
- Two (2) six (6) mil disposal bags, and sealed steel drum.

The Contractor shall provide a fully enclosed, watertight waste container complete with a locking device for storage of all contaminated waste removed from the site. The waste container shall have asbestos warning signs affixed to all sides and doors. A perimeter warning band shall be placed near the trailer location and the exterior route of travel during waste transfer activities.

Asbestos waste that will puncture or tear waste bags, and which is required to be bagged for disposal, shall be placed in cardboard boxes, burlap or nylon sacks, or other protective covering, prior to bagging, as necessary to ensure that bags are not punctured or torn during the disposal process. Items that are too large for standard bagging, which require bagging for disposal, shall be wrapped in two (2) layers of six (6) mil polyethylene sheeting and sealed with duct tape. All asbestos waste shall be packaged and disposed of in accordance with all applicable local, state and federal regulations and ordinances.

Protect the interior of the truck or dumpster with critical barriers. Carefully load containerized waste in fully enclosed dumpsters, trucks or other appropriate vehicles for transport. Exercise care before and during transport, to ensure that no unauthorized persons have access to the material. Do not store containerized materials outside the work areas. Take containers from the work areas directly to the truck or dumpster. Do not transport bagged material in open trucks. Label drums with same warning labels as bags.

Advise the landfill operator at least ten (10) days in advance of transport of the quantity of material to be delivered. At completion of hauling and disposal of each load, submit copy of waste manifest, Chain of Custody form and landfill receipt to the Owner's representative.

The Contractor shall be responsible for coordination of waste removal immediately upon completion of the project. This is essential in order to obtain a permit for re-occupancy. No payment shall be made to the Contractor until all contaminated waste has been removed from the site and a waste manifest signed by the proper authority is submitted to the Owner.

## SECTION 9.0 PCB BALLAST REMOVAL AND DISPOSAL

9.1 Fluorescent Light Fixture PCB/DEHP Ballast

The Contractor shall remove all light ballasts associated with fluorescent and sodium vapor light fixtures associated with the Project. The Contractor, in preparation of the bid, shall site verify and submit its bid based on actual quantities.





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**PCB's/DEHP Lighting Ballasts**

1. Ensure that the equipment has been properly de-energized in accordance with 29 CFR, Part 1910.147.
2. Assume light fixture ballasts contain PCBs unless marked by the manufacturer with the statement "No PCBs" is affixed to the ballasts. However, unless the Contractor can demonstrate that the ballasts were installed after 1991 and are non-PCBs containing, all light ballasts shall be removed and disposed of as PCBs, as a result that between 1980 and 1991, Di(2-ethylhexyl)(phthalate) (abbreviated as DEHP) was utilized in place of PCBs for fluorescent light ballasts, which is classified by the USEPA as a probable human carcinogen and is under the jurisdiction of Superfund laws. The means of destruction and disposal is the same for both; therefore, for the purposes of this Section all references are to PCBs.
3. Unmarked, non-leaking ballasts will be removed from each light fixture and placed directly into a double plastic bag. Leaking ballasts will be wrapped in absorbent pads before placed into the plastic bags. For transportation, the bag will be placed in a drum that is USDOT approved Drum type 17H for PCBs.
4. Equipment that contains oils shall be inspected to ensure the items have no leaks prior to disconnection and placement into appropriate USDOT drums. Where equipment to be removed is leaking, absorbent pads shall be placed underneath the item and adjacent to the item during placement into the approved container. Absorbent pads also shall be disposed of in said container. Any residual oil on floors and/or adjacent horizontal surfaces from where equipment was removed shall be wet wiped clean with a hexane solution. These procedures only apply to light weight equipment that can be placed in 55-gallon and/or "overpack" drums.

Refer to Section 10.0 of these Technical Specifications for the appropriate handling and disposal of fluorescent light bulbs and sodium vapor lamps. References to mercury containing fluorescent light bulbs and sodium vapor lamps are incorporated in this Technical Specification Section, since these materials will be handled simultaneously to access the associated PCB light ballasts.

9.2 PCB Waste

All PCB containing waste shall be properly labeled, dated and disposed of in accordance with the Toxic Substance Control Act (TSCA) and USDOT requirements, in addition to applicable state and local regulations. No waste shall remain on site for more than 90 days. The Contractor shall comply with all provisions of 40 CFR, Part 761, as applicable. In addition, see Federal Register, Volume 63, No. 124.

Refer to Part 9.4 of this Technical Specification Section for additional information.

9.3 PCB Remediation Requirements

9.3.1 General Requirements

The Contractor shall provide a "competent person" on-site at all times, in accordance with OSHA Regulations, and shall maintain the necessary staffing to complete the Project in accordance with the Project schedule. The competent person shall have knowledge in construction and shall be knowledgeable in reading and interpreting construction documents.

Appropriate respiratory protection shall be provided by the Contractor, upon notification that employees have received medical clearance and monitoring, followed by passing respiratory fit testing, and have read the Contractor's written Respiratory Protection Program.





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The Contractor shall provide medical examinations for all workers in accordance with 29 CFR, Part 1910.1020. Provide an evaluation of the individual's ability to work with respiratory protection in an environment capable of producing heat stress in the worker.

The Contractor shall have a respiratory protection program established in compliance with ANSI Z88.2 - 1980 "Practices for Respiratory Protection" and OSHA's 29 CFR, Part 1910.134. The written program shall be posted at the job site.

Provide half face or full-face type respirators to each worker, at minimum. Equip full face respirators with a nose cup or other anti-fogging device. If negative pressure air purifying respirators are being used, the Contractor shall supply a sufficient quantity of respirator filters so that workers can change filters during the work day. Store respirators and filters at the job site and protect from exposure to asbestos prior to their use. Clean and sanitize as required.

Provide, at a minimum, HEPA type filters labeled with NIOSH and MSHA Certification for "Radionuclides, Radon Daughters, Dust, Fumes, Mists including Asbestos-Containing Dusts and Mists" and color coded in accordance with ANSI Z88.2 (1980). In addition, a chemical cartridge section may be added, if required, for solvents, etc., in use. In this case, provide cartridges that have each section of the combination canister labeled with the appropriate color code and NIOSH/MSHA Certification.

No one having a beard or other facial hair in the respiratory facial fit area will be permitted to don a respirator and enter the work area.

Provide disposable full-body coveralls including foot and head covers and require that they be worn by all workers in the work area. Provide a sufficient number for all required changes, for all workers in the work area.

Provide gloves to all workers and require that they be worn inside the work area. Do not remove gloves from the work area and dispose of as contaminated waste at the end of work.

The Contractor shall strictly prohibit workers from eating, drinking, smoking and chewing gum or tobacco while within the work area. In order to perform any of these functions, workers must exit the work area, and are required to follow the outlined decontamination procedures on each occasion.

Permissible Exposure Limits (PEL): 0.5 milligrams per cubic meter of air ($mg/m^3$) on an 8-hour Time Weighted Average for PCBs.

Special Hazards: PCBs will not be exposed to open flames or other high temperature sources since toxic decomposition by-products may be produced. PCBs will not be heated to temperatures of 55 degrees Celsius (135 degrees Fahrenheit) or higher.

Control Area

1. Isolate the PCB Control Areas by physical boundaries to prevent unauthorized entry of personnel. Food, drink, smoking and the application of cosmetics will not be permitted in areas where PCBs are handled or stored.

The Contractor shall establish the means for personnel decontamination, such as, but not limited to:

1. Decontamination procedures requiring personnel entering the work area/performing the work, to don two (2) protective suits. The first suit shall be a protective suit and shall be HEPA vacuumed, removed and placed in appropriate disposal bags, prior to exiting. The second suit shall be removed and disposed of appropriately upon exiting the work area. The Contractor shall establish hygiene facilities for hand, face, etc.; respiratory protection shall be removed during this process and the respirator cleaned of all visible dust/debris.





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2. Construction of a remote personnel decontamination unit which consists of shower room for the workers to remove protective clothing and wash hands, face, etc., and a clean room to be used for changing from street clothes into protective clothing and to dry off from decontaminating and donning street clothes at the end of the work shift.

   a. A decontamination unit with shower and clean rooms shall be constructed remote, but in proximity to, the work area(s).

   b. The shower chamber shall be the hygiene facility for all workers involved with the removal of asbestos containing materials from site buildings as specified in a separate specification section.

Ensure all HVAC and electrical systems within proximity to the work area are deactivated and/or protected with polyethylene sheeting that is secured airtight with duct tape.

PCB warning signs and/or tape shall be posted around the perimeter of the exterior work areas during remediation.

No PCBs shall be disturbed during preparation activity.

Removal activities shall generate no visible emissions, as enforceable under 40 CFR, Part 61, of the National Emissions Standard for Hazardous Air Pollutants (NESHAPS).

9.3.2 Order of Operations

Perform the work and provide the services as follows:

1. Pre-removal inspection.
2. Work area preparation including isolating, securing and cleaning.
3. Worker training, respiratory protection and medical examination.
4. Disconnection and removal of PCB equipment/materials, inclusive of all (including mercury containing) fluorescent light bulbs.
5. Packaging, labeling, transportation and disposal of PCB containing equipment and associated fluorescent light bulbs in accordance with federal, state and local regulations.

9.3.3 Work Procedures

Furnish labor, materials, services and equipment necessary for the complete removal of PCBs and fluorescent light bulbs located at the site as indicated and specified in accordance with all applicable federal, state and local regulations. Package and mark PCB and mercury containing materials as required by the USEPA and USDOT.

Smoking is not permitted within 50 feet of the Control Areas utilized for the removal of PCB containing materials. Provide “No Smoking” signs as directed by the Owner and/or Owner’s Representative.

Ensure that work operations or processes involving PCBs are in accordance with 40 CFR, Part 761, and applicable requirements of this Section, including but not limited to:

1. Obtaining advance approval of PCB storage sites.
2. Notify the Owner and/or Owner’s Representative prior to commencing the operation.
3. Lock-out and Tag-Out electric service per 29 CFR 1910.147 to all fixtures prior to commencing the operation. Work performed at locations of exterior floodlamps shall be surveyed for the potential of adjacent energized power lines. NO work shall proceed until electrical sources are





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identified and de-energized or appropriate measures are put in place to ensure the safety of the workers from any energized electrical lines.

