



*Environmental Design  
International inc.*

Engineers · Scientists · Surveyors

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December 10, 2012

Mr. Arthur Del Muro, AIA LEED AP  
Senior Design Project Manager  
Public Building Commission of Chicago  
50 West Washington Street  
Chicago, Illinois 60602

**Subject: Asbestos Containing Materials Survey  
Alexander Graham Bell Elementary School  
3730 North Oakley Avenue  
Chicago, Illinois 60618**

Dear Mr. Del Muro:

Enclosed please find the Final Asbestos Containing Materials (ACM) Survey Report completed by Environmental Design International inc (EDI) for the facility mentioned above. This report presents the findings from inspection and sampling activities that were completed by EDI's industrial hygiene professionals at the subject property from August 8 through August 21, 2012.

Please feel free to call me at 312-345-8676 or Gary Flentge at 312-345-8679 if you have any questions about the presented information. On behalf of EDI, I would like to thank you for the opportunity to provide you with Industrial Hygiene services for this project and hope that we can provide additional support for future projects.

Respectfully,

**Environmental Design International inc.**

A handwritten signature in blue ink, appearing to read 'G. Daley', with a long horizontal flourish extending to the right.

Garth A. Daley, P.E.  
Environmental Engineer

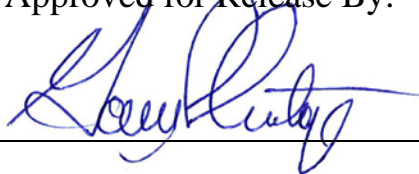
## **Asbestos Containing Materials Survey**

**Project Site:**  
**Alexander Graham Bell Elementary School**  
**3730 North Oakley Avenue**  
**Chicago, Illinois 60618**

**Prepared for:**  
**Public Building Commission of Chicago**  
**50 West Washington Street**  
**Chicago, Illinois 60602**

**Prepared by:**  
**Environmental Design International inc.**  
**33 West Monroe Street**  
**Suite 1825**  
**Chicago, Illinois 60603**  
**EDI Project No. 1261.028.01**

Approved for Release By:



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Gary P. Flentge, MPH, LEHP, REA  
Vice President, Industrial Hygiene



December 10, 2012

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## Executive Summary

Environmental Design International inc. (EDI) was retained by the Public Building Commission of Chicago (PBC) to perform an asbestos-containing materials (ACM) survey at the Alexander Graham Bell Elementary School (Bell School) located at 3730 North Oakley Avenue in Chicago, Illinois. Bell School is an active 3-story elementary school in the Chicago Public School (CPS) system that is slated to undergo renovations and the addition of a 2-story addition. The ACM survey consisted of the inspection and sampling of the interior and exterior areas of the building for suspect ACM. EDI performed the ACM survey from Wednesday, August 8 through Tuesday, August 21, 2012.

Prior to initiating on site activities, EDI's licensed Illinois Department of Public Health (IDPH) asbestos management planner, Randolph Livingston (IDPH # 100-01934), reviewed the Three Year Reinspection Reports for 2007 and 2010, as well as the 6 Month Asbestos Surveillance document for Bell School.

Upon arriving at the Site on August 8, 2012, EDI's IDPH asbestos inspectors, Raymond Cicenas (IDPH # 100-10662) and Randolph Livingston met with Mr. Gary Dehne, the Building Engineer for Bell School. Mr. Dehne allowed Mr. Cicenas and Mr. Livingston to review the school's Asbestos Management Plan (AMP) before performing a visual inspection of the accesible portions of the building to identify homogeneous sampling areas (HSAs) and suspect ACM. For continuity with the information contained in the AMP, EDI tried to mimic the previously used HSA numbering system to the extent possible. It should be noted that some of the identified ACBM identified in the AMP have been abated, resulting in the non-continuous use of HSA numbers.

Destructive sampling at the building was included as part of this survey in areas planned for renovation. EDI's IDPH licensed asbestos inspectors collected a total of 164 representative bulk samples of suspect asbestos-containing building materials (ACBM) that represented 51 HSAs. Samples were mainly collected from previously damaged areas or from inconspicuous areas with the sample locations being patched or otherwise repaired as necessary. The samples were submitted to International Asbestos Testing Laboratories, Inc. (IATL), a National Voluntary Laboratory Accreditation Program (NVLAP) accredited laboratory, for bulk laboratory analysis. Based on laboratory analysis of the samples collected in accordance with the survey methodology, the following materials were reported to contain asbestos with an asbestos content greater than one percent:

- 12" x 12" white/grey floor tile in the second floor Janitor's Closet;
- 12" x 12" white/grey floor tile in the third floor Janitor's Closet
- 9" x 9" red vinyl floor tile in Room 307 near the Main door;
- 9" x 9" red vinyl floor tile in Room 309 near the Main door;
- 9" x 9" light tan vinyl floor tile in the north storage room for the lunchroom;
- 9" x 9" light tan vinyl floor tile in the south storage room for the lunchroom;



- 12" x 12" white vinyl floor tile with brown specks (mastic) in the kitchen;
- 12" x 12" green vinyl floor tile with gray specks (mastic) in the lunchroom;
- 12" x 12" white vinyl floor tile with blue specks (mastic) in the lunchroom;
- 12" x 12" gray/blue vinyl floor tile with gray specks in the lunchroom;
- 12" x 12" tan vinyl floor tile with brown specks in the lunchroom;
- 12" x 12" tan vinyl floor tile with brown specks (mastic) in the lunchroom;
- 12" x 12" pink vinyl floor tile with white marble specks (mastic) in the lunchroom;
- 12" x 12" yellow vinyl floor tile with white marble specks (mastic) in the lunchroom;
- 12" x 12" brown vinyl floor tile with white marble specks (mastic) in the lunchroom;
- Flashing on the roof off the third floor;
- Flashing caulk on the roof off the third floor;
- Roof caulk on the roof off the third floor;
- Roof caulk patch on the roof off the third floor;
- Mudded fittings in the boy's bathroom on the second floor; and
- Preformed pipe insulation in the boy's bathroom on the second floor.

Water supply piping wrapped in pipe insulation was present above the drop ceiling panels and below the plaster ceiling on all three floors. The pipe insulation was not sampled for asbestos content. The pipe insulation should be treated as ACM until confirmatory sampling can be conducted.

According to the Asbestos Hazard Emergency Response Act (AHERA) Model Accreditation Plan, non-suspect material such as fiberglass, foam rubber, and plastics do not warrant sampling.

Prior to renovation of the building, identified ACM that will be disturbed must be abated by a licensed contractor using licensed supervisors and workers.

In completing this ACM survey, EDI was as thorough and comprehensive as possible. However, EDI does not attest to having tested every surface at the Bell School. As such, any suspect ACM identified during renovation activities that is not specifically listed in this report should be thoroughly evaluated, assessed, sampled, and analyzed prior to disturbance, in accordance with applicable regulatory standards.

## **1.0 Introduction**

Environmental Design International inc. (EDI) was tasked, under contract number PS1569D and Task Order 05330-PS-1651D-001, to provide Phase II Environmental demolition and renovation services at the Alexander Graham Bell Elementary School (Bell School) in Chicago, Illinois. The requested services included conducting an asbestos-containing material (ACM) survey and developing an environmental renovation cost estimate. These tasks were in support of planned activities associated with the planned 2-story addition to the existing building.

This report presents information related to the performance of the ACM survey at the Bell School located at 3730 North Oakley Avenue in Chicago, Illinois. The property is bound by North Claremont Avenue to the west, West Grace Street to the north, North Oakley Avenue to the east, and West Waveland Avenue to the south. Figure 1 of this report shows the location of Bell School.

Bell School is an active CPS elementary school that currently consisting of a 3-story, 96,000 square foot (ft<sup>2</sup>) brick building with a crawl space beneath the Auditorium. The school, which is located in an urban, primarily residential neighborhood, provides Pre-Kindergarten to 8<sup>th</sup> grade educational services to children through neighborhood attendance, Regional Gifted and Talent, and Deaf curriculum/programs.

The field inspection and sampling activities were performed by IDPH-licensed asbestos inspectors Mr. Raymond Cicenas (IDPH # 100-10662) and Mr. Randolph Livingston (IDPH # 100-01934). Mr. Cicenas completed his sample collection and photographic documentation activities from August 8 through August 14, 2012, while Mr. Livingston collected samples of suspect ACM and took photographs on August 20 and August 21, 2012. Licenses and certifications for Mr. Cicenas and Mr. Livingston are provided in Appendix A.

### **1.1 Project Purpose and Background**

The purpose of this ACM survey was to identify ACBM at the subject property primarily in areas of the existing building that would be impacted by the renovation or demolition activities related to the construction of the planned addition to the Bell School building.

The subject property is a rectangular parcel approximately 4.0 acres in size. A brick three-story educational building with four wings currently occupies the property. Asphalt pavement is present along the south, southeast, and southwest sides of the Bell School building. A small playground is also located at the southwest portion of the building. To the north and northeast of the Bell School building are a playground and a turf field, respectively.

## **1.2 Scope of Work**

The ACM survey consisted of the inspection and sampling of accessible portions of the interior and exterior areas of the building for suspect ACM. The survey was completed in accordance with the National Emissions Standards for Hazardous Air Pollutants (NESHAP) for Asbestos at 40 Code of Federal Regulations (CFR) Part 61, Subpart M, utilizing an IDPH-licensed asbestos inspector. The samples were analyzed by IATL, a NVLAP accredited laboratory.

## 2.0 Asbestos Survey

### 2.1 Asbestos Survey Methodology

EDI's IDPH licensed asbestos inspectors performed an initial visual inspection of the Bell School building with Mr. Gary Dehne, the building engineer, to identify suspect ACM in all accessible areas of the subject property. Destructive sampling was included as part of this survey in areas planned for renovation or demolition.

The ACM survey was performed in accordance with the USEPA *Asbestos in Buildings: Simplified Sampling Scheme for Friable Surfacing Materials* (USEPA 560/5085-030a, October 1985). The ACM survey included the following activities:

- Visual inspection of all areas of the site;
- Collection of bulk samples of suspect ACM per homogeneous material in areas scheduled for renovation or demolition of the subject property;
- AIHA and NVLAP accredited laboratory analysis of suspect ACM bulk samples by polarized light microscopy (PLM).
- Preparation of "Draft" and "Final" reports that include sample locations of representative ACM and the laboratory's analytical report.

A total of 164 bulk samples of suspect ACM were collected representing 51 HSAs. HSAs are areas containing materials that are similar in color, texture, and general appearance, and which appear to have been uniformly installed during the same time period. HSAs observed and sampled include:

- Floor tile and mastic;
- Window caulk;
- Roof caulk material;
- Roof flashing material;
- Mudded pipe fittings; and
- Pipe insulation.

Refer to Appendix B - ACM Sample Log for specific sample descriptions. According to the AHERA Model Accreditation Plan, non-suspect material such as fiberglass, foam rubber, and plastics do not warrant sampling. Refer to Figures 2 through 5 for the approximate locations of the positive ACM samples.

Bulk samples of suspect ACM were collected using wet sampling methods with a coring device or a sample cutter, as appropriate, to collect a cross-section of the suspect ACM. Wherever possible, bulk samples were collected from previous damaged or inconspicuous locations. In other cases, the sample location was repaired using various appropriate measures such as using a roof patch kit, using a plaster repair kit, or duct tape. Sample collection tools were

decontaminated after each sample to avoid cross contamination. Bulk ACM samples were placed into clean unused sample containers marked with a unique sample identification number. For each sample, the identification number, brief material description, location, condition, and estimated quantity of suspect ACM were recorded on a bulk sample log sheet. Chain-of-Custody (COC) procedures were followed for the ACM inspection. These procedures provide a written tracking mechanism that lists the person responsible for the sample from collection to delivery to the laboratory. Sample identification numbers, sample locations, and material descriptions were recorded on the COC forms. Refer to Appendix C for ACM laboratory results and laboratory certifications.

During the ACM sampling activities, both Mr. Cicenias and Mr. Livingston took photographs of the sampled locations and materials, as well as general areas, for documentation purposes. Some of these photographs are presented in Appendix D of this report.

All bulk samples were analyzed by IATL in Mount Laurel, New Jersey. IATL is a NVLAP accredited asbestos laboratory. Samples were analyzed by PLM supplemented with dispersion staining. PLM is an USEPA-approved method that utilizes a light microscope equipped with polarized filters (USEPA Method 600/R-93/116).

Some materials may not be accurately identified and/or quantified by PLM. EDI occasionally recommends that any flooring materials found negative by PLM also be analyzed by Transmission Electron Microscopy (TEM) for confirmatory results. As an example, the original fabrication of vinyl floor tile routinely involved milling of asbestos fibers to extremely small sizes. As a result, these fibers may go undetected under the standard PLM method. TEM is required for a more definitive analysis of these materials. These types of flooring materials that are reported by laboratory analysis to be non-asbestos by PLM analysis are routinely analyzed utilizing the TEM method for verification of asbestos content. One of the bulk samples collected during the survey was vinyl floor tile which required additional analysis by TEM. Subsequently, sample HA37-129 was re-examined using TEM and was found to not be ACM.

## **2.2 Results**

Based on laboratory analysis of the samples collected in accordance with the survey methodology, the following materials were found to be asbestos containing material (materials with an asbestos content greater than one percent).

- 12" x 12" white/grey floor tile in the second floor Janitor's Closet;
- 12" x 12" white/grey floor tile in the third floor Janitor's Closet
- 9" x 9" red vinyl floor tile in Room 307 near the Main door;
- 9" x 9" red vinyl floor tile in Room 309 near the Main door;
- 9" x 9" light tan vinyl floor tile in the north storage room for the lunchroom;
- 9" x 9" light tan vinyl floor tile in the south storage room for the lunchroom;
- 12" x 12" white vinyl floor tile with brown specks (mastic) in the kitchen;

- 12" x 12" green vinyl floor tile with gray specks (mastic) in the lunchroom;
- 12" x 12" white vinyl floor tile with blue specks (mastic) in the lunchroom;
- 12" x 12" gray/blue vinyl floor tile with gray specks in the lunchroom;
- 12" x 12" tan vinyl floor tile with brown specks in the lunchroom;
- 12" x 12" tan vinyl floor tile with brown specks (mastic) in the lunchroom;
- 12" x 12" pink vinyl floor tile with white marble specks (mastic) in the lunchroom;
- 12" x 12" yellow vinyl floor tile with white marble specks (mastic) in the lunchroom;
- 12" x 12" brown vinyl floor tile with white marble specks (mastic) in the lunchroom;
- Flashing on the roof off the third floor;
- Flashing caulk on the roof off the third floor;
- Roof caulk on the roof off the third floor;
- Roof caulk patch on the roof off the third floor;
- Mudded fittings in the boy's bathroom on the second floor; and
- Preformed pipe insulation in the boy's bathroom on the second floor.

Per EPA regulations, samples with an asbestos content of less than ten percent were analyzed utilizing PLM point counting techniques.

### **3.0 Findings and Recommendations**

EPA regulation establishes that material with greater than one percent asbestos is considered regulated. Based on laboratory analysis of the samples collected in accordance with the survey methodology, the following materials will need to be abated at Bell School if they are disturbed during the planned renovation and/or demolition activities:

- Miscellaneous 12" x 12" vinyl floor tile in the lunchroom, and the Janitor's closets on all three floors;
- Miscellaneous 9" x 9" vinyl floor tile in the lunchroom and the third floor (classrooms 307 and 309);
- Fittings and pipe insulation in the Boy's and Girl's bathrooms on all three floors; and
- Various roof material (flashing, flashing caulk, caulk and roof caulk patch) for the third floor roof.

Water supply piping wrapped in pipe insulation was present above the drop ceiling panels and below the plaster ciling on all three floors. The pipe insulation was not sampled for asbestos content. The pipe insulation should be treated as ACM until confirmatory sampling can be conducted.

Prior to renovation of the building, ACM that will be disturbed must be abated by a licensed contractor using licensed supervisors and workers. According to the AHERA Model Accreditation Plan, non-suspect material such as fiberglass, foam rubber, and plastics do not warrant sampling.

#### **4.0 Limitations**

This survey is based solely on the scope of work provided and the assumptions identified in this survey. Any new information that becomes available concerning the subject site should be provided to EDI so that our evaluations, conclusions, and recommendations may be revised and modified accordingly. All materials tested are assumed homogeneous throughout the proposed renovation areas. EDI staff walked the site with the building engineer, Mr. Dehne, to identify accessible areas and HSAs to be included in the survey. In accordance with directions provided by Ms. Lynn Crivello, the Senior Environmental Engineer for CPS, every attempt was made to thoroughly evaluate and assess the presence and condition of suspect asbestos containing materials. Any suspect material identified during renovation that is not specifically listed herein should be thoroughly assessed, sampled, and analyzed prior to disturbance, in accordance with applicable regulatory standards.

