



STATE OF NEW YORK  
OFFICE OF GENERAL SERVICES  
DESIGN AND CONSTRUCTION GROUP  
THE GOVERNOR NELSON A. ROCKEFELLER  
EMPIRE STATE PLAZA  
ALBANY, NY 12242



---

---

**ADDENDUM NO. 2 TO PROJECT NO. 43286**

**CONSTRUCTION WORK, HVAC WORK, AND ELECTRICAL WORK  
UPGRADE ELECTRICAL SYSTEM, REPLACE DOORS AND  
PROVIDE DOOR SECURITY  
NYS POLICE HEADQUARTERS TROOP L  
7140 REPUBLIC AIRPORT  
FARMINGDALE, NY**

January 20, 2012

**NOTE:** This Addendum forms a part of the Contract Documents. Insert it in the Project Manual. Acknowledge receipt of this Addendum in the space provided on the Bid Form.

**SPECIFICATIONS**

**COMMON DOCUMENTS- DIVISION 1**

1. Section 011000 "Summary of the Work"
  - a. Replace this section in its entirety as attached.
2. Delete duplicate specification section titled "SECTION 013300 - SUBMITTALS" whose file name is "013300Submittals.pdf" in its entirety. Retain the section whose file named is "013300SubmittalsElectronicVersion.pdf"
3. Table of Contents: Add "Asbestos and Lead survey report" to the Appendix. The Asbestos and Lead Survey Report is attached.

**CONSTRUCTION WORK DRAWINGS:**

4. Drawings A-201A, A-201B, A-202
  - a. **Clarification:** Rooms graphically shown with 1x1 ceiling tiles – similarly to Rooms 128, 130 and a portion of both 120 and 121 – shall be provided with ceiling tile Type ACT-2. All other spaces indicated to receive a suspended ceiling shall be provided with ceiling tile Type ACT-1.

**ELECTRICAL WORK DRAWINGS:**

5. Sheet 20 of 43, labeled drawing number E-001

**ADDENDUM NO. 2 TO PROJECT NO. 43286**

- a. Change the drawing number on sheet 20 of 43 from E-001 to E-106.
6. Drawing No. E-114
- a. Delete Ceiling mounted speakers indicated in Corr-225 and Corr-230 from the work of this contract.

**ELECTRICAL WORK SPECIFICATIONS**

7. Section 260536, "Cable Trays for Electrical Systems"
- a. Add this section in its entirety as attached.

**END OF ADDENDUM**

James Dirolf, P.E.  
Director of Design

## SECTION 011000

### SUMMARY OF THE WORK

#### PART 1 GENERAL

##### 1.01 WORK COVERED BY CONTRACT DOCUMENTS

- A. The title and location of the Work is printed on the cover of this Project Manual.
- B. Type of Contract: Fixed price.

##### 1.02 RELATED CONTRACTS

- A. The Project consists of the following separate contracts:

Construction Work	Project No. -C
HVAC Work	Project No. -H
Plumbing Work	Project No. -P
Electrical Work	Project No. -E
- B. The suffix letter at the end of the project number distinguishes the separate Contracts. The Sections in Division 01 of the Specifications which have more than one suffix letter (such as this Section) are common to each related Contract.

##### 1.03 CONCURRENT PROJECTS

- A. The following projects will be taking place concurrently with the work of this project:

Construction Work	Project No. -C
HVAC Work	Project No. -H
Plumbing Work	Project No. -P
Electrical Work	Project No. -E
- B. Coordinate the work of this project, thru the Director's Representative, to avoid conflicts with concurrent contracts.

##### 1.04 SUBSTANTIAL AND PHYSICAL COMPLETION DATES

- A. Substantially complete the Work within \_\_\_\_\_ days after the Agreement is approved by the Comptroller.
  - 1. The time allocated for the performance of work under this contract includes 10 days for notification of the Contractor of the Comptroller's approval of the Agreement.
  - 2. The approval of the Agreement by the Comptroller constitutes the filing of the Contract Documents as a public record and notice to the Contractor that a fully executed contract exists between the Contractor and the State.

- B. Physically complete the Work within 90 days after the established Substantial Completion date.

#### **1.05 CONTRACT AWARD SUBMITTALS**

- A. Submittal No. 1 (Lead Contractor Only): Establish the subscription with the electronic submittals website provider as described in ELECTRONIC SUBMITTALS Article in Specifications Section 013300, and submit not later than 10 days after approval of the Contract by the Comptroller.
- B. Submittal No. 2: Submit the CONTRACTOR'S LIST OF SUBCONTRACTORS-SUPPLIERS information required in SCHEDULES AND RECORDS Article in Specification Section 013000 not later than 15 days after approval of the Contract by the Comptroller.
- C. Submittal No.3: Submit the CONTRACTOR'S PROGRESS SCHEDULE information required in SCHEDULES AND RECORDS Article in Specification Section 013000 not later than 15 days after approval of the Contract by the Comptroller.

#### **1.06 RESTRICTED WORK PERIOD**

- A. Do not perform the roofing and related Work between December 1<sup>st</sup> and April 1<sup>st</sup> unless approved otherwise, in writing, by the Director. During this period, clear the roof of materials, equipment, and debris. Maintain the roof in a watertight condition.
  - 1. The above period will not be included in the number of days specified for completion of the Work of all contracts.
- B. Construction Work Contract: The Work includes disturbance of roofing materials containing asbestos fibers. If a variance to Industrial Code Rule No. 56 is sought, do not perform the roofing and related Work until the variance is received from the New York State Department of Labor.
  - 1. If a variance is sought, the time required to obtain the variance will not be included in the number of days specified for completion of the Work.
  - 2. If a variance is sought, forward the required forms to the Department of Labor within 14 days after the Agreement is approved by the Comptroller.
  - 3. If a variance is sought, begin the roofing and related Work within 14 days of receipt of the variance.
- C. Do not perform Work requiring shut off of active heating piping and equipment between October 15<sup>th</sup> and May 1<sup>st</sup> unless approved otherwise, in writing, by the Director.
  - 1. The above period will not be included in the number of days specified for completion of the Work of all contracts.
- D. Do not perform Work requiring installation of underground prefabricated steel conduit under Section 232100 or 232101 between December 1<sup>st</sup> and April 1<sup>st</sup> unless approved otherwise, in writing, by the Director.

1. The above period will not be included in the number of days specified for completion of the Work of all contracts.
- E. Asbestos-containing materials will be abated by the \_\_\_\_\_ Work Contractor. Do not perform other Work in the area of such activity during the abatement of asbestos-containing materials.

#### **1.07 ITEMS NOT INCLUDED**

- A. The following items shown on the Drawings are not included in the Contract:
1. Items indicated "NIC" (Not in Contract).
  2. Existing construction, except where such construction is to be removed, replaced, or altered.

#### **1.08 CONFINED SPACE**

- A. Comply with confined space and permit-required confined space as defined in Title 29, Part 1910, Section 146 of the Code of Federal Regulations (29CFR 1910.146).
- B. Indicated confined spaces are not intended to limit or define Contractor's or subcontractors' regulatory compliance requirements. In addition to confined spaces indicated on the drawings, other confined spaces may be present or created by the work of this contract. Notify the Director's Representative, in writing, of confined spaces created or eliminated during execution of the Work.
- C. For the purpose of inspecting ongoing work, furnish at no additional cost to the State, personnel, as directed, to allow the Director's Representative to enter confined space and permit-required confined space in compliance with Title 29, Part 1910, Section 146 of the Code of Federal Regulations (29CFR 1910.146).

#### **1.09 OCCUPANCY**

- A. This is an occupied Facility. The building will be occupied and operational during execution of the Work. Ingress to and egress from the building shall be maintained at all times.
- B. This is an occupied Facility. The building, except for the work areas, will be occupied during execution of the Work. Ingress to and egress from the building shall be maintained at all times.
- C. This is an occupied Facility, however, the building will be vacated during execution of the Work.

#### **1.10 CONNECTION TO ELECTRICAL EQUIPMENT OR SYSTEMS**

- A. Contractor will not be allowed to tie into electrical equipment or systems until the Division of Utilities Management has reviewed and approved the connection.

1. Submit written procedures thru the Director's Representative to the Division of Utilities Management, detailing how the connection Work is proposed to be performed.
2. After procedures have been approved, notify the Director's Representative at least 3 working days prior to the connection Work so that arrangements can be made to have a Division of Utilities Management Representative witness the Work.

#### **1.11 CONTRACTOR USE OF PREMISES**

- A. Work hours shall be as established by the Facility authorities thru the Director's Representative.
- B. Inform the Director's Representative of work area access requirements. The Director's Representative will coordinate and schedule the requirements with Facility staff to obtain and ensure timely availability of work areas.
- C. Check in with the Facility Representative, as directed, at the beginning of each work day. Furnish information regarding where employees will be working during the day.
- D. Comply with the Facility's Visitor Identification Policy. A copy of the current policy will be distributed at the initial job meeting.
- E. The following items are not allowed on the Site or on Facility premises.
  1. Firearms, ammunition, weapons, and dangerous instruments (other than tools required for the Work).
  2. Alcoholic beverages and persons under the influence of same.
  3. Illegal controlled substances and persons under the influence of same.
  4. Cameras (except with written permission from the Director's Representative).
- F. Comply with Facility policies relating to smoking at the Site.
- G. Routes of ingress and egress within the building to the location of the Work shall be as directed by the Director's Representative.
- H. Store materials and perform the Work so that pedestrian and vehicular traffic is not obstructed.
- I. Do not diminish the level of life safety during performance of the Work.
- J. Furniture and portable equipment which interferes with execution of the Work will be removed and reset by Facility personnel.
- K. Remove furniture and portable equipment which interferes with the execution of the Work and store where directed. Reset such items when directed.
- L. Utility Outages and Shutdowns: Do not interrupt utility services or branch services within the building except for the time required to make new

connections. Arrange with the Director's Representative for the time and duration of interruptions of services. Provide temporary services required to maintain building services at all times other than during scheduled interruptions.

- M. Utility Outages and Shutdowns: Do not interrupt utility services or branch services within the building. Provide temporary services required to maintain such services at all times.
- N. Utility Outages and Shutdowns: Perform Work which will cause interruptions of utility services or branch services within the building at such times as directed by the Director's Representative, on weekdays between the hours of 6:00 p.m. and 6:00 a.m. or on Saturdays or Sundays.
  - 1. \_\_\_\_\_ Work Contract: During the asbestos abatement portion of the Project, comply with the requirements specified in Section 028213.
- O. Use of Existing Elevators:
  - 1. Elevators for transportation of workers and materials will be designated by the Director's Representative. Arrange the time and duration of such use with the Director's Representative. Do not exceed capacity of elevators. Provide padding or other protection for the car.
  - 2. During Periods of Exclusive Use:
    - a. Operate elevators. Prevent unauthorized persons from using elevators.
    - b. Where an existing elevator service contract exists, make arrangements thru the Director's Representative for repairs required due to misuse or negligence. Pay elevator service company's fees for repairs.
    - c. Where an existing elevator service contract does not exist, have repairs required due to misuse or negligence made by a qualified elevator company.
- P. Do not use existing elevators for the Work.
- Q. Be responsible and accountable for employees, suppliers, subcontractors and their employees, with regard to their use of the premises. Direct them to comply with the Facility Regulations and with the security and traffic regulations.
- R. Furnish Facility authorities with a telephone number or method to contact the supervisor for the Work in case of an emergency after work hours, including weekends and holidays.
- S. Comply with applicable federal and State of New York Right-to-Know Law provisions and supply copies of the appropriate Material Safety Data Sheets (MSDS) to the Director's Representative, and to the Facility's Right-to-Know Information Officer.
- T. Direct employees to be watchful for people in or near the work area where safety hazards may be present. Notify the Facility Safety/Security Department, if necessary, to remove them from the work area or Site.

- U. Report fire and other emergency situations to the Facility Safety/Security Department immediately.

### **1.12 FACILITY REGULATIONS**

- A. Do not physically, verbally, or psychologically mistreat patients, clients, or other persons at the Facility.
- B. Do not receive from or give to patients, clients, or other persons at the Facility, any items (food, cigarettes, money, matches, mail, etc.) as this practice may be harmful to the treatment plan or may be illegal.
- C. Do not have sexual relations with any patient or client. This, even at their invitation, is a crime and may be a felony.

### **1.13 OPENINGS AND CHASES IN NEW CONSTRUCTION**

- A. Construction Work Contract:
  - 1. Unless specifically indicated otherwise, provide openings, chases, and similar items in new construction provided under this Contract, as required for items to be provided under related contracts.
  - 2. After the installation and completion of the items for which openings and chases have been provided, build in, over, around and finish the openings and chases to complete the Work.
  - 3. Provide all cutting, patching, and refinishing resulting from failure to provide the required openings and chases, if the necessary information was furnished by the related contractor before 24 hours of start of the applicable part of the Work.
  - 4. If related contractors fail to furnish drawings or written information covering the openings and chases they require in new construction at least 24 hours before installation of the Work affected by those items, the related contractors will be required to do all cutting, patching, and refinishing of the construction so affected, at their own expense.
- B. HVAC Work, Plumbing Work, and Electrical Work Contracts:
  - 1. Unless specifically indicated otherwise, furnish drawings or written information to the Construction Work Contractor covering the openings and chases required in new construction for the Work. If such information is not furnished at least 24 hours before start of the applicable part of the Construction Work Contractor's work, all necessary cutting, patching and refinishing will be included in the Contract at no additional cost to the State.
- C. All Contracts: Locate and field drill or cut required openings under 10 inches (in diameter or on a side), which were not plant fabricated, in precast prestressed concrete units after the units have been installed. Such openings and/or cutting of prestressing strand shall be approved by the Design Engineer and prestressed unit manufacturer before drilling or cutting.

1. Refinish exposed surfaces damaged during drilling or cutting operations (if unit is not structurally damaged) to match adjacent area.
2. Replace units structurally damaged during drilling or cutting operations.

#### **1.14 SPRAYED-ON FIREPROOFING FOR NEW CONSTRUCTION**

- A. Construction Work Contract:
  1. Notify the related contractors 5 working days prior to the application of fireproofing.
  2. If related contractors fail to install hangers, clips, sleeves, and other items that will penetrate the fireproofing, the related contractors will be required to cut and repair the fireproofing at their own expense.
- B. HVAC Work, Plumbing Work, and Electrical Work Contracts:
  1. Construction Work Contractor will give 5 working days notice prior to application of fireproofing.
  2. If hangers, clips, sleeves, and other items that will penetrate the fireproofing are not in place before application of the fireproofing by the Construction Work Contractor, all necessary cutting and repair of the fireproofing will be included in the Contract at no additional cost to the State.