4. Report leaks and spills to the Owner and/or Owner's Representative.
5. Decontaminating spills.
6. Maintaining an access log of employees working in a PCB control area and providing a copy to the Owner and/or Owner's Representative upon completion of the decontamination.
7. Inspecting PCB contaminated items and waste containers for leaks and forwarding copies of inspection reports to the Owner and/or Owner's Representative.
8. Maintaining inspection, inventory and spill records.

9.3.4 Standard Operating Procedures

Removal procedures shall prevent contamination of work areas with PCB containing/contaminated materials, debris and waste. Handle PCBs such that no skin contact occurs.

Confined Spaces: Where may be necessary, the Contractor shall adhere to all confined space procedures, as set forth in 29 CFR, Part 1910.146, and ensure that workers are equipped with suitable PPE during PCB removal activities.

Establish a Control Area.

Exhaust Ventilation: If used, exhaust ventilation for removal operations that will discharge to the outside and away from personnel.

Handle PCBs at ambient temperatures only.

Evacuation Procedures: Procedures shall be written for the evacuation of injured workers in the Contractor's Health and Safety Plan. Aid for a seriously injured worker will not be delayed for reasons of decontamination, associated with the removal of PCBs and mercury.

9.3.5 Spill Decontamination Requirements

Spills: Immediately report to the Owner and/or the Owner's Representative PCB spills on the ground or in the water, PCB spills in drip pans, and/or PCB leaks.

Spill Control Area: Rope off an area around the edges of the leak or spill and post a "PCB Spill Authorized Personnel Only" caution sign. Immediately transfer leaking liquid to a container.

Spill Decontamination: Initiate decontamination of spills as soon as possible, but no later than within 24-hours of its discovery. To decontaminate spills, personnel will wear the appropriate PPE as specified in the Contractor's Health and Safety Plan. Specific decontamination procedures shall be outlined in the Contractor's Health and Safety Plan. If misting, elevated temperatures or open flames are present, or if the spill is situated in a confined space, notify the Owner and/or Owner's Representative. Mop up the liquid with rags or other conventional absorbent. The spent absorbent shall be properly contained and disposed of as solid PCB or mercury waste, dependent upon the contaminant that spilled.

Spills and all contaminated materials used for clean-up shall be disposed of in accordance with USEPA requirements of the Toxic Substance Control Act, 40 CFR, Part 761.

Sampling Requirements: The Contractor shall perform post decontamination sampling as required by 40 CFR, Part 761, Section 130, Sampling Requirements. Do not remove boundaries of the PCB or mercury control area until the site is determined to be clean.

Spill Response: If PCB containing materials are spilled or materials are spilled of unknown content assume a PCB spill. Notify the National Response Center (NRC) 800-424-8802 if a spill of one (1) pound or more of PCBs occurs.





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Notify the US EPA Regional Office, Office of Prevention, Pesticides, and Toxic Substances Branch, if: 1) any amount of PCBs contaminates surface waters, sewers, drinking water supplies, grazing land, or vegetable gardens; or 2) more than 10 pounds of PCBs are spilled. Notify the NJDEP if a spill should occur at 877-WARN-DEP.

**SECTION 10.0 PCB WASTE HANDLING AND DISPOSAL**

All storage of waste shall be performed at the direction of the Owner and/or Owner's representative. All storage of waste PCBs shall be in accordance with 40 CFR, Part 761.65. The handling and storage of PCB waste will be modified if state or local requirements are more stringent.

All PCB containing waste shall be properly labeled, dated and disposed of in accordance with NJDEP regulations (N.J.A.C. 7:26G). No waste shall remain on site for more than 90 days. The Contractor shall comply with all provisions of 40 CFR, Part 761, as applicable. In addition, see Federal Register, Volume 63, No. 124.

Storage Containers: The collection of PCBs shall be in United States Department of Transportation (USDOT) approved containers. As a minimum, closed head containers will be used for collected liquids.

Waste Containers shall be labeled with the following:

1. "Solid (or Liquid) Waste Polychlorinated Biphenyls."
2. PCB Caution Label:

CAUTION
Contains PCBs
(Polychlorinated Biphenyls)

3. The date the item was placed in storage and the name of the cognizant activity/building.

The Contractor shall provide a fully enclosed, watertight waste container complete with a locking device for storage of all contaminated waste removed from the site.

Approval of Storage Sites: Obtain approval in advance from the Owner and/or Owner's Representative for use of either an existing hazardous waste storage area or an area which can be modified to meet the following requirements. As a minimum, all PCB storage areas will meet 40 CFR, Part 761.65, requirements, including:

1. Adequate roof and walls prevent rainwater from reaching the storage of PCBs.
2. An adequate floor is in place which has continuous curbing with a minimum six (6) inch elevated curb. Such floor and curbing will provide a containment volume equal to at least two (2) times the internal volume of the largest PCB article/container stored therein, whichever is greater.
3. No drain valves, floor drains, expansion joints, sewer lines or other openings that would permit liquids to flow from the curbed area.
4. Floors and curbing area constructed of continuous smooth and impervious materials such as Portland cement, concrete or steel to prevent or minimize penetrations.
5. Each storage site shall be posted with the appropriate caution signs (either for PCBs).
6. The storage area shall be inspected weekly. Any signs of spills, leaks, or potential problems shall be corrected immediately. All inspections, corrections and actions shall be documented in writing.
7. Drums are to be stored to allow adequate space on each side to allow for inspection.
8. Drums will be sealed and marked with an approved USEPA label, transported to an USEPA approved disposal site by a licensed hazardous waste transporter, and disposed of in accordance with 40 CFR, Part 761. Complete paperwork will be maintained by the Contractor to verify proper disposal.

Waste shall be transported off-site at the completion of the Project and manifests provided within 30-days of disposal; no payment application shall be made without submittal of the waste manifest. Waste generated from PCBs remediation shall be disposed of as hazardous material in accordance with 40 CFR, Part 761 of the Toxic Substance Control Act (TSCA); notify the USEPA, Office of Resource Conservation and Recovery, through the





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Regional Coordinator for Region #2 at telephone number 732-906-6817, to obtain a listing of landfills that will accept the PCB waste for disposal.

## SECTION 11.0 MERCURY CONTAINING LAMPS/LIGHT BULBS

### 11.1 General Requirements

The Contractor shall remove all light bulbs associated with fluorescent light fixtures within the specified work area. Fluorescent light bulbs, mercury vapor, halide and/or high-pressure sodium bulbs associated with these fixtures contain heavy metals, such as mercury and shall be treated as such. The Contractor shall also be responsible for the disposal/recycling of any stockpile/store bulbs encountered at the site.

Ensure that the equipment has been properly de-energized, in accordance with 29 CFR, Part 1910.147.

Where mercury containing electrical components are found, the Contractor shall remove and place the mercury containing components into 5-gallon sealable containers (buckets). Utilize larger sealable containers for fluorescent light bulbs.

Mercury containing waste shall only be hauled by a licensed hazardous waste hauler. A waste manifest documenting the disposal shall be provided to the Owner. All mercury containing waste shall be properly labeled, dated and disposed of in accordance with TSCA and USDOT requirements, as well as applicable state and local regulations. No waste shall remain on site for more than 90 days.

The Contractor shall provide a "competent person" on-site at all times, in accordance with OSHA Regulations, and shall maintain the necessary staffing to complete the Project in accordance with the Project schedule. The competent person shall have knowledge in construction and shall be knowledgeable in reading and interpreting construction documents.

Worker Protection

1. Appropriate respiratory protection shall be provided by the Employer, upon notification that employees have received medical clearance and monitoring, followed by passing respiratory fit testing, and have read the Contractor's written Respiratory Protection Program.

    a. The Contractor shall provide medical examinations for all workers in accordance with 29 CFR, Part 1910.1020. Provide an evaluation of the individual's ability to work with respiratory protection in an environment capable of producing heat stress in the worker.

    b. The Contractor shall have a respiratory protection program established in compliance with ANSI Z88.2 - 1980 "Practices for Respiratory Protection" and OSHA's 29 CFR, Part 1910.134. The written program shall be posted at the job site.

    c. Provide, at a minimum, half face or full-face type respirators to each worker. Equip full-face respirators with a nose cup or other anti-fogging device. If negative pressure air purifying respirators are being used, the Contractor shall supply a sufficient quantity of respirator filters approved for asbestos dust, so that workers can change filters during the work day. Store respirators and filters at the job site and protect from exposure to asbestos prior to their use. Clean and sanitize as required.

    d. Provide, at a minimum, HEPA type filters labeled with NIOSH and MSHA Certification for "Radionuclides, Radon Daughters, Dust, Fumes, Mists including Asbestos-Containing Dusts and Mists" and color coded in accordance with ANSI Z88.2 (1980). In addition, a chemical cartridge section may be added, if required, for solvents, etc., in use. In this





EXHIBIT 'D'

case, provide cartridges that have each section of the combination canister labeled with the appropriate color code and NIOSH/MSHA Certification.

e. Single use, disposable, or quarter face respirators are strictly forbidden for use during mercury containing fixture removal and related work.

f. No one having a beard or other facial hair in the respiratory facial fit area will be permitted to don a respirator and enter the work area.

2. Provide disposable full-body coveralls including foot and head covers and require that they be worn by all workers in the work area. Provide a sufficient number for all required changes, for all workers in the work area.

3. Provide gloves to all workers and require that they be worn inside the work area. Do not remove gloves from the work area and dispose of as asbestos contaminated waste at the end of work.

4. The Contractor shall strictly prohibit workers from eating, drinking, smoking and chewing gum or tobacco while within the work area. In order to perform any of these functions, workers must exit the work area, and are required to follow the outlined decontamination procedures on each occasion.

Exposure Limits

1. The OSHA Permissible Exposure Limit (PEL) for mercury vapor is 0.1 milligrams per cubic meter of air ($mg/m^3$) as a ceiling limit; workers shall not be exposed to mercury vapor that exceeds the ceiling limit at any time.