EDI inspected and sampled accessible suspect ACM located in the areas scheduled for renovation or demolition during this survey.

The findings and conclusions in this survey are not specific certainties; rather they are probabilities based on professional judgment concerning the significance of the data collected. EDI claims to represent only the specific findings documented herein and does not claim knowledge of conditions beyond the scope of the survey.

The ACM survey was conducted in a manner consistent with that level of care and skill ordinarily exercised by members of the environmental profession under similar conditions. No other warranty or guarantee, express or implied, is included or intended in this report or otherwise.

This survey is intended for the use of the PBC and CPS, subject to the terms and conditions of Contract PS1569D and Task Order 05330-PS-1651D-001 dated July 30, 2012.



## **Appendices**

## **Appendix A**

### **EDI Employee Licenses and Certifications**



**ASBESTOS  
PROFESSIONAL  
LICENSE**

ID NUMBER  
**100 - 10662**

ISSUED  
**5/1/2012**

EXPIRES  
**05/15/2013**

RAYMOND A CICHENAS  
8617 W 145TH PL  
ORLAND PARK, IL 60462

Environmental Health



**ENDORSEMENTS**

SUPERVISOR/WORKER  
INSPECTOR

**TC EXPIRES**

4/2/2013  
4/4/2013

PROJECT MANAGER  
AIR SAMPLING PROFESSIONAL

4/2/2013

Alteration of this license shall result in legal action  
This license issued under authority of the State of Illinois  
Department of Public Health  
This license is valid only when accompanied by a valid  
training course certificate.



# Occupational Training & Supply, Inc.

7233 Adams Street ♦ Willowbrook, IL 60527 ♦ (630) 655-3900

## Raymond A. Cicenias

*has successfully completed the 4 hour Asbestos Building Inspector Refresher course and has passed the competency exam with a minimum score of 70%. This course is accredited by the Illinois Department of Public Health and the Indiana Department of Environmental Management for purposes of accreditation in accordance with EPA 40 CFR 763, Asbestos Hazard Emergency Response Act (AHERA) and TSCA Title II.*

## Asbestos Building Inspector Refresher

Course Date: 4/4/2012  
Expiration Date: 4/4/2013

Exam Date: 4/4/2012  
Certificate: BIR1204040523

  
\_\_\_\_\_  
Kathy DeSalvo, Director

2012



# ASBESTOS PROFESSIONAL LICENSE

ID NUMBER  
**100 - 01934**

ISSUED  
**2/27/2012**

EXPIRES  
**05/15/2013**

**RANDOLPH LIVINGSTON**  
6549 S. EUCLID AVE  
CHICAGO, IL 60617

Environmental Health



TC EXPIRES

ENDORSEMENTS

INSPECTOR	1/21/2012
MANAGEMENT PLANNER	12/1/2012
PROJECT MANAGER	12/5/2012
AIR SAMPLING PROFESSIONAL	

**Alteration of this license shall result in legal action**  
 This license issued under authority of the State of Illinois  
 Department of Public Health  
 This license is valid only when accompanied by a valid  
 training course certificate.

# Randolph Livingston

*has successfully completed the 4 hour Asbestos Management Planner Refresher course and has passed the competency exam with a minimum score of 70%. This course is accredited by the Illinois Department of Public Health and the Indiana Department of Environmental Management for purposes of accreditation in accordance with EPA 40 CFR 763, Asbestos Hazard Emergency Response Act (AHERA) and TSCA Title II.*

## Asbestos Management Planner Refresher

Course Date: 12/1/2011  
Expiration Date: 12/1/2012

Exam Date: 12/1/2011  
Certificate: MPR1112013268



Kathy DeSalvo, Director

# *Randolph Livingston*

*has successfully completed the 4 hour Asbestos Building Inspector Refresher course and has passed the competency exam with a minimum score of 70%. This course is accredited by the Illinois Department of Public Health and the Indiana Department of Environmental Management for purposes of accreditation in accordance with EPA 40 CFR 763, Asbestos Hazard Emergency Response Act (AHERA) and TSCA Title II.*

## *Asbestos Building Inspector Refresher*

*Course Date: 12/1/2011  
Expiration Date: 12/1/2012*

*Exam Date: 12/1/2011  
Certificate: BIR1112013255*



*Kathy DeSalvo*

*Kathy DeSalvo, Director*

**Appendix B**  
**ACM Sample Log**





Alexander Graham Bell Elementary School  
 3730 North Oakley Avenue  
 Chicago, Illinois  
 EDI Project No. 1261.028.01

<b>ASBESTOS-CONTAINING MATERIAL (ACM) SAMPLE LOG</b>							
<b>HA &amp; Sample #</b>	<b>Lab #</b>	<b>Material Description</b>	<b>Sample Location</b>	<b>Condition</b>	<b>F or NF</b>	<b>Results</b>	<b>Approx. Quantity</b>
HA01-82	4766037	Plaster Wall	1 <sup>st</sup> Floor Lunchroom	Fair	NF	ND	
HA01-83	4766038	Plaster Wall	1 <sup>st</sup> Floor Hall to Classroom 112	Fair	NF	ND	
HA01-84	4766039	Plaster Wall	1 <sup>st</sup> Floor South Hall Wall	Fair	NF	ND	
HA01-85	4766040	Plaster Wall	1 <sup>st</sup> Floor Hall Outside Main Office	Fair	NF	ND	
HA01-86	4766041	Plaster Wall	1 <sup>st</sup> Floor Girl's Washroom	Fair	NF	ND	
HA01-87	4766042	Plaster Wall	2 <sup>nd</sup> Floor Classroom 202	Fair	NF	ND	
HA01-88	4766043	Plaster Wall	1 <sup>st</sup> Floor Auditorium	Fair	NF	ND	
HA01.1-89	4766044	Plaster Ceiling	1 <sup>st</sup> Floor Hall near Classroom 113A	Fair	NF	ND	
HA01.1-90	4766045	Plaster Ceiling	Lunchroom	Fair	NF	ND	
HA01.1-91	4766046	Plaster Ceiling	1 <sup>st</sup> Floor Boy's Washroom	Fair	NF	ND	



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HA01.1-92	4766047	Plaster Ceiling	1 <sup>st</sup> Floor Girl's Washroom	Fair	NF	ND	
HA01.1-93	4766048	Plaster Ceiling	2 <sup>nd</sup> Floor Girl's Washroom	Fair	NF	ND	
HA01.1-94	4766049	Plaster Ceiling	2 <sup>nd</sup> Floor Boy's Washroom	Fair	NF	ND	
HA01.1-95	4766050	Plaster Ceiling	3 <sup>rd</sup> Floor Boy's Washroom	Fair	NF	ND	
HA02-79	4766004	White 2' x 4' Ceiling Tile	Library	Fair	NF	ND	
HA02-80	4766005	White 2' x 4' Ceiling Tile	1 <sup>st</sup> Floor Hallway	Fair	NF	ND	
HA02-81	4766006	White 2' x 4' Ceiling Tile	2 <sup>nd</sup> Floor Hallway	Fair	NF	ND	
HA05-01	4765890	Carpet Mastic	NW Corner in Library	Good	NF	ND	
HA05-02	4765891	Carpet Mastic	SE Corner in Library	Good	NF	ND	
HA05-03	4765892	Carpet Mastic	SW Corner in Library	Good	NF	ND	
HA06-04	4765893	12" x 12" White/Gray Vinyl Floor Tile	1 <sup>st</sup> Floor Janitor's Closet	Fair	NF	ND	200 SF



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HA06-05	4765894	12" x 12" White/Gray Vinyl Floor Tile	2 <sup>nd</sup> Floor Janitor's Closet	Fair	NF	ND	
HA06-06	4765895	12" x 12" White/Gray Vinyl Floor Tile	3 <sup>rd</sup> Floor Janitor's Closet	Fair	NF	ND	
HA08-10	4765902	Green Linoleum	Kindergarten by Back Exit	Fair	NF	ND	
HA08-11	4765903	Green Linoleum	Under Radiator	Fair	NF	ND	
HA08-12	4765904	Green Linoleum	Under Water Fountain	Fair	NF	ND	
HA08.1-105	4765914	Green Linoleum Adhesive	Kindergarten by Back Exit	Fair	NF	ND	
HA08.1-106	4765915	Green Linoleum Adhesive	Under Radiator	Fair	NF	ND	
HA08.1-107	4765916	Green Linoleum Adhesive	Under Water Fountain	Fair	NF	ND	
HA09-13	4765896	12" x 12" White/Gray Vinyl Floor Tile Mastic	1 <sup>st</sup> Floor Janitor's Closet	Good	NF	ND	200 SF
<b>HA09-14</b>	<b>4765897</b>	<b>12" x 12" White/Gray Vinyl Floor Tile Mastic</b>	<b>2<sup>nd</sup> Floor Janitor's Closet</b>	<b>Good</b>	<b>NF</b>	<b>3.8% Point Count Chrysotile</b>	<b>200 SF</b>



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HA09-15	4765898	12" x 12" White/Gray Vinyl Floor Tile Mastic	3 <sup>rd</sup> Floor Janitor's Closet	Good	NF	2.1% Point Count Chrysotile	200 SF
HA12-19	4765905	9" x 9" Red Vinyl Floor Tile	Room 307 By Main Door	Good	NF	10% Chrysotile	360 SF
HA12-20	4765906	9" x 9" Red Vinyl Floor Tile	Room 309 By Connecting Door	Good	NF	10% Chrysotile	
HA12-21	4765907	9" x 9" Red Vinyl Floor Tile	Room 309 By Main Door	Good	NF	10% Chrysotile	
HA12A-22	4765908	9" x 9" Red Vinyl Floor Tile Mastic	Room 307 By Main Door	Good	NF	ND	360 SF
HA12A-23	4765909	9" x 9" Red Vinyl Floor Tile Mastic	Room 309 By Connecting Door	Good	NF	ND	
HA12A-24	4765910	9" x 9" Red Vinyl Floor Tile Mastic	Room 309 By Main Door	Good	NF	ND	
HA12B-108	4765912	Yellow Carpet Glue	Room 307 By Main Door	Good	NF	ND	
HA12B-109	4765913	Yellow Carpet Glue	Room 307 By Main Door	Good	NF	ND	
HA12B-110	4765914	Yellow Carpet Glue	Room 307 By Main Door	Good	NF	ND	



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<b>ASBESTOS-CONTAINING MATERIAL (ACM) SAMPLE LOG</b>							
<b>HA &amp; Sample #</b>	<b>Lab #</b>	<b>Material Description</b>	<b>Sample Location</b>	<b>Condition</b>	<b>F or NF</b>	<b>Results</b>	<b>Approx. Quantity</b>
HA20-31	4765917	9" x 9" Light Tan Vinyl Floor Tile	Lunchroom North Storage Room	Good	NF	2.8% Point Count Chrysotile	120 SF
HA20.32	4765918	9" x 9" Light Tan Vinyl Floor Tile	Lunchroom North Storage Room	Good	NF	3.1% Point Count Chrysotile	120 SF
HA20-33	4765919	9" x 9" Light Tan Vinyl Floor Tile	Lunchroom South Storage Room	Good	NF	2.6% Point Count Chrysotile	63 SF
HA20.1-117	4765935	12" x 12" White Vinyl Floor Tile w/Brown Specks	Lunchroom North Storage Room	Good	NF	ND	
HA20.1-118	4765936	12" x 12" White Vinyl Floor Tile w/Brown Specks	Kitchen	Good	NF	ND	
HA20.1-119	4765937	12" x 12" White Vinyl Floor Tile w/Brown Specks	Lunchroom South Storage Room	Good	NF	ND	
HA21-34	4765920	9" x 9" Light Tan Vinyl Floor Tile Mastic	Lunchroom North Storage Room	Good	NF	3.0% Point Count Chrysotile	120 SF
HA21-35	4765921	9" x 9" Light Tan Vinyl Floor Tile Mastic	Lunchroom North Storage Room	Good	NF	2.4% Point Count Chrysotile	120 SF



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<b>HA &amp; Sample #</b>	<b>Lab #</b>	<b>Material Description</b>	<b>Sample Location</b>	<b>Condition</b>	<b>F or NF</b>	<b>Results</b>	<b>Approx. Quantity</b>
<b>HA21-36</b>	<b>4765922</b>	<b>9" x 9" Light Tan Vinyl Floor Tile Mastic</b>	<b>Lunchroom South Storage Room</b>	<b>Good</b>	<b>NF</b>	<b>2.3% Point Count Chrysotile</b>	<b>63 SF</b>
HA21.1-120	4765938	12" x 12" White Vinyl Floor Tile w/Brown Specks Mastic	Lunchroom North Storage Room	Good	NF	ND	400 SF
<b>HA21.1-121</b>	<b>4765939</b>	<b>12" x 12" White Vinyl Floor Tile w/Brown Specks Mastic</b>	<b>Kitchen</b>	<b>Good</b>	<b>NF</b>	<b>1.1% Point Count Chrysotile</b>	<b>400 SF</b>
HA21.1-122	4765940	12" x 12" White Vinyl Floor Tile w/Brown Specks Mastic	Lunchroom South Storage Room	Good	NF	ND	
HA22-37	4765923	12" x 12" Green w/Gray Specks Vinyl Floor Tile	Lunchroom	Good	NF	ND	1,300 SF
HA22-38	4765924	12" x 12" Green w/Gray Specks Vinyl Floor Tile	Lunchroom	Good	NF	ND	
HA22-39	4765925	12" x 12" Green w/Gray Specks Vinyl Floor Tile	Lunchroom	Good	NF	ND	
<b>HA23-61</b>	<b>4765926</b>	<b>12" x 12" Green w/Gray Specks Vinyl Floor Tile Mastic</b>	<b>Lunchroom</b>	<b>Good</b>	<b>NF</b>	<b>2.4% Point Count Chrysotile</b>	<b>1,300 SF</b>



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HA23-62	4765927	12" x 12" Green w/Gray Specks Vinyl Floor Tile Mastic	Lunchroom	Good	NF	1.8% Point Count Chrysotile	1,300 SF
HA23-63	4765928	12" x 12" Green w/Gray Specks Vinyl Floor Tile Mastic	Lunchroom	Good	NF	2.1% Point Count Chrysotile	1,300 SF
HA24-43	4765929	1' x 1' White Ceiling Tile	Lunchroom	Good	NF	ND	
HA24-44	4765930	1' x 1' White Ceiling Tile	Lunchroom	Good	NF	ND	
HA24-45	4765931	1' x 1' White Ceiling Tile	Lunchroom	Good	NF	ND	
HA24.1-111	4765932	1' x 1' White Ceiling Tile Glue Dot	Lunchroom	Good	NF	ND	
HA24.1-112	4765933	1' x 1' White Ceiling Tile Glue Dot	Lunchroom	Good	NF	ND	
HA24.1-113	4765934	1' x 1' White Ceiling Tile Glue Dot	Lunchroom	Good	NF	ND	
HA25-46	4765941	12" x 12" White/Blue Specks Vinyl Floor Tile	Lunchroom	Good	NF	ND	33 SF
HA25-47	4765942	12" x 12" White w/Blue Specks Vinyl Floor Tile	Lunchroom	Good	NF	ND	



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HA25-48	4765943	12" x 12" White w/Blue Specks Vinyl Floor Tile	Lunchroom	Good	NF	ND	
<b>HA25.1-40</b>	<b>4765944</b>	<b>12" x 12" White w/Blue Specks Vinyl Floor Tile Mastic</b>	<b>Lunchroom</b>	<b>Good</b>	<b>NF</b>	<b>2.1% Point Count Chrysotile</b>	<b>33 SF</b>
<b>HA25.1-41</b>	<b>4765945</b>	<b>12" x 12" White w/Blue Specks Vinyl Floor Tile Mastic</b>	<b>Lunchroom</b>	<b>Good</b>	<b>NF</b>	<b>3.0% Point Count Chrysotile</b>	<b>33 SF</b>
<b>HA25.1-42</b>	<b>4765946</b>	<b>12" x 12" White w/Blue Specks Vinyl Floor Tile Mastic</b>	<b>Lunchroom</b>	<b>Good</b>	<b>NF</b>	<b>2.4% Point Count Chrysotile</b>	<b>33 SF</b>
HA26-49	4765947	12" x 12" Gray/Blue w/Gray Specks Vinyl Floor Tile	Lunchroom	Good	NF	ND	
HA26-50	4765948	12" x 12" Gray/Blue w/Gray Specks Vinyl Floor Tile	Lunchroom	Good	NF	ND	
<b>HA26-51</b>	<b>4765949</b>	<b>12" x 12" Gray/Blue w/Gray Specks Vinyl Floor Tile</b>	<b>Lunchroom</b>	<b>Good</b>	<b>NF</b>	<b>PC 3.5% Chrysotile</b>	<b>63 SF</b>
HA26.1-63	4765950	12" x 12" Gray/Blue w/Gray Specks Vinyl Floor Tile Mastic	Lunchroom	Good	NF	ND	