#### **1.15 REFERENCE SPECIFICATIONS AND STANDARDS**

- A. Comply with the requirements of the various specifications and standards referred to in these Specifications, except where they conflict with the requirements of these Specifications. Such reference specifications and standards shall be the date of latest revision in effect at the time of receiving bids, unless the date is given.
- B. DOT Specifications: If the abbreviation DOT appears in these Specifications, it shall mean the most current edition of the New York State Department of Transportation, Office of Engineering specifications entitled "STANDARD SPECIFICATIONS - CONSTRUCTION AND MATERIALS", including all applicable Addenda in effect at the time of receipt of bids. The DOT specifications may be purchased from the Department of Transportation, Plan and Publication Sales, 50 Wolf Road, Albany, NY 12232, (518) 457-2124.

#### **1.16 LAYING OUT**

- A. Examine the Contract Documents thoroughly and promptly report any errors or discrepancies to the Director's Representative before commencing the Work.
- B. Lay out the Work in accordance with the Contract Documents.
  1. Layouts which require the establishment of property lines or monuments shall be performed by a Land Surveyor licensed by New York State.
- C. Construction Work Contract:
  1. Location of the building on the Site shall be performed by a licensed Land Surveyor or Professional Engineer.

2. Provide and maintain axis lines on each floor.
3. Provide and maintain marks 4 feet above finish floor on each column at each floor.
4. Take elevations and locations from control points located by the Director's Representative.

#### **1.17 SPECIAL INSPECTIONS**

- A. Special Inspections and tests are required by Chapter 17 of the Building Code of New York State (BCNYS). Inspections & Testing Services will be provided by the state unless otherwise noted.
- B. Contractors are responsible for notifying the Directors Representative regarding individual inspections listed in the **STATEMENT OF SPECIAL INSPECTIONS**. Contractors shall cooperate with the inspectors and testing agencies and sufficient notice and lead time (minimum 48 hours) must be allowed for inspection and testing to be performed.
- C. Where deficiencies are identified, the contractor must take corrective actions to comply with the contract documents or remedy the deficiencies in accordance with Article 9 of the General Conditions

#### **PART 2 PRODUCTS (Not Used)**

#### **PART 3 EXECUTION (Not Used)**

**END OF SECTION**

PRE-RENOVATION SURVEY  
FOR  
ASBESTOS-CONTAINING MATERIALS  
AND  
LEAD-BASED PAINT  
FOR THE  
ELECTRICAL SYSTEMS UPGRADE  
AT  
FARMINGDALE STATE POLICE HEADQUARTERS  
7140 REPUBLIC AIRPORT  
EAST FARMINGDALE, NEW YORK

APRIL 2008

PREPARED FOR:

LABELLA ASSOCIATES, P.C.  
300 STATE STREET, SUITE 201  
ROCHESTER, NEW YORK

PREPARED BY:

**WATTS**  
ARCHITECTURE &  
ENGINEERING, P.C.



3826 Main Street  
Buffalo, New York 14226  
p: 716.836.1540  
f: 716.836.2402

**PRE-RENOVATION SURVEY**  
**FOR**  
**ASBESTOS-CONTAINING MATERIALS**  
**AND**  
**LEAD-BASED PAINT**  
**FOR THE**  
**ELECTRICAL SYSTEMS UPGRADE**  
**AT**  
**FARMINGDALE STATE POLICE HEADQUARTERS**  
**7140 REPUBLIC AIRPORT**  
**EAST FARMINGDALE, NEW YORK**

**APRIL 2008**

**PREPARED FOR:**

**LABELLA ASSOCIATES, P.C.**  
**300 STATE STREET, SUITE 201**  
**ROCHESTER, NEW YORK**

**PREPARED BY:**

**WATTS ARCHITECTURE & ENGINEERING, P.C.**  
**3826 MAIN STREET**  
**BUFFALO, NEW YORK**

# TABLE OF CONTENTS

1.0 – EXECUTIVE SUMMARY

2.0 – SUMMARY OF FINDINGS

3.0 – LABORATORY REPORT

3.1 POLARIZED LIGHT MICROSCOPY (PLM)

3.2 TRANSMISSION ELECTRON MICROSCOPY (TEM)

3.3 CHAIN-OF-CUSTODY FORMS

4.0 – LEAD-BASED PAINT

4.1 XRF READINGS

5.0 – LABORATORY ACCREDITATIONS

6.0 – CONSULTANT'S LICENSES AND CERTIFICATIONS

---

## 1.0 - EXECUTIVE SUMMARY

---

## 1.0 EXECUTIVE SUMMARY

Watts Architecture & Engineering, P. C. (Watts) was retained by LaBella Associates, P.C. to perform a pre-renovation survey for asbestos-containing materials (ACM), and lead-based paint (LBP) for the Electrical Systems Upgrade project at the Farmingdale State Police Headquarters located at 7140 Republic Airport in East Farmingdale, New York. The purpose of the survey was to assess the conditions with respect to ACM and LBP as part of the preparation for the upcoming electrical upgrade project.

The field work was conducted on April 2, 2008 and included the following:

- A visual site inspection of the various areas to identify suspect ACM and LBP that may be disturbed during the planned electrical systems upgrade project.
- Collection and laboratory analysis of samples from each identified suspect material within the affected areas that may be disturbed by the project.
- Documentation of bulk sample locations on floor-plan drawings and chain-of-custody forms.

### ASBESTOS-CONTAINING MATERIALS

The inspection included the collection and analysis of a total of thirty-six (36) bulk samples to represent all identified suspect ACM that may be disturbed by this project. ACM is defined as any material containing more than one percent (1%) of asbestos. Based on the laboratory analysis and visual observations, the following ACM have been identified:

- 12" x 12" olive floor tile in various areas throughout the building. The 12" x 12" olive floor tile is in Rooms 127, 211, 213, 214, 215, 216 and 217.
- 12" x 12" white floor tile in various areas throughout the building. The 12" x 12" white floor tile was on the raised floor in Room 137 and on the concrete slab in Rooms 139, 141, 144, 145 and the first floor corridor.

The following materials have been tested and are not ACM:

- Insulation on the emergency generator exhaust.
- Drywall and associated joint compound.
- Sprayed-on fireproofing.
- 2' x 4' textured ceiling tile.
- 2' x 4' acoustic ceiling tile.
- 2' x 2' square patterned ceiling tile.
- 2' x 4' square patterned ceiling tile.
- Carpet mastic.

- 12" x 12" gray floor tile and the associated mastic.
- Floor tile mastic for the 12" x 12" white floor tile.
- Floor tile mastic for the 12" x 12" olive floor tile.

Watts investigated the wire insulation associated with the light fixtures and determined that the wiring was not a suspect material. Therefore, no samples of the wire insulation were collected.

Refer to the asbestos bulk sample location drawings in Section 2 for the approximate location of where the samples were collected.

## SAMPLING AND LABORATORY METHODOLOGY

A NYSDOL-certified asbestos inspector from Watts collected bulk samples of all suspect ACM that have the potential to be disturbed as a result of the electrical upgrade work, i.e. ceilings walls and floors. Bulk samples were collected using simple hand tools from each matrix identified as a potential ACM.

Samples were delivered with the proper chain-of-custody forms to a New York State accredited laboratory that is a participant in the Environmental Laboratory Approval Program (ELAP) and National Voluntary Laboratory Approval Program (NVLAP). All materials, except non-friable organically bound (NOB) materials, were analyzed using Polarized Light Microscopy (PLM) using Method 198.1. NOBs, which include but are not limited to, flooring, mastics, etc., underwent gravimetric reduction prior to being analyzed by PLM Method 198.6 and Transmission Electron Microscopy (TEM) Method 198.4 if inconclusive after PLM. The New York State Department of Health (NYSDOH) protocol requires analysis by TEM if the PLM analysis does not confirm the presence of asbestos.

It is the belief of Watts that this investigation has identified all suspect asbestos-containing materials that may be disturbed by this project. However, if additional suspect materials are identified during the construction period that have not been previously sampled or sampled as part of this assessment, it is recommended that samples of each material be collected and analyzed for asbestos content.

## LEAD-BASED PAINT

### METHODOLOGY

Painted building components were grouped by testing combinations. A testing combination is characterized by location, component type, substrate, and visible color. Refer to section 4.1 for a complete listing of all XRF readings that were taken for this project.

Each XRF reading is identified by the side of the room it was collected from (A, B, C & D), the component analyzed, the substrate and the paint color of the visible paint film. Side "A" of any

room in a LBP inspection is the side the inspector faces when facing the address (entrance) side of the building. Sides "B, C and D" progress in a clockwise direction from side "A." Watts utilized the room numbers that were identified on the floor plans provided to Watts prior to our site visit.

The LBP survey was performed using the Department of Housing and Urban Development (HUD) protocol. Certain aspects of the HUD guidelines are typically applied to public and commercial buildings, most commonly the levels used to establish LBP. HUD defines LBP, when analyzed by a portable XRF, as paint that contains lead at 1.0 milligram per square centimeter or greater. When paint chips are analyzed by Atomic Absorption Spectroscopy (AAS), HUD defines LBP as paint containing 0.5 percent or greater (>0.5%) lead by weight.

### XRF CALIBRATION

In order to field verify the calibration and accuracy of the XRF equipment, calibration checks are made both by the equipment itself and by the operator. The XRF equipment will check its calibration by taking a reading from its own tungsten shutter. If the XRF finds a discrepancy in comparing the reading with the manufacturer's calibrated reading for tungsten, the XRF will display a notice to the operator that the equipment is out of calibration. If no discrepancy is found in the XRF self-calibration check, the operator checks the calibration of the XRF against National Institute of Standards and Technology (NIST) lead samples that are provided by the manufacturer. Both the XRF self-calibration check and the operator's calibration checks will appear in the table of XRF readings in section 4.0, as Shutter Cal 1 and Calibration respectively. The operator's calibration checks are taken at the beginning and the end of the survey and these limits are 0.9 to 1.3 mg/cm<sup>2</sup>. All calibration readings were within the acceptable limits.

### FINDINGS

The following building components were identified to be covered with lead-based paint as a result of the XRF testing:

- Blue ceramic wall tile in the second floor bathrooms.
- Structural steel

Representative XRF readings were taken on select building components throughout the project limits. In general, the following painted building components were tested:

- Walls (wood, cork, drywall and concrete).
- Structural steel (exposed in the basement).
- Concrete floors.
- Ceramic wall tile.
- Drywall ceiling soffit.
- Metal door casings.

---

## 2.0 – SUMMARY OF FINDINGS

---

## 2.0 SUMMARY OF FINDINGS

This section includes information on all suspect ACM sampled. This section contains the following: Homogeneous Materials List containing the homogeneous materials identified their corresponding sample numbers and whether or not they are ACM, as well as drawings identifying the approximate locations of asbestos bulk samples.

### Abbreviations:

NA - Not analyzed.

ND - None detected.

NAD - No asbestos detected.

NON-ACM – Final Residue < 1% of original subsample after gravimetric reduction.

### Type

T = Thermal

S = Surfacing

M = Miscellaneous

### ACM

Y = Yes

N = No

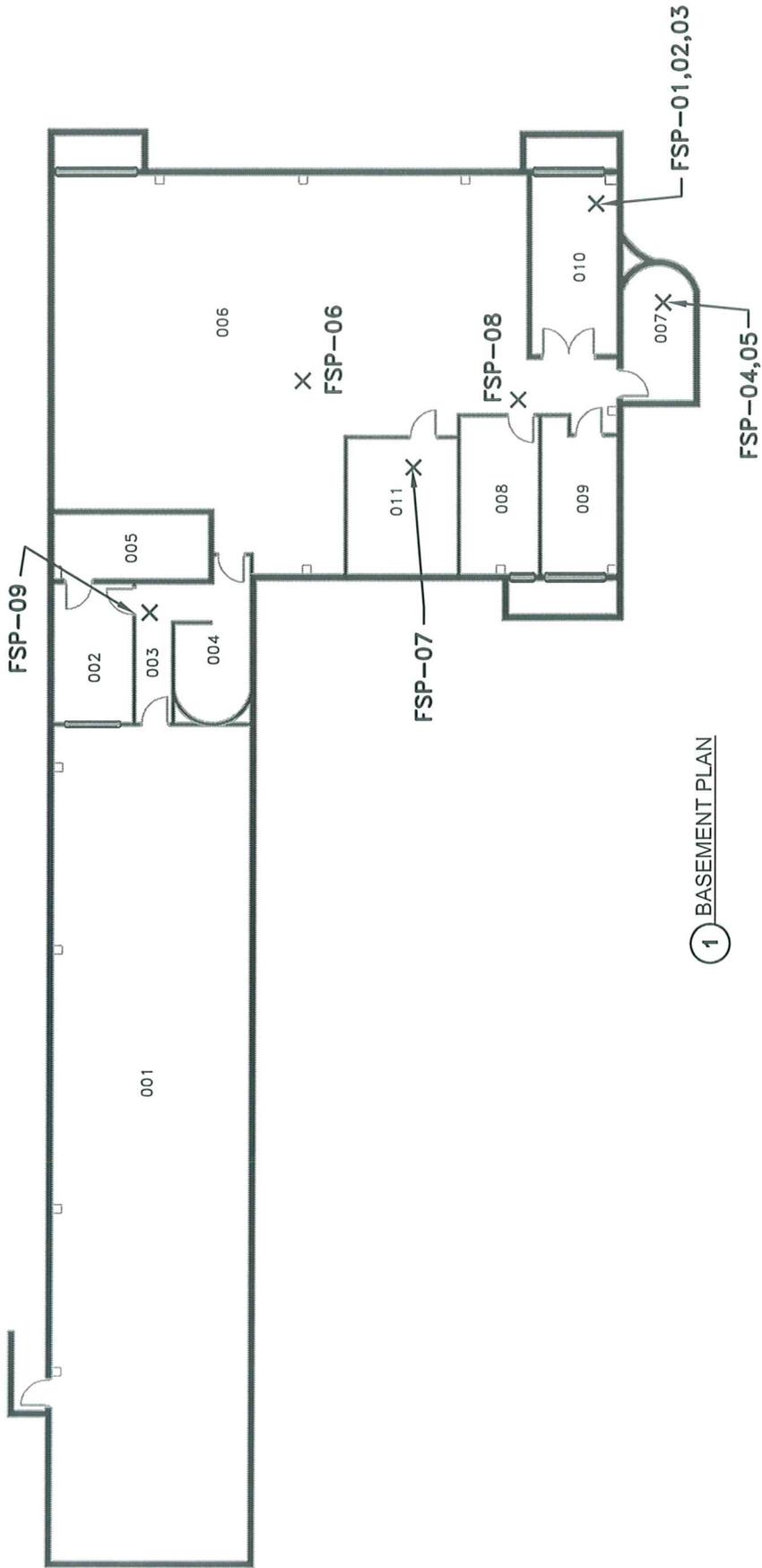
## HOMOGENEOUS MATERIALS LIST

Farmingdale State Police Headquarters  
7140 Republic Airport  
East Farmingdale, New York