2. The National Institute for Occupational Safety and Health (NIOSH) recommended exposure limit (REL) is 0.05 $mg/m^3$ as a time weighted average (TWA) up to a 10-hour work day over a 40-hour work week.

3. The American Conference of Governmental Industrial Hygienists (ACGIH) threshold limit value (TLV) for mercury vapor is 0.025$mg/m^3$ as an 8-hour TWA over a 40-hour work week.

Special Hazards: Mercury containing materials shall not be exposed to open flames or other high temperature sources since toxic decomposition by-products may be produced. Mercury containing materials shall not be heated to temperatures of 55 degrees Celsius (135 degrees Fahrenheit) or higher. Do not break mercury containing materials.

Isolate the mercury Control Areas by physical boundaries to prevent unauthorized entry of personnel. Food, drink, smoking and the application of cosmetics will not be permitted in areas where mercury containing materials are handled or stored.

The Contractor shall establish the means for personnel decontamination, such as, but not limited to:

1. Decontamination procedures requiring personnel entering the work area/performing the work, to don two (2) protective suits. The first suit shall be a protective suit and shall be HEPA vacuumed, removed and placed in appropriate disposal bags, prior to exiting. The second suit shall be removed and disposed of appropriately upon exiting the work area. The Contractor shall establish hygiene facilities for hand, face, etc.; respiratory protection shall be removed during this process and the respirator cleaned of all visible dust/debris.





# EXHIBIT 'D'

2. Construction of a personal decontamination unit which consists of shower room for the workers to remove protective clothing and wash hands, face, etc., and a clean room to be used for changing from street clothes into protective clothing and to dry off from decontaminating and donning street clothes at the end of the work shift.

Ensure all HVAC and electrical systems within proximity to the work area are deactivated and/or protected with polyethylene sheeting that is secured airtight with duct tape.

Mercury warning signs and/or tape shall be posted around the perimeter of the exterior work areas during remediation.

No mercury containing equipment or other associated environmental concerns shall be disturbed during preparation activity.

1. Removal activities shall generate no visible emissions, as enforceable under 40 CFR, Part 61 of the National Emissions Standard for Hazardous Air Pollutants (NESHAPS).

11.2 Order of Operations

1. Perform the work and provide the services as follows:

   a. Pre-removal inspection.
   b. Work area preparation including isolating, securing and cleaning.
   c. Worker training, respiratory protection and medical examination.
   d. Disconnection and removal of mercury containing equipment/materials.
   e. Packaging, labeling, transportation and disposal of mercury equipment and/or materials in accordance with federal, state and local regulations.

11.3 Work Procedures

Furnish labor, materials, services and equipment necessary for the complete removal of mercury containing materials located at the site as indicated or specified in accordance with all applicable federal, state and local regulations. Package and mark mercury containing materials as required by the USEPA and USDOT.

Smoking is not permitted within 50 feet of the Control Areas utilized for the removal of mercury containing materials. Provide “No Smoking” signs as directed by the Owner and/or Owner’s Representative.

Ensure that work operations or processes involving mercury containing materials is in accordance with 40 CFR, Parts 761, 262 and 263, and applicable requirements of this Section, including but not limited to:

1. Obtaining advance approval of mercury containing materials storage sites.
2. Notify the Owner and/or Owner’s Representative prior to commencing the operation.
3. Report leaks and spills to the Owner and/or Owner’s Representative.
4. Decontaminating spills.
5. Maintaining an access log of employees working in a mercury containing materials control area and providing a copy to the Owner and/or Owner’s Representative upon completion of the decontamination.
6. Inspecting mercury contaminated items and waste containers for leaks and forwarding copies of inspection reports to the Owner and/or Owner’s Representative.
7. Maintaining inspection, inventory and spill records.

11.4 Standard operating Procedures

Removal procedures shall prevent contamination of work areas with mercury containing/contaminated materials, debris and waste. Handle mercury containing materials such that no skin contact occurs.

Confined Spaces: The Contractor shall adhere to all confined space procedures, as set forth in 29 CFR, Part 1910.146, and ensure that workers are equipped with suitable PPE during mercury containing materials removal activities.
Establish a Control Area.

Exhaust Ventilation: If used, exhaust ventilation for removal operations that will discharge to the outside and away from personnel.

Handle mercury containing materials at ambient temperatures only.

Evacuation Procedures: Procedures shall be written for the evacuation of injured workers in the Contractor's Health and Safety Plan. Aid for a seriously injured worker will not be delayed for reasons of decontamination, associated with the removal of mercury.

11.5 Spill Decontamination Requirements

Spills: Immediately report to the Owner and/or the Owner's representative spills on the ground or in the water, mercury spills in drip pans, and/or mercury leaks.

Spill Control Area: Rope off an area around the edges of the leak or spill and post a "Mercury Spill Authorized Personnel Only" caution sign. Immediately transfer leaking liquid to a container.

Spill Decontamination: Initiate decontamination of spills as soon as possible, but no later than within 24-hours, of its discovery. To decontaminate spills, personnel will wear the appropriate PPE as specified in the Contractor's Health and Safety Plan. Specific decontamination procedures shall be outlined in the Contractor's Health and Safety Plan. If misting, elevated temperatures or open flames are present, or if the spill is situated in a confined space, notify the Owner and/or Owner's Representative. Mop up the liquid with rags or other conventional absorbent. The spent absorbent shall be properly contained and disposed of as solid mercury waste, dependent upon the contaminant that spilled.

Spills and all contaminated materials used for clean-up shall be disposed of in accordance with USEPA requirements for Universal Waste.

Spill Response: If mercury containing materials are spilled or materials are spilled of unknown content assume a mercury spill. Notify the National Response Center (NRC) 800-424-8802 if a spill of one (1) pound or more of mercury occurs. Notify the US EPA Regional Office, Office of Prevention, Pesticides, and Toxic Substances Branch, if: 1) any amount of mercury contaminates surface waters, sewers, drinking water supplies, grazing land, or vegetable gardens; or 2) more than 10 pounds of mercury are spilled. Notify the NJDEP if a spill should occur at 877-WARN-DEP.

**SECTION 12.0 MERCURY WASTE HANDLING AND DISPOSAL**

All storage of waste shall be performed at the direction of the Owner and/or Owner's Representative. All storage of waste mercury shall be in accordance with 49 CFR, Part 178, and 40 CFR, Part 273. The handling and storage of mercury containing waste will be modified if state or local requirements are more stringent.

Storage Containers: The collection of mercury containing materials shall be in United States Department of Transportation (USDOT) approved containers. As a minimum, closed head containers will be used for collected liquids.

Waste Containers shall be labeled with the following, in accordance with 40 CFR, Part 273:





# EXHIBIT 'D'

1. CAUTION: Contains Mercury
2. The date the item was placed in storage and the name of the cognizant activity/building.

For mercury containing equipment removal, 40 CFR, Part 273, require that large quantity handlers of Universal Waste provide notification of Universal Waste Management to the appropriate USEPA Regional, or State Director in authorized States, obtain an USEPA identification number, and retain for three (3) years records of off-site shipments of Universal Waste. If not available, the Contractor shall arrange for obtaining an identification number with the USEPA prior to the start of the remediation work.

The Contractor shall provide a fully enclosed, watertight waste container complete with a locking device for storage of all contaminated waste removed from the site.

Approval of Storage Sites: Obtain approval in advance from the Owner and/or Owner's Representative for use of either an existing hazardous waste storage area or an area which can be modified to meet the following requirements. As a minimum:

1. Adequate roof and walls prevent rainwater from reaching the storage of mercury containing equipment.
2. An adequate floor is in place which has continuous curbing with a minimum six (6) inch elevated curb. Such floor and curbing will provide a containment volume equal to at least two (2) times the internal volume of the largest mercury containing article/container stored therein, whichever is greater.
3. No drain valves, floor drains, expansion joints, sewer lines or other openings that would permit liquids to flow from the curbed area.
4. Floors and curbing area constructed of continuous smooth and impervious materials such as Portland cement, concrete or steel to prevent or minimize penetrations.
5. Each storage site shall be posted with the appropriate caution signs.
6. The storage area shall be inspected weekly. Any signs of spills, leaks, or potential problems shall be corrected immediately. All inspections, corrections and actions shall be documented in writing.
7. Drums are to be stored to allow adequate space on each side to allow for inspection.
8. Drums will be sealed and marked with an approved USEPA label, transported to an USEPA approved disposal site by a licensed hazardous waste transporter, and disposed of in accordance with 40 CFR, Part 761 and/or 263. Complete paperwork will be maintained by the Contractor to verify proper disposal.

Waste shall be transported off-site at the completion of the Project and manifests provided within 30-days of disposal; no payment application shall be made without submittal of the waste manifest.





# EXHIBIT 'D'

# ATTACHMENT 1

# REMEDIATION PLANS

120 North Warren Street • Trenton, New Jersey 08608 • tel: 609-392-4200

# EXHIBIT 'D'

## SCOPE OF WORK

1. INSTALL CRITICAL BARRIERS ON ALL DIFFUSERS AND REGISTERS WITHIN THE WORK AREA EXTENTS. COORDINATE SHUT DOWN OF HVAC SYSTEM WITH FACILITY STAFF
2. PRE-CLEAN WORK AREAS - INCLUSIVE OF CLEANING AND RELOCATING STORED FURNITURE, SUPPLIES, AND EQUIPMENT OUTSIDE OF WORK AREA EXTENTS.
3. REMOVE AND DISPOSE OF ALL ASBESTOS CONTAINING WIRE LOCATED INSIDE LIGHT FIXTURES. ESTIMATED QUANTITY IS 4,320 LINEAR FEET.
4. COLLECT, SEGREGATE, AND DISPOSE OF PCB AND NON-PCB CONTAINING LIGHT BALLASTS IN ACCORDANCE WITH THE TECHNICAL SPECIFICATIONS. ESTIMATED BALLAST QUANTITY IS 540

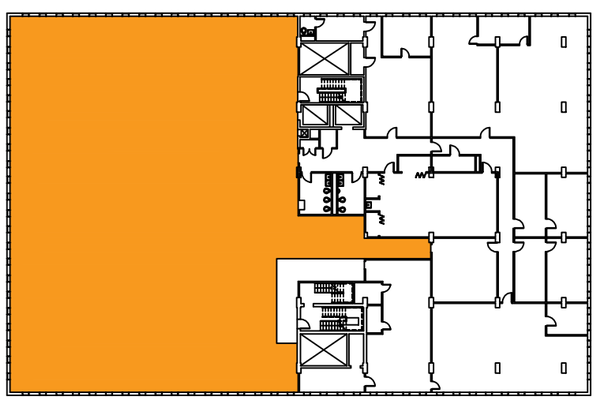
NOTE 1 : CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL, HANDLING, AND DISPOSAL OF ALL FLUORESCENT LIGHT BULBS/LAMPS IN THE WORK AREA.