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<b>HA &amp; Sample #</b>	<b>Lab #</b>	<b>Material Description</b>	<b>Sample Location</b>	<b>Condition</b>	<b>F or NF</b>	<b>Results</b>	<b>Approx. Quantity</b>
HA26.1-64	4765951	12" x 12" Gray/Blue w/Gray Specks Vinyl Floor Tile Mastic	Lunchroom	Good	NF	ND	
HA26.1-65	4765952	12" x 12" Gray/Blue w/Gray Specks Vinyl Floor Tile Mastic	Lunchroom	Good	NF	ND	
HA27-52	4765953	12" x 12" Tan w/Brown Specks Vinyl Floor Tile	Lunchroom	Good	NF	ND	25 SF
HA27-53	4765954	12" x 12" Tan w/Brown Specks Vinyl Floor Tile	Lunchroom	Good	NF	ND	
<b>HA27-54</b>	<b>4765955</b>	<b>12" x 12" Tan w/Brown Specks Vinyl Floor Tile</b>	<b>Lunchroom</b>	<b>Good</b>	<b>NF</b>	<b>PC 2.75% Chrysotile</b>	<b>25 SF</b>
HA27.1-67	4765956	12" x 12" Tan w/Brown Specks Vinyl Floor Tile Mastic	Lunchroom	Good	NF	1.8% Point Count Chrysotile	25 SF
HA27.1-68	4765957	12" x 12" Tan w/Brown Specks Vinyl Floor Tile Mastic	Lunchroom	Good	NF	2.3% Point Count Chrysotile	25 SF



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<b>HA27.1-69</b>	<b>4765958</b>	<b>12" x 12" Tan w/Brown Specks Vinyl Floor Tile Mastic</b>	<b>Lunchroom</b>	<b>Good</b>	<b>NF</b>	<b>3.9% Point Count Chrysotile</b>	<b>25 SF</b>
HA28-55	4765959	12" x 12" Pink w/White Marble Vinyl Floor Tile	Lunchroom	Good	NF	ND	56 SF
HA28-56	4765960	12" x 12" Pink w/White Marble Vinyl Floor Tile	Lunchroom	Good	NF	ND	
HA28-57	4765970	12" x 12" Pink w/White Marble Vinyl Floor Tile	Lunchroom	Good	NF	ND	
<b>HA28.1-70</b>	<b>4765962</b>	<b>12" x 12" Pink w/White Marble Vinyl Floor Tile Mastic</b>	<b>Lunchroom</b>	<b>Good</b>	<b>NF</b>	<b>1.2% Point Count Chrysotile</b>	<b>56 SF</b>
<b>HA28.1-71</b>	<b>4765963</b>	<b>12" x 12" Pink w/White Marble Vinyl Floor Tile Mastic</b>	<b>Lunchroom</b>	<b>Good</b>	<b>NF</b>	<b>1.2% Point Count Chrysotile</b>	<b>56 SF</b>
<b>HA28.1-72</b>	<b>4765964</b>	<b>12" x 12" Pink w/White Marble Vinyl Floor Tile Mastic</b>	<b>Lunchroom</b>	<b>Good</b>	<b>NF</b>	<b>1.1% Point Count Chrysotile</b>	<b>56 SF</b>



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<b>HA &amp; Sample #</b>	<b>Lab #</b>	<b>Material Description</b>	<b>Sample Location</b>	<b>Condition</b>	<b>F or NF</b>	<b>Results</b>	<b>Approx. Quantity</b>
HA29-58	4765965	12" x 12" Yellow w/White Marble Vinyl Floor Tile	Lunchroom	Good	NF	ND	52 SF
HA29-59	4765966	12" x 12" Yellow w/White Marble Vinyl Floor Tile	Lunchroom	Good	NF	ND	
HA29-60	4765967	12" x 12" Yellow w/White Marble Vinyl Floor Tile	Lunchroom	Good	NF	ND	
<b>HA29.1-73</b>	<b>4765968</b>	<b>12" x 12" Yellow w/White Marble Vinyl Floor Tile Mastic</b>	<b>Lunchroom</b>	<b>Good</b>	<b>NF</b>	<b>1.1% Point Count Chrysotile</b>	<b>52 SF</b>
<b>HA29.1-74</b>	<b>4765969</b>	<b>12" x 12" Yellow w/White Marble Vinyl Floor Tile Mastic</b>	<b>Lunchroom</b>	<b>Good</b>	<b>NF</b>	<b>1.2% Point Count Chrysotile</b>	<b>52 SF</b>
<b>HA29.1-75</b>	<b>4765970</b>	<b>12" x 12" Yellow w/White Marble Vinyl Floor Tile Mastic</b>	<b>Lunchroom</b>	<b>Good</b>	<b>NF</b>	<b>1.5% Point Count Chrysotile</b>	<b>52 SF</b>
HA33-96	4765992	Adhesive Under Red Carpet	Auditorium	Good	NF	ND	
HA33-97	4765993	Adhesive Under Red Carpet	Auditorium	Good	NF	ND	



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HA33-98	4765994	Adhesive Under Red Carpet	Auditorium	Good	NF	ND	
HA34-99	4765995	Gray Brick Mortar	Outside 1 <sup>st</sup> Floor	Good	NF	ND	
HA34-100	4765996	Gray Brick Mortar	Outside 1 <sup>st</sup> Floor	Good	NF	ND	
HA34-101	4765997	Gray Brick Mortar	Outside 1 <sup>st</sup> Floor	Good	NF	ND	
HA35-102	4765998	Green Window Caulk	1 <sup>st</sup> Floor	Fair	NF	ND	
HA35-103	4765999	Green Window Caulk	2 <sup>nd</sup> Floor	Fair	NF	ND	
HA35-104	4766000	Green Window Caulk	2 <sup>nd</sup> Floor	Fair	NF	ND	
HA36-123	4765971	12" x 12" Brown w/White Marble Vinyl Floor Tile	Lunchroom	Good	NF	ND	22 SF
HA36-124	4765972	12" x 12" Brown w/White Marble Vinyl Floor Tile	Lunchroom	Good	NF	ND	
HA36-125	4765973	12" x 12" Brown w/White Marble Vinyl Floor Tile	Lunchroom	Good	NF	ND	



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HA36.1-126	4765974	12" x 12" Brown w/White Marble Vinyl Floor Tile Mastic	Lunchroom	Good	NF	1.3% Point Count Chrysotile	22 SF
HA36.1-127	4765975	12" x 12" Brown w/White Marble Vinyl Floor Tile Mastic	Lunchroom	Good	NF	1.1% Point Count Chrysotile	22 SF
HA36.1-128	4765976	12" x 12" Brown w/White Marble Vinyl Floor Tile Mastic	Lunchroom	Good	NF	1.1% Point Count Chrysotile	22 SF
HA37-129	4765977	12" x 12" Cream w/Brown Specks Floor Tile	MDF Room	Good	NF	ND	
HA37-130	4765978	12" x 12" Cream w/Brown Specks Floor Tile	MDF Room	Good	NF	ND	
HA37-131	4765979	12" x 12" Cream w/Brown Specks Floor Tile	MDF Room	Good	NF	ND	
HA37.1-132	4765980	12" x 12" Cream w/Brown Specks Floor Tile Adhesive	MDF Room	Good	NF	ND	



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<b>HA &amp; Sample #</b>	<b>Lab #</b>	<b>Material Description</b>	<b>Sample Location</b>	<b>Condition</b>	<b>F or NF</b>	<b>Results</b>	<b>Approx. Quantity</b>
HA37.1-133	4765981	12" x 12" Cream w/ Brown Specks Floor Tile Adhesive	MDF Room	Good	NF	ND	
HA37.1-134	4765982	12" x 12" Cream w/ Brown Specks Floor Tile Adhesive	MDF Room	Good	NF	ND	
HA38-25	4765986	6" Brown Baseboard	Lunchroom	Good	NF	ND	
HA38-26	4765987	6" Brown Baseboard	Lunchroom	Good	NF	ND	
HA38-27	4765988	6" Brown Baseboard	Lunchroom	Good	NF	ND	
HA38.1-28	4765989	6" Brown Baseboard Adhesive	Lunchroom	Good	NF	ND	
HA38.1-29	4765990	6" Brown Baseboard Adhesive	Lunchroom	Good	NF	ND	
HA38.1-30	4765991	6" Brown Baseboard Adhesive	Lunchroom	Good	NF	ND	
HA39-135	4766001	Tan Adhesive for Ceramic Wall Tile	3 <sup>rd</sup> Floor Girl's Washroom	Good	NF	ND	
HA39-136	4766002	Tan Adhesive for Ceramic Wall Tile	2 <sup>nd</sup> Floor Boy's Washroom	Good	NF	ND	
HA39-137	4766003	Tan Adhesive for Ceramic Wall Tile	1 <sup>st</sup> Floor Girl's Bathroom	Good	NF	ND	



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<b>ASBESTOS-CONTAINING MATERIAL (ACM) SAMPLE LOG</b>							
<b>HA &amp; Sample #</b>	<b>Lab #</b>	<b>Material Description</b>	<b>Sample Location</b>	<b>Condition</b>	<b>F or NF</b>	<b>Results</b>	<b>Approx. Quantity</b>
HA40-138	4766007	White Tile Grout	3 <sup>rd</sup> Floor Boy's Washroom	Fair	NF	ND	
HA40-139	4766008	White Tile Grout	2 <sup>nd</sup> Floor Girl's Washroom	Fair	NF	ND	
HA40-140	4766009	White Tile Grout	1 <sup>st</sup> Floor Boy's Washroom	Fair	NF	ND	
HA41-141	4766013	Gray Floor Tile Grout	3 <sup>rd</sup> Floor Boy's Washroom	Fair	NF	ND	
HA41-142	4766014	Gray Floor Tile Grout	2 <sup>nd</sup> Floor Boy's Washroom	Fair	NF	ND	
HA41-143	4766015	Gray Floor Tile Grout	1 <sup>st</sup> Floor Boy's Washroom	Fair	NF	ND	
HA42-114	4766010	Gray Cement Board	3 <sup>rd</sup> Floor Boy's Washroom	Fair	NF	ND	
HA42-115	4766011	Gray Cement Board	2 <sup>nd</sup> Floor Girl's Washroom	Fair	NF	ND	
HA42-116	4766012	Gray Cement Board	1 <sup>st</sup> Floor Girl's Washroom	Fair	NF	ND	
HA43-144	4766016	Gray Floor Tile Grout	3 <sup>rd</sup> Floor Boy's Washroom	Fair	NF	ND	
HA43-145	4766017	Gray Floor Tile Grout	2 <sup>nd</sup> Floor Boy's Washroom	Fair	NF	ND	



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HA43-146	4766018	Gray Floor Tile Gout	1 <sup>st</sup> Floor Boy's Washroom	Fair	NF	ND	
HA44-147	4766019	Gray Mortar From White Brick	3 <sup>rd</sup> Floor Boy's Washroom	Fair	NF	ND	
HA44-148	4766020	Gray Mortar From White Brick	2 <sup>nd</sup> Floor Girl's Washroom	Fair	NF	ND	
HA44-149	4766021	Gray Mortar From White Brick	1 <sup>st</sup> Floor Boy's Washroom	Fair	NF	ND	
HA45-150	4766022	Roof Fill	3 <sup>rd</sup> Floor Roof	Good	NF	ND	
HA45-151	4766023	Roof Fill	3 <sup>rd</sup> Floor Roof	Good	NF	ND	
HA45-152	4766024	Roof Fill	3 <sup>rd</sup> Floor Roof	Good	NF	ND	
<b>HA46-153</b>	<b>4766025</b>	<b>Roof Flashing</b>	<b>Roof Off 3<sup>rd</sup> Floor</b>	<b>Good</b>	<b>NF</b>	<b>5.5% Point Count Chrysotile</b>	<b>108 SF</b>
HA46-154	4766026	Roof Flashing	Roof Off 3 <sup>rd</sup> Floor	Good	NF	ND	
HA46-155	4766027	Roof Flashing	Roof Off 3 <sup>rd</sup> Floor	Good	NF	ND	
<b>HA47-156</b>	<b>4766028</b>	<b>Roof Flashing Caulk</b>	<b>Roof Off 3<sup>rd</sup> Floor</b>	<b>Good</b>	<b>NF</b>	<b>10% Chrysotile</b>	<b>5 SF</b>





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HA47-157	4766029	Roof Flashing Caulk	Roof Off 3 <sup>rd</sup> Floor	Good	NF	12% Chrysotile	5 SF
HA47-158	4766030	Roof Flashing Caulk	Roof Off 3 <sup>rd</sup> Floor	Good	NF	12% Chrysotile	5 SF
HA48-159	4766031	Roof Caulk	Roof Off 3 <sup>rd</sup> Floor	Good	NF	15% Chrysotile	5 SF
HA48-160	4766032	Roof Caulk	Roof Off 3 <sup>rd</sup> Floor	Good	NF	15% Chrysotile	5 SF
HA48-161	4766033	Roof Caulk	Roof Off 3 <sup>rd</sup> Floor	Good	NF	12% Chrysotile	5 SF
HA49-162	4766034	Roof Caulk Patch	Roof Off 3 <sup>rd</sup> Floor	Good	NF	12% Chrysotile	5 SF
HA49-163	4766035	Roof Caulk Patch	Roof Off 3 <sup>rd</sup> Floor	Good	NF	10% Chrysotile	5 SF
HA49-164	4766036	Roof Caulk Patch	Roof Off 3 <sup>rd</sup> Floor	Good	NF	15% Chrysotile	5 SF
HA A-76	4765983	Mudded Fittings	2 <sup>nd</sup> Floor Boy's Washroom	Good	F	40% Chrysotile	50
HA A-77	4765984	Mudded Fittings	3 <sup>rd</sup> Floor Boy's Washroom	Good	F	ND	
HA A-78	4765985	Mudded Fittings	1 <sup>st</sup> Floor Boy's Washroom	Good	F	ND	



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HA E-7	4765899	<b>Preformed Pipe Insulation</b>	<b>2<sup>nd</sup> Floor Boy's Washroom</b>	Fair	F	<b>45% Chrysotile</b>	<b>250 LF</b>
HA E-8	4765900	Preformed Pipe Insulation	3 <sup>rd</sup> Floor Boy's Washroom	Fair	F	ND	
HA E-9	4765901	Preformed Pipe Insulation	1 <sup>st</sup> Floor Boy's Washroom	Fair	F	ND	

**Note: All results greater than 1% are considered asbestos containing.**

**ND = No Asbestos Detected**

**NA = sample not analyzed due to previous positive sample**

**F = Friable**

**NF = Non-Friable**

**SF = square feet**

**LF = linear feet**

## **Appendix C**

### **ACM Laboratory Results and Laboratory Certifications**



9000 Commerce Parkway, Ste B  
 Mount Laurel, NJ 08054  
 Toll Free 877-428-4285  
 Local: 856-231-9449  
 Fax: 856-231-9818

# CERTIFICATE OF ANALYSIS

**Client:** Environ. Design International  
 33 W Monroe, Suite 1825  
 Chicago IL 60603

**Report Date:** 8/28/2012  
**Report No:** 283650  
**Project:** Alexander Graham Bell School  
**Project No.:** 1261.028

## BULK SAMPLE ANALYSIS SUMMARY

<b>Lab No.:</b> 4765890	<b>Description / Location:</b> Tan Carpet Mastic			
<b>Client No.:</b> HA05-01	Library NW Corner			
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

<b>Lab No.:</b> 4765891	<b>Description / Location:</b> Tan Carpet Mastic			
<b>Client No.:</b> HA05-02	Library SE Corner			
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

<b>Lab No.:</b> 4765892	<b>Description / Location:</b> Tan Carpet Mastic			
<b>Client No.:</b> HA05-03	Library SW Corner			
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

<b>Lab No.:</b> 4765893	<b>Description / Location:</b> Off-White/Grey Floor Tile; 12x12			
<b>Client No.:</b> HA06-04	1st Floor			
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

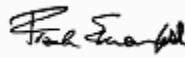
**Accreditation**      **NIST-NVLAP No. 101165-0**      **NY-DOH No. 11021**      **AIHA-LAP, LLC No. 100188**

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**Analytical Method:** EPA 600/R-93/116, by Polarized Light Microscopy

**Comments:** Quantification at <0.25% by volume is possible with this method. (PC) Indicates Stratified Point Count Method performed. (PC-Trace) means that asbestos was detected but is not quantifiable under the Point Counting regimen. Analysis includes all distinct separable layers in accordance with EPA 600 Method. If not reported or otherwise noted, layer is either not present or the client has specifically requested that it not be analyzed (ex. analyze until positive instructions). Small asbestos fibers may be missed by PLM due to resolution limitations of the optical microscope. Therefore, PLM is not consistently reliable in detecting asbestos in non-friable organically bound (NOB) materials. Quantitative transmission electron microscopy (TEM) is currently the only method that can pronounce materials as non-asbestos containing.