Material Description	Sample Location	Type	Sample Number	Results (% Asbestos)		ACM
				PLM	TEM	Y/N
Generator Exhaust Insulation	Room 10	T	FSP-01	ND	NA	N
	Room 10		FSP-02	ND	NA	
	Room 10		FSP-03	ND	NA	
Drywall	Stairs #2	M	FSP-04	ND	NA	N
	Room 211		FSP-11	ND	NA	
	Room 145		FSP-32	ND	NA	
Drywall Joint Compound	Stairs #2	M	FSP-05	ND	NA	N
	Room 211		FSP-12	ND	NA	
	Room 145		FSP-33	ND	NA	
Sprayed-on Fireproofing	Room 6	S	FSP-06	ND	NA	N
	Room 11		FSP-07	ND	NA	
	Room 6		FSP-08	ND	NA	
2' x 4' Textured Ceiling Tile	Corridor 3	M	FSP-09	ND	NA	N
	Room 211		FSP-10	ND	NA	
2' x 4' Acoustic Ceiling Tile	Room 209	M	FSP-13	ND	NA	N
	Room 132		FSP-20	ND	NA	
<b>12" x 12" Olive Floor Tile</b>	<b>Room 216 Room 214</b>	<b>M</b>	<b>FSP-14 FSP-34</b>	<b>NAD NAD</b>	<b>14% Chrysotile 2.5% Chrysotile</b>	<b>Y</b>
Floor Tile Mastic for Olive Floor Tile	Room 216 Room 214	M	FSP-15 FSP-35	NAD NAD	NAD <1% Chrysotile	N
2' x 2' Square Pattern Ceiling Tile	Room 130	M	FSP-16	ND	NA	N
	Room 128		FSP-17	ND	NA	
2' x 4' Square Pattern Ceiling Tile	Room 122	M	FSP-18	ND	NA	N
	Room 122		FSP-19	ND	NA	
Carpet Mastic	Room 136	M	FSP-21	NAD	NAD	N
	Room 202		FSP-36	NAD	NAD	
<b>12" x 12" White Floor Tile (Raised Floor)</b>	<b>Room 137</b>	<b>M</b>	<b>FSP-22 FSP-23</b>	<b>NAD NAD</b>	<b>4.2% Chrysotile 2.4% Chrysotile</b>	<b>Y</b>
12" x 12" Gray Floor Tile	Room 108	M	FSP-24	NAD	NAD	N
	Room 108		FSP-25	NAD	NAD	
Black Floor Tile Mastic for Gray Floor Tile	Room 108	M	FSP-26	NAD	NAD	N
	Room 108		FSP-27	NAD	NAD	

Material Description	Sample Location	Type	Sample Number	Results (% Asbestos)		ACM
				PLM	TEM	Y/N
<b>12" x 12" White Floor Tile</b>	<b>Room 108 Room 108</b>	<b>M</b>	<b>FSP-28 FSP-29</b>	<b>NAD NAD</b>	<b>9.4% Chrysotile 4.6% Chrysotile</b>	<b>Y</b>
Tan Floor Tile Mastic for White Floor Tile	Room 108 Room 108	M	FSP-30 FSP-31	NAD NAD	<1% Chrysotile NAD	N

Bold rows indicate the material is ACM.

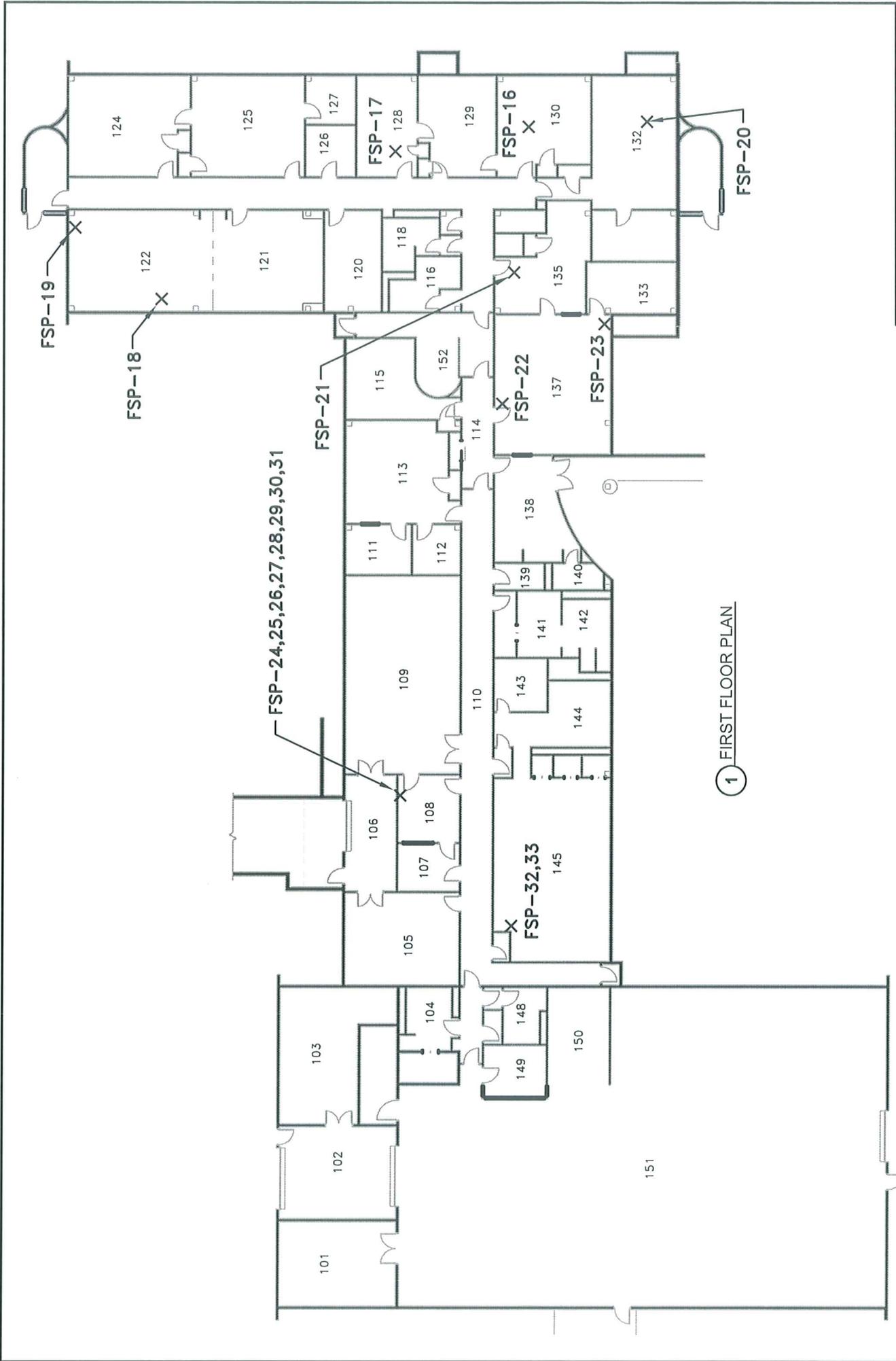


1 BASEMENT PLAN

ASBESTOS BULK SAMPLE LOCATIONS BASEMENT
FARMINGDALE STATE POLICE HEADQUARTERS 7140 REPUBLIC AIRPORT EAST FARMINGDALE, NEW YORK
NOT TO SCALE
APRIL 2008


**WATTS**  
 ARCHITECTURE &  
 ENGINEERING, P.C.  
 3826 Main Street  
 Buffalo, New York 14226  
 (716) 836-1540 | (716) 836-2402 Fax

X SAMPLES WERE COLLECTED ON APRIL 2, 2008.  
 INDICATES APPROXIMATE BULK SAMPLE LOCATION

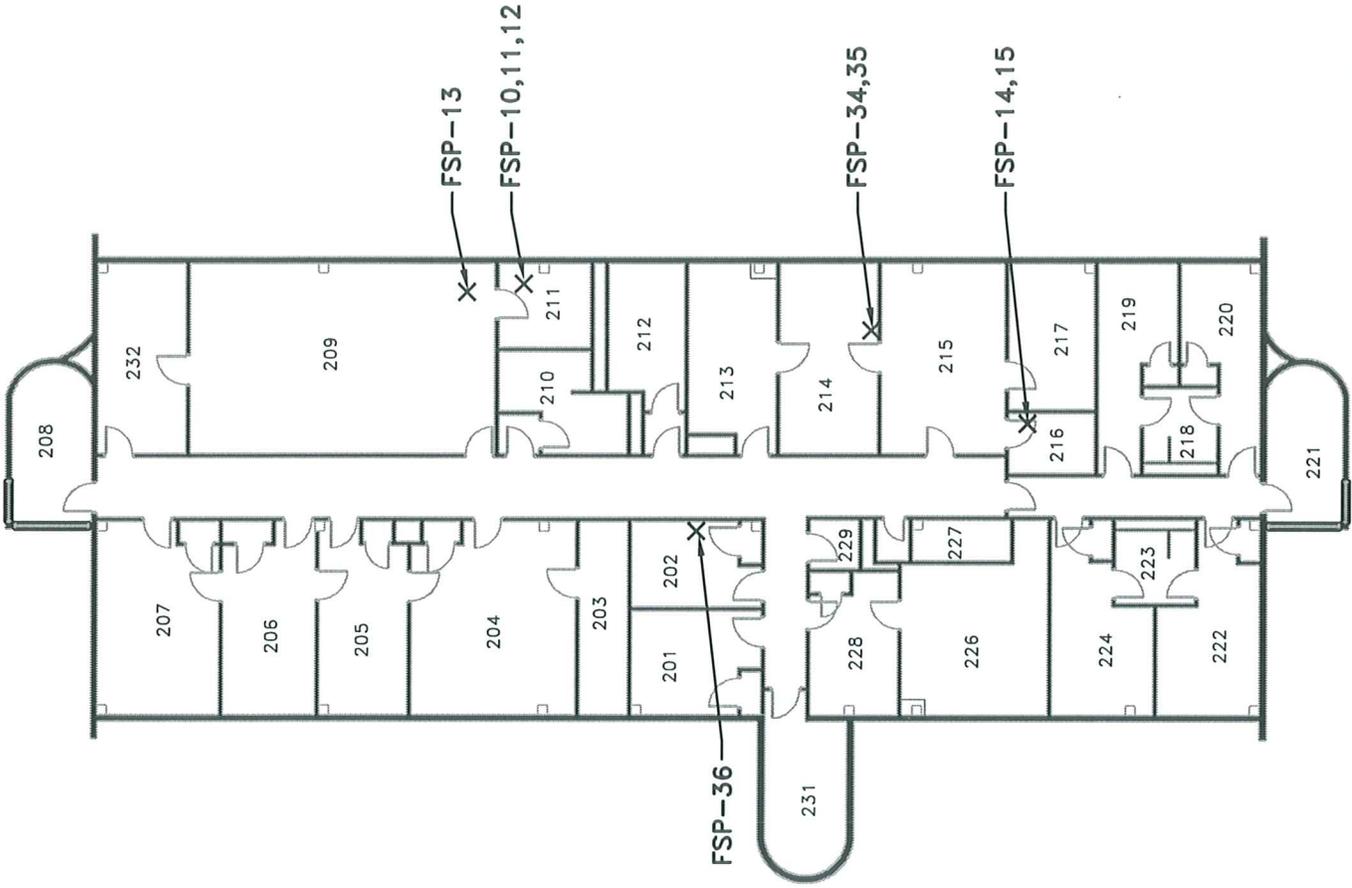


1 FIRST FLOOR PLAN

ASBESTOS BULK SAMPLE LOCATIONS FIRST FLOOR
FARMINGDALE STATE POLICE HEADQUARTERS 7140 REPUBLIC AIRPORT EAST FARMINGDALE, NEW YORK
NOT TO SCALE
APRIL 2008


**WATTS**  
 ARCHITECTURE &  
 ENGINEERING, P.C.  
 3826 Main Street  
 Buffalo, New York 14226  
 (716) 836-1540 | (716) 836-2402 Fax

X SAMPLES WERE COLLECTED ON APRIL 2, 2008.  
 INDICATES APPROXIMATE BULK SAMPLE LOCATION



1 SECOND FLOOR PLAN

X INDICATES APPROXIMATE BULK SAMPLE LOCATION  
SAMPLES WERE COLLECTED ON APRIL 2, 2008.


**WATTS**  
 ARCHITECTURE &  
 ENGINEERING, P.C.  
 3826 Main Street  
 Buffalo, New York 14226  
 (716) 836-1540 | (716) 836-2402 Fax

ASBESTOS BULK SAMPLE LOCATIONS  
SECOND FLOOR

FARMINGDALE STATE POLICE HEADQUARTERS  
7140 REPUBLIC AIRPORT  
EAST FARMINGDALE, NEW YORK

NOT TO SCALE APRIL 2008

---

## 3.0 – LABORATORY REPORTS

---

---

### 3.1 - POLARIZED LIGHT MICROSCOPY (PLM)

---



# EMSL Analytical, Inc.

490 Rowley Road, Depew, NY 14043

Phone: (716) 651-0030 Fax: (716) 651-0394 Email: [buffalolab@emsl.com](mailto:buffalolab@emsl.com)

Attn: **Greg Andrews**  
**Watts Architecture & Engineering, P.C.**  
**3826 Main Street**  
**Buffalo, NY 14226**

Customer ID: WATT50  
Customer PO:  
Received: 04/03/08 4:17 PM  
EMSL Order: 140801384

Fax: (716) 836-2402 Phone: (716) 836-1540  
Project: **Y Farmingdale State Police Headquarters Troup L**  
**Headquarters**

EMSL Proj:  
Analysis Date: 4/4/2008  
Report Date: 4/7/2008

## Asbestos Analysis of Bulk Materials by PLM via the NY State ELAP 198.1 Method

Sample	Location	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
FSP-01 140801384-0001	room 10	Gray Fibrous Homogeneous	30.00% Glass	70.00% Non-fibrous (other)	None Detected
FSP-02 140801384-0002	room 10	Gray Fibrous Homogeneous	35.00% Glass	65.00% Non-fibrous (other)	None Detected
FSP-03 140801384-0003	room 10	Gray Fibrous Homogeneous	35.00% Glass	65.00% Non-fibrous (other)	None Detected
FSP-04 140801384-0004	stair #2	White Fibrous Layer # 1	1.00% Cellulose 1.00% Glass	98.00% Non-fibrous (other)	None Detected
FSP-04 140801384-0004A	joint compound	White Non-Fibrous Layer # 2		100.00% Non-fibrous (other)	None Detected
FSP-04 140801384-0004B	paper	Tan Fibrous Layer # 3	95.00% Cellulose	5.00% Non-fibrous (other)	None Detected
FSP-05 140801384-0005	stair #2	White Non-Fibrous Homogeneous		100.00% Non-fibrous (other)	None Detected
FSP-06 140801384-0006	room 6	Brown Fibrous Homogeneous	2.00% Cellulose 43.00% Glass	55.00% Non-fibrous (other)	None Detected
FSP-07 140801384-0007	room 11	Brown Fibrous Homogeneous	1.00% Cellulose 49.00% Glass	50.00% Non-fibrous (other)	None Detected
FSP-08 140801384-0008	room 6	Gray Fibrous Homogeneous	1.00% Cellulose 45.00% Glass	54.00% Non-fibrous (other)	None Detected

Analyst(s)

*Andrew Maciejewski (20)*  
*Rachel Giese (3)*

Rhonda McGee, Laboratory Manager  
or other approved signatory

PLM has been known to miss asbestos in a small percentage of samples which contain asbestos. Negative PLM results cannot be guaranteed. Samples reported as <1% or none detected should be tested with TEM. The above test report relates only to the items tested. This report may not be reproduced, except in full, without written approval by EMSL Analytical, Inc. The above test must not be used by the client to claim product endorsement by NVLAP nor any agency of the United States Government. Unless otherwise noted, the results in this report have not been blank corrected. Samples received in good condition unless otherwise noted.