NOTE 2 : AIR FILTRATION DEVICES SHALL EXHAUST THROUGH A MANIFOLD CONSTRUCTED AND INSTALLED BY THE CONTRACTOR IN THE EXISTING ROOF ACCESS HATCH OPENING. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO MAINTAIN THE BUILDING IN A WEATHER TIGHT CONDITION.

## GENERAL NOTES

1. ALL WORK TO BE PERFORMED IN A NEGATIVE PRESSURE ENCLOSURE AS SPECIFIED.
2. CRITICAL BARRIERS SHALL BE INSTALLED AT ALL CRITICAL OPENINGS AS SPECIFIED.
3. ALL POLYETHYLENE SHEETING, WOOD, CAULKS, AND ANY OTHER MATERIALS UTILIZED FOR THE CONSTRUCTION OF THE WORK AREA CONTAINMENT AND DECONTAMINATION UNITS SHALL BE FIRE-RATED/RETARDANT.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SECURING THE WORK AREA WHEN NOT ON-SITE TO PREVENT UNAUTHORIZED ENTRY.
5. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION. ALL PROVISIONS OF THIS PLAN, THE SPECIFICATION, AND NJAC 5:23-8 APPLY. ANY DISCREPANCY SHALL REQUIRE THE MOST STRINGENT PROCEDURE BE APPLIED.

## SITE MAP



## LEGEND / SYMBOLS

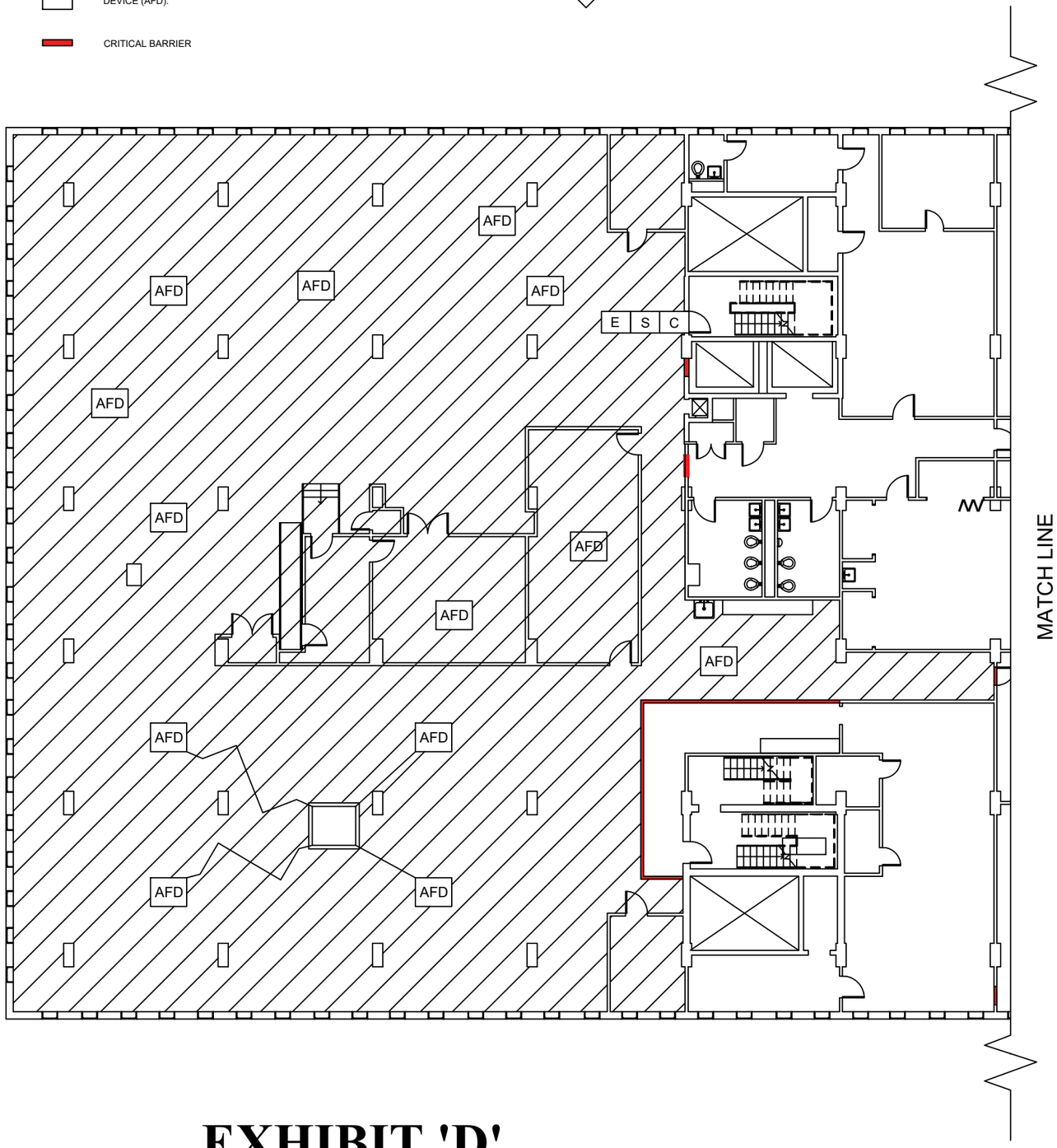
ASBESTOS ABATEMENT AND LIGHT BALLAST WORK AREA EXTENTS. WORK AREA ISOLATION VIA CRITICAL BARRIERS CONSTRUCTED OF TWO (2) LAYERS, SIX (6) MIL POLYETHYLENE SHEETING SECURED TO WALLS OR TEMPORARY WALLS OF RIGID CONSTRUCTION - AS NEEDED. CRITICAL BARRIERS AND WORK AREA CONTAINMENT POLYETHYLENE SHEETING SHALL BE INSTALLED IN ACCORDANCE WITH THE PROJECT SPECFICATIONS

C S E — THREE-STAGE PERSONAL DECONTAMINATION UNIT, CONSTRUCTED IN ACCORDANCE WITH PROJECT SPECIFICATIONS.

AFD — HIGH EFFICIENCY PARTICULATE AIR (HEPA) EQUIPPED AIR FILTRATION DEVICE (AFD).

AFD EXHAUST POINT

CRITICAL BARRIER




# EXHIBIT 'D'

ENVIRONMENTAL CONNECTION INC
A Vertical Technologies Corporation

Environmental Consulting, Auditing & Investigations
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| No. | Date | Issue or Revision |
|---|---|---|
| 01 | N/A | Issued for Review |

ASBESTOS & PCB ABATEMENT PLAN

NJDPMC

NEW JERSEY STATE LIBRARY
5TH FLOOR

185 WEST STATE STREET, TRENTON, NEW JERSEY

| | |
|---|---|
| Date: | August 23, 2022 |
| Scale: | NTS |
| Drawn By: | JJR |
| Project No: | 22268-01 |

Drawing Title

ACM & PCB ABATEMENT

Drawing No.

A-01

## SCOPE OF WORK

1. INSTALL CRITICAL BARRIERS ON ALL DIFFUSERS AND REGISTERS WITHIN THE WORK AREA EXTENTS. COORDINATE SHUT DOWN OF HVAC SYSTEM WITH FACILITY STAFF
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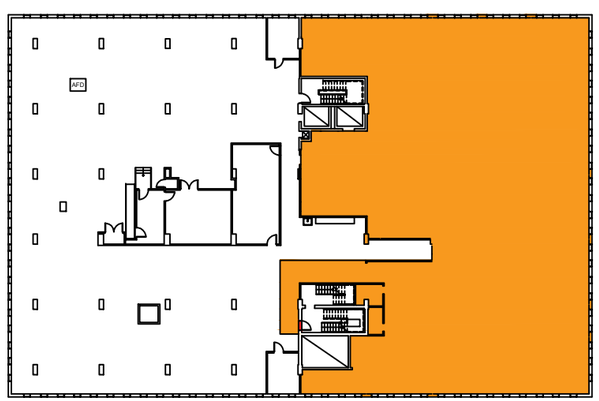