**Analysis Performed By:** S. Robb

**Approved By:** 

**Date:** 8/28/2012

Frank E. Ehrenfeld, III  
 Laboratory Director



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# CERTIFICATE OF ANALYSIS

**Client:** Environ. Design International  
 33 W Monroe, Suite 1825  
 Chicago IL 60603

**Report Date:** 8/28/2012  
**Report No:** 283650  
**Project:** Alexander Graham Bell School  
**Project No.:** 1261.028

## BULK SAMPLE ANALYSIS SUMMARY

<b>Lab No.:</b> 4765894	<b>Description / Location:</b> Off-White/Grey Floor Tile; 12x12			
<b>Client No.:</b> HA06-05	2nd Floor			
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

<b>Lab No.:</b> 4765895	<b>Description / Location:</b> Off-White/Grey Floor Tile; 12x12			
<b>Client No.:</b> HA06-06	3rd Floor			
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

<b>Lab No.:</b> 4765896	<b>Description / Location:</b> Black/Tan Mastic			
<b>Client No.:</b> HA09-13	A/W 12x12 Floor Tile; 1st Floor			
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

<b>Lab No.:</b> 4765896	<b>Description / Location:</b> Grey Floor Filler	<b>Layer No.:</b> 2		
<b>Client No.:</b> HA09-13	A/W 12x12 Floor Tile; 1st Floor			
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

**Accreditation**      **NIST-NVLAP No. 101165-0**      **NY-DOH No. 11021**      **AIHA-LAP, LLC No. 100188**

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**Analytical Method:** EPA 600/R-93/116, by Polarized Light Microscopy

**Comments:** Quantification at <0.25% by volume is possible with this method. (PC) Indicates Stratified Point Count Method performed. (PC-Trace) means that asbestos was detected but is not quantifiable under the Point Counting regimen. Analysis includes all distinct separable layers in accordance with EPA 600 Method. If not reported or otherwise noted, layer is either not present or the client has specifically requested that it not be analyzed (ex. analyze until positive instructions). Small asbestos fibers may be missed by PLM due to resolution limitations of the optical microscope. Therefore, PLM is not consistently reliable in detecting asbestos in non-friable organically bound (NOB) materials. Quantitative transmission electron microscopy (TEM) is currently the only method that can pronounce materials as non-asbestos containing.

**Analysis Performed By:**           S. Robb          

**Date:**           8/28/2012



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# CERTIFICATE OF ANALYSIS

**Client:** Environ. Design International  
 33 W Monroe, Suite 1825  
 Chicago IL 60603

**Report Date:** 8/28/2012  
**Report No:** 283650  
**Project:** Alexander Graham Bell School  
**Project No.:** 1261.028

## BULK SAMPLE ANALYSIS SUMMARY

<b>Lab No.:</b> 4765897	<b>Description / Location:</b> Black Mastic			
<b>Client No.:</b> HA09-14	A/W 12x12 Floor Tile; 2nd Floor			
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
PC 3.8	Chrysotile	None Detected	None Detected	PC 96.2

<b>Lab No.:</b> 4765898	<b>Description / Location:</b> Black Mastic			
<b>Client No.:</b> HA09-15	A/W 12x12 Floor Tile; 3rd Floor			
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
PC 2.1	Chrysotile	None Detected	None Detected	PC 97.9

<b>Lab No.:</b> 4765898	<b>Description / Location:</b> Grey Floor Filler	<b>Layer No.:</b> 2		
<b>Client No.:</b> HA09-15	A/W 12x12 Floor Tile; 3rd Floor			
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

<b>Lab No.:</b> 4765899	<b>Description / Location:</b> Off-White Insulation			
<b>Client No.:</b> HAE-7	A/W Pre-Formed Pipe; 2nd Floor Boys Washroom			
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
45	Chrysotile	None Detected	None Detected	55

**Accreditation**      **NIST-NVLAP No. 101165-0**      **NY-DOH No. 11021**      **AIHA-LAP, LLC No. 100188**

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**Analytical Method:** EPA 600/R-93/116, by Polarized Light Microscopy

**Comments:** Quantification at <0.25% by volume is possible with this method. (PC) Indicates Stratified Point Count Method performed. (PC-Trace) means that asbestos was detected but is not quantifiable under the Point Counting regimen. Analysis includes all distinct separable layers in accordance with EPA 600 Method. If not reported or otherwise noted, layer is either not present or the client has specifically requested that it not be analyzed (ex. analyze until positive instructions). Small asbestos fibers may be missed by PLM due to resolution limitations of the optical microscope. Therefore, PLM is not consistently reliable in detecting asbestos in non-friable organically bound (NOB) materials. Quantitative transmission electron microscopy (TEM) is currently the only method that can pronounce materials as non-asbestos containing.

**Analysis Performed By:**           S. Robb          

**Date:**           8/28/2012



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# CERTIFICATE OF ANALYSIS

<b>Client:</b>	Environ. Design International	<b>Report Date:</b>	8/28/2012
	33 W Monroe, Suite 1825	<b>Report No.:</b>	283650
	Chicago IL 60603	<b>Project:</b>	Alexander Graham Bell School
		<b>Project No.:</b>	1261.028

## BULK SAMPLE ANALYSIS SUMMARY

<b>Lab No.:</b>	4765900	<b>Description / Location:</b>	Off-White Wrap	
<b>Client No.:</b>	HAE-8		A/WPre-FormedPipe; 3rdFloorBoysWashroom	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	95	Cellulose	5

<b>Lab No.:</b>	4765900	<b>Description / Location:</b>	Grey Insulation	<b>Layer No.:</b> 2
<b>Client No.:</b>	HAE-8		A/WPre-FormedPipe; 3rdFloorBoysWashroom	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	55	Mineral Wool	45

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<b>Lab No.:</b>	4765901	<b>Description / Location:</b>	Off-White Wrap	
<b>Client No.:</b>	HAE-9		A/WPre-FormedPipe; 1stFloorBoysWashroom	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	95	Cellulose	5

<b>Lab No.:</b>	4765901	<b>Description / Location:</b>	Grey Insulation	<b>Layer No.:</b> 2
<b>Client No.:</b>	HAE-9		A/WPre-FormedPipe; 1stFloorBoysWashroom	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	55	Mineral Wool	45

**Accreditation**      **NIST-NVLAP No. 101165-0**      **NY-DOH No. 11021**      **AIHA-LAP, LLC No. 100188**

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**Analytical Method:**      EPA 600/R-93/116, by Polarized Light Microscopy

**Comments:**      Quantification at <0.25% by volume is possible with this method. (PC) Indicates Stratified Point Count Method performed. (PC-Trace) means that asbestos was detected but is not quantifiable under the Point Counting regimen. Analysis includes all distinct separable layers in accordance with EPA 600 Method. If not reported or otherwise noted, layer is either not present or the client has specifically requested that it not be analyzed (ex. analyze until positive instructions). Small asbestos fibers may be missed by PLM due to resolution limitations of the optical microscope. Therefore, PLM is not consistently reliable in detecting asbestos in non-friable organically bound (NOB) materials. Quantitative transmission electron microscopy (TEM) is currently the only method that can pronounce materials as non-asbestos containing.

**Analysis Performed By:**                S. Robb          

**Date:**                8/28/2012



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# CERTIFICATE OF ANALYSIS

<b>Client:</b>	Environ. Design International	<b>Report Date:</b>	8/28/2012
	33 W Monroe, Suite 1825	<b>Report No.:</b>	283650
	Chicago IL 60603	<b>Project:</b>	Alexander Graham Bell School
		<b>Project No.:</b>	1261.028

## BULK SAMPLE ANALYSIS SUMMARY

<b>Lab No.:</b>	4765902	<b>Description / Location:</b>	Green Vinyl Sheet Flooring	
<b>Client No.:</b>	HA08-10		Kindergarten By Exit	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	10	Cellulose	90

<b>Lab No.:</b>	4765903	<b>Description / Location:</b>	Green Vinyl Sheet Flooring	
<b>Client No.:</b>	HA08-11		Kindergarten Under Radiator	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	10	Cellulose	88
		2	Fibrous Glass	

<b>Lab No.:</b>	4765903	<b>Description / Location:</b>	Tan Mastic	<b>Layer No.:</b> 2
<b>Client No.:</b>	HA08-11		Kindergarten Under Radiator	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

<b>Lab No.:</b>	4765904	<b>Description / Location:</b>	Green Vinyl Sheet Flooring	
<b>Client No.:</b>	HA08-12		Kindergarten By Water Fountain	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	15	Cellulose	85

**Accreditation**      **NIST-NVLAP No. 101165-0**      **NY-DOH No. 11021**      **AIHA-LAP, LLC No. 100188**

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**Analytical Method:**      EPA 600/R-93/116, by Polarized Light Microscopy

**Comments:**      Quantification at <0.25% by volume is possible with this method. (PC) Indicates Stratified Point Count Method performed. (PC-Trace) means that asbestos was detected but is not quantifiable under the Point Counting regimen. Analysis includes all distinct separable layers in accordance with EPA 600 Method. If not reported or otherwise noted, layer is either not present or the client has specifically requested that it not be analyzed (ex. analyze until positive instructions). Small asbestos fibers may be missed by PLM due to resolution limitations of the optical microscope. Therefore, PLM is not consistently reliable in detecting asbestos in non-friable organically bound (NOB) materials. Quantitative transmission electron microscopy (TEM) is currently the only method that can pronounce materials as non-asbestos containing.

**Analysis Performed By:**                S. Robb          

**Date:**                8/28/2012





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# CERTIFICATE OF ANALYSIS

**Client:** Environ. Design International  
 33 W Monroe, Suite 1825  
 Chicago IL 60603

**Report Date:** 8/28/2012  
**Report No:** 283650  
**Project:** Alexander Graham Bell School  
**Project No.:** 1261.028

## BULK SAMPLE ANALYSIS SUMMARY

<b>Lab No.:</b> 4765905	<b>Description / Location:</b> Red/Brown Floor Tile			
<b>Client No.:</b> HA12-19	Room 307 By Main Door			
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
10	Chrysotile	None Detected	None Detected	90

<b>Lab No.:</b> 4765906	<b>Description / Location:</b> Red Floor Tile			
<b>Client No.:</b> HA12-20	Room 309 By Connecting Door			
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
10	Chrysotile	None Detected	None Detected	90

<b>Lab No.:</b> 4765907	<b>Description / Location:</b> Red Floor Tile			
<b>Client No.:</b> HA12-21	Room 309 By Main Door			
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
10	Chrysotile	None Detected	None Detected	90

<b>Lab No.:</b> 4765908	<b>Description / Location:</b> Black Mastic; A/W Floor Tile			
<b>Client No.:</b> HA12A-22	Room 307 By Main Door			
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

**Accreditation**      **NIST-NVLAP No. 101165-0**      **NY-DOH No. 11021**      **AIHA-LAP, LLC No. 100188**

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**Analytical Method:** EPA 600/R-93/116, by Polarized Light Microscopy

**Comments:** Quantification at <0.25% by volume is possible with this method. (PC) Indicates Stratified Point Count Method performed. (PC-Trace) means that asbestos was detected but is not quantifiable under the Point Counting regimen. Analysis includes all distinct separable layers in accordance with EPA 600 Method. If not reported or otherwise noted, layer is either not present or the client has specifically requested that it not be analyzed (ex. analyze until positive instructions). Small asbestos fibers may be missed by PLM due to resolution limitations of the optical microscope. Therefore, PLM is not consistently reliable in detecting asbestos in non-friable organically bound (NOB) materials. Quantitative transmission electron microscopy (TEM) is currently the only method that can pronounce materials as non-asbestos containing.

**Analysis Performed By:**           S. Robb          

**Date:**           8/28/2012



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# CERTIFICATE OF ANALYSIS

**Client:** Environ. Design International  
 33 W Monroe, Suite 1825  
 Chicago IL 60603

**Report Date:** 8/28/2012  
**Report No:** 283650  
**Project:** Alexander Graham Bell School  
**Project No.:** 1261.028

## BULK SAMPLE ANALYSIS SUMMARY

<b>Lab No.:</b> 4765909	<b>Description / Location:</b> Black Mastic; A/W Floor Tile			
<b>Client No.:</b> HA12A-23	Room 309 By Connecting Door			
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

<b>Lab No.:</b> 4765910	<b>Description / Location:</b> Black Mastic; A/W Floor Tile			
<b>Client No.:</b> HA12A-24	Room 309 By Main Door			
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

<b>Lab No.:</b> 4765911	<b>Description / Location:</b> Tan Carpet Mastic			
<b>Client No.:</b> HA12B-108	Room 307 By Main Door			
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

<b>Lab No.:</b> 4765912	<b>Description / Location:</b> Tan Carpet Mastic			
<b>Client No.:</b> HA12B-109	Room 309 By Connecting Door			
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

**Accreditation**      **NIST-NVLAP No. 101165-0**      **NY-DOH No. 11021**      **AIHA-LAP, LLC No. 100188**

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**Analytical Method:** EPA 600/R-93/116, by Polarized Light Microscopy

**Comments:** Quantification at <0.25% by volume is possible with this method. (PC) Indicates Stratified Point Count Method performed. (PC-Trace) means that asbestos was detected but is not quantifiable under the Point Counting regimen. Analysis includes all distinct separable layers in accordance with EPA 600 Method. If not reported or otherwise noted, layer is either not present or the client has specifically requested that it not be analyzed (ex. analyze until positive instructions). Small asbestos fibers may be missed by PLM due to resolution limitations of the optical microscope. Therefore, PLM is not consistently reliable in detecting asbestos in non-friable organically bound (NOB) materials. Quantitative transmission electron microscopy (TEM) is currently the only method that can pronounce materials as non-asbestos containing.

**Analysis Performed By:**           S. Robb          

**Date:**           8/28/2012



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**Report Date:** 8/28/2012  
**Report No:** 283650  
**Project:** Alexander Graham Bell School  
**Project No.:** 1261.028

## BULK SAMPLE ANALYSIS SUMMARY

<b>Lab No.:</b> 4765913	<b>Description / Location:</b> Tan Carpet Mastic			
<b>Client No.:</b> HA12B-110	Room 309 By Main Door			
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

<b>Lab No.:</b> 4765914	<b>Description / Location:</b> Green Vinyl Sheet Flooring			
<b>Client No.:</b> HA08.1-105	Kindergarten By Exit			
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	10	Cellulose	90

<b>Lab No.:</b> 4765915	<b>Description / Location:</b> Green Vinyl Sheet Flooring			
<b>Client No.:</b> HA08.1-106	Kindergarten By Radiator			
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	10	Cellulose	90

<b>Lab No.:</b> 4765916	<b>Description / Location:</b> Green Vinyl Sheet Flooring			
<b>Client No.:</b> HA08.1-107	Kindergarten By Water Fountain			
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	10	Cellulose	90

**Accreditation**      **NIST-NVLAP No. 101165-0**      **NY-DOH No. 11021**      **AIHA-LAP, LLC No. 100188**

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**Date:**           8/28/2012



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**Project No.:** 1261.028

## BULK SAMPLE ANALYSIS SUMMARY

<b>Lab No.:</b> 4765917	<b>Description / Location:</b> Tan Floor Tile; 9x9			
<b>Client No.:</b> HA20-31	North Storage Room Lunchroom			
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
PC 2.8	Chrysotile	None Detected	None Detected	PC 97.2

<b>Lab No.:</b> 4765918	<b>Description / Location:</b> Tan Floor Tile; 9x9			
<b>Client No.:</b> HA20-32	North Storage Room Lunchroom			
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
PC 3.1	Chrysotile	None Detected	None Detected	PC 96.9

<b>Lab No.:</b> 4765919	<b>Description / Location:</b> Tan Floor Tile; 9x9			
<b>Client No.:</b> HA20-33	South Storage Room Lunchroom			
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
PC 2.6	Chrysotile	None Detected	None Detected	PC 97.4

<b>Lab No.:</b> 4765920	<b>Description / Location:</b> Black Mastic; A/W 9x9 Floor Tile			
<b>Client No.:</b> HA21-34	North Storage Room Lunchroom			
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
PC 3.0	Chrysotile	None Detected	None Detected	97

**Accreditation**      **NIST-NVLAP No. 101165-0**      **NY-DOH No. 11021**      **AIHA-LAP, LLC No. 100188**

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**Analytical Method:** EPA 600/R-93/116, by Polarized Light Microscopy

**Comments:** Quantification at <0.25% by volume is possible with this method. (PC) Indicates Stratified Point Count Method performed. (PC-Trace) means that asbestos was detected but is not quantifiable under the Point Counting regimen. Analysis includes all distinct separable layers in accordance with EPA 600 Method. If not reported or otherwise noted, layer is either not present or the client has specifically requested that it not be analyzed (ex. analyze until positive instructions). Small asbestos fibers may be missed by PLM due to resolution limitations of the optical microscope. Therefore, PLM is not consistently reliable in detecting asbestos in non-friable organically bound (NOB) materials. Quantitative transmission electron microscopy (TEM) is currently the only method that can pronounce materials as non-asbestos containing.