Analysis performed by EMSL Buffalo (NVLAP #200056-0), NY ELAP #11606



# EMSL Analytical, Inc.

490 Rowley Road, Depew, NY 14043

Phone: (716) 651-0030 Fax: (716) 651-0394 Email: [buffalolab@emsl.com](mailto:buffalolab@emsl.com)

Attn: **Greg Andrews**  
**Watts Architecture & Engineering, P.C.**  
**3826 Main Street**  
**Buffalo, NY 14226**

Fax: (716) 836-2402 Phone: (716) 836-1540  
Project: **Y Farmingdale State Police Headquarters Troup L Headquarters**

Customer ID: WATT50  
Customer PO:  
Received: 04/03/08 4:17 PM  
EMSL Order: 140801384  
EMSL Proj:  
Analysis Date: 4/4/2008  
Report Date: 4/7/2008

## Asbestos Analysis of Bulk Materials by PLM via the NY State ELAP 198.1 Method

Sample	Location	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
FSP-09 140801384-0009	corridor 3	Gray Fibrous Homogeneous	60.00% Cellulose 30.00% Glass	10.00% Non-fibrous (other)	None Detected
FSP-10 140801384-0010	room 211	Gray Fibrous Homogeneous	65.00% Cellulose 30.00% Glass	5.00% Non-fibrous (other)	None Detected
FSP-11 140801384-0011	room 211	White Non-Fibrous Homogeneous		100.00% Non-fibrous (other)	None Detected
FSP-12 140801384-0012	room 211	White Fibrous Layer # 1	2.00% Cellulose 3.00% Glass	95.00% Non-fibrous (other)	None Detected
FSP-12 140801384-0012A	paper	Tan Fibrous Layer # 2	95.00% Cellulose	5.00% Non-fibrous (other)	None Detected
FSP-13 140801384-0013	room 209	Gray Fibrous Homogeneous	45.00% Cellulose 40.00% Glass	15.00% Non-fibrous (other)	None Detected
FSP-16 140801384-0014	room 130	Gray Fibrous Homogeneous	60.00% Cellulose 30.00% Glass	10.00% Non-fibrous (other)	None Detected
FSP-17 140801384-0015	room 128	Gray Fibrous Homogeneous	30.00% Cellulose 60.00% Glass	10.00% Non-fibrous (other)	None Detected
FSP-18 140801384-0016	room 122	Gray Fibrous Homogeneous	60.00% Cellulose 20.00% Glass	20.00% Non-fibrous (other)	None Detected
FSP-19 140801384-0017	room 122	Gray Fibrous Homogeneous	50.00% Cellulose 20.00% Glass	30.00% Non-fibrous (other)	None Detected

Analyst(s)  
Andrew Maciejewski (20)  
Rachel Giese (3)

Rhonda McGee, Laboratory Manager  
or other approved signatory

PLM has been known to miss asbestos in a small percentage of samples which contain asbestos. Negative PLM results cannot be guaranteed. Samples reported as <1% or none detected should be tested with TEM. The above test report relates only to the items tested. This report may not be reproduced, except in full, without written approval by EMSL Analytical, Inc. The above test must not be used by the client to claim product endorsement by NVLAP nor any agency of the United States Government. Unless otherwise noted, the results in this report have not been blank corrected. Samples received in good condition unless otherwise noted.  
Analysis performed by EMSL Buffalo (NVLAP #200056-0), NY ELAP #11606



**EMSL Analytical, Inc.**

490 Rowley Road, Depew, NY 14043

Phone: (716) 651-0030 Fax: (716) 651-0394 Email: [buffalolab@emsl.com](mailto:buffalolab@emsl.com)

Attn: **Greg Andrews**  
**Watts Architecture & Engineering, P.C.**  
**3826 Main Street**  
**Buffalo, NY 14226**

Fax: (716) 836-2402 Phone: (716) 836-1540  
Project: **Y Farmingdale State Police Headquarters Troup L Headquarters**

Customer ID: WATT50  
Customer PO:  
Received: 04/03/08 4:17 PM  
EMSL Order: 140801384  
EMSL Proj:  
Analysis Date: 4/4/2008  
Report Date: 4/7/2008

**Asbestos Analysis of Bulk Materials by PLM via the NY State ELAP 198.1 Method**

Sample	Location	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
FSP-20 140801384-0018	room 122	Gray Fibrous Homogeneous	60.00% Cellulose 30.00% Glass	10.00% Non-fibrous (other)	None Detected
FSP-32 140801384-0019	room 145	Tan Non-Fibrous Homogeneous		100.00% Non-fibrous (other)	None Detected
FSP-33 140801384-0020	room 145	White Non-Fibrous Homogeneous		100.00% Non-fibrous (other)	None Detected

Analyst(s)  

---

*Andrew Maciejewski (20)*  
*Rachel Giese (3)*

*Rhonda McGee*  

---

Rhonda McGee, Laboratory Manager  
or other approved signatory

PLM has been known to miss asbestos in a small percentage of samples which contain asbestos. Negative PLM results cannot be guaranteed. Samples reported as <1% or none detected should be tested with TEM. The above test report relates only to the items tested. This report may not be reproduced, except in full, without written approval by EMSL Analytical, Inc. The above test must not be used by the client to claim product endorsement by NVLAP nor any agency of the United States Government. Unless otherwise noted, the results in this report have not been blank corrected. Samples received in good condition unless otherwise noted.  
Analysis performed by EMSL Buffalo (NVLAP #200056-0), NY ELAP #11606



**EMSL Analytical, Inc.**

490 Rowley Road, Depew, NY 14043

Phone: (716) 651-0030 Fax: (716) 651-0394 Email: [buffalolab@emsl.com](mailto:buffalolab@emsl.com)

Attn: **Greg Andrews**  
**Watts Architecture & Engineering, P.C.**  
**3826 Main Street**  
**Buffalo, NY 14226**

Fax: (716) 836-2402 Phone: (716) 836-1540  
Project: **Y Farmingdale State Police Headquarters Troup L**  
**Headquarters**

Customer ID: WATT50  
Customer PO:  
Received: 04/03/08 4:17 PM  
EMSL Order: 140801384  
EMSL Proj:  
Analysis Date: 4/7/2008  
Report Date: 4/7/2008

**Asbestos Analysis of Non-Friable Organically Bound Materials by PLM via the NY State ELAP 198.6 Method**

SAMPLE ID	DESCRIPTION	APPEARANCE	% MATRIX MATERIAL	% NON-ASBESTOS FIBERS	ASBESTOS TYPES
FSP-14 140801384-0021	olive 12"x12" FT	Olive/White	100.0	None	Inconclusive: No Asbestos Detected
FSP-15 140801384-0022	FT mastic	Tan	100.0	None	Inconclusive: No Asbestos Detected
FSP-21 140801384-0023	carpet mastic	Black/Yellow	100.0	None	Inconclusive: No Asbestos Detected
FSP-22 140801384-0024	white 12"x12" FT	Tan	100.0	None	Inconclusive: No Asbestos Detected
FSP-23 140801384-0025	white 12"x12" FT	Gray	100.0	None	Inconclusive: No Asbestos Detected
FSP-24 140801384-0026	gray 12"x12" FT	Gray	100.0	None	Inconclusive: No Asbestos Detected
FSP-25 140801384-0027	gray 12"x12" FT	Gray	100.0	None	Inconclusive: No Asbestos Detected
FSP-26 140801384-0028	FT mastic black	Black	100.0	None	Inconclusive: No Asbestos Detected
FSP-27 140801384-0029	FT mastic black	Black	100.0	None	Inconclusive: No Asbestos Detected
FSP-28 140801384-0030	white 12"x12" FT	Beige/Gray	100.0	None	Inconclusive: No Asbestos Detected

Analyst(s)

*Rachel Giese (11)*  
*Tom Hanes (5)*

Rhonda McGee, Laboratory Manager  
or other approved signatory

\*Polarized Light Microscopy (PLM) is not consistently reliable in detecting asbestos in floor coverings and similar non-friable organically bound materials. Quantitative Transmission Electron Microscopy is currently the only method that can be used to determine if this material can be considered or treated as non-asbestos containing. The test results contained within this report meet the requirements of NELAC unless otherwise noted. EMSL maintains liability limited to cost of analysis. This report relates only to the samples reported above and may not be reproduced, except in full, without written approval by EMSL. The above test report relates only to the items tested. EMSL bears no responsibility for sample collection activities or analytical method imitations. Unless otherwise noted, the results in this report have not been blank corrected. Samples received in good condition unless otherwise noted.

ACCREDITATIONS: NVLAP #200056-0 and NY STATE ELAP #11606



**EMSL Analytical, Inc.**

490 Rowley Road, Depew, NY 14043

Phone: (716) 651-0030 Fax: (716) 651-0394 Email: [buffalolab@emsl.com](mailto:buffalolab@emsl.com)

Attn: **Greg Andrews**  
**Watts Architecture & Engineering, P.C.**  
**3826 Main Street**  
**Buffalo, NY 14226**

Fax: (716) 836-2402 Phone: (716) 836-1540  
Project: **Y Farmingdale State Police Headquarters Troup L Headquarters**

Customer ID: WATT50  
Customer PO:  
Received: 04/03/08 4:17 PM  
EMSL Order: 140801384  
EMSL Proj:  
Analysis Date: 4/7/2008  
Report Date: 4/7/2008

**Asbestos Analysis of Non-Friable Organically Bound Materials by PLM via the NY State ELAP 198.6 Method**

SAMPLE ID	DESCRIPTION	APPEARANCE	% MATRIX MATERIAL	% NON-ASBESTOS FIBERS	ASBESTOS TYPES
FSP-29 140801384-0031	white 12"x12" FT	Beige/Gray	100.0	None	Inconclusive: No Asbestos Detected
FSP-30 140801384-0032	FT mastic tan	Tan	100.0	None	Inconclusive: No Asbestos Detected
FSP-31 140801384-0033	FT mastic tan	Tan	100.0	None	Inconclusive: No Asbestos Detected
Below recommended method minimum sample amount.					
FSP-34 140801384-0034	olive 12"x12" FT	Olive/White	100.0	None	Inconclusive: No Asbestos Detected
FSP-35 140801384-0035	FT mastic	Brown	100.0	None	Inconclusive: No Asbestos Detected
Below recommended method minimum sample amount.					
FSP-36 140801384-0036	carpet mastic	Brown	100.0	None	Inconclusive: No Asbestos Detected

Analyst(s)

*Rachel Giese (11)*  
*Tom Hanes (5)*

Rhonda McGee, Laboratory Manager  
or other approved signatory

\*Polarized Light Microscopy (PLM) is not consistently reliable in detecting asbestos in floor coverings and similar non-friable organically bound materials. Quantitative Transmission Electron Microscopy is currently the only method that can be used to determine if this material can be considered or treated as non-asbestos containing. The test results contained within this report meet the requirements of NELAC unless otherwise noted. EMSL maintains liability limited to cost of analysis. This report relates only to the samples reported above and may not be reproduced, except in full, without written approval by EMSL. The above test report relates only to the items tested. EMSL bears no responsibility for sample collection activities or analytical method imitations. Unless otherwise noted, the results in this report have not been blank corrected. Samples received in good condition unless otherwise noted.

ACCREDITATIONS: NVLAP #200056-0 and NY STATE ELAP #11606

---

## 3.2 – TRANSMISSION ELECTRON MICROSCOPY (TEM)

---



**EMSL Analytical, Inc.**

490 Rowley Road, Depew, NY 14043

Phone: (716) 651-0030 Fax: 7166510394 Email: [buffalolab@emsl.com](mailto:buffalolab@emsl.com)

Attn: **Greg Andrews**  
**Watts Architecture & Engineering, P.C.**  
**3826 Main Street**  
**Buffalo, NY 14226**

Customer ID: WATT50  
Customer PO:  
Received: 04/03/08 4:17 PM  
EMSL Order: 140801384

Fax: (716) 836-2402 Phone: (716) 836-1540  
Project: Y Farmingdale State Police Headquarters Troup L  
Headquarters

EMSL Proj:  
Analysis Date: 4/10/2008  
Report Date: 4/10/2008

**Asbestos Analysis of Non-Friable Organically Bound materials by Transmission  
Electron Microscopy via NYS ELAP Method 198.4**

SAMPLE ID	DESCRIPTION	APPEARANCE	% MATRIX MATERIAL	% NON-ASBESTOS FIBERS	ASBESTOS TYPES	% TOTAL ASBESTOS
FSP-14 140801384-0021	olive 12"x12" FT	Olive/White	86.0	None	14.0 Chrysotile	14.0
FSP-15 140801384-0022	FT mastic	Tan	100.0	None	No Asbestos Detected	
FSP-21 140801384-0023	carpet mastic	Black/Yellow	100.0	None	No Asbestos Detected	
FSP-22 140801384-0024	white 12"x12" FT	Tan	95.8	None	4.2% Chrysotile	4.2
FSP-23 140801384-0025	white 12"x12" FT	Gray	97.6	None	2.4% Chrysotile	2.4
FSP-24 140801384-0026	gray 12"x12" FT	Gray	100.0	None	No Asbestos Detected	
FSP-25 140801384-0027	gray 12"x12" FT	Gray	100.0	None	No Asbestos Detected	
FSP-26 140801384-0028	FT mastic black	Black	100.0	None	No Asbestos Detected	
FSP-27 140801384-0029	FT mastic black	Black	100.0	None	No Asbestos Detected	
FSP-28 140801384-0030	white 12"x12" FT	Beige/Gray	90.6	None	9.4% Chrysotile	9.4