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CRITICAL BARRIER

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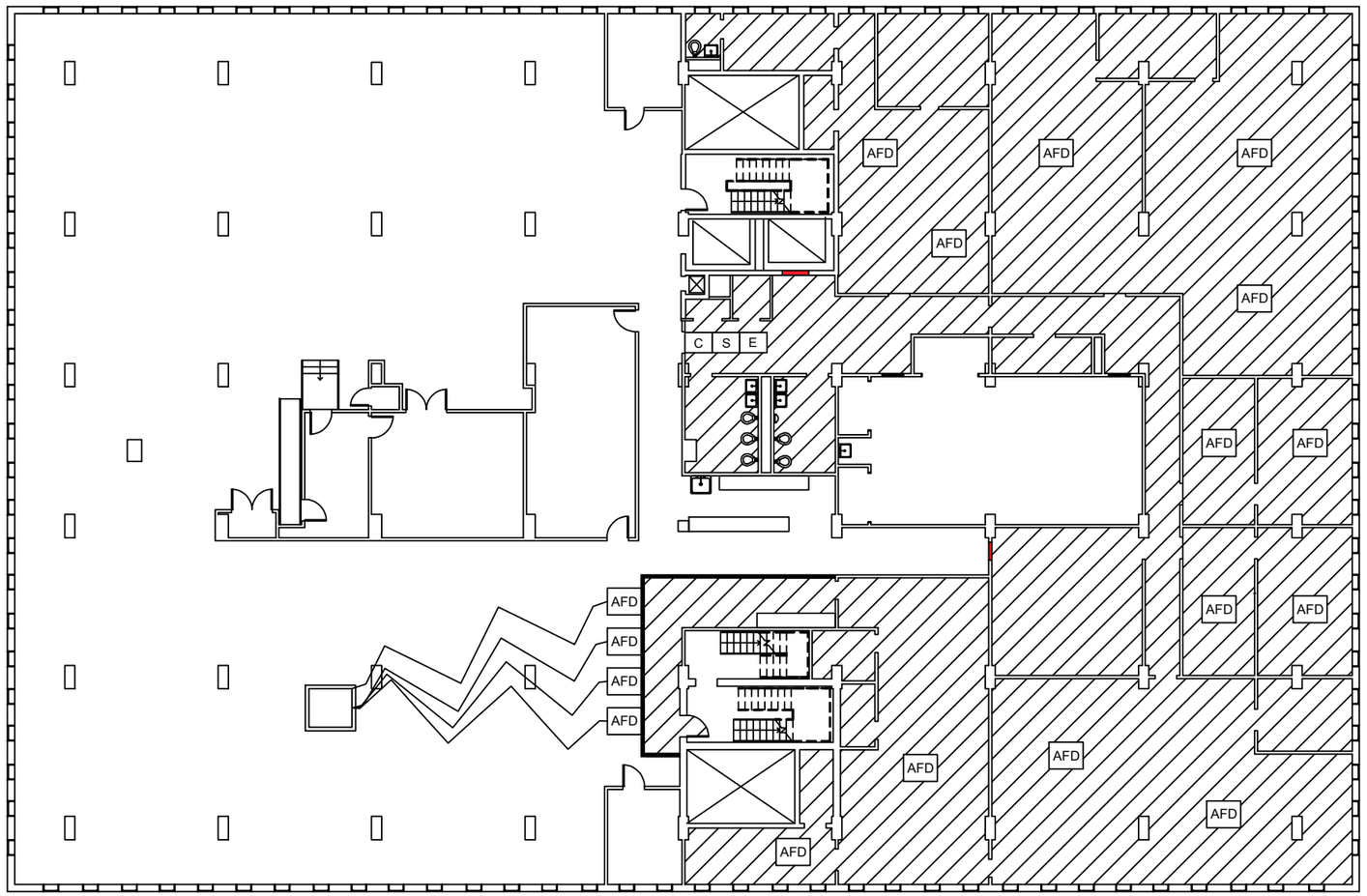
AFD EXHAUST POINT




# EXHIBIT 'D'

ENVIRONMENTAL CONNECTION INC
A Vertical Technologies Corporation

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120 North Warren Street
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| No. | Date | Issue or Revision |
|---|---|---|
| 01 | N/A | Issued for Review |

ASBESTOS & PCB ABATEMENT PLAN
NJDPMC
NEW JERSEY STATE LIBRARY
5TH FLOOR
185 WEST STATE STREET, TRENTON, NEW JERSEY

| | |
|---|---|
| Date: | August 23, 2022 |
| Scale: | NTS |
| Drawn By: | JJR |
| Project No: | 22268-01 |

Drawing Title
ACM & PCB ABATEMENT

Drawing No.
A-02

# EXHIBIT 'D'


ENVIRONMENTAL CONNECTION INC
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| 01 | N/A | Issued for Review |

ASBESTOS & PCB ABATEMENT PLAN
NJDPMC
NEW JERSEY STATE LIBRARY
5TH FLOOR
185 WEST STATE STREET, TRENTON, NEW JERSEY

Date: August 23, 2022
Scale: NTS
Drawn By: JJR
Project No: 22268-01

Drawing Title
HATCH PHOTOGRAPHS

Drawing No.
A-03

# ATTACHMENT 2

# REVISED NOTIFICATION OF PROTECTION AND POLICIES ON DPMC CONSTRUCTION PROJECTS EFFECTIVE JUNE 28, 2021



120 North Warren Street • Trenton, New Jersey 08608 • tel: 609-392-4200

# EXHIBIT 'D'

State of New Jersey
DEPARTMENT OF TREASURY
DIVISION OF PROPERTY MANAGEMENT & CONSTRUCTION
P O BOX 034
TRENTON NJ 08625-0034

PHILIP D. MURPHY
*Governor*

SHEILA Y. OLIVER
*Lt. Governor*

ELIZABETH MAHER MUOIO
*State Treasurer*

CHRISTOPHER CHIANESE
*Director*

June 28, 2021

**To All Contractors and Project Personnel on DPMC Construction Projects**:

All businesses engaged in construction projects in the State must adopt policies that include, at minimum, the following requirements **as per all active Executive Orders, NJDOH and CDC recommendations regarding COVID.**

**These policies and procedures are as follows:**

a. Prohibit non-essential visitors from entering the worksite;
b. Engage in appropriate social distancing measures when picking up or delivering equipment or materials;
c. For indoor gatherings require individuals to maintain six feet or more distance between them to the maximum extent possible with all individuals wearing cloth face coverings;
d. Stagger work start and stop times where practicable to limit the number of individuals entering and leaving the worksite concurrently;
e. Identify congested and "high-traffic areas," including but not limited to lunchrooms, breakrooms, portable rest rooms, and elevators, and limit the number of individuals at those areas concurrently where practicable and require individuals to wear cloth face coverings;
f. Stagger lunch breaks and work times where practicable to enable operations to safely continue while utilizing the least number of individuals possible at the site;
g. Require workers and visitors to the worksite to wear cloth face coverings while on the premises, in accordance with CDC recommendations, except where it is impracticable for an individual to wear a face mask, such as when the individual is eating or drinking or where a service being provided by the employer cannot be performed by an individual wearing a mask, and require workers to wear gloves while on the premises. Businesses must provide, at their expense, such face coverings. If a visitor refuses to wear a cloth face covering for non-medical reasons and if such covering cannot be provided to the individual by the business at the point of entry, then the business must decline entry to the individual. Nothing in the stated policy should prevent workers or visitors from wearing a surgical-grade mask or other more protective face covering if the individual is already in possession of such equipment, or if the businesses is otherwise required to provide such worker with more protective equipment due to the nature of the work involved. Where an individual declines to wear a face covering on the premises due to



# EXHIBIT 'D'

a medical condition that inhibits such usage, neither the business nor its staff shall require the individual to produce medical documentation verifying the stated condition;
h. Require infection control practices, such as regular hand washing, coughing and sneezing etiquette, and proper tissue usage and disposal;
i. Limit sharing of tools, equipment, and machinery and any shared equipment should be cleaned between uses;
j. Where running water is not available, provide portable washing stations with soap and/or alcohol-based hand sanitizers that contain at least 60% alcohol and sanitizing wipes that are approved by the United States EPA for SARS0CoV-2 virus to employees and visitors at no cost to the individuals. Employers may also adopt policies that require employees to wear gloves while at the worksite;
k. Routinely clean and disinfect all high-touch areas particularly in spaces that are accessible to employees or other individuals, including but not limited to restrooms, hand rails, door knobs, breakrooms, machinery, safety equipment and other frequently touched surfaces including employee used equipment, and ensure cleaning procedures following a known or potential exposure are in compliance with CDC recommendations;
l. When the worksite is an occupied residence, require workers to sanitize work areas and keep a distance of at least six feet from the occupants; and
m. Place conspicuous signage at entrances and throughout the worksite detailing the above mandates.

**Additionally, Contractors and Project Personnel on DPMC construction projects must continue to:**

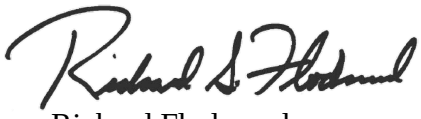
a. Prior to each shift, conduct daily health checks of employees, such as temperature screenings, visual symptom checking, self-assessment checklists, and/or health questionnaires, consistent with CDC guidance including latest CDC guidance regarding COVID-19 symptoms, consistent with the confidentiality requirements of the ADA, NJLAD and any other applicable laws, and consistent with any guidance from the Equal Employment Opportunity Commission ("EEOC") and the New Jersey Division on Civil Rights;
b. Immediately separate and send home workers who appear to have symptoms, as defined by the CDC, consistent with COVID-19 illness upon arrival at work or who become sick during the day;
c. Promptly notify workers of any known exposure to COVID-19 at the worksite, consistent with the confidentiality requirements of the Americans with Disabilities Act and any other applicable laws and consistent with the guidance from the EEOC;
d. Clean and disinfect the worksite in accordance with current CDC guidelines when a worker at the site has been diagnosed with COVID-19 illness; and
e. Continue to follow guidelines and directives issued by the New Jersey Department of Health, the CDC and the Occupational Health and Safety Administration, as applicable, for maintaining a clean, safe and healthy work environment.



# EXHIBIT 'D'

These protections, policies and directives issued in accordance with the referenced and all current Executive Orders and CDC recommendations shall remain in effect until revoked or modified by the Governor or as amended or clarified by the State Director of Emergency Management.

Respectfully,



Richard Flodmand
Deputy Director, Contract Administration
Division of Property Management
and Construction



**EXHIBIT 'D'**

State of New Jersey
DEPARTMENT OF TREASURY
DIVISION OF PROPERTY MANAGEMENT & CONSTRUCTION
P O BOX 034
TRENTON NJ 08625-0034

PHILIP D. MURPHY
*Governor*

SHEILA Y. OLIVER
*Lt. Governor*

ELIZABETH MAHER MUOIO
*State Treasurer*

CHRISTOPHER CHIANESE
*Director*

## E.O. 271 Pre-Award Certification

**DPMC Project # _____**

**Project Title:_____**

The undersigned hereby certifies on behalf of the Contractor/Consultant, pursuant to E.O. 271 (Murphy 2021) as follows:

1. The Contractor/Consultant has in place and maintains a policy requiring all covered workers to be fully vaccinated aginst COVID-19 and to provide adequate proof of same (as defined in E.O. 271), or submit to weekly COVID-19 testing;
2. All subcontractors have in place and maintain a policy that requires all covered workers to be fully vaccinated against COVID-19 and to provide adequate proof of same (as defined in E.O. 271) or submit to weekly COVID-19 testing;
3. The Contractor/Consultant will track vaccination status and COVID-19 test results and report same to local public health authorities.