**Analysis Performed By:**           S. Robb          

**Date:**           8/28/2012



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# CERTIFICATE OF ANALYSIS

<b>Client:</b>	Environ. Design International	<b>Report Date:</b>	8/28/2012
	33 W Monroe, Suite 1825	<b>Report No.:</b>	283650
	Chicago IL 60603	<b>Project:</b>	Alexander Graham Bell School
		<b>Project No.:</b>	1261.028

## BULK SAMPLE ANALYSIS SUMMARY

<b>Lab No.:</b>	4765921	<b>Description / Location:</b>	Black Mastic; A/W 9x9 Floor Tile	
<b>Client No.:</b>	HA21-35		North Storage Room Lunchroom	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
PC 2.4	Chrysotile	None Detected	None Detected	PC 97.6

<b>Lab No.:</b>	4765922	<b>Description / Location:</b>	Black Mastic; A/W 9x9 Floor Tile	
<b>Client No.:</b>	HA21-36		South Storage Room Lunchroom	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
PC 2.3	Chrysotile	None Detected	None Detected	PC 97.7

<b>Lab No.:</b>	4765923	<b>Description / Location:</b>	Off-White/Green Floor Tile; 12x12	
<b>Client No.:</b>	HA22-37		Lunchroom	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

<b>Lab No.:</b>	4765924	<b>Description / Location:</b>	Off-White/Green Floor Tile; 12x12	
<b>Client No.:</b>	HA22-38		Lunchroom	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

**Accreditation**      **NIST-NVLAP No. 101165-0**      **NY-DOH No. 11021**      **AIHA-LAP, LLC No. 100188**

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**Analytical Method:**      EPA 600/R-93/116, by Polarized Light Microscopy

**Comments:**      Quantification at <0.25% by volume is possible with this method. (PC) Indicates Stratified Point Count Method performed. (PC-Trace) means that asbestos was detected but is not quantifiable under the Point Counting regimen. Analysis includes all distinct separable layers in accordance with EPA 600 Method. If not reported or otherwise noted, layer is either not present or the client has specifically requested that it not be analyzed (ex. analyze until positive instructions). Small asbestos fibers may be missed by PLM due to resolution limitations of the optical microscope. Therefore, PLM is not consistently reliable in detecting asbestos in non-friable organically bound (NOB) materials. Quantitative transmission electron microscopy (TEM) is currently the only method that can pronounce materials as non-asbestos containing.

**Analysis Performed By:**      S. Robb

**Date:**      8/28/2012



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# CERTIFICATE OF ANALYSIS

**Client:** Environ. Design International  
 33 W Monroe, Suite 1825  
 Chicago IL 60603

**Report Date:** 8/28/2012  
**Report No:** 283650  
**Project:** Alexander Graham Bell School  
**Project No.:** 1261.028

## BULK SAMPLE ANALYSIS SUMMARY

<b>Lab No.:</b>	4765925	<b>Description / Location:</b>	Off-White/Green Floor Tile; 12x12 Lunchroom	
<b>Client No.:</b>	HA22-39			
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

<b>Lab No.:</b>	4765926	<b>Description / Location:</b>	Black Mastic; A/W 12x12 Floor Tile Lunchroom	
<b>Client No.:</b>	HA23-61			
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
PC 2.4	Chrysotile	None Detected	None Detected	PC 97.6

<b>Lab No.:</b>	4765927	<b>Description / Location:</b>	Black Mastic; A/W 12x12 Floor Tile Lunchroom	
<b>Client No.:</b>	HA23-62			
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
PC 1.8	Chrysotile	None Detected	None Detected	PC 98.2

<b>Lab No.:</b>	4765928	<b>Description / Location:</b>	Black Mastic; A/W 12x12 Floor Tile Lunchroom	
<b>Client No.:</b>	HA23-63			
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
PC 2.1	Chrysotile	None Detected	None Detected	PC 97.9

**Accreditation**

**NIST-NVLAP No. 101165-0**

**NY-DOH No. 11021**

**AIHA-LAP, LLC No. 100188**

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**Analytical Method:**

EPA 600/R-93/116, by Polarized Light Microscopy

**Comments:**

Quantification at <0.25% by volume is possible with this method. (PC) Indicates Stratified Point Count Method performed. (PC-Trace) means that asbestos was detected but is not quantifiable under the Point Counting regimen. Analysis includes all distinct separable layers in accordance with EPA 600 Method. If not reported or otherwise noted, layer is either not present or the client has specifically requested that it not be analyzed (ex. analyze until positive instructions). Small asbestos fibers may be missed by PLM due to resolution limitations of the optical microscope. Therefore, PLM is not consistently reliable in detecting asbestos in non-friable organically bound (NOB) materials. Quantitative transmission electron microscopy (TEM) is currently the only method that can pronounce materials as non-asbestos containing.

**Analysis Performed By:**           S. Robb          

**Date:**           8/28/2012



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# CERTIFICATE OF ANALYSIS

**Client:** Environ. Design International  
 33 W Monroe, Suite 1825  
 Chicago IL 60603

**Report Date:** 8/28/2012  
**Report No:** 283650  
**Project:** Alexander Graham Bell School  
**Project No.:** 1261.028

## BULK SAMPLE ANALYSIS SUMMARY

<b>Lab No.:</b> 4765929	<b>Description / Location:</b> Off-White Ceiling Tile; 1x1			
<b>Client No.:</b> HA24-43	Lunchroom Middle			
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	85	Fibrous Glass	15

<b>Lab No.:</b> 4765930	<b>Description / Location:</b> Off-White Ceiling Tile; 1x1			
<b>Client No.:</b> HA24-44	Lunchroom N. Side			
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	85	Fibrous Glass	15

<b>Lab No.:</b> 4765931	<b>Description / Location:</b> Tan Ceiling Tile; 1x1			
<b>Client No.:</b> HA24-45	MDF Room			
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	35	Cellulose	35
		30	Mineral Wool	

<b>Lab No.:</b> 4765932	<b>Description / Location:</b> Tan Mastic; A/W 1x1 Ceiling Tile			
<b>Client No.:</b> HA24.1-111	Lunchroom Middle			
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

**Accreditation**      **NIST-NVLAP No. 101165-0**      **NY-DOH No. 11021**      **AIHA-LAP, LLC No. 100188**

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**Analytical Method:** EPA 600/R-93/116, by Polarized Light Microscopy

**Comments:** Quantification at <0.25% by volume is possible with this method. (PC) Indicates Stratified Point Count Method performed. (PC-Trace) means that asbestos was detected but is not quantifiable under the Point Counting regimen. Analysis includes all distinct separable layers in accordance with EPA 600 Method. If not reported or otherwise noted, layer is either not present or the client has specifically requested that it not be analyzed (ex. analyze until positive instructions). Small asbestos fibers may be missed by PLM due to resolution limitations of the optical microscope. Therefore, PLM is not consistently reliable in detecting asbestos in non-friable organically bound (NOB) materials. Quantitative transmission electron microscopy (TEM) is currently the only method that can pronounce materials as non-asbestos containing.

**Analysis Performed By:**           S. Robb          

**Date:**           8/28/2012



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# CERTIFICATE OF ANALYSIS

<b>Client:</b>	Environ. Design International 33 W Monroe, Suite 1825 Chicago IL 60603	<b>Report Date:</b>	8/28/2012
		<b>Report No:</b>	283650
		<b>Project:</b>	Alexander Graham Bell School
		<b>Project No.:</b>	1261.028

## BULK SAMPLE ANALYSIS SUMMARY

<b>Lab No.:</b>	4765933	<b>Description / Location:</b>	Tan Mastic; A/W 1x1 Ceiling Tile Lunchroom N.Side	
<b>Client No.:</b>	HA24.1-112			
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

<b>Lab No.:</b>	4765934	<b>Description / Location:</b>	Brown Mastic; A/W 1x1 Ceiling Tile MDF Room	
<b>Client No.:</b>	HA24.1-113			
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

<b>Lab No.:</b>	4765935	<b>Description / Location:</b>	White Floor Tile; 12x12 North Storage Room Lunchroom	
<b>Client No.:</b>	HA20.1-117			
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

<b>Lab No.:</b>	4765936	<b>Description / Location:</b>	White Floor Tile; 12x12 Kitchen	
<b>Client No.:</b>	HA20.1-118			
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

**Accreditation**      **NIST-NVLAP No. 101165-0**      **NY-DOH No. 11021**      **AIHA-LAP, LLC No. 100188**

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**Analytical Method:**      EPA 600/R-93/116, by Polarized Light Microscopy

**Comments:**      Quantification at <0.25% by volume is possible with this method. (PC) Indicates Stratified Point Count Method performed. (PC-Trace) means that asbestos was detected but is not quantifiable under the Point Counting regimen. Analysis includes all distinct separable layers in accordance with EPA 600 Method. If not reported or otherwise noted, layer is either not present or the client has specifically requested that it not be analyzed (ex. analyze until positive instructions). Small asbestos fibers may be missed by PLM due to resolution limitations of the optical microscope. Therefore, PLM is not consistently reliable in detecting asbestos in non-friable organically bound (NOB) materials. Quantitative transmission electron microscopy (TEM) is currently the only method that can pronounce materials as non-asbestos containing.

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**Date:**                8/28/2012





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# CERTIFICATE OF ANALYSIS

**Client:** Environ. Design International  
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 Chicago IL 60603

**Report Date:** 8/28/2012  
**Report No:** 283650  
**Project:** Alexander Graham Bell School  
**Project No.:** 1261.028

## BULK SAMPLE ANALYSIS SUMMARY

<b>Lab No.:</b> 4765937	<b>Description / Location:</b> White Floor Tile; 12x12			
<b>Client No.:</b> HA20.1-119	South Storage Room Lunchroom			
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

<b>Lab No.:</b> 4765938	<b>Description / Location:</b> Tan Mastic; A/W 12x12 Floor Tile			
<b>Client No.:</b> HA21.1-120	North Storage Room Lunchroom			
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

<b>Lab No.:</b> 4765939	<b>Description / Location:</b> Black Mastic; A/W 12x12 Floor Tile			
<b>Client No.:</b> HA21.1-121	Kitchen			
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
PC 1.1	Chrysotile	None Detected	None Detected	PC 98.9

<b>Lab No.:</b> 4765940	<b>Description / Location:</b> Tan Mastic; A/W 12x12 Floor Tile			
<b>Client No.:</b> HA21.1-122	South Storage Room Lunchroom			
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

**Accreditation**      **NIST-NVLAP No. 101165-0**      **NY-DOH No. 11021**      **AIHA-LAP, LLC No. 100188**

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**Analytical Method:** EPA 600/R-93/116, by Polarized Light Microscopy

**Comments:** Quantification at <0.25% by volume is possible with this method. (PC) Indicates Stratified Point Count Method performed. (PC-Trace) means that asbestos was detected but is not quantifiable under the Point Counting regimen. Analysis includes all distinct separable layers in accordance with EPA 600 Method. If not reported or otherwise noted, layer is either not present or the client has specifically requested that it not be analyzed (ex. analyze until positive instructions). Small asbestos fibers may be missed by PLM due to resolution limitations of the optical microscope. Therefore, PLM is not consistently reliable in detecting asbestos in non-friable organically bound (NOB) materials. Quantitative transmission electron microscopy (TEM) is currently the only method that can pronounce materials as non-asbestos containing.

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**Date:**           8/28/2012



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# CERTIFICATE OF ANALYSIS

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 33 W Monroe, Suite 1825  
 Chicago IL 60603

**Report Date:** 8/28/2012  
**Report No:** 283650  
**Project:** Alexander Graham Bell School  
**Project No.:** 1261.028

## BULK SAMPLE ANALYSIS SUMMARY

<b>Lab No.:</b> 4765941	<b>Description / Location:</b> White Floor Tile; 12x12	
<b>Client No.:</b> HA25-46	Lunchroom	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>
None Detected	None Detected	None Detected
		<u>Type</u>
		None Detected
		<u>% Non-Fibrous Material</u>
		100

<b>Lab No.:</b> 4765942	<b>Description / Location:</b> White Floor Tile; 12x12	
<b>Client No.:</b> HA25-47	Lunchroom	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>
None Detected	None Detected	None Detected
		<u>Type</u>
		None Detected
		<u>% Non-Fibrous Material</u>
		100

<b>Lab No.:</b> 4765943	<b>Description / Location:</b> White Floor Tile; 12x12	
<b>Client No.:</b> HA25-48	Lunchroom	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>
None Detected	None Detected	None Detected
		<u>Type</u>
		None Detected
		<u>% Non-Fibrous Material</u>
		100

<b>Lab No.:</b> 4765944	<b>Description / Location:</b> Black Mastic; A/W 12x12 Floor Tile	
<b>Client No.:</b> HA25.1-40	Lunchroom	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>
PC 2.1	Chrysotile	None Detected
		<u>Type</u>
		None Detected
		<u>% Non-Fibrous Material</u>
		PC 97.9

**Accreditation**      **NIST-NVLAP No. 101165-0**      **NY-DOH No. 11021**      **AIHA-LAP, LLC No. 100188**

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**Analytical Method:** EPA 600/R-93/116, by Polarized Light Microscopy

**Comments:** Quantification at <0.25% by volume is possible with this method. (PC) Indicates Stratified Point Count Method performed. (PC-Trace) means that asbestos was detected but is not quantifiable under the Point Counting regimen. Analysis includes all distinct separable layers in accordance with EPA 600 Method. If not reported or otherwise noted, layer is either not present or the client has specifically requested that it not be analyzed (ex. analyze until positive instructions). Small asbestos fibers may be missed by PLM due to resolution limitations of the optical microscope. Therefore, PLM is not consistently reliable in detecting asbestos in non-friable organically bound (NOB) materials. Quantitative transmission electron microscopy (TEM) is currently the only method that can pronounce materials as non-asbestos containing.

**Analysis Performed By:**           S. Robb          

**Date:**           8/28/2012



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**Report Date:** 8/28/2012  
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**Project:** Alexander Graham Bell School  
**Project No.:** 1261.028

## BULK SAMPLE ANALYSIS SUMMARY

<b>Lab No.:</b> 4765945	<b>Description / Location:</b> Black Mastic; A/W 12x12 Floor Tile			
<b>Client No.:</b> HA25.1-41	Lunchroom			
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
PC 3.0	Chrysotile	None Detected	None Detected	97

<b>Lab No.:</b> 4765946	<b>Description / Location:</b> Black Mastic; A/W 12x12 Floor Tile			
<b>Client No.:</b> HA25.1-42	Lunchroom			
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
PC 2.4	Chrysotile	None Detected	None Detected	PC 97.6

<b>Lab No.:</b> 4765947	<b>Description / Location:</b> Grey Floor Tile; 12x12			
<b>Client No.:</b> HA26-49	Lunchroom			
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

<b>Lab No.:</b> 4765948	<b>Description / Location:</b> Grey Floor Tile; 12x12			
<b>Client No.:</b> HA26-50	Lunchroom			
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

**Accreditation**      **NIST-NVLAP No. 101165-0**      **NY-DOH No. 11021**      **AIHA-LAP, LLC No. 100188**

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**Analytical Method:** EPA 600/R-93/116, by Polarized Light Microscopy

**Comments:** Quantification at <0.25% by volume is possible with this method. (PC) Indicates Stratified Point Count Method performed. (PC-Trace) means that asbestos was detected but is not quantifiable under the Point Counting regimen. Analysis includes all distinct separable layers in accordance with EPA 600 Method. If not reported or otherwise noted, layer is either not present or the client has specifically requested that it not be analyzed (ex. analyze until positive instructions). Small asbestos fibers may be missed by PLM due to resolution limitations of the optical microscope. Therefore, PLM is not consistently reliable in detecting asbestos in non-friable organically bound (NOB) materials. Quantitative transmission electron microscopy (TEM) is currently the only method that can pronounce materials as non-asbestos containing.