Analyst(s)  
Rhonda McGee (16)

*Rhonda McGee*  
Rhonda McGee, Laboratory Manager  
or other approved signatory

This laboratory is not responsible for % asbestos in total sample when the residue only is submitted for analysis. The above report relates only to the items tested. This report may not be reproduced, except in full, without written approval by EMSL Analytical, Inc. Samples received in good condition unless otherwise noted.  
ACCREDITATIONS: NVLAP #200056-0 and NY STATE ELAP #11606



**EMSL Analytical, Inc.**

490 Rowley Road, Depew, NY 14043

Phone: (716) 651-0030 Fax: 7166510394 Email: bufalolab@emsl.com

Attn: **Greg Andrews**  
**Watts Architecture & Engineering, P.C.**  
**3826 Main Street**  
**Buffalo, NY 14226**

Customer ID: WATT50  
Customer PO:  
Received: 04/03/08 4:17 PM  
EMSL Order: 140801384

Fax: (716) 836-2402 Phone: (716) 836-1540  
Project: Y Farmingdale State Police Headquarters Troup L  
Headquarters

EMSL Proj:  
Analysis Date: 4/10/2008  
Report Date: 4/10/2008

**Asbestos Analysis of Non-Friable Organically Bound materials by Transmission  
Electron Microscopy via NYS ELAP Method 198.4**

SAMPLE ID	DESCRIPTION	APPEARANCE	% MATRIX MATERIAL	% NON-ASBESTOS FIBERS	ASBESTOS TYPES	% TOTAL ASBESTOS
FSP-29 140801384-0031	white 12"x12" FT	Beige/Gray	95.4	None	4.6% Chrysotile	4.6
FSP-30 140801384-0032	FT mastic tan	Tan	100.0	None	<1% Chrysotile	<1
FSP-31 140801384-0033	FT mastic tan	Tan	100.0	None	No Asbestos Detected	
FSP-34 140801384-0034	olive 12"x12" FT	Olive/White	97.5	None	2.5% Chrysotile	2.5
FSP-35 140801384-0035	FT mastic	Brown	99.9	None	<1% Chrysotile	<1
FSP-36 140801384-0036	carpet mastic	Brown	100.0	None	No Asbestos Detected	

Analyst(s) \_\_\_\_\_  
Rhonda McGee (16)

*Rhonda McGee*  
Rhonda McGee, Laboratory Manager  
or other approved signatory

This laboratory is not responsible for % asbestos in total sample when the residue only is submitted for analysis. The above report relates only to the items tested. This report may not be reproduced, except in full, without written approval by EMSL Analytical, Inc. Samples received in good condition unless otherwise noted.  
ACCREDITATIONS: NVLAP #200056-0 and NY STATE ELAP #11606

---

### 3.3 - CHAIN-OF-CUSTODY FORMS

---

## BULK SAMPLE CHAIN-OF-CUSTODY FORM

The purpose of the chain-of-custody form is to reduce the possibility of misidentifying individual samples, to help trace any samples that may be lost, and to provide a record certifying that the samples were delivered to and received by the analytical laboratory.

An important feature of this form is the signature section at the bottom, identifying all persons who handled the samples.

WATTS ARCHITECTURE & ENGINEERING, P.C.  
 ASBESTOS BULK SAMPLE CHAIN-OF-CUSTODY

Client: La Bella Associates      Date: 4-2-08

Project: Farragdale State Police Headquarters      Watts Project No.: Y

Building / Location: Troup L Headquarters

Contact: Greg Andrews at (716) 836-1540      Turnaround Requested: 3 Hr.      48 Hr.

Fax Preliminary Results to: (716) 836-2402      Analysis Requested: 6 Hr.      72 Hr.

Mail Report & Invoice to: Watts Architecture & Engineering, P.C.      PLM  TEM       12 Hr.      5 Day

3826 Main Street, Buffalo, NY 14226      20      24 Hr.      6-10 Day

Sample Number	Material Description	Sample Location	Laboratory Results	
			PLM	TEM
FSP-01	Generator Exhaust Insulation	Room 10		
FSP-02	Generator Exhaust Insulation	Room 10		
FSP-03	Generator Exhaust Insulation	Room 10		
FSP-04	Drywall	Stair #2		
FSP-05	Drywall Joint Compound	Stair #2		
FSP-06	Sprayed-on Fireproofing	Room 6		
FSP-07	Sprayed-on Fireproofing	Room 11		
FSP-08	Sprayed-on Fireproofing	Room 6		
FSP-09	2'x4' Textured Ceiling Tile	Corridor 3		
FSP-10	2'x4' Textured Ceiling Tile	Room 211		
FSP-11	Drywall	Room 211		
FSP-12	Drywall Joint Compound	Room 211		

Sampled By: Kevin Janik      Date: 4/2/08      Received By: BPP      Date: 4.3.08      4:17 PM

Relinquished By: Greg Andrews      Date: 4/3/08      Received By: \_\_\_\_\_      Date: \_\_\_\_\_

Comments: \_\_\_\_\_

WATTS ARCHITECTURE & ENGINEERING, P.C.  
 ASBESTOS BULK SAMPLE CHAIN-OF-CUSTODY

Page: 2 of 3

140801384

Client: La Bella Associates  
 Project: Farmington State Police Headquarters  
 Building / Location: Troop L Headquarters  
 Contact: Greg Andrews at (716) 836-1540  
 Fax Preliminary Results to: (716) 836-2402  
 Mail Report & Invoice to: Watts Architecture & Engineering, P.C.  
 3826 Main Street, Buffalo, NY 14226

Turnaround Requested: 3 Hr. 48 Hr.  
 Analysis Requested: 6 Hr. 72 Hr.  
PLM X TEM X 10 10  
10 10 10 10  
10 10 10 10  
10 10 10 10

Watts Project No.: Y

Sample Number	Material Description	Sample Location	Laboratory Results	
			PLM	TEM
FSP-13	2'x4' Acoustic Ceiling Tile	Room 209		
FSP-14	Olive 12"x12" Floor Tile	Room 216		
FSP-15	Floor Tile Mastic	Room 216		
FSP-16	2'x2' - Square Pattern Ceiling Tile	Room 130		
FSP-17	2'x2' - Square Pattern Ceiling Tile	Room 128		
FSP-18	2'x4' - Square Pattern Ceiling Tile	Room 122		
FSP-19	2'x4' Square Pattern Ceiling Tile	Room 122		
FSP-20	2'x4' Acoustic Ceiling Tile	Room 132		
FSP-21	Carpet Mastic	Room 136		
FSP-22	White 12"x12" Floor Tile	Room 137 - Raised Floor		
FSP-23	White 12"x12" Floor Tile	Room 137 - Raised Floor		
FSP-24	Gray 12"x12" Floor Tile	Room 108		

Sampled By: Kevin Jamik Date: 4/2/08 Received By: PLM DO Date: 4.3.08 4:17 PM  
 Relinquished By: Greg Andrews Date: 4/3/08 Received By: \_\_\_\_\_ Date: \_\_\_\_\_

Comments: \_\_\_\_\_

WATTS ARCHITECTURE & ENGINEERING, P.C.  
 ASBESTOS BULK SAMPLE CHAIN-OF-CUSTODY

146801384 Page: 3 of 3

Client: Lea Bella Associates Date: 4-2-08  
 Project: Forningsgate State Police Headquarters Watts Project No.: Y

Building / Location: Troop L Headquarters at (716) 836-1540  
 Contact: Greg Andrews  
 Fax Preliminary Results to: (716) 836-2402  
 Mail Report & Invoice to: Watts Architecture & Engineering, P.C.  
 3826 Main Street, Buffalo, NY 14226

Turnaround Requested: 3 Hr. 48 Hr.  
 Analysis Requested: 6 Hr. 72 Hr.  
 PLM  TEM  12 Hr. 5 Day  
24 Hr. 6-10 Day

Sample Number	Material Description	Sample Location	Laboratory Results	
			PLM	TEM
FSP-25	Grey 12"x12" Floor Tile	Room 108		
FSP-26	Floor Tile Mastic (Black)	Room 108		
FSP-27	Floor Tile Mastic (Black)	Room 108		
FSP-28	White 12"x12" Floor Tile	Room 108		
FSP-29	White 12"x12" Floor Tile	Room 108		
FSP-30	Floor Tile Mastic (TAN)	Room 108		
FSP-31	Floor Tile Mastic (TAN)	Room 108		
FSP-32	Prywall	Room 145		
FSP-33	Drywall Joint Compound	Room 145		
FSP-34	Olive 12"x12" Floor Tile	Room 214		
FSP-35	Floor Tile Mastic	Room 214		
FSP-36	Carpet Mastic	Room 202		

Sampled By: Kevin Janik Date: 4/2/08 Received By: PLM DO Date: 4.3.08 4:17 PM  
 Relinquished By: Greg Andrews Date: 4/3/08 Received By: \_\_\_\_\_ Date: \_\_\_\_\_

Comments: \_\_\_\_\_

---

## 4.0 – LEAD-BASED PAINT

---

---

## 4.1 – XRF READINGS

---

**FARMINGDALE STATE POLICE HEADQUARTERS**

**ELECTRICAL SYSTEMS UPGRADES - OGS PROJECT NO. 43286-2**

Testing Date: April 2, 2008

NITON Serial No. 11961

Reading No.	Component	Side	Substrate	Color	Room	Condition	Floor Level	Results mg/cm <sup>2</sup>
1	Shutter Cal 1							4.71
2	Calibration							1.2
3	Calibration							1.1
4	Calibration							1.1
5	Wall	A	Wood	Gray	8	Intact	Basement	0
6	Wall	A	Concrete	Gray	8	Intact	Basement	0
7	Wall	B	Concrete	Gray	8	Intact	Basement	0.01
8	Wall	C	Wood	Gray	8	Intact	Basement	0
9	Wall	C	Drywall	White	7	Intact	Basement	0
10	Wall	A	Drywall	White	7	Intact	Basement	0
11	Wall	A	Cork	Tan	2	Intact	Basement	0
12	Wall	C	Cork	Tan	2	Intact	Basement	0.01
13	Wall	A	Concrete	Blue	3	Intact	Basement	0
14	Wall	B	Concrete	Blue	3	Intact	Basement	0
15	Wall	C	Concrete	Blue	3	Intact	Basement	0
16	Wall	D	Concrete	Blue	3	Intact	Basement	0
17	Wall	A	Drywall	Green	4	Intact	Basement	0
18	Wall	B	Drywall	Green	4	Intact	Basement	0
19	Wall	C	Concrete	Maroon	4	Intact	Basement	0.01
20	Wall	D	Drywall	Green	4	Intact	Basement	0
<b>21</b>	<b>Structural Steel</b>	<b>D</b>	<b>Metal</b>	<b>Red</b>	<b>1</b>	<b>Intact</b>	<b>Basement</b>	<b>4.1</b>
<b>22</b>	<b>Structural Steel</b>	<b>D</b>	<b>Metal</b>	<b>Red</b>	<b>1</b>	<b>Intact</b>	<b>Basement</b>	<b>3.7</b>
<b>23</b>	<b>Structural Steel</b>	<b>D</b>	<b>Metal</b>	<b>Red</b>	<b>1</b>	<b>Intact</b>	<b>Basement</b>	<b>3.8</b>
24	Floor		Concrete	Unpainted	1	Intact	Basement	0.18
25	Floor		Concrete	Unpainted	1	Intact	Basement	0.19
26	Wall	B	Drywall	Gray	209	Intact	2nd Floor	0
27	Wall	D	Drywall	Gray	209	Intact	2nd Floor	0
28	Wall	C	Drywall	Gray	209	Intact	2nd Floor	0
29	Wall	B	Drywall	Gray	211	Intact	2nd Floor	0
30	Wall	C	Drywall	Gray	211	Intact	2nd Floor	0
31	Wall	B	Drywall	Blue	230	Intact	2nd Floor	0
32	Wall	C	Drywall	Blue	230	Intact	2nd Floor	0
33	Wall	D	Drywall	Blue	230	Intact	2nd Floor	0
34	Wall	A	Drywall	Blue	207	Intact	2nd Floor	0
35	Wall	C	Drywall	Blue	207	Intact	2nd Floor	0
36	Wall	D	Drywall	Blue	207	Intact	2nd Floor	0
37	Wall	A	Drywall	Blue	206	Intact	2nd Floor	0
38	Wall	C	Drywall	Blue	206	Intact	2nd Floor	0.01
39	Wall	D	Drywall	Blue	206	Intact	2nd Floor	0
40	Wall	A	Drywall	Beige	205	Intact	2nd Floor	0
41	Wall	C	Drywall	Beige	205	Intact	2nd Floor	0
42	Wall	D	Drywall	Beige	205	Intact	2nd Floor	0
43	Wall	A	Drywall	Beige	204	Intact	2nd Floor	0.02
44	Wall	C	Drywall	Beige	204	Intact	2nd Floor	0
45	Wall	D	Drywall	Beige	204	Intact	2nd Floor	0
46	Wall	A	Drywall	Pink	203	Intact	2nd Floor	0