By submitting a bid or proposal in response to the above-referenced Project, Contractor/Consultant further certifies that, if awarded a contract, it shall comply with all other requirements of EO 271.

_____
Firm Name

_____
Representative Name & Title

_____
Date



# EXHIBIT 'D'

State of New Jersey
DEPARTMENT OF TREASURY
DIVISION OF PROPERTY MANAGEMENT & CONSTRUCTION
P O BOX 034
TRENTON NJ 08625-0034

PHILIP D. MURPHY
*Governor*

SHEILA Y. OLIVER
*Lt. Governor*

ELIZABETH MAHER MUOIO
*State Treasurer*

CHRISTOPHER CHIANESE
*Director*

## E.O. 271 COVID-19 Invoice Certification

**DPMC Project #_____**

**Project Title: _____**

The undersigned hereby certifies, pursuant to E.O. 271 (Murphy, 2021), that it has complied with the requirements of E.O. 271 for the period of time covered by the attached invoice(s).

_____
Firm Name

_____
Representative Name & Title

_____
Date



# EXHIBIT 'D'

ENVIRONMENTAL CONNECTION INC
A Vertical Technologies Corporation

# REPORT

Pre-Renovation Environmental Building Assessment

New Jersey State Library
First Floor Law & References Section
185 West State Street
Trenton, New Jersey 08608

***Prepared For:***

State of New Jersey, Department of Treasury
Division of Property Management & Construction
P.O Box 038
20 West State Street, 3rd Floor
Trenton, NJ 08625-0038

***Prepared By:***

Environmental Connection, Inc.
120 North Warren Street
Trenton, New Jersey 08608

September 3, 2025

EC Project #: 22268-02

# EXHIBIT 'E'

## TABLE OF CONTENTS



# EXHIBIT 'E'

## Section 1.0 Executive Summary

Environmental Connection, Inc., (EC) was contracted by the State of New Jersey, Department of Treasury, Division of Property Management and Construction (DPMC), to perform a Pre-Renovation Environmental Building Assessment of the ceiling system and associated components throughout the Law & References section located on the first floor of the New Jersey State Library building. The assessment was performed to determine the composition of materials likely to be impacted by planned renovation activities. The assessment consisted of an Asbestos Containing Material (ACM) inspection and an inventory of Universal Waste Materials. The assessment was performed on August 13, 2025 by two (2) of EC's United States Environmental Protection Agency (USEPA) accredited Asbestos Building Inspectors.

Prior to commencement of the assessment, EC performed a review of available previous testing records for the building. The review revealed nine (9) previously identified asbestos containing materials and fifteen (15) assumed asbestos containing materials. Per the renovation scope of work, only one (1) of the previously identified materials, Wax Coated Red and White Wire Insulation, was deemed likely to be impacted by renovation activities.

During the assessment, EC collected 14 samples of seven (7) suspect asbestos containing materials for analysis. Laboratory analysis revealed that **one (1)** of the identified materials contains greater than 1% asbestos content by weight, the USEPA established threshold for classification as an asbestos containing material. The universal waste inventory revealed the presence of multiple universal waste materials likely to be impacted by renovation activities.

The following sections document the methodology and findings of the assessment.

## Section 2.0 Asbestos Containing Material Inspection

Asbestos is a naturally occurring mineral categorized into two (2) groups, Serpentine and Amphibole, based on morphology. The Serpentine group is comprised of Chrysotile asbestos, the Amphibole group consists of Amosite, Crocidolite, Tremolite, Anthophyllite, and other forms of asbestos. Asbestos was incorporated into more than 3,600 products for its fire resistance, tensile strength, inertness, chemical binding properties, and durability. Due to enhanced durability, asbestos containing products remain present in the built environment decades after installation. Public awareness of the hazards associated with airborne asbestos fibers increased through the 1970s and culminated in the adoption of the Asbestos Hazard Emergency Response Act (AHERA), signed into law (40 CFR, Part 763) in 1986.

The asbestos containing material inspection was performed in accordance with AHERA and encompassed all suspect asbestos containing materials likely to be impacted by renovation activities. Samples of suspect asbestos containing materials were collected in sufficient quantities as mandated by 40 CFR, Part 763.86. All samples were submitted to EMSL Analytical, Inc., for analysis utilizing Polarized Light Microscopy (PLM) via EPA Method 600/R-93/116. EMSL Analytical, Inc., is accredited by the American Industrial Hygiene Association (AIHA) and participates in the National Voluntary Laboratory Accreditation Program (NVLAP).

Emergency Regulatory Adoptions to New Jersey Administrative Codes (N.J.A.C.) 8:60 and 12:120, Volume 38, Issue 11, dated June 5, 2006, mandate that non-friable organically bound (NOB) suspect asbestos containing materials be analyzed via Transmission Electron Microscopy (TEM) analysis when

PLM analysis yields results of less than 1% asbestos by weight or "None Detected" for asbestos fibers. TEM uses electron imaging to identify asbestos fibers at a higher magnification.

Results for PLM and TEM analysis methods are reported in percentage by weight. According to the USEPA, materials containing greater than 1% asbestos content by weight are classified as asbestos containing materials. The following table summarizes the analytical results.

**Table 1 – Limited ACM Sampling Analytical Results Summary**
**New Jersey State Library**
**First Floor – Law & References Section**

| ID # | Material | PLM Results | TEM Results |
|---|---|---|---|
| **50** | **Wax Coated Red and White Wire Insulation** | **Previously Confirmed ACM** | |
| 51 | Yellow Glue associated with Foil Duct Insulation | None Detected | None Detected |
| 52 | Sealant at Concrete Ceiling Joint | None Detected | None Detected |
| 53 | Filler at Concrete Ceiling Joint | None Detected | None Detected |
| **54** | **Cementitious Panel** | **31% Chrysotile** | **N/A** |
| 54-A | Insulation associated with Cementitious Panel | None Detected | N/A |
| 55 | Perforated Metal Ceiling Tile Interior | None Detected | N/A |
| 56 | Brown Duct Sealant | None Detected | None Detected |

N/A – Not Applicable

One (1) of the newly identified materials was found to contain greater than 1% asbestos content by weight. One (1) previously identified asbestos containing material was deemed to likely be impacted by renovation activities. EC's inspectors quantified each suspect material as part of the inspection. The location and approximate total quantity of the confirmed asbestos containing materials likely to be impacted by renovation activities are included in Table 2 below. The Asbestos Analytical Report and Chain of Custody Record are included in Attachment I.

**Table 2 - Confirmed Asbestos Containing Material Quantity**
**New Jersey State Library**
**First Floor – Law & References Section**

| Material | Location | Quantity |
|---|---|---|
| Wax Coated Red and White Wire Insulation | Throughout associated with Light Fixtures | 1,800 LF |
| | **Total** | **1,800 LF** |
| | | |
| Cementitious Panel | Throughout First Floor at Perimeter Walls above Windows | 290 SF |
| | **Total** | **290 SF** |
| | | |

LF – Linear Feet | SF – Square Feet

**Section 3.0 Universal Waste Material Inventory**

EC also inventoried universal waste materials likely to be impacted by renovation activities. The identified materials are included in the Table below.

# EXHIBIT 'E'

| Table 3 – Universal Waste Materials<br>New Jersey State Library<br>First Floor – Law & References Section | |
|---|---|
| **Material** | **Quantity** |
| Light Ballasts | 340 |
| 4' Fluorescent Light Bulbs | 680 |
| Smoke Detectors | 53 |
| | |

The following paragraphs are brief summaries of the types of universal waste identified in the proposed renovation area.

Fluorescent lamps and mercury containing lamps contain heavy metal vapors, such as mercury, and should be collected and recycled. All mercury containing items should be removed intact and placed into a five (5) gallon bucket, with required warning and transportation labels. These should be transported and disposed/recycled in accordance with United States Department of Transportation (USDOT); USEPA Toxic Substance Control Act (TSCA); and State of New Jersey, Department of Environmental Protection, (DEP) requirements.

**Section 4.0 Project Limitations/Disclaimers**

The Client should be advised that quantities referenced herein are estimates/approximations. EC made every effort, inclusive of selective demolition, to access and sample all suspect hazardous materials. Where present, these materials were sampled in accordance with applicable Federal and State Regulations. EC does not claim that hidden materials may not still be present and inaccessible on, within, or beneath the various building components. EC does, however, assure that due diligence was observed in performing sampling as generally recognized by industry practices.

Should a previously unidentified suspect hazardous material be uncovered during renovation, activities should cease until the composition of the material is determined through sampling and analysis in accordance with 40 CFR, Part 763, and N.J.A.C. 8:60 and 12:120 for asbestos, inclusive of utilizing USEPA accredited Asbestos Building Inspectors to collect the appropriate number of samples and an AIHA accredited laboratory that is a NVLAP participant.

**Section 5.0 Conclusions & Recommendations**

The Pre-Renovation Environmental Building Assessment performed in the Law & References section located on the first floor of the New Jersey State Library building, revealed two (2) asbestos containing materials and several universal waste materials that are likely to be impacted by planned renovation activities. Based on the assessment findings, EC offers the following recommendations.

- Review the renovation scope of work to confirm that the identified materials will be impacted by renovation activities.

  Note: The identified asbestos containing cementitious panels are present along the perimeter wall above the windows.

- Employ a USEPA accredited Asbestos Project Designer to develop Plans and Specifications for asbestos abatement prior to commencement of renovation activities.

- Utilize a New Jersey Department of Labor licensed Asbestos Contractor to abate the asbestos containing materials prior to renovation activities in accordance with federal and New Jersey requirements for asbestos abatement.