**Analysis Performed By:**           S. Robb          

**Date:**           8/28/2012



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# CERTIFICATE OF ANALYSIS

**Client:** Environ. Design International  
 33 W Monroe, Suite 1825  
 Chicago IL 60603

**Report Date:** 8/28/2012  
**Report No:** 283650  
**Project:** Alexander Graham Bell School  
**Project No.:** 1261.028

## BULK SAMPLE ANALYSIS SUMMARY

<b>Lab No.:</b> 4765949	<b>Description / Location:</b> Grey Floor Tile; 12x12			
<b>Client No.:</b> HA26-51	Lunchroom			
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

<b>Lab No.:</b> 4765950	<b>Description / Location:</b> Tan Mastic; A/W 12x12 Floor Tile			
<b>Client No.:</b> HA26.1-63	Lunchroom			
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

<b>Lab No.:</b> 4765951	<b>Description / Location:</b> Tan Mastic; A/W 12x12 Floor Tile			
<b>Client No.:</b> HA26.1-64	Lunchroom			
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

<b>Lab No.:</b> 4765952	<b>Description / Location:</b> Tan Mastic; A/W 12x12 Floor Tile			
<b>Client No.:</b> HA26.1-65	Lunchroom			
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

**Accreditation**      **NIST-NVLAP No. 101165-0**      **NY-DOH No. 11021**      **AIHA-LAP, LLC No. 100188**

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**Analytical Method:** EPA 600/R-93/116, by Polarized Light Microscopy

**Comments:** Quantification at <0.25% by volume is possible with this method. (PC) Indicates Stratified Point Count Method performed. (PC-Trace) means that asbestos was detected but is not quantifiable under the Point Counting regimen. Analysis includes all distinct separable layers in accordance with EPA 600 Method. If not reported or otherwise noted, layer is either not present or the client has specifically requested that it not be analyzed (ex. analyze until positive instructions). Small asbestos fibers may be missed by PLM due to resolution limitations of the optical microscope. Therefore, PLM is not consistently reliable in detecting asbestos in non-friable organically bound (NOB) materials. Quantitative transmission electron microscopy (TEM) is currently the only method that can pronounce materials as non-asbestos containing.

**Analysis Performed By:**           S. Robb          

**Date:**           8/28/2012



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# CERTIFICATE OF ANALYSIS

<b>Client:</b>	Environ. Design International	<b>Report Date:</b>	8/28/2012
	33 W Monroe, Suite 1825	<b>Report No.:</b>	283650
	Chicago IL 60603	<b>Project:</b>	Alexander Graham Bell School
		<b>Project No.:</b>	1261.028

## BULK SAMPLE ANALYSIS SUMMARY

<b>Lab No.:</b>	4765953	<b>Description / Location:</b>	Tan Floor Tile; 12x12	
<b>Client No.:</b>	HA27-52		Lunchroom	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

<b>Lab No.:</b>	4765954	<b>Description / Location:</b>	Tan Floor Tile; 12x12	
<b>Client No.:</b>	HA27-53		Lunchroom	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

<b>Lab No.:</b>	4765955	<b>Description / Location:</b>	Tan Floor Tile; 12x12	
<b>Client No.:</b>	HA27-54		Lunchroom	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

<b>Lab No.:</b>	4765956	<b>Description / Location:</b>	Black Mastic; A/W 12x12 Floor Tile	
<b>Client No.:</b>	HA27.1-67		Lunchroom	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
PC 1.8	Chrysotile	None Detected	None Detected	PC 98.2

**Accreditation**      **NIST-NVLAP No. 101165-0**      **NY-DOH No. 11021**      **AIHA-LAP, LLC No. 100188**

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**Analytical Method:**      EPA 600/R-93/116, by Polarized Light Microscopy

**Comments:**      Quantification at <0.25% by volume is possible with this method. (PC) Indicates Stratified Point Count Method performed. (PC-Trace) means that asbestos was detected but is not quantifiable under the Point Counting regimen. Analysis includes all distinct separable layers in accordance with EPA 600 Method. If not reported or otherwise noted, layer is either not present or the client has specifically requested that it not be analyzed (ex. analyze until positive instructions). Small asbestos fibers may be missed by PLM due to resolution limitations of the optical microscope. Therefore, PLM is not consistently reliable in detecting asbestos in non-friable organically bound (NOB) materials. Quantitative transmission electron microscopy (TEM) is currently the only method that can pronounce materials as non-asbestos containing.

**Analysis Performed By:**                S. Robb          

**Date:**                8/28/2012



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 Chicago IL 60603

**Report Date:** 8/28/2012  
**Report No:** 283650  
**Project:** Alexander Graham Bell School  
**Project No.:** 1261.028

## BULK SAMPLE ANALYSIS SUMMARY

<b>Lab No.:</b> 4765957	<b>Description / Location:</b> Black Mastic; A/W 12x12 Floor Tile			
<b>Client No.:</b> HA27.1-68	Lunchroom			
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
PC 2.3	Chrysotile	None Detected	None Detected	PC 97.7

<b>Lab No.:</b> 4765958	<b>Description / Location:</b> Black Mastic; A/W 12x12 Floor Tile			
<b>Client No.:</b> HA27.1-69	Lunchroom			
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
PC 1.9	Chrysotile	None Detected	None Detected	PC 98.1

<b>Lab No.:</b> 4765959	<b>Description / Location:</b> Pink/White Floor Tile; 12x12			
<b>Client No.:</b> HA28-55	Lunchroom			
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

<b>Lab No.:</b> 4765960	<b>Description / Location:</b> Pink/White Floor Tile; 12x12			
<b>Client No.:</b> HA28-56	Lunchroom			
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

**Accreditation**      **NIST-NVLAP No. 101165-0**      **NY-DOH No. 11021**      **AIHA-LAP, LLC No. 100188**

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**Analytical Method:** EPA 600/R-93/116, by Polarized Light Microscopy

**Comments:** Quantification at <0.25% by volume is possible with this method. (PC) Indicates Stratified Point Count Method performed. (PC-Trace) means that asbestos was detected but is not quantifiable under the Point Counting regimen. Analysis includes all distinct separable layers in accordance with EPA 600 Method. If not reported or otherwise noted, layer is either not present or the client has specifically requested that it not be analyzed (ex. analyze until positive instructions). Small asbestos fibers may be missed by PLM due to resolution limitations of the optical microscope. Therefore, PLM is not consistently reliable in detecting asbestos in non-friable organically bound (NOB) materials. Quantitative transmission electron microscopy (TEM) is currently the only method that can pronounce materials as non-asbestos containing.

**Analysis Performed By:**           L. Price          

**Date:**           8/28/2012



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**Client:** Environ. Design International  
 33 W Monroe, Suite 1825  
 Chicago IL 60603

**Report Date:** 8/28/2012  
**Report No:** 283650  
**Project:** Alexander Graham Bell School  
**Project No.:** 1261.028

## BULK SAMPLE ANALYSIS SUMMARY

<b>Lab No.:</b> 4765961	<b>Description / Location:</b> Pink/White Floor Tile; 12x12 Lunchroom			
<b>Client No.:</b> HA28-57				
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

<b>Lab No.:</b> 4765962	<b>Description / Location:</b> Black/Brown Mastic; A/W 12x12 Floor Tile Lunchroom			
<b>Client No.:</b> HA28.1-70				
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
PC 1.2	Chrysotile	None Detected	None Detected	PC 98.8

<b>Lab No.:</b> 4765963	<b>Description / Location:</b> Black/Brown Mastic; A/W 12x12 Floor Tile Lunchroom			
<b>Client No.:</b> HA28.1-71				
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
PC 1.2	Chrysotile	None Detected	None Detected	PC 98.8

<b>Lab No.:</b> 4765964	<b>Description / Location:</b> Black/Brown Mastic; A/W 12x12 Floor Tile Lunchroom			
<b>Client No.:</b> HA28.1-72				
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
PC 1.1	Chrysotile	None Detected	None Detected	PC 98.9

**Accreditation**      **NIST-NVLAP No. 101165-0**      **NY-DOH No. 11021**      **AIHA-LAP, LLC No. 100188**

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**Analytical Method:** EPA 600/R-93/116, by Polarized Light Microscopy

**Comments:** Quantification at <0.25% by volume is possible with this method. (PC) Indicates Stratified Point Count Method performed. (PC-Trace) means that asbestos was detected but is not quantifiable under the Point Counting regimen. Analysis includes all distinct separable layers in accordance with EPA 600 Method. If not reported or otherwise noted, layer is either not present or the client has specifically requested that it not be analyzed (ex. analyze until positive instructions). Small asbestos fibers may be missed by PLM due to resolution limitations of the optical microscope. Therefore, PLM is not consistently reliable in detecting asbestos in non-friable organically bound (NOB) materials. Quantitative transmission electron microscopy (TEM) is currently the only method that can pronounce materials as non-asbestos containing.

**Analysis Performed By:**     L. Price    

**Date:**     8/28/2012



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 33 W Monroe, Suite 1825  
 Chicago IL 60603

**Report Date:** 8/28/2012  
**Report No:** 283650  
**Project:** Alexander Graham Bell School  
**Project No.:** 1261.028

## BULK SAMPLE ANALYSIS SUMMARY

<b>Lab No.:</b> 4765965	<b>Description / Location:</b> Yellow/White Floor Tile; 12x12	
<b>Client No.:</b> HA29-58	Lunchroom	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>
None Detected	None Detected	None Detected
		<u>Type</u>
		None Detected
		<u>% Non-Fibrous Material</u>
		100

<b>Lab No.:</b> 4765966	<b>Description / Location:</b> Yellow/White Floor Tile; 12x12	
<b>Client No.:</b> HA29-59	Lunchroom	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>
None Detected	None Detected	None Detected
		<u>Type</u>
		None Detected
		<u>% Non-Fibrous Material</u>
		100

<b>Lab No.:</b> 4765967	<b>Description / Location:</b> Yellow/White Floor Tile; 12x12	
<b>Client No.:</b> HA29-60	Lunchroom	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>
None Detected	None Detected	None Detected
		<u>Type</u>
		None Detected
		<u>% Non-Fibrous Material</u>
		100

<b>Lab No.:</b> 4765968	<b>Description / Location:</b> Black/Brown Mastic; A/W 12x12 Floor Tile	
<b>Client No.:</b> HA29.1-73	Lunchroom	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>
PC 1.1	Chrysotile	None Detected
		<u>Type</u>
		None Detected
		<u>% Non-Fibrous Material</u>
		PC 98.9

**Accreditation**

**NIST-NVLAP No. 101165-0**

**NY-DOH No. 11021**

**AIHA-LAP, LLC No. 100188**

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**Analytical Method:**

EPA 600/R-93/116, by Polarized Light Microscopy

**Comments:**

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**Analysis Performed By:**           L. Price          

**Date:**           8/28/2012





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 Chicago IL 60603

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**Project:** Alexander Graham Bell School  
**Project No.:** 1261.028

## BULK SAMPLE ANALYSIS SUMMARY

<b>Lab No.:</b> 4765969	<b>Description / Location:</b> Black/Brown Mastic; A/W 12x12 Floor Tile	
<b>Client No.:</b> HA29.1-74	Lunchroom	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>
PC 1.2	Chrysotile	None Detected
		None Detected
		PC 98.8

<b>Lab No.:</b> 4765970	<b>Description / Location:</b> Black/Brown Mastic; A/W 12x12 Floor Tile	
<b>Client No.:</b> HA29.1-75	Lunchroom	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>
PC 1.5	Chrysotile	None Detected
		None Detected
		PC 98.5

<b>Lab No.:</b> 4765971	<b>Description / Location:</b> Brown/White Floor Tile; 12x12	
<b>Client No.:</b> HA36-123	Lunchroom	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>
None Detected	None Detected	None Detected
		None Detected
		100

<b>Lab No.:</b> 4765972	<b>Description / Location:</b> Brown/White Floor Tile; 12x12	
<b>Client No.:</b> HA36-124	Lunchroom	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>
None Detected	None Detected	None Detected
		None Detected
		100

**Accreditation**      **NIST-NVLAP No. 101165-0**      **NY-DOH No. 11021**      **AIHA-LAP, LLC No. 100188**

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**Analytical Method:** EPA 600/R-93/116, by Polarized Light Microscopy

**Comments:** Quantification at <0.25% by volume is possible with this method. (PC) Indicates Stratified Point Count Method performed. (PC-Trace) means that asbestos was detected but is not quantifiable under the Point Counting regimen. Analysis includes all distinct separable layers in accordance with EPA 600 Method. If not reported or otherwise noted, layer is either not present or the client has specifically requested that it not be analyzed (ex. analyze until positive instructions). Small asbestos fibers may be missed by PLM due to resolution limitations of the optical microscope. Therefore, PLM is not consistently reliable in detecting asbestos in non-friable organically bound (NOB) materials. Quantitative transmission electron microscopy (TEM) is currently the only method that can pronounce materials as non-asbestos containing.

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**Date:**           8/28/2012



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**Project:** Alexander Graham Bell School  
**Project No.:** 1261.028

## BULK SAMPLE ANALYSIS SUMMARY

<b>Lab No.:</b> 4765973	<b>Description / Location:</b> Brown/White Floor Tile; 12x12	
<b>Client No.:</b> HA36-125	Lunchroom	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>
None Detected	None Detected	None Detected
		<u>Type</u>
		None Detected
		<u>% Non-Fibrous Material</u>
		100

<b>Lab No.:</b> 4765974	<b>Description / Location:</b> Black/Brown Mastic; A/W 12x12 Floor Tile	
<b>Client No.:</b> HA36.1-126	Lunchroom	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>
PC 1.3	Chrysotile	None Detected
		<u>Type</u>
		None Detected
		<u>% Non-Fibrous Material</u>
		PC 98.7

<b>Lab No.:</b> 4765975	<b>Description / Location:</b> Black/Brown Mastic; A/W 12x12 Floor Tile	
<b>Client No.:</b> HA36.1-127	Lunchroom	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>
PC 1.1	Chrysotile	None Detected
		<u>Type</u>
		None Detected
		<u>% Non-Fibrous Material</u>
		PC 98.9

<b>Lab No.:</b> 4765976	<b>Description / Location:</b> Black/Brown Mastic; A/W 12x12 Floor Tile	
<b>Client No.:</b> HA36.1-128	Lunchroom	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>
PC 1.1	Chrysotile	None Detected
		<u>Type</u>
		None Detected
		<u>% Non-Fibrous Material</u>
		PC 98.9

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**Analytical Method:** EPA 600/R-93/116, by Polarized Light Microscopy

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**Date:**           8/28/2012



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## BULK SAMPLE ANALYSIS SUMMARY

<b>Lab No.:</b> 4765977	<b>Description / Location:</b> Tan/Brown Floor Tile; 12x12	
<b>Client No.:</b> HA37-129	MDF Room	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>
None Detected	None Detected	None Detected
		<u>Type</u>
		None Detected
		<u>% Non-Fibrous Material</u>
		100

<b>Lab No.:</b> 4765978	<b>Description / Location:</b> Tan/Brown Floor Tile; 12x12	
<b>Client No.:</b> HA37-130	MDF Room	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>
None Detected	None Detected	None Detected
		<u>Type</u>
		None Detected
		<u>% Non-Fibrous Material</u>
		100

<b>Lab No.:</b> 4765979	<b>Description / Location:</b> Tan/Brown Floor Tile; 12x12	
<b>Client No.:</b> HA37-131	MDF Room	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>
None Detected	None Detected	None Detected
		<u>Type</u>
		None Detected
		<u>% Non-Fibrous Material</u>
		100

<b>Lab No.:</b> 4765980	<b>Description / Location:</b> Yellow Mastic; A/W 12x12 Floor Tile	
<b>Client No.:</b> HA37.1-132	MDF Room	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>
None Detected	None Detected	None Detected
		<u>Type</u>
		None Detected
		<u>% Non-Fibrous Material</u>
		100

**Accreditation**      **NIST-NVLAP No. 101165-0**      **NY-DOH No. 11021**      **AIHA-LAP, LLC No. 100188**

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**Analytical Method:** EPA 600/R-93/116, by Polarized Light Microscopy

**Comments:** Quantification at <0.25% by volume is possible with this method. (PC) Indicates Stratified Point Count Method performed. (PC-Trace) means that asbestos was detected but is not quantifiable under the Point Counting regimen. Analysis includes all distinct separable layers in accordance with EPA 600 Method. If not reported or otherwise noted, layer is either not present or the client has specifically requested that it not be analyzed (ex. analyze until positive instructions). Small asbestos fibers may be missed by PLM due to resolution limitations of the optical microscope. Therefore, PLM is not consistently reliable in detecting asbestos in non-friable organically bound (NOB) materials. Quantitative transmission electron microscopy (TEM) is currently the only method that can pronounce materials as non-asbestos containing.