**FARMINGDALE STATE POLICE HEADQUARTERS**

**ELECTRICAL SYSTEMS UPGRADES - OGS PROJECT NO. 43286-2**

Testing Date: April 2, 2008

NITON Serial No. 11961

Reading No.	Component	Side	Substrate	Color	Room	Condition	Floor Level	Results mg/cm <sup>2</sup>
47	Wall	C	Drywall	Pink	203	Intact	2nd Floor	0
48	Wall	A	Drywall	Blue	202	Intact	2nd Floor	0
49	Wall	C	Drywall	Blue	202	Intact	2nd Floor	0
50	Wall	D	Drywall	Blue	202	Intact	2nd Floor	0
51	Wall	A	Drywall	Blue	201	Intact	2nd Floor	0
52	Wall	D	Drywall	Blue	201	Intact	2nd Floor	0.02
53	Wall	B	Drywall	Blue	201	Intact	2nd Floor	0
54	Wall	A	Drywall	Gray	228	Intact	2nd Floor	0
55	Wall	C	Drywall	Gray	228	Intact	2nd Floor	0.04
56	Wall	D	Drywall	Gray	228	Intact	2nd Floor	0
57	Wall	A	Drywall	Gray	222	Intact	2nd Floor	0
58	Wall	B	Drywall	Gray	222	Intact	2nd Floor	0
59	Wall	C	Drywall	Gray	222	Intact	2nd Floor	0
60	Wall	B	Drywall	Gray	223	Intact	2nd Floor	0
61	Wall	C	Drywall	Gray	223	Intact	2nd Floor	0
62	Wall	B	Ceramic Tile	Blue	223	Intact	2nd Floor	0.9
63	Wall	C	Ceramic Tile	Blue	223	Intact	2nd Floor	0.8
64	Wall	A	Drywall	Green	226	Intact	2nd Floor	0
65	Wall	B	Drywall	Green	226	Intact	2nd Floor	0
66	Wall	C	Drywall	Green	226	Intact	2nd Floor	0
67	Wall	A	Drywall	Gray	220	Intact	2nd Floor	0.02
68	Wall	C	Drywall	Gray	220	Intact	2nd Floor	0
69	Wall	A	Drywall	Gray	218	Intact	2nd Floor	0
70	Wall	C	Drywall	Gray	218	Intact	2nd Floor	0
<b>71</b>	<b>Wall</b>	<b>A</b>	<b>Ceramic Tile</b>	<b>Blue</b>	<b>218</b>	<b>Intact</b>	<b>2nd Floor</b>	<b>1.5</b>
<b>72</b>	<b>Wall</b>	<b>D</b>	<b>Ceramic Tile</b>	<b>Blue</b>	<b>218</b>	<b>Intact</b>	<b>2nd Floor</b>	<b>1.4</b>
73	Wall	A	Drywall	Gray	219	Intact	2nd Floor	0
74	Wall	C	Drywall	Gray	219	Intact	2nd Floor	0
75	Wall	A	Drywall	Blue	217	Intact	2nd Floor	0
76	Wall	C	Drywall	Blue	217	Intact	2nd Floor	0
77	Wall	C	Drywall	Gray	216	Intact	2nd Floor	0
78	Wall	D	Drywall	Gray	216	Intact	2nd Floor	0
79	Wall	A	Drywall	Green	215	Intact	2nd Floor	0.01
80	Wall	B	Drywall	Green	215	Intact	2nd Floor	0
81	Wall	C	Drywall	Green	215	Intact	2nd Floor	0
82	Wall	A	Drywall	Green	214	Intact	2nd Floor	0
83	Wall	C	Drywall	Green	214	Intact	2nd Floor	0
84	Wall	A	Drywall	Gray	213	Intact	2nd Floor	0
85	Wall	C	Drywall	Gray	213	Intact	2nd Floor	0
86	Wall	D	Drywall	Gray	213	Intact	2nd Floor	0
87	Wall	A	Drywall	Blue	212	Intact	2nd Floor	0
88	Wall	C	Drywall	Blue	212	Intact	2nd Floor	0
89	Wall	A	Ceramic Tile	White	212	Intact	2nd Floor	0.5
90	Wall	C	Ceramic Tile	White	212	Intact	2nd Floor	0.7
91	Wall	A	Drywall	Gray	130	Intact	1st Floor	0
92	Wall	B	Drywall	Gray	130	Intact	1st Floor	0

**FARMINGDALE STATE POLICE HEADQUARTERS**

**ELECTRICAL SYSTEMS UPGRADES - OGS PROJECT NO. 43286-2**

Testing Date: April 2, 2008

NITON Serial No. 11961

Reading No.	Component	Side	Substrate	Color	Room	Condition	Floor Level	Results mg/cm <sup>2</sup>
93	Wall	C	Drywall	Gray	130	Intact	1st Floor	0
94	Wall	A	Drywall	Gray	129	Intact	1st Floor	0
95	Wall	B	Drywall	Gray	129	Intact	1st Floor	0
96	Wall	C	Drywall	Gray	129	Intact	1st Floor	0
97	Wall	A	Drywall	Gray	128	Intact	1st Floor	0
98	Wall	C	Drywall	Gray	128	Intact	1st Floor	0
99	Wall	B	Drywall	Gray	126	Intact	1st Floor	0
100	Wall	D	Drywall	Gray	126	Intact	1st Floor	0
101	Wall	A	Drywall	Gray	127	Intact	1st Floor	0
102	Wall	B	Drywall	Gray	127	Intact	1st Floor	0
103	Wall	A	Drywall	Gray	125	Intact	1st Floor	0
104	Wall	B	Drywall	Gray	125	Intact	1st Floor	0
105	Wall	C	Drywall	Gray	125	Intact	1st Floor	0
106	Wall	A	Drywall	Green	124	Intact	1st Floor	0
107	Wall	B	Drywall	Green	124	Intact	1st Floor	0
108	Wall	C	Drywall	Green	124	Intact	1st Floor	0
109	Wall	B	Drywall	Blue	122	Intact	1st Floor	0
110	Wall	C	Drywall	Blue	122	Intact	1st Floor	0
111	Wall	D	Drywall	Blue	122	Intact	1st Floor	0
112	Ceiling Soffit		Drywall	White	122	Intact	1st Floor	0
113	Wall	A	Drywall	Gray	120	Intact	1st Floor	0
114	Wall	C	Drywall	Gray	120	Intact	1st Floor	0.01
115	Wall	C	Drywall	Gray	119	Intact	1st Floor	0
116	Wall	B	Drywall	Gray	119	Intact	1st Floor	0
117	Wall	C	Drywall	Gray	119	Intact	1st Floor	0
118	Wall	D	Drywall	Gray	119	Intact	1st Floor	0.01
119	Wall	A	Drywall	Gray	132	Intact	1st Floor	0
120	Wall	C	Drywall	Gray	132	Intact	1st Floor	0
121	Wall	A	Drywall	Green	116	Intact	1st Floor	0
122	Wall	C	Drywall	Green	116	Intact	1st Floor	0
123	Wall	C	Ceramic Tile	White	116	Intact	1st Floor	0.6
124	Wall	A	Ceramic Tile	White	116	Intact	1st Floor	0.8
125	Wall	B	Drywall	Blue	153	Intact	1st Floor	0
126	Wall	D	Drywall	Blue	153	Intact	1st Floor	0
127	Wall	A	Drywall	Gray	114	Intact	1st Floor	0
128	Wall	C	Drywall	Gray	114	Intact	1st Floor	0
129	Wall	B	Drywall	Green	115	Intact	1st Floor	0
130	Wall	C	Drywall	Green	115	Intact	1st Floor	0
131	Wall	D	Drywall	Green	115	Intact	1st Floor	0
132	Door Casing	C	Metal	Blue	137	Intact	1st Floor	0
133	Wall	A	Drywall	Gray	133	Intact	1st Floor	0
134	Wall	C	Drywall	Gray	133	Intact	1st Floor	0
135	Wall	C	Drywall	Blue	138	Intact	1st Floor	0
136	Wall	B	Drywall	Blue	138	Intact	1st Floor	0
137	Wall	A	Drywall	Blue	140	Intact	1st Floor	0
138	Wall	B	Drywall	Blue	140	Intact	1st Floor	0

**FARMINGDALE STATE POLICE HEADQUARTERS**

**ELECTRICAL SYSTEMS UPGRADES - OGS PROJECT NO. 43286-2**

Testing Date: April 2, 2008

NITON Serial No. 11961

Reading No.	Component	Side	Substrate	Color	Room	Condition	Floor Level	Results mg/cm <sup>2</sup>
139	Wall	B	Ceramic Tile	White	140	Intact	1st Floor	0.7
140	Wall	D	Ceramic Tile	White	140	Intact	1st Floor	0.8
141	Wall	A	Drywall	Blue	113	Intact	1st Floor	0
142	Wall	B	Drywall	Blue	113	Intact	1st Floor	0
143	Wall	A	Drywall	Gray	112	Intact	1st Floor	0.01
144	Wall	C	Drywall	Gray	112	Intact	1st Floor	0
145	Wall	A	Drywall	Gray	111	Intact	1st Floor	0
146	Wall	C	Drywall	Gray	111	Intact	1st Floor	0
147	Wall	A	Concrete	Blue	109	Intact	1st Floor	0
148	Wall	C	Drywall	Blue	109	Intact	1st Floor	0
149	Wall	B	Concrete	Blue	109	Intact	1st Floor	0
150	Floor		Concrete	Gray	109	Intact	1st Floor	0
151	Floor		Concrete	Gray	109	Intact	1st Floor	0
152	Wall	A	Concrete	Gray	106	Intact	1st Floor	0
153	Wall	C	Drywall	Gray	106	Intact	1st Floor	0
154	Wall	A	Drywall	Blue	108	Intact	1st Floor	0
155	Wall	C	Concrete	Blue	108	Intact	1st Floor	0
156	Wall	A	Concrete	Blue	107	Intact	1st Floor	0
157	Wall	C	Concrete	Blue	107	Intact	1st Floor	0
158	Wall	A	Concrete	Blue	105	Intact	1st Floor	0
159	Wall	C	Drywall	Blue	105	Intact	1st Floor	0
160	Wall	A	Concrete	Blue	141	Intact	1st Floor	0
161	Wall	C	Concrete	Blue	141	Intact	1st Floor	0
162	Wall	A	Drywall	Blue	142	Intact	1st Floor	0
163	Wall	A	Concrete	Blue	142	Intact	1st Floor	0
164	Wall	A	Ceramic Tile	White	142	Intact	1st Floor	0.8
165	Wall	A	Concrete	Maroon	143	Intact	1st Floor	0.01
166	Wall	C	Concrete	Maroon	143	Intact	1st Floor	0
167	Wall	A	Drywall	Blue	144	Intact	1st Floor	0
168	Wall	C	Concrete	Blue	144	Intact	1st Floor	0
169	Wall	A	Drywall	Gray	145	Intact	1st Floor	0
170	Wall	C	Concrete	Gray	145	Intact	1st Floor	0.01
171	Wall	D	Concrete	Gray	145	Intact	1st Floor	0
172	Wall	A	Concrete	Gray	148	Intact	1st Floor	0
173	Wall	B	Concrete	Gray	148	Intact	1st Floor	0
174	Wall	A	Concrete	Gray	104	Intact	1st Floor	0
175	Wall	C	Concrete	Gray	104	Intact	1st Floor	0
176	Wall	A	Concrete	Gray	101	Intact	1st Floor	0
177	Wall	B	Concrete	Gray	101	Intact	1st Floor	0.01
178	Wall	B	Concrete	Gray	102	Intact	1st Floor	0
179	Wall	D	Concrete	Gray	102	Intact	1st Floor	0.02
180	Wall	A	Concrete	Gray	151	Intact	1st Floor	0
181	Wall	B	Concrete	Gray	151	Intact	1st Floor	0
182	Wall	D	Concrete	Gray	151	Intact	1st Floor	0.01
183	Wall	A	Concrete	Gray	149	Intact	1st Floor	0
184	Wall	D	Concrete	Gray	149	Intact	1st Floor	0

**FARMINGDALE STATE POLICE HEADQUARTERS**

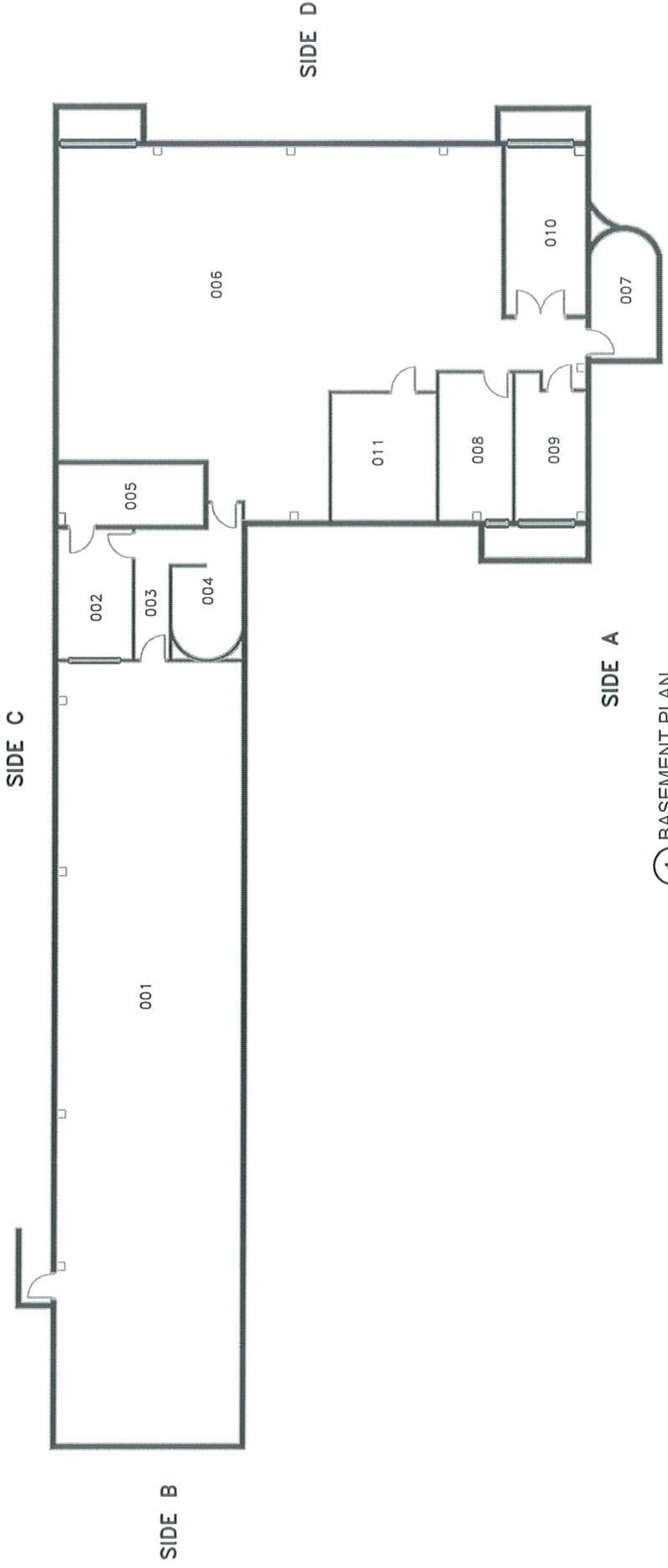
**ELECTRICAL SYSTEMS UPGRADES - OGS PROJECT NO. 43286-2**

Testing Date: April 2, 2008

NITON Serial No. 11961

Reading No.	Component	Side	Substrate	Color	Room	Condition	Floor Level	Results mg/cm <sup>2</sup>
185	Calibration							1
186	Calibration							1.1
187	Calibration							1

Readings >1.0 mg/cm<sup>2</sup> are considered to be lead-containing.