- Perform air monitoring in accordance with federal and New Jersey requirements for asbestos abatement. EC recommends daily air monitoring during abatement activities in addition to clearance air monitoring at the completion of abatement activities.

- Identified universal waste materials should be handled and disposed of in accordance with applicable regulatory requirements.

Should you have any questions or require additional information, please contact the undersigned at your convenience.

Respectfully Submitted:
ENVIRONMENTAL CONNECTION, INC.

Jordan Reed, CIH, CSP
Project Manager

# EXHIBIT 'E'

Attachment I

Asbestos Containing Materials Sampling and Analytical Data

# EXHIBIT 'E'

# EMSL Analytical, Inc.

1056 Stelton Road Piscataway, NJ 08854
Phone/Fax: (732) 981-0550 / (732) 981-0551
http://www.EMSL.com / piscatawaylab@emsl.com


| | |
|---|---|
| EMSL Order ID: | 052504694 |
| Customer ID: | ENVI65 |
| Customer PO: | |
| Project ID: | |

**Attn:** Jordan Reed
Environmental Connection, Inc.
120 North Warren Street
Trenton, NJ 08608

| | |
|---|---|
| Phone: | (609) 392-4200 |
| Fax: | |
| Collected: | 8/13/2025 |
| Received: | 8/13/2025 |
| Analyzed: | 8/15/2025 |

**Proj:** 22268-02 / NJ DPMC, ACM Inspection, State Library

## Summary Test Report for Asbestos Analysis of Bulk Materials in Accordance with N.J.A.C. 8:60 and 12:120

***Client Sample ID:*** 01-JR081325 ***Lab Sample ID:*** **052504694-0001**

***Sample Description:*** Reading Rm/Yellow Glue Assoc W/ Foil Duct Insulation

| TEST | Analyzed Date | Color | Non-Asbestos Fibrous | Non-Asbestos Non-Fibrous | Asbestos | Comment |
|---|---|---|---|---|---|---|
| PLM | 8/14/2025 | Silver/Yellow | 68.0% | 32.0% | None Detected | |
| TEM Grav. Reduction | 8/15/2025 | Silver/Yellow | 0.0% | 100.0% | None Detected | |

***Client Sample ID:*** 02-JR081325 ***Lab Sample ID:*** **052504694-0002**

***Sample Description:*** Reading Rm/Yellow Glue Assoc W/ Foil Duct Insulation

| TEST | Analyzed Date | Color | Non-Asbestos Fibrous | Non-Asbestos Non-Fibrous | Asbestos | Comment |
|---|---|---|---|---|---|---|
| PLM | 8/14/2025 | Silver/Yellow | 63.0% | 37.0% | None Detected | |

***Client Sample ID:*** 03-JR081325 ***Lab Sample ID:*** **052504694-0003**

***Sample Description:*** Reading Rm/Sealant At Concrete Ceiling Joint

| TEST | Analyzed Date | Color | Non-Asbestos Fibrous | Non-Asbestos Non-Fibrous | Asbestos | Comment |
|---|---|---|---|---|---|---|
| TEM Grav. Reduction | 8/15/2025 | Black | 0.0% | 100.0% | None Detected | |

***Client Sample ID:*** 04-JR081325 ***Lab Sample ID:*** **052504694-0004**

***Sample Description:*** Reading Rm/Sealant At Concrete Ceiling Joint

| TEST | Analyzed Date | Color | Non-Asbestos Fibrous | Non-Asbestos Non-Fibrous | Asbestos | Comment |
|---|---|---|---|---|---|---|
| PLM | 8/14/2025 | Brown/Gray | 2.0% | 98.0% | None Detected | |

***Client Sample ID:*** 05-JR081325 ***Lab Sample ID:*** **052504694-0005**

***Sample Description:*** Reading Rm/Filler At Concrete Ceiling Joint

| TEST | Analyzed Date | Color | Non-Asbestos Fibrous | Non-Asbestos Non-Fibrous | Asbestos | Comment |
|---|---|---|---|---|---|---|
| TEM Grav. Reduction | 8/15/2025 | Black | 0.0% | 100.0% | None Detected | |

***Client Sample ID:*** 06-JR081325 ***Lab Sample ID:*** **052504694-0006**

***Sample Description:*** Reading Rm/Filler At Concrete Ceiling Joint

| TEST | Analyzed Date | Color | Non-Asbestos Fibrous | Non-Asbestos Non-Fibrous | Asbestos | Comment |
|---|---|---|---|---|---|---|
| PLM | 8/14/2025 | Brown/Gray | <1% | 100.0% | None Detected | |

***Client Sample ID:*** 07-JR081325 ***Lab Sample ID:*** **052504694-0007**

***Sample Description:*** Reading Rm/Cementitious Panel

| TEST | Analyzed Date | Color | Non-Asbestos Fibrous | Non-Asbestos Non-Fibrous | Asbestos | Comment |
|---|---|---|---|---|---|---|
| PLM | 8/14/2025 | Gray/White | 0.0% | 69.0% | **31% Chrysotile** | |



EXHIBIT 'E'

**EMSL Analytical, Inc.**
1056 Stelton Road Piscataway, NJ 08854
Phone/Fax: (732) 981-0550 / (732) 981-0551
http://www.EMSL.com / piscatawaylab@emsl.com

EMSL Order ID: 052504694
Customer ID: ENVI65
Customer PO:
Project ID:

## Summary Test Report for Asbestos Analysis of Bulk Materials in Accordance with N.J.A.C. 8:60 and 12:120

***Client Sample ID:*** 07A-JR081325 ***Lab Sample ID:*** **052504694-0008**
***Sample Description:*** Reading Rm/Insulation Assoc W/ Cementitious Panel

| TEST | Analyzed Date | Color | Non-Asbestos Fibrous | Non-Asbestos Non-Fibrous | Asbestos | Comment |
|---|---|---|---|---|---|---|
| PLM | 8/14/2025 | Brown | 90.0% | 10.0% | None Detected | |

***Client Sample ID:*** 08-JR081325 ***Lab Sample ID:*** **052504694-0009**
***Sample Description:*** Reading Rm/Cementitious Panel

| TEST | Analyzed Date | Color | Non-Asbestos Fibrous | Non-Asbestos Non-Fibrous | Asbestos | Comment |
|---|---|---|---|---|---|---|
| PLM | 8/14/2025 | | | | Positive Stop (Not Analyzed) | |

***Client Sample ID:*** 08A-JR081325 ***Lab Sample ID:*** **052504694-0010**
***Sample Description:*** Reading Rm/Insulation Assoc W/ Cementitious Panel

| TEST | Analyzed Date | Color | Non-Asbestos Fibrous | Non-Asbestos Non-Fibrous | Asbestos | Comment |
|---|---|---|---|---|---|---|
| PLM | 8/14/2025 | Brown | 90.0% | 10.0% | None Detected | |

***Client Sample ID:*** 09-JR081325 ***Lab Sample ID:*** **052504694-0011**
***Sample Description:*** Reading Rm/Perforated Metal Ceiling Tile Interior

| TEST | Analyzed Date | Color | Non-Asbestos Fibrous | Non-Asbestos Non-Fibrous | Asbestos | Comment |
|---|---|---|---|---|---|---|
| PLM | 8/14/2025 | Brown/Yellow | 65.0% | 35.0% | None Detected | |

***Client Sample ID:*** 10-JR081325 ***Lab Sample ID:*** **052504694-0012**
***Sample Description:*** Reading Rm/Perforated Metal Ceiling Tile Interior

| TEST | Analyzed Date | Color | Non-Asbestos Fibrous | Non-Asbestos Non-Fibrous | Asbestos | Comment |
|---|---|---|---|---|---|---|
| PLM | 8/14/2025 | Brown/Yellow | 82.0% | 18.0% | None Detected | |

***Client Sample ID:*** 11-JR081325 ***Lab Sample ID:*** **052504694-0013**
***Sample Description:*** Closet In Locker Rm/Brown Duct Sealant

| TEST | Analyzed Date | Color | Non-Asbestos Fibrous | Non-Asbestos Non-Fibrous | Asbestos | Comment |
|---|---|---|---|---|---|---|
| TEM Grav. Reduction | 8/15/2025 | Black | 0.0% | 100.0% | None Detected | |

***Client Sample ID:*** 12-JR081325 ***Lab Sample ID:*** **052504694-0014**
***Sample Description:*** Closet In Locker Rm/Brown Duct Sealant

| TEST | Analyzed Date | Color | Non-Asbestos Fibrous | Non-Asbestos Non-Fibrous | Asbestos | Comment |
|---|---|---|---|---|---|---|
| PLM | 8/14/2025 | Brown | 0.0% | 100.0% | None Detected | |



EXHIBIT 'E'

**EMSL Analytical, Inc.**

1056 Stelton Road Piscataway, NJ 08854
Phone/Fax: (732) 981-0550 / (732) 981-0551
http://www.EMSL.com / piscatawaylab@emsl.com

| | |
|---|---|
| EMSL Order ID: | 052504694 |
| Customer ID: | ENVI65 |
| Customer PO: | |
| Project ID: | |

**Summary Test Report for Asbestos Analysis of Bulk Materials in Accordance with N.J.A.C. 8:60 and 12:120**

**Analyst(s):**

| | |
|---|---|
| C. Michael Slattery | TEM Grav. Reduction (4) |
| Suzanne Matias | PLM (10) |

**Reviewed and approved by:**

C. Michael Slattery, Lab Manager
or Other Approved Signatory

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

Samples analyzed by EMSL Analytical, Inc. Piscataway, NJ NYS ELAP 11423, NVLAP Lab Code 101048-2, Philadelphia 289, CT PH-0266

Initial report from: 08/15/202516:48:30



EXHIBIT 'E'

OrderID: 052504694

052504694

# ENVIRONMENTAL CONNECTION INC

A Vertical Technologies Corporation

## Survey Form 04

| | | | |
|---|---|---|---|
| **CLIENT** | : NJ DPMC | **DATE** | : 08/13/2025 |
| **PROJECT** | : ACM Inspection | **TECHNICIAN** | : J Reed/ M Haviland |
| **BUILDING** | : State Library | **PROJECT #** | : 22268-02 |