**Analysis Performed By:**           L. Price          

**Date:**           8/28/2012



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# CERTIFICATE OF ANALYSIS

**Client:** Environ. Design International  
 33 W Monroe, Suite 1825  
 Chicago IL 60603

**Report Date:** 8/28/2012  
**Report No:** 283650  
**Project:** Alexander Graham Bell School  
**Project No.:** 1261.028

## BULK SAMPLE ANALYSIS SUMMARY

<b>Lab No.:</b> 4765981	<b>Description / Location:</b> Yellow Mastic; A/W 12x12 Floor Tile			
<b>Client No.:</b> HA37.1-133	MDF Room			
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

<b>Lab No.:</b> 4765982	<b>Description / Location:</b> Yellow Mastic; A/W 12x12 Floor Tile			
<b>Client No.:</b> HA37.1-134	MDF Room			
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

<b>Lab No.:</b> 4765983	<b>Description / Location:</b> White Insulation			
<b>Client No.:</b> HA A-76	2nd Floor Boys Washroom Mudded Fitting			
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
40	Chrysotile	5	Cellulose	55

<b>Lab No.:</b> 4765984	<b>Description / Location:</b> White/Grey Insulation/Woven Fibers			
<b>Client No.:</b> HA A-77	3rd Floor Boys Washroom Mudded Fitting			
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	20	Cellulose	40
		40	Mineral Wool	

**Accreditation**      **NIST-NVLAP No. 101165-0**      **NY-DOH No. 11021**      **AIHA-LAP, LLC No. 100188**

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**Analytical Method:** EPA 600/R-93/116, by Polarized Light Microscopy

**Comments:** Quantification at <0.25% by volume is possible with this method. (PC) Indicates Stratified Point Count Method performed. (PC-Trace) means that asbestos was detected but is not quantifiable under the Point Counting regimen. Analysis includes all distinct separable layers in accordance with EPA 600 Method. If not reported or otherwise noted, layer is either not present or the client has specifically requested that it not be analyzed (ex. analyze until positive instructions). Small asbestos fibers may be missed by PLM due to resolution limitations of the optical microscope. Therefore, PLM is not consistently reliable in detecting asbestos in non-friable organically bound (NOB) materials. Quantitative transmission electron microscopy (TEM) is currently the only method that can pronounce materials as non-asbestos containing.

**Analysis Performed By:**           L. Price          

**Date:**           8/28/2012



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# CERTIFICATE OF ANALYSIS

**Client:** Environ. Design International  
 33 W Monroe, Suite 1825  
 Chicago IL 60603

**Report Date:** 8/28/2012  
**Report No:** 283650  
**Project:** Alexander Graham Bell School  
**Project No.:** 1261.028

## BULK SAMPLE ANALYSIS SUMMARY

<b>Lab No.:</b> 4765985	<b>Description / Location:</b> White/Grey Insulation		
<b>Client No.:</b> HA A-78	1st Floor Boys Washroom Mudded Fitting		
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	5	Cellulose
		40	Mineral Wool

<b>Lab No.:</b> 4765986	<b>Description / Location:</b> Brown Rubber Baseboard; 6"		
<b>Client No.:</b> HA38-25	Lunchroom		
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected
			100

<b>Lab No.:</b> 4765987	<b>Description / Location:</b> Brown Rubber Baseboard; 6"		
<b>Client No.:</b> HA38-26	Lunchroom		
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected
			100

<b>Lab No.:</b> 4765988	<b>Description / Location:</b> Brown Rubber Baseboard; 6"		
<b>Client No.:</b> HA38-27	Lunchroom		
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected
			100

**Accreditation**      **NIST-NVLAP No. 101165-0**      **NY-DOH No. 11021**      **AIHA-LAP, LLC No. 100188**

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**Analytical Method:** EPA 600/R-93/116, by Polarized Light Microscopy

**Comments:** Quantification at <0.25% by volume is possible with this method. (PC) Indicates Stratified Point Count Method performed. (PC-Trace) means that asbestos was detected but is not quantifiable under the Point Counting regimen. Analysis includes all distinct separable layers in accordance with EPA 600 Method. If not reported or otherwise noted, layer is either not present or the client has specifically requested that it not be analyzed (ex. analyze until positive instructions). Small asbestos fibers may be missed by PLM due to resolution limitations of the optical microscope. Therefore, PLM is not consistently reliable in detecting asbestos in non-friable organically bound (NOB) materials. Quantitative transmission electron microscopy (TEM) is currently the only method that can pronounce materials as non-asbestos containing.

**Analysis Performed By:**           L. Price          

**Date:**           8/28/2012



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# CERTIFICATE OF ANALYSIS

**Client:** Environ. Design International  
 33 W Monroe, Suite 1825  
 Chicago IL 60603

**Report Date:** 8/28/2012  
**Report No:** 283650  
**Project:** Alexander Graham Bell School  
**Project No.:** 1261.028

## BULK SAMPLE ANALYSIS SUMMARY

<b>Lab No.:</b> 4765989	<b>Description / Location:</b> Tan Mastic; A/W 6" Baseboard			
<b>Client No.:</b> HA38.1-28	Lunchroom			
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

<b>Lab No.:</b> 4765990	<b>Description / Location:</b> Tan Mastic; A/W 6" Baseboard			
<b>Client No.:</b> HA38.1-29	Lunchroom			
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

<b>Lab No.:</b> 4765991	<b>Description / Location:</b> Tan Mastic; A/W 6" Baseboard			
<b>Client No.:</b> HA38.1-30	Lunchroom			
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

<b>Lab No.:</b> 4765992	<b>Description / Location:</b> Brown Carpet Mastic			
<b>Client No.:</b> HA33-96	1st Floor Auditorium			
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

**Accreditation**      **NIST-NVLAP No. 101165-0**      **NY-DOH No. 11021**      **AIHA-LAP, LLC No. 100188**

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**Analytical Method:** EPA 600/R-93/116, by Polarized Light Microscopy

**Comments:** Quantification at <0.25% by volume is possible with this method. (PC) Indicates Stratified Point Count Method performed. (PC-Trace) means that asbestos was detected but is not quantifiable under the Point Counting regimen. Analysis includes all distinct separable layers in accordance with EPA 600 Method. If not reported or otherwise noted, layer is either not present or the client has specifically requested that it not be analyzed (ex. analyze until positive instructions). Small asbestos fibers may be missed by PLM due to resolution limitations of the optical microscope. Therefore, PLM is not consistently reliable in detecting asbestos in non-friable organically bound (NOB) materials. Quantitative transmission electron microscopy (TEM) is currently the only method that can pronounce materials as non-asbestos containing.

**Analysis Performed By:**           L. Price          

**Date:**           8/28/2012



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# CERTIFICATE OF ANALYSIS

<b>Client:</b>	Environ. Design International 33 W Monroe, Suite 1825 Chicago IL 60603	<b>Report Date:</b>	8/28/2012
		<b>Report No:</b>	283650
		<b>Project:</b>	Alexander Graham Bell School
		<b>Project No.:</b>	1261.028

## BULK SAMPLE ANALYSIS SUMMARY

<b>Lab No.:</b>	4765993	<b>Description / Location:</b>	Brown Carpet Mastic 1st Floor Auditorium	
<b>Client No.:</b>	HA33-97			
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

<b>Lab No.:</b>	4765994	<b>Description / Location:</b>	Brown Carpet Mastic 1st Floor Auditorium	
<b>Client No.:</b>	HA33-98			
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

<b>Lab No.:</b>	4765995	<b>Description / Location:</b>	Grey Brick Mortar Outside 1st Floor	
<b>Client No.:</b>	HA34-99			
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

<b>Lab No.:</b>	4765996	<b>Description / Location:</b>	Grey Brick Mortar Outside 1st Floor	
<b>Client No.:</b>	HA34-100			
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

**Accreditation**      **NIST-NVLAP No. 101165-0**      **NY-DOH No. 11021**      **AIHA-LAP, LLC No. 100188**

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**Analytical Method:**      EPA 600/R-93/116, by Polarized Light Microscopy

**Comments:**      Quantification at <0.25% by volume is possible with this method. (PC) Indicates Stratified Point Count Method performed. (PC-Trace) means that asbestos was detected but is not quantifiable under the Point Counting regimen. Analysis includes all distinct separable layers in accordance with EPA 600 Method. If not reported or otherwise noted, layer is either not present or the client has specifically requested that it not be analyzed (ex. analyze until positive instructions). Small asbestos fibers may be missed by PLM due to resolution limitations of the optical microscope. Therefore, PLM is not consistently reliable in detecting asbestos in non-friable organically bound (NOB) materials. Quantitative transmission electron microscopy (TEM) is currently the only method that can pronounce materials as non-asbestos containing.

**Analysis Performed By:**                L. Price          

**Date:**                8/28/2012



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# CERTIFICATE OF ANALYSIS

**Client:** Environ. Design International  
 33 W Monroe, Suite 1825  
 Chicago IL 60603

**Report Date:** 8/28/2012  
**Report No:** 283650  
**Project:** Alexander Graham Bell School  
**Project No.:** 1261.028

## BULK SAMPLE ANALYSIS SUMMARY

**Lab No.:** 4765997      **Description / Location:** Sample Not Received  
**Client No.:** HA34-101

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
	Sample Not Received		Sample Not Received	

**Lab No.:** 4765998      **Description / Location:** Green Window Caulk  
**Client No.:** HA35-102      1st Floor

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

**Lab No.:** 4765999      **Description / Location:** Green Window Caulk  
**Client No.:** HA35-103      2nd Floor

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

**Lab No.:** 4766000      **Description / Location:** Green Window Caulk  
**Client No.:** HA35-104      2nd Floor

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

**Accreditation**      **NIST-NVLAP No. 101165-0**      **NY-DOH No. 11021**      **AIHA-LAP, LLC No. 100188**

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**Analytical Method:** EPA 600/R-93/116, by Polarized Light Microscopy

**Comments:** Quantification at <0.25% by volume is possible with this method. (PC) Indicates Stratified Point Count Method performed. (PC-Trace) means that asbestos was detected but is not quantifiable under the Point Counting regimen. Analysis includes all distinct separable layers in accordance with EPA 600 Method. If not reported or otherwise noted, layer is either not present or the client has specifically requested that it not be analyzed (ex. analyze until positive instructions). Small asbestos fibers may be missed by PLM due to resolution limitations of the optical microscope. Therefore, PLM is not consistently reliable in detecting asbestos in non-friable organically bound (NOB) materials. Quantitative transmission electron microscopy (TEM) is currently the only method that can pronounce materials as non-asbestos containing.

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**Date:**           8/28/2012





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# CERTIFICATE OF ANALYSIS

<b>Client:</b>	Environ. Design International	<b>Report Date:</b>	8/28/2012
	33 W Monroe, Suite 1825	<b>Report No.:</b>	283650
	Chicago IL 60603	<b>Project:</b>	Alexander Graham Bell School
		<b>Project No.:</b>	1261.028

## BULK SAMPLE ANALYSIS SUMMARY

<b>Lab No.:</b>	4766001	<b>Description / Location:</b>	Tan Mastic; A/W Ceramic Wall Tile	
<b>Client No.:</b>	HA39-135		3rd Floor Girls Washroom	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

<b>Lab No.:</b>	4766002	<b>Description / Location:</b>	Tan Mastic; A/W Ceramic Wall Tile	
<b>Client No.:</b>	HA39-136		2nd Floor Boys Room	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

<b>Lab No.:</b>	4766003	<b>Description / Location:</b>	Tan Mastic; A/W Ceramic Wall Tile	
<b>Client No.:</b>	HA39-137		1st Floor Girls Room	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

<b>Lab No.:</b>	4766004	<b>Description / Location:</b>	White/Tan Ceiling Tile; 2x4	
<b>Client No.:</b>	HA02-79		Library	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	40	Cellulose	40
		20	Mineral Wool	

**Accreditation**      **NIST-NVLAP No. 101165-0**      **NY-DOH No. 11021**      **AIHA-LAP, LLC No. 100188**

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**Analytical Method:** EPA 600/R-93/116, by Polarized Light Microscopy

**Comments:** Quantification at <0.25% by volume is possible with this method. (PC) Indicates Stratified Point Count Method performed. (PC-Trace) means that asbestos was detected but is not quantifiable under the Point Counting regimen. Analysis includes all distinct separable layers in accordance with EPA 600 Method. If not reported or otherwise noted, layer is either not present or the client has specifically requested that it not be analyzed (ex. analyze until positive instructions). Small asbestos fibers may be missed by PLM due to resolution limitations of the optical microscope. Therefore, PLM is not consistently reliable in detecting asbestos in non-friable organically bound (NOB) materials. Quantitative transmission electron microscopy (TEM) is currently the only method that can pronounce materials as non-asbestos containing.

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**Date:**           8/28/2012



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 Chicago IL 60603

**Report Date:** 8/28/2012  
**Report No:** 283650  
**Project:** Alexander Graham Bell School  
**Project No.:** 1261.028

## BULK SAMPLE ANALYSIS SUMMARY

<b>Lab No.:</b> 4766005	<b>Description / Location:</b> White/Tan Ceiling Tile; 2x4		
<b>Client No.:</b> HA02-80	1st Floor Hallway		
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>
None Detected	None Detected	40	Cellulose
		30	Mineral Wool

<b>Lab No.:</b> 4766006	<b>Description / Location:</b> White/Tan Ceiling Tile; 2x4		
<b>Client No.:</b> HA02-81	2nd Floor Hallway		
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>
None Detected	None Detected	40	Cellulose
		30	Mineral Wool

<b>Lab No.:</b> 4766007	<b>Description / Location:</b> White Tile Grout		
<b>Client No.:</b> HA40-138	3rd Floor Boys Bathroom		
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>
None Detected	None Detected	None Detected	None Detected
			100

<b>Lab No.:</b> 4766008	<b>Description / Location:</b> White Tile Grout		
<b>Client No.:</b> HA40-139	2nd Floor Girls Bathroom		
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>
None Detected	None Detected	None Detected	None Detected
			100

**Accreditation**      **NIST-NVLAP No. 101165-0**      **NY-DOH No. 11021**      **AIHA-LAP, LLC No. 100188**

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**Analytical Method:** EPA 600/R-93/116, by Polarized Light Microscopy

**Comments:** Quantification at <0.25% by volume is possible with this method. (PC) Indicates Stratified Point Count Method performed. (PC-Trace) means that asbestos was detected but is not quantifiable under the Point Counting regimen. Analysis includes all distinct separable layers in accordance with EPA 600 Method. If not reported or otherwise noted, layer is either not present or the client has specifically requested that it not be analyzed (ex. analyze until positive instructions). Small asbestos fibers may be missed by PLM due to resolution limitations of the optical microscope. Therefore, PLM is not consistently reliable in detecting asbestos in non-friable organically bound (NOB) materials. Quantitative transmission electron microscopy (TEM) is currently the only method that can pronounce materials as non-asbestos containing.

**Analysis Performed By:**           L. Price          

**Date:**           8/28/2012



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 Chicago IL 60603

**Report Date:** 8/28/2012  
**Report No:** 283650  
**Project:** Alexander Graham Bell School  
**Project No.:** 1261.028

## BULK SAMPLE ANALYSIS SUMMARY

<b>Lab No.:</b> 4766009	<b>Description / Location:</b> White Tile Grout		
<b>Client No.:</b> HA40-140	1st Floor Boys Bathroom		
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>
None Detected	None Detected	None Detected	None Detected
			100

<b>Lab No.:</b> 4766010	<b>Description / Location:</b> Grey Cementitious		
<b>Client No.:</b> HA42-114	3rd Floor Boys Washroom		
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>
None Detected	None Detected	None Detected	None Detected
			100

<b>Lab No.:</b> 4766011	<b>Description / Location:</b> Grey Cementitious		
<b>Client No.:</b> HA42-115	2nd Floor Girls Washroom		
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>
None Detected	None Detected	None Detected	None Detected
			100

<b>Lab No.:</b> 4766012	<b>Description / Location:</b> Grey Cementitious		
<b>Client No.:</b> HA42-116	1st Floor Girls Washroom		
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>
None Detected	None Detected	Trace	Hair
			100

**Accreditation**      **NIST-NVLAP No. 101165-0**      **NY-DOH No. 11021**      **AIHA-LAP, LLC No. 100188**

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**Analytical Method:** EPA 600/R-93/116, by Polarized Light Microscopy

**Comments:** Quantification at <0.25% by volume is possible with this method. (PC) Indicates Stratified Point Count Method performed. (PC-Trace) means that asbestos was detected but is not quantifiable under the Point Counting regimen. Analysis includes all distinct separable layers in accordance with EPA 600 Method. If not reported or otherwise noted, layer is either not present or the client has specifically requested that it not be analyzed (ex. analyze until positive instructions). Small asbestos fibers may be missed by PLM due to resolution limitations of the optical microscope. Therefore, PLM is not consistently reliable in detecting asbestos in non-friable organically bound (NOB) materials. Quantitative transmission electron microscopy (TEM) is currently the only method that can pronounce materials as non-asbestos containing.