1 BASEMENT PLAN

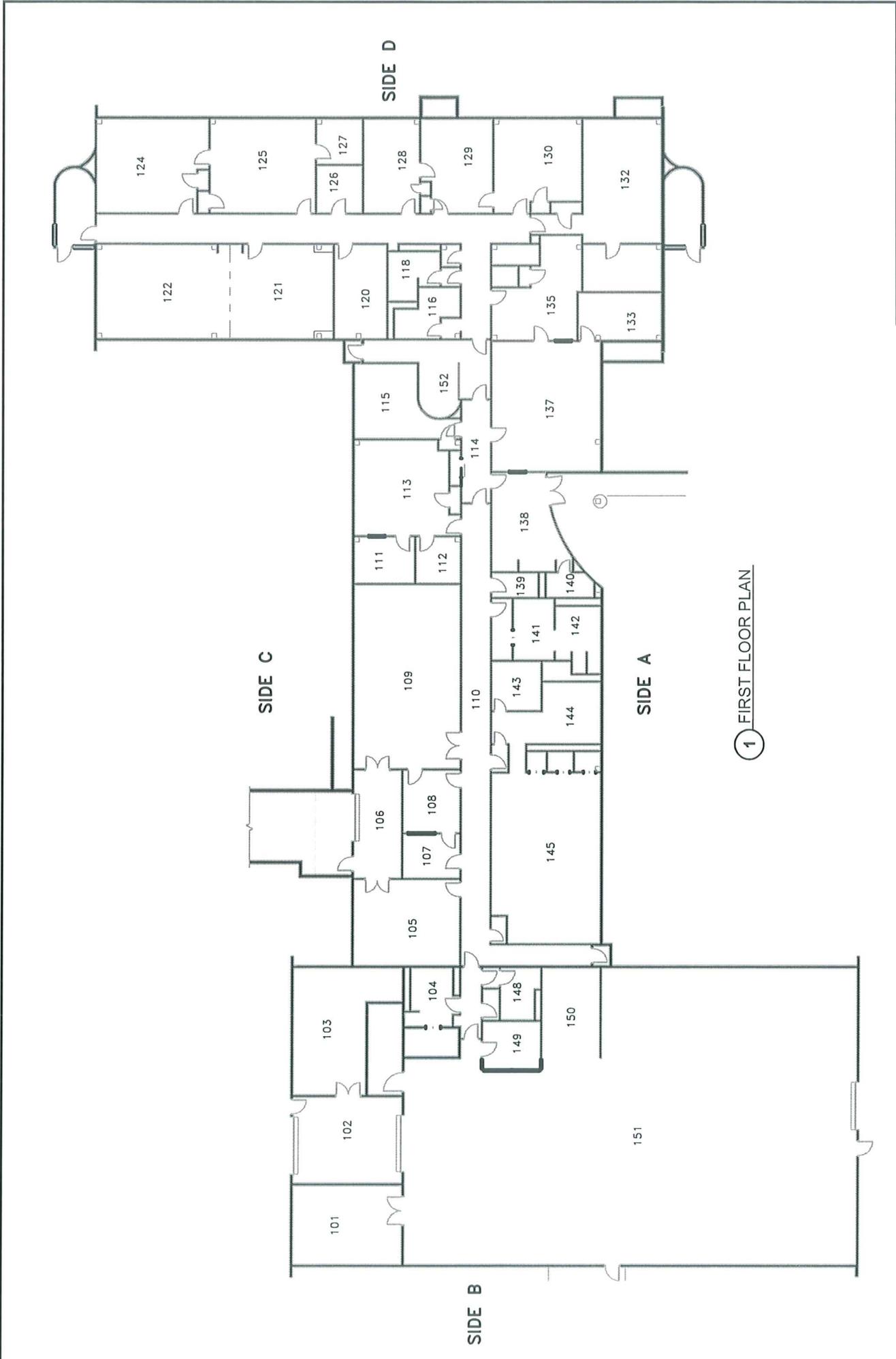
LEAD REFERENCE DRAWING  
BASEMENT

FARMINGDALE STATE POLICE HEADQUARTERS  
7140 REPUBLIC AIRPORT  
EAST FARMINGDALE, NEW YORK

NOT TO SCALE APRIL 2008

WATTS  
ARCHITECTURE &  
ENGINEERING, P.C.  
3826 Main Street  
Buffalo, New York 14226  
(716) 836-1540 | (716) 836-2402 Fax

XRF TESTING WAS CONDUCTED ON APRIL 2, 2008.

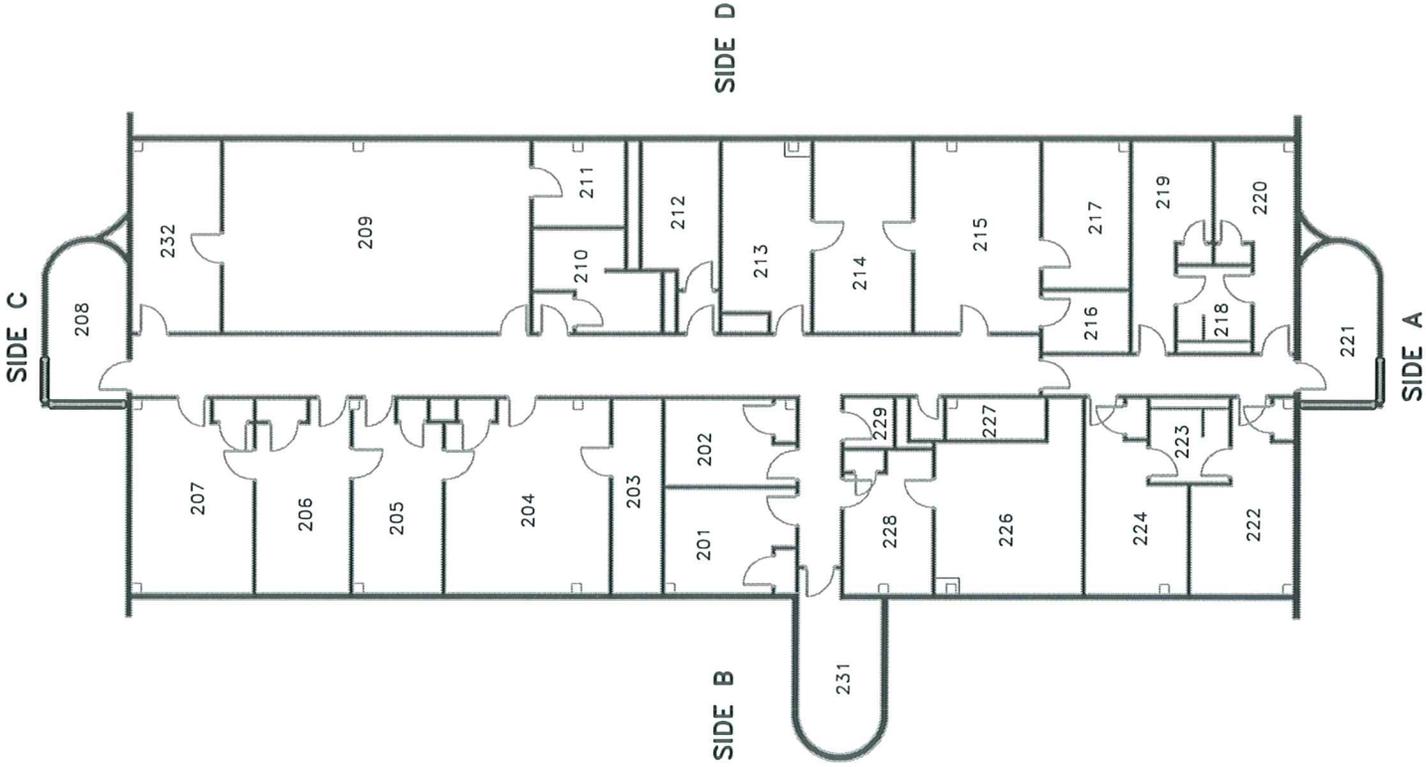


LEAD REFERENCE DRAWING  
FIRST FLOOR

WATTS  
ARCHITECTURE &  
ENGINEERING, P.C.  
3826 Main Street  
Buffalo, New York 14226  
(716) 836-1540 | (716) 836-2402 Fax

FARMINGDALE STATE POLICE HEADQUARTERS  
7140 REPUBLIC AIRPORT  
EAST FARMINGDALE, NEW YORK  
NOT TO SCALE APRIL 2008

XRF TESTING WAS CONDUCTED ON APRIL 2, 2008.



1 SECOND FLOOR PLAN

LEAD REFERENCE DRAWING  
SECOND FLOOR

WATT'S  
ARCHITECTURE &  
ENGINEERING, P.C.  
3826 Main Street  
Buffalo, New York 14226  
(716) 836-1540 | (716) 836-2402 Fax

FARMINGDALE STATE POLICE HEADQUARTERS  
7140 REPUBLIC AIRPORT  
EAST FARMINGDALE, NEW YORK

NOT TO SCALE APRIL 2008

XRF TESTING WAS CONDUCTED ON APRIL 2, 2008.

---

## 5.0 – LABORATORY ACCREDITATIONS

---

NEW YORK STATE DEPARTMENT OF HEALTH  
WADSWORTH CENTER  
RICHARD F. DAINES, M.D.



Expires 12:01 AM April 01, 2009  
Issued April 01, 2008

**CERTIFICATE OF APPROVAL FOR LABORATORY SERVICE**

*Issued in accordance with and pursuant to section 502 Public Health Law of New York State*

MR. KENNETH NAJUCH  
EMSL ANALYTICAL INC  
490 ROWLEY ROAD  
DEPEW, NY 14043

NY Lab Id No: 11606  
EPA Lab Code: NY01278

*is hereby APPROVED as an Environmental Laboratory for the category  
ENVIRONMENTAL ANALYSES SOLID AND HAZARDOUS WASTE  
All approved subcategories and/or analytes are listed below:*

**Miscellaneous**

Asbestos in Friable Material	EPA 600/M4/82/020 Item 198.1 of Manual
Asbestos in Non-Friable Material-PLM	Item 198.6 of Manual (NOB by PLM)
Asbestos in Non-Friable Material-TEM	ITEM 198.4 OF MANUAL

Serial No.: 36329

Property of the New York State Department of Health. Valid only at the address shown. Must be conspicuously posted. Valid certificates have a raised seal. Continued accreditation depends on successful ongoing participation in the Program. Consumers are urged to call (518) 485-5570 to verify laboratory's accreditation status.



**SCOPE OF ACCREDITATION TO ISO/IEC 17025:2005**

**EMSL Analytical, Inc.**  
490 Rowley Road  
Depew, NY 14043  
Mr. Kenneth J. Najuch  
Phone: 716-651-0030 Fax: 716-651-0394  
E-Mail: [knajuch@emsl.com](mailto:knajuch@emsl.com)  
URL: <http://www.emsl.com/>

**BULK ASBESTOS FIBER ANALYSIS (PLM)**

**NVLAP LAB CODE 200056-0**

*NVLAP Code*    *Designation / Description*

18/A01            EPA-600/M4-82-020: Interim Method for the Determination of Asbestos in Bulk Insulation Samples

2007-07-01 through 2008-06-30

*Effective dates*

*Sally S. Bruce*

*For the National Institute of Standards and Technology*

United States Department of Commerce  
National Institute of Standards and Technology



---

## Certificate of Accreditation to ISO/IEC 17025:2005

---

NVLAP LAB CODE: 200056-0

**EMSL Analytical, Inc.**  
Depew, NY

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

### **BULK ASBESTOS FIBER ANALYSIS**

*This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2005.  
This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality  
management system (refer to joint ISO-ILAC-IAF Communiqué dated 18 June 2005).*

2007-07-01 through 2008-06-30

Effective dates

---



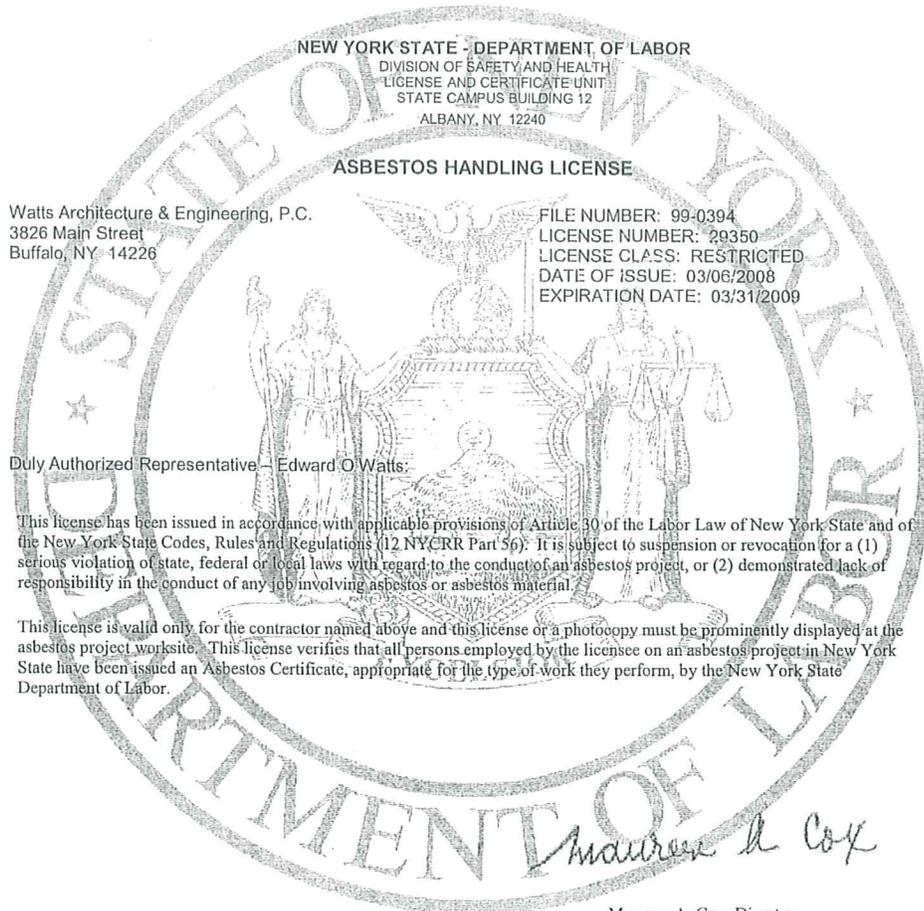
*Dolly S. Bruce*  
For the National Institute of Standards and Technology

---

## 6.0 - CONSULTANT'S LICENSES AND CERTIFICATIONS

---

**WATTS**  
ARCHITECTURE &  
ENGINEERING, P.C.  
3826 Main Street  
Buffalo, New York 14226



NEW YORK STATE - DEPARTMENT OF LABOR  
DIVISION OF SAFETY AND HEALTH  
LICENSE AND CERTIFICATE UNIT  
STATE CAMPUS BUILDING 12  
ALBANY, NY 12240

**ASBESTOS HANDLING LICENSE**

Watts Architecture & Engineering, P.C.  
3826 Main Street  
Buffalo, NY 14226

FILE NUMBER: 99-0394  
LICENSE NUMBER: 29350  
LICENSE CLASS: RESTRICTED  
DATE OF ISSUE: 03/06/2008  
EXPIRATION DATE: 03/31/2009

Duly Authorized Representative - Edward O Watts

This license has been issued in accordance with applicable provisions of Article 30 of the Labor Law of New York State and of the New York State Codes, Rules and Regulations (12 NYCRR Part 56). It is subject to suspension or revocation for a (1) serious violation of state, federal or local laws with regard to the conduct of an asbestos project, or (2) demonstrated lack of responsibility in the conduct of any job involving asbestos or asbestos material.