### ASBESTOS ANALYSIS OF BULK MATERIALS via EPA600/R-93/116 USING PLM

| MATERIAL DESCRIPTION | SAMPLE | HOMO. AREA ID | ROOM NUMBER | PLM or TEM NOB |
|---|---|---|---|---|
| Yellow glue assoc. w/ foil duct insulation | 01-JR081325 | 51 | Reading Rm | PLM→TEM |
| Yellow glue assoc. w/ foil duct insulation | 02-JR081325 | 51 | Reading Rm | PLM |
| Sealant at concrete ceiling joint | 03-JR081325 | 52 | Reading Rm | TEM |
| Sealant at concrete ceiling joint | 04-JR081325 | 52 | Reading Rm | PLM |
| Filler at concrete ceiling joint | 05-JR081325 | 53 | Reading Rm | PLM & TEM |
| Filler at concrete ceiling joint | 06-JR081325 | 53 | Reading Rm | PLM |
| Cementitious panel | 07-JR081325 | 54 | Reading Rm | PLM |
| Insulation assoc. w/ Cementitious panel | 07A-JR081325 | 54A | Reading Rm | PLM |
| Cementitious panel | 08-JR081325 | 54 | Reading Rm | PLM |
| Insulation assoc. w/ Cementitious panel | 08A-JR081325 | 54A | Reading Rm | PLM |
| Perforated metal ceiling tile interior | 09-JR081325 | 55 | Reading Rm | PLM |
| Perforated metal ceiling tile interior | 10-JR081325 | 55 | Reading Rm | PLM |
| brown duct sealant | 11-JR081325 | 56 | Closet in Locker Rm | TEM |
| brown duct sealant | 12-JR081325 | 56 | Closet in Locker Rm | PLM |
| | | | | |
| | | | | |
| | | | | |

### CHECK EACH BOX THAT APPLIES

☒ Point Count Sample if <10% Asbestos by Weight ☒ NOB's - TEM if Sample(s) are None Detected or <1% ☒ Stop at First Positive Homo. Area ID Code

☐ 6 hr. TAT ☒ 48 24 hr. TAT ☐ 5 Day TAT ☐ Other_____

### CHAIN OF CUSTODY RECORD (CCR)

| RELINQUISHED BY | DATE | TIME | RECEIVED BY | DATE | TIME | REASON FOR CCR |
|---|---|---|---|---|---|---|
| J Reed | 8/13/25 | 1555 | | | | |

COMMENTS:_____

RECEIVED
AUG 13 2025
By KC 4pm
EMSL PISCATAWAY

120 North Warren Street • Trenton, New Jersey 08608 • tel: 609-392-4200 • fax: 609-392-1216



# EXHIBIT 'E'

Attachment II

Certifications/Accreditations

# EXHIBIT 'E'

Number 759972

Expiration Date:
07/15/2026

# *Certificate of Training*

## CRITERION LABORATORIES, INC.

**HEREBY CERTIFIES THAT**

## Jordan Reed

**HAS SUCCESSFULLY COMPLETED A 4 HOUR TELECONFERENCE COURSE ENTITLED**

## Asbestos Building Inspector Refresher

INCLUDING CLASSROOM INSTRUCTION

on this 15th day of July 2025

Approved for AHERA Accreditation Under TSCA Title II

**400 Street Road**
**Bensalem, PA 19020**
**(215) 244-1300 - Phone**
**(215) 244-4349 - Fax**
**www.criterionlabs.com**

*Course is conducted in English*

**DIRECTOR:** *Andrew O. Ward, Jr.*

***Andrew O. Ward, Jr., Training Manager***

# EXHIBIT 'E'

**New York State Department of Health Certificate of Asbestos Safety Training**

This form is the official record of successful completion of a New York State accredited asbestos safety training course.

Certificate No. 974619

**I –To be completed by Trainee**

| Name of Trainee (print) | NYS Depart. of Motor Vehicles ID (DMV ID)[1] |
|---|---|
| Michael Haviland | 276812961 |
| Signature of Trainee[2] | [redacted] |
| [redacted] | |

**II—To be completed by Training Sponsor**

| Provider's Name | Telephone Number |
|---|---|
| Big Apple Occupational Safety Inc. | |
| Address 505 Eighth Avenue # 2305 New York NY 10018 212-564-7656 | Course Location: Webinar |
| Zip Code www.baos.com | |

**Course Title:** Inspector ☐ Initial ☑ Refresher | *NYS DOH use only* ☐ DOH Equivalency [2]

**Training Language:** ☐ English ☐ Other: _____ Exam Grade/Date: 96% 3/7/25

**Dates of Training:** From: 3/7/25 To: 3/7/25 Expires: 3/7/26

I certify that the asbestos safety training course given on the above date complied with both 10 NYCRR Part 73 and TSCA Title II, was consistent with the curriculum and instructors approved by the New York State Department of Health, and the trainee receiving this certificate completed the training course and successfully passed the examination.

**Training Director[2]:** Yasmeen Reddy (Print) _____ (Signature)

DOH-2832 (10/03) [1] Optional Information [2] DOH Equivalency signed by NYS DOH representative only

DEPT OF LABOR

# EXHIBIT 'E'

United States Department of Commerce
National Institute of Standards and Technology

# Certificate of Accreditation to ISO/IEC 17025:2017

**NVLAP LAB CODE: 101048-2**

## EMSL Analytical, Inc.

Piscataway, NJ

*is accredited by the National Voluntary Laboratory Accreditation Program for specific services, listed on the Scope of Accreditation, for:*

## Asbestos Fiber Analysis

*This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017. This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (refer to joint ISO-ILAC-IAF Communique on ISO/IEC 17025).*

2025-07-01 through 2026-06-30

*Effective Dates*

*For the National Voluntary Laboratory Accreditation Program*

# EXHIBIT 'E'

# SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

**EMSL Analytical, Inc.**
1056 Stelton Rd.
Piscataway, NJ 08854
C. Michael Slattery
Phone: 732-981-0550
Email: cslattery@emsl.com
http://www.emsl.com

## ASBESTOS FIBER ANALYSIS — NVLAP LAB CODE 101048-2

### Bulk Asbestos Analysis

| *Code* | *Description* |
|---|---|
| 18/A01 | EPA -- 40 CFR Appendix E to Subpart E of Part 763, Interim Method of the Determination of Asbestos in Bulk Insulation Samples |
| 18/A03 | EPA 600/R-93/116: Method for the Determination of Asbestos in Bulk Building Materials |

### Airborne Asbestos Analysis

| *Code* | *Description* |
|---|---|
| 18/A02 | U.S. EPA's "Interim Transmission Electron Microscopy Analytical Methods-Mandatory and Nonmandatory-and Mandatory Section to Determine Completion of Response Actions" as found in 40 CFR, Part 763, Subpart E, Appendix A. |

*For the National Voluntary Laboratory Accreditation Program*

*Effective 2025-07-01 through 2026-06-30*



# EXHIBIT 'E'

Attachment III

Photograph Log

# EXHIBIT 'E'

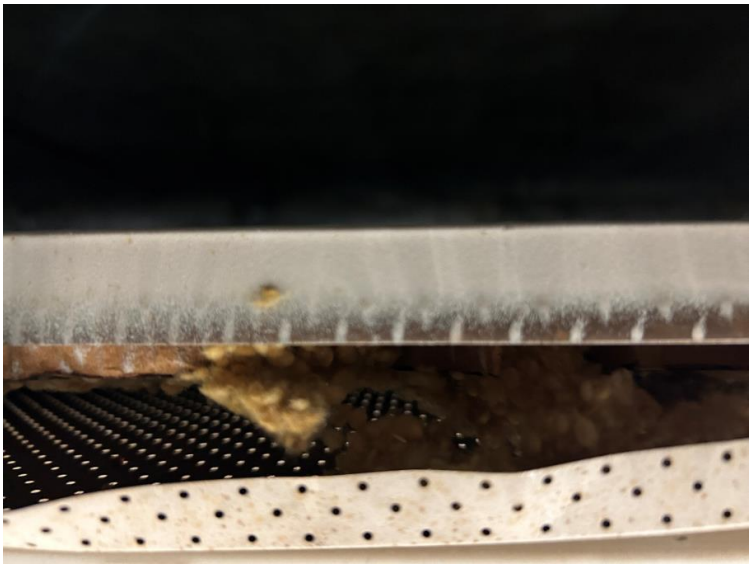
Photograph 1 – Overview of Law and References Section Plenum

Photograph 2 – Sealant and Filler at Ceiling Concrete Joints (None Detected/None Detected)

| ENVIRONMENTAL CONNECTION INC | Site Photographs | |
|---|---|---|
| | Date Taken | August 13, 2025 |
| | Client | NJDPMC |
| | Location | NJ State Library Law & References Section |
| EC Project # 22268-02 | Address | 185 West State Street, Trenton, New Jersey |

# EXHIBIT 'E'

Photograph 3 – Cementitious Panel and associated Insulation along Perimeter Wall (Confirmed ACM/None Detected)



Photograph 4 – Perforated Metal Ceiling Tile Interior (None Detected)

| ENVIRONMENTAL CONNECTION INC | Site Photographs | |
|---|---|---|
| | Date Taken | August 13, 2025 |
| | Client | NJDPMC |
| | Location | NJ State Library Law & References Section |
| EC Project # 22268-02 | Address | 185 West State Street, Trenton, New Jersey |

# EXHIBIT 'E'


Photograph 5 – Light Ballast – Not Labelled Non-PCB


Photograph 6 – Fluorescent Bulb Mercury Containing Label

| | | |
|---|---|---|
| ENVIRONMENTAL CONNECTION INC | **Site Photographs** | |
| | Date Taken | August 13, 2025 |
| | Client | NJDPMC |
| | Location | NJ State Library Law & References Section |
| EC Project # 22268-02 | Address | 185 West State Street, Trenton, New Jersey |

# EXHIBIT 'E'