This license is valid only for the contractor named above and this license or a photocopy must be prominently displayed at the asbestos project worksite. This license verifies that all persons employed by the licensee on an asbestos project in New York State have been issued an Asbestos Certificate, appropriate for the type of work they perform, by the New York State Department of Labor.

*Maureen A. Cox*

Maureen A. Cox, Director  
FOR THE COMMISSIONER OF LABOR

SH 432 (4-07)



*Excellence in all we do.*

WATTS Architecture & Engineering, P.C.

**WATTS**

ARCHITECTURE &  
ENGINEERING, P.C.  
3826 Main Street  
Buffalo, New York 14226



STATE OF NEW YORK - DEPARTMENT OF LABOR  
ASBESTOS CERTIFICATE



KEVIN P. JANIK  
CLASS (EXPIRES)  
C ATEC (12/08) D INSP (12/08)  
H PM (12/08) I PD (12/08)



CERT# 96-05138  
DMV# 288044640

**MUST BE CARRIED ON ASBESTOS PROJECTS**



EYES BLU  
HAIR BRO  
HGT 5' 10"

IF FOUND RETURN TO:  
NYSOL - L&C UNIT  
ROOM 290A BUILDING 12  
STATE OFFICE CAMPUS  
ALBANY NY 12240

**Kevin P. Janik, P.E.**

C- Air Sampling Technician  
D - Inspector  
H - Project Monitor  
I - Project Designer



*Excellence in all we do.*

WATTS Architecture & Engineering, P.C.

**WATTS**

ARCHITECTURE &  
ENGINEERING, P.C.

3826 Main Street  
Buffalo, New York 14226



STATE OF NEW YORK - DEPARTMENT OF LABOR  
ASBESTOS CERTIFICATE



CERT# 94-10797  
DMV# 268217239

GREGORY A. ANDREWS  
CLASS(EXPIRES)  
C ATEC(02/09) D INSP(02/09)  
E MGPL(02/09) H PM (02/09)  
I PD (02/09)



**MUST BE CARRIED ON ASBESTOS PROJECTS**



EYES BLU  
HAIR BRO  
HGT 5' 10"

IF FOUND RETURN TO:  
NYS DOL - L&C UNIT  
ROOM 290A BUILDING 12  
STATE OFFICE CAMPUS  
ALBANY NY 12240

**Gregory A. Andrews, CHMM**

C- Air Sampling Technician  
D - Inspector  
E - Management Planner  
H - Project Monitor  
I - Project Designer



*Excellence in all we do.*

WATTS Architecture & Engineering, P.C.

**WATTS**

ARCHITECTURE &  
ENGINEERING, P.C.  
3826 Main Street  
Buffalo, New York 14226



# United States Environmental Protection Agency

This is to certify that

Watts Engineering & Architecture, P.C., c/b/a Watts Engineers  
3826 Main Street, Buffalo, New York 14226

has fulfilled the requirements of the Toxic Substances Control Act (TSCA) Section 402(a)(1), and has received certification to conduct lead-based paint activities pursuant to 40 CFR Part 745.226.

In the Jurisdiction of:

New York

This certification is valid from the date of issuance and expires April 17, 2009

NY-1952-1

Certification #

FEB 10 2006

Issued On

Kenneth S. Stoller, P.E., QEP, DEE, Chief  
Pesticides & Toxic Substances Branch



Excellence in all we do.

WATTS Architecture & Engineering, P.C.

**WATTS**

ARCHITECTURE &  
ENGINEERING, P.C.  
3826 Main Street  
Buffalo, New York 14226



New York  
**RISK ASSESSOR**



**Certified Lead-Based  
Paint Professional**

Certification No NY-R-4906-2	
Date of Birth <b>02/28/1970</b>	Expiration Date <b>05/24/2010</b>
Address <b>51 Kelly Court Lancaster, NY 14086</b>	
Badge Holder's Name <b>Gregory A. Andrews</b>	
Badge Holder's Signature <i>Gregory A. Andrews</i>	

If found, drop in any mailbox  
Postmaster: Please return to:  
US EPA  
1200 Pennsylvania Ave, NW  
(MC-74040T)  
Washington, DC 20460  
or call 1-800-424-LEAD



*Excellence in all we do.*

WATTS Architecture & Engineering, P.C.

**NITON**

CORPORATION

# *Certificate of Achievement*

*Greg Andrews*

*Watts Engineers*

*has successfully completed the Manufacturer's Training Course for the  
NITON Spectrum Analyzer and is now certified  
in radiation safety and monitoring, measurement technology,  
and machine maintenance of the NITON XRF Spectrum Analyzer.  
(CIH's - The ABIH awards 1 CM point, approval #5827)*

A0033157650

Certificate Number

06/01/00 Buffalo

Date & Site of Course



*Victoria Gorybunski*

Training Coordinator

*Kenneth P. Harts*

Director of Training

## **SECTION 260536**

### **CABLE TRAYS FOR ELECTRICAL SYSTEMS**

#### **PART 1 - GENERAL**

##### **1.01 RELATED DOCUMENTS**

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.

##### **1.02 SUMMARY**

- A. Section Includes:
  - 1. Single-rail cable trays.

##### **1.03 SUBMITTALS**

- A. Product Data: For each type of product.
  - 1. Include data indicating dimensions and finishes for each type of cable tray indicated.
- B. Shop Drawings: For each type of cable tray.
  - 1. Show fabrication and installation details of cable trays, including plans, elevations, and sections of components and attachments to other construction elements. Designate components and accessories, including clamps, brackets, hanger rods, splice-plate connectors, expansion-joint assemblies, straight lengths, and fittings.

#### **PART 2 - PRODUCTS**

##### **2.01 GENERAL REQUIREMENTS FOR CABLE TRAYS**

- A. Cable Trays and Accessories: Identified as defined in NFPA 70 and marked for intended location, application, and grounding.
  - 1. Source Limitations: Obtain cable trays and components from single manufacturer.
- B. Sizes and Configurations: 6" , nominal width.
- C. Structural Performance: See articles on individual cable tray types for specific values for the following parameters:

1. Uniform Load Distribution: Capable of supporting a uniformly distributed load on the indicated support span when supported as a simple span and tested according to NEMA VE 1.
2. Concentrated Load: A load applied at midpoint of span and centerline of tray.
3. Load and Safety Factors: Applicable to both side rails and rung capacities.

## 2.02 SINGLE-RAIL CABLE TRAYS

A. Manufacturers: Subject to compliance with requirements, provide products by one of the following:

1. [Allied Tube & Conduit; a Tyco International Ltd. Co.](#)
2. [Cooper B-Line, Inc.](#)
3. [Mono-Systems, Inc.](#)

B. Description:

1. Configuration: Center rail with extruded-aluminum rungs arranged symmetrically about the center rail.
2. Construction: Aluminum rungs mechanically connected to aluminum center rail in at least two places, with ends finished to protect installers and cables.
3. Rung Spacing: **6 inches (150 mm)** o.c.
4. Radius-Fitting Rung Spacing: **9 inches (225 mm)** at center of tray's width.
5. Straight Section Lengths: **10 feet (3 m)** except where shorter lengths are required to facilitate tray assembly.
6. Width: **6 inches (150 mm)** unless otherwise indicated on Drawings.
7. Support Point: Splice fittings shall be hanger support point.
8. Support Spacing: Support each section at midpoint. Support wall-mounted sections a maximum of one-sixth of the section length from each end.
9. Loading Depth: **3 inches (75 mm)**.
10. Maximum Loads: **25 lb/ft. (37 kg/m)**.
11. **Unbalanced Loads: Maintain cable tray rungs within six degrees of horizontal under all loading conditions.**
12. Splicing Assemblies: Bolted type using serrated flange locknuts.
13. Splicing Assembly Capacity: Splices located within support span shall not diminish rated loading capacity of cable tray.
14. Hardware and Fasteners: Steel, zinc plated according to ASTM B 633.
15. Splices and Connectors: Protect cables from edges of center rail and do not intrude into cable fill area.

## 2.03 MATERIALS AND FINISHES

A. Aluminum:

1. Materials: Alloy 6063-T6 according to ANSI H35.1/H 35.1M for extruded components, and according to ANSI H35.1/H 35.1M for fabricated parts.
2. Hardware: Chromium-zinc-plated steel, ASTM F 1136.

## **2.04 CABLE TRAY ACCESSORIES**

- A. Fittings: Tees, crosses, risers, elbows, and other fittings as indicated, of same materials and finishes as cable tray.
- B. Barrier Strips: Same materials and finishes as for cable tray.
- C. Cable tray supports and connectors, including bonding jumpers, as recommended by cable tray manufacturer.

## **2.05 SOURCE QUALITY CONTROL**

- A. Testing: Test and inspect cable trays according to NEMA FG 1.

## **PART 3 - EXECUTION**

### **3.01 CABLE TRAY INSTALLATION**

- A. Install cable trays according to NEMA FG 1.
- B. Install cable trays as a complete system, including fasteners, hold-down clips, support systems, barrier strips, adjustable horizontal and vertical splice plates, elbows, reducers, tees, crosses, cable dropouts, adapters, covers, and bonding.
- C. Install cable trays so that the tray is accessible for cable installation and all splices are accessible for inspection and adjustment.
- D. Remove burrs and sharp edges from cable trays.
- E. Join aluminum cable tray with splice plates; use four square-neck carriage bolts and locknuts.
- F. Fasten cable tray supports to building structure.
- G. Design fasteners and supports to carry cable tray, the cables, and a concentrated load of **200 lb (90 kg)**. Comply with requirements in Section 260529 "Hangers and Supports for Electrical Systems."
- H. Place supports so that spans do not exceed maximum spans on schedules and provide clearances shown on Drawings. Install intermediate supports when cable weight exceeds the load-carrying capacity of the tray rungs.
- I. Construct supports from channel members, threaded rods, and other appurtenances furnished by cable tray manufacturer. Arrange supports in trapeze or wall-bracket form as required by application.
- J. Support bus assembly to prevent twisting from eccentric loading.
- K. Install center-hung supports for single-rail trays designed for 60 versus 40 percent eccentric loading condition, with a safety factor of 3.

- L. Locate and install supports according to NEMA FG 1. Do not install more than one cable tray splice between supports.
- M. Make connections to equipment with flanged fittings fastened to cable trays and to equipment. Support cable trays independent of fittings. Do not carry weight of cable trays on equipment enclosure.
- N. Install expansion connectors where cable trays cross building expansion joints and in cable tray runs that exceed dimensions recommended in NEMA FG 1. Space connectors and set gaps according to applicable standard.
- O. Make changes in direction and elevation using manufacturer's recommended fittings.
- P. Make cable tray connections using manufacturer's recommended fittings.
- Q. Seal penetrations through fire and smoke barriers. Comply with requirements in Section 078413 "Penetration Firestopping."
- R. Install capped metal sleeves for future cables through firestop-sealed cable tray penetrations of fire and smoke barriers.
- S. Install cable trays with enough workspace to permit access for installing cables.
- T. Install barriers to separate cables of different systems, such as power, communications, and data processing; or of different insulation levels, such as 600, 5000, and 15 000 V.
- U. Install permanent covers, if used, after installing cable. Install cover clamps according to NEMA VE 2.
- V. Clamp covers on cable trays installed outdoors with heavy-duty clamps.
- W. Install warning signs in visible locations on or near cable trays after cable tray installation.

### **3.02 CABLE TRAY GROUNDING**

- A. Ground cable trays according to NFPA 70 unless additional grounding is specified. Comply with requirements in Section 260526 "Grounding and Bonding for Electrical Systems."
- B. Bond cable trays to power source for cables contained within with bonding conductors sized according to NFPA 70, Article 250.122, "Size of Equipment Grounding Conductors."

### **3.03 CABLE INSTALLATION**

- A. Install cables only when each cable tray run has been completed and inspected.
- B. Fasten cables on horizontal runs with cable clamps or cable ties according to NEMA VE 2. Tighten clamps only enough to secure the cable, without indenting the cable jacket. Install cable ties with a tool that includes an automatic pressure-limiting device.
- C. Fasten cables on vertical runs to cable trays every **18 inches (450 mm)**.

- D. Fasten and support cables that pass from one cable tray to another or drop from cable trays to equipment enclosures. Fasten cables to the cable tray at the point of exit and support cables independent of the enclosure. The cable length between cable trays or between cable tray and enclosure shall be no more than **72 inches (1800 mm)**.
- E. In existing construction, remove inactive or dead cables from cable trays.

### **3.04 CONNECTIONS**

- A. Remove paint from all connection points before making connections. Repair paint after the connections are completed.
- B. Connect raceways to cable trays according to requirements in NEMA VE 2 and NEMA FG 1.

### **3.05 FIELD QUALITY CONTROL**

- A. Perform the following tests and inspections:
  - 1. After installing cable trays and after electrical circuitry has been energized, survey for compliance with requirements.
  - 2. Visually inspect cable insulation for damage. Correct sharp corners, protuberances in cable trays, vibrations, and thermal expansion and contraction conditions, which may cause or have caused damage.
  - 3. Verify that the number, size, and voltage of cables in cable trays do not exceed that permitted by NFPA 70. Verify that communications or data-processing circuits are separated from power circuits by barriers or are installed in separate cable trays.
  - 4. Verify that there are no intruding items such as pipes, hangers, or other equipment in the cable tray.
  - 5. Remove dust deposits, industrial process materials, trash of any description, and any blockage of tray ventilation.
  - 6. Visually inspect each cable tray joint and each ground connection for mechanical continuity. Check bolted connections between sections for corrosion. Clean and retorquer in suspect areas.
  - 7. Check for improperly sized or installed bonding jumpers.
  - 8. Check for missing, incorrect, or damaged bolts, bolt heads, or nuts. When found, replace with specified hardware.
  - 9. Perform visual and mechanical checks for adequacy of cable tray grounding; verify that all takeoff raceways are bonded to cable trays. Test entire cable tray system for continuity. Maximum allowable resistance is 1 ohm.
- B. Prepare test and inspection reports.

### **3.06 PROTECTION**

- A. Protect installed cable trays and cables.
  - 1. Install temporary protection for cables in open trays to safeguard exposed cables against falling objects or debris during construction. Temporary protection for cables and cable

tray can be constructed of wood or metal materials and shall remain in place until the risk of damage is over.

2. Repair damage to galvanized finishes with zinc-rich paint recommended by cable tray manufacturer.
3. Repair damage to paint finishes with matching touchup coating recommended by cable tray manufacturer.

**END OF SECTION 260536**