**Analysis Performed By:**           L. Price          

**Date:**           8/28/2012



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# CERTIFICATE OF ANALYSIS

**Client:** Environ. Design International  
 33 W Monroe, Suite 1825  
 Chicago IL 60603

**Report Date:** 8/28/2012  
**Report No:** 283650  
**Project:** Alexander Graham Bell School  
**Project No.:** 1261.028

## BULK SAMPLE ANALYSIS SUMMARY

<b>Lab No.:</b> 4766013	<b>Description / Location:</b> Grey Floor Tile Grout			
<b>Client No.:</b> HA41-141	3rd Floor Girls Washroom			
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

<b>Lab No.:</b> 4766014	<b>Description / Location:</b> Grey Floor Tile Grout			
<b>Client No.:</b> HA41-142	2nd Floor Girls Washroom			
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

<b>Lab No.:</b> 4766015	<b>Description / Location:</b> Grey Floor Tile Grout			
<b>Client No.:</b> HA41-143	1st Floor Girls Washroom			
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

<b>Lab No.:</b> 4766016	<b>Description / Location:</b> Grey Floor Tile Grout			
<b>Client No.:</b> HA43-144	3rd Floor Boys Washroom			
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

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**Report Date:** 8/28/2012  
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**Project:** Alexander Graham Bell School  
**Project No.:** 1261.028

## BULK SAMPLE ANALYSIS SUMMARY

<b>Lab No.:</b> 4766017	<b>Description / Location:</b> Grey Floor Tile Grout			
<b>Client No.:</b> HA43-145	2nd Floor Boys Washroom			
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

<b>Lab No.:</b> 4766018	<b>Description / Location:</b> Grey Floor Tile Grout			
<b>Client No.:</b> HA43-146	1st Floor Boys Washroom			
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

<b>Lab No.:</b> 4766019	<b>Description / Location:</b> Grey Brick Mortar			
<b>Client No.:</b> HA44-147	Boys Washroom 3rd Floor			
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

<b>Lab No.:</b> 4766020	<b>Description / Location:</b> Grey Brick Mortar			
<b>Client No.:</b> HA44-148	Girls Washroom 2nd Floor			
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

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**Client:** Environ. Design International  
 33 W Monroe, Suite 1825  
 Chicago IL 60603

**Report Date:** 8/28/2012  
**Report No:** 283650  
**Project:** Alexander Graham Bell School  
**Project No.:** 1261.028

## BULK SAMPLE ANALYSIS SUMMARY

<b>Lab No.:</b> 4766021	<b>Description / Location:</b> Grey Brick Mortar			
<b>Client No.:</b> HA44-149	Boys Washroom 1st Floor			
<b>% Asbestos</b>	<b>Type</b>	<b>% Non-Asbestos Fibrous Material</b>	<b>Type</b>	<b>% Non-Fibrous Material</b>
None Detected	None Detected	None Detected	None Detected	100

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		<b>Report No.:</b>	283650
		<b>Project:</b>	Alexander Graham Bell School
		<b>Project No.:</b>	1261.028

## BULK SAMPLE ANALYSIS SUMMARY

<b>Lab No.:</b>	4766022	<b>Description / Location:</b>	Black Roof Material	
<b>Client No.:</b>	HA45-150		Roof Off 3rd Floor/Roof Fill	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	30	Cellulose	70

<b>Lab No.:</b>	4766022	<b>Description / Location:</b>	Brown Fibrous	
<b>Client No.:</b>	HA45-150		Roof Off 3rd Floor/Roof Fill	
			<b>Layer No.: 2</b>	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	90	Cellulose	10

<b>Lab No.:</b>	4766022	<b>Description / Location:</b>	Yellow Foam	
<b>Client No.:</b>	HA45-150		Roof Off 3rd Floor/Roof Fill	
			<b>Layer No.: 3</b>	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

<b>Lab No.:</b>	4766022	<b>Description / Location:</b>	Black Tar Paper	
<b>Client No.:</b>	HA45-150		Roof Off 3rd Floor/Roof Fill	
			<b>Layer No.: 4</b>	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	40	Cellulose	30
		30	Fibrous Glass	

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## BULK SAMPLE ANALYSIS SUMMARY

<b>Lab No.:</b> 4766023	<b>Description / Location:</b> Black Roof Material			
<b>Client No.:</b> HA45-151	Roof Off 3rd Floor/Roof Fill			
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	20	Cellulose	80

<b>Lab No.:</b> 4766023	<b>Description / Location:</b> Brown Fibrous	<b>Layer No.:</b> 2		
<b>Client No.:</b> HA45-151	Roof Off 3rd Floor/Roof Fill			
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	95	Cellulose	5

<b>Lab No.:</b> 4766023	<b>Description / Location:</b> Yellow Foam	<b>Layer No.:</b> 3		
<b>Client No.:</b> HA45-151	Roof Off 3rd Floor/Roof Fill			
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

<b>Lab No.:</b> 4766023	<b>Description / Location:</b> Black Tar Paper	<b>Layer No.:</b> 4		
<b>Client No.:</b> HA45-151	Roof Off 3rd Floor/Roof Fill			
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	30	Cellulose	40
		30	Fibrous Glass	

**Accreditation**

**NIST-NVLAP No. 101165-0**

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**Analytical Method:**

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**Comments:**

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**Date:** 8/28/2012





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**Report No:** 283650  
**Project:** Alexander Graham Bell School  
**Project No.:** 1261.028

## BULK SAMPLE ANALYSIS SUMMARY

<b>Lab No.:</b> 4766024	<b>Description / Location:</b> Black Roof Material			
<b>Client No.:</b> HA45-152	Roof Off 3rd Floor/Roof Fill			
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	30	Cellulose	70

<b>Lab No.:</b> 4766024	<b>Description / Location:</b> Brown Fibrous	<b>Layer No.:</b> 2		
<b>Client No.:</b> HA45-152	Roof Off 3rd Floor/Roof Fill			
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	90	Cellulose	10

<b>Lab No.:</b> 4766024	<b>Description / Location:</b> Yellow Foam	<b>Layer No.:</b> 3		
<b>Client No.:</b> HA45-152	Roof Off 3rd Floor/Roof Fill			
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

<b>Lab No.:</b> 4766024	<b>Description / Location:</b> Black Tar Paper	<b>Layer No.:</b> 4		
<b>Client No.:</b> HA45-152	Roof Off 3rd Floor/Roof Fill			
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	40	Cellulose	30
		30	Fibrous Glass	

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## BULK SAMPLE ANALYSIS SUMMARY

<b>Lab No.:</b> 4766025	<b>Description / Location:</b> White/Black Shingle/Tar			
<b>Client No.:</b> HA46-153	Roof Off 3rd Floor/Flashing			
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	20	Fibrous Glass	80

<b>Lab No.:</b> 4766025	<b>Description / Location:</b> Black Roof Material	<b>Layer No.:</b> 2		
<b>Client No.:</b> HA46-153	Roof Off 3rd Floor/Flashing			
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
PC 5.5	Chrysotile	10	Cellulose	PC 84.5

<b>Lab No.:</b> 4766026	<b>Description / Location:</b> White/Black Shingle/Tar			
<b>Client No.:</b> HA46-154	Roof Off 3rd Floor/Flashing			
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	20	Fibrous Glass	60
		20	Synthetic	

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## BULK SAMPLE ANALYSIS SUMMARY

<b>Lab No.:</b> 4766027	<b>Description / Location:</b> White/Black Shingle/Tar			
<b>Client No.:</b> HA46-155	Roof Off 3rd Floor/Flashing			
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	20	Fibrous Glass	80

<b>Lab No.:</b> 4766027	<b>Description / Location:</b> Black Roof Material	<b>Layer No.:</b> 2		
<b>Client No.:</b> HA46-155	Roof Off 3rd Floor/Flashing			
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	25	Synthetic	75

<b>Lab No.:</b> 4766028	<b>Description / Location:</b> Grey/Black Roof Material			
<b>Client No.:</b> HA47-156	Roof Off 3rd Floor/Flashing			
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
10	Chrysotile	None Detected	None Detected	90

<b>Lab No.:</b> 4766029	<b>Description / Location:</b> Grey/Black Roof Material			
<b>Client No.:</b> HA47-157	Roof Off 3rd Floor/Flashing			
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
12	Chrysotile	None Detected	None Detected	88

**Accreditation**

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**Report No:** 283650  
**Project:** Alexander Graham Bell School  
**Project No.:** 1261.028

## BULK SAMPLE ANALYSIS SUMMARY

<b>Lab No.:</b> 4766030	<b>Description / Location:</b> Grey/Black Roof Material			
<b>Client No.:</b> HA47-158	Roof Off 3rd Floor/Flashing			
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
12	Chrysotile	None Detected	None Detected	88

<b>Lab No.:</b> 4766031	<b>Description / Location:</b> Grey/Black Caulk/Roof Material			
<b>Client No.:</b> HA48-159	Roof Off 3rd Floor			
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
15	Chrysotile	None Detected	None Detected	85

<b>Lab No.:</b> 4766032	<b>Description / Location:</b> Grey/Brown/Black Caulk/Roof Material			
<b>Client No.:</b> HA48-160	Roof Off 3rd Floor			
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
15	Chrysotile	Trace	Cellulose	85

<b>Lab No.:</b> 4766033	<b>Description / Location:</b> Grey/Black Caulk/Roof Material			
<b>Client No.:</b> HA48-161	Roof Off 3rd Floor			
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
12	Chrysotile	None Detected	None Detected	88

**Accreditation**      **NIST-NVLAP No. 101165-0**      **NY-DOH No. 11021**      **AIHA-LAP, LLC No. 100188**

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**Analytical Method:** EPA 600/R-93/116, by Polarized Light Microscopy

**Comments:** Quantification at <0.25% by volume is possible with this method. (PC) Indicates Stratified Point Count Method performed. (PC-Trace) means that asbestos was detected but is not quantifiable under the Point Counting regimen. Analysis includes all distinct separable layers in accordance with EPA 600 Method. If not reported or otherwise noted, layer is either not present or the client has specifically requested that it not be analyzed (ex. analyze until positive instructions). Small asbestos fibers may be missed by PLM due to resolution limitations of the optical microscope. Therefore, PLM is not consistently reliable in detecting asbestos in non-friable organically bound (NOB) materials. Quantitative transmission electron microscopy (TEM) is currently the only method that can pronounce materials as non-asbestos containing.

**Analysis Performed By:**           L. Price          

**Date:**           8/28/2012



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# CERTIFICATE OF ANALYSIS

<b>Client:</b>	Environ. Design International	<b>Report Date:</b>	8/28/2012
	33 W Monroe, Suite 1825	<b>Report No.:</b>	283650
	Chicago IL 60603	<b>Project:</b>	Alexander Graham Bell School
		<b>Project No.:</b>	1261.028

## BULK SAMPLE ANALYSIS SUMMARY

<b>Lab No.:</b>	4766034	<b>Description / Location:</b>	Grey/Black Caulk	
<b>Client No.:</b>	HA49-162		Roof Off 3rd Floor/Patch	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
12	Chrysotile	None Detected	None Detected	88

<b>Lab No.:</b>	4766035	<b>Description / Location:</b>	White/Black/Grey Caulk/Shingle	
<b>Client No.:</b>	HA49-163		Roof Off 3rd Floor/Patch	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
10	Chrysotile	5	Fibrous Glass	85

<b>Lab No.:</b>	4766036	<b>Description / Location:</b>	Grey/Black Caulk	
<b>Client No.:</b>	HA49-164		Roof Off 3rd Floor/Patch	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
15	Chrysotile	None Detected	None Detected	85

<b>Lab No.:</b>	4766037	<b>Description / Location:</b>	Brown Plaster	
<b>Client No.:</b>	HA01-82		1st Floor Lunchroom/Wall	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	Trace	Hair	100

**Accreditation**      **NIST-NVLAP No. 101165-0**      **NY-DOH No. 11021**      **AIHA-LAP, LLC No. 100188**

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**Analytical Method:** EPA 600/R-93/116, by Polarized Light Microscopy

**Comments:** Quantification at <0.25% by volume is possible with this method. (PC) Indicates Stratified Point Count Method performed. (PC-Trace) means that asbestos was detected but is not quantifiable under the Point Counting regimen. Analysis includes all distinct separable layers in accordance with EPA 600 Method. If not reported or otherwise noted, layer is either not present or the client has specifically requested that it not be analyzed (ex. analyze until positive instructions). Small asbestos fibers may be missed by PLM due to resolution limitations of the optical microscope. Therefore, PLM is not consistently reliable in detecting asbestos in non-friable organically bound (NOB) materials. Quantitative transmission electron microscopy (TEM) is currently the only method that can pronounce materials as non-asbestos containing.

**Analysis Performed By:**           L. Price          

**Date:**           8/28/2012



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# CERTIFICATE OF ANALYSIS

**Client:** Environ. Design International  
 33 W Monroe, Suite 1825  
 Chicago IL 60603

**Report Date:** 8/28/2012  
**Report No:** 283650  
**Project:** Alexander Graham Bell School  
**Project No.:** 1261.028

## BULK SAMPLE ANALYSIS SUMMARY

<b>Lab No.:</b> 4766038	<b>Description / Location:</b> Brown Plaster			
<b>Client No.:</b> HA01-83	1st Floor Hall To Classroom 112			
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	Trace	Hair	100

<b>Lab No.:</b> 4766039	<b>Description / Location:</b> White Plaster			
<b>Client No.:</b> HA01-84	1st Floor South Hall Wall			
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

<b>Lab No.:</b> 4766039	<b>Description / Location:</b> Brown Plaster	<b>Layer No.:</b> 2		
<b>Client No.:</b> HA01-84	1st Floor South Hall Wall			
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	Trace	Hair	100

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**Analysis Performed By:**     L. Price    

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 Chicago IL 60603

**Report Date:** 8/28/2012  
**Report No:** 283650  
**Project:** Alexander Graham Bell School  
**Project No.:** 1261.028

## BULK SAMPLE ANALYSIS SUMMARY

<b>Lab No.:</b> 4766040	<b>Description / Location:</b> White Plaster			
<b>Client No.:</b> HA01-85	1st Floor Hall Outside Main Office			
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

<b>Lab No.:</b> 4766040	<b>Description / Location:</b> Brown Plaster	<b>Layer No.:</b> 2		
<b>Client No.:</b> HA01-85	1st Floor Hall Outside Main Office			
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	Trace	Hair	100

<b>Lab No.:</b> 4766041	<b>Description / Location:</b> White Plaster			
<b>Client No.:</b> HA01-86	1st Floor Girl's Northwest Toilet Vestibule			
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

<b>Lab No.:</b> 4766041	<b>Description / Location:</b> Brown Plaster	<b>Layer No.:</b> 2		
<b>Client No.:</b> HA01-86	1st Floor Girl's Northwest Toilet Vestibule			
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	Trace	Hair	100

**Accreditation**      **NIST-NVLAP No. 101165-0**      **NY-DOH No. 11021**      **AIHA-LAP, LLC No. 100188**

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**Analytical Method:** EPA 600/R-93/116, by Polarized Light Microscopy

**Comments:** Quantification at <0.25% by volume is possible with this method. (PC) Indicates Stratified Point Count Method performed. (PC-Trace) means that asbestos was detected but is not quantifiable under the Point Counting regimen. Analysis includes all distinct separable layers in accordance with EPA 600 Method. If not reported or otherwise noted, layer is either not present or the client has specifically requested that it not be analyzed (ex. analyze until positive instructions). Small asbestos fibers may be missed by PLM due to resolution limitations of the optical microscope. Therefore, PLM is not consistently reliable in detecting asbestos in non-friable organically bound (NOB) materials. Quantitative transmission electron microscopy (TEM) is currently the only method that can pronounce materials as non-asbestos containing.

**Analysis Performed By:**           L. Price          

**Date:**           8/28/2012



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# CERTIFICATE OF ANALYSIS

<b>Client:</b>	Environ. Design International 33 W Monroe, Suite 1825 Chicago IL 60603	<b>Report Date:</b>	8/28/2012
		<b>Report No.:</b>	283650
		<b>Project:</b>	Alexander Graham Bell School
		<b>Project No.:</b>	1261.028

## BULK SAMPLE ANALYSIS SUMMARY

<b>Lab No.:</b>	4766042	<b>Description / Location:</b>	White Plaster	
<b>Client No.:</b>	HA01-87		2nd Floor Classroom 202	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

<b>Lab No.:</b>	4766042	<b>Description / Location:</b>	Brown Plaster	<b>Layer No.:</b> 2
<b>Client No.:</b>	HA01-87		2nd Floor Classroom 202	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	Trace	Hair	100

<b>Lab No.:</b>	4766043	<b>Description / Location:</b>	Grey/White Plaster	
<b>Client No.:</b>	HA01-88		1st Floor Auditorium	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	Trace	Hair	100

<b>Lab No.:</b>	4766043	<b>Description / Location:</b>	Brown Plaster	<b>Layer No.:</b> 2
<b>Client No.:</b>	HA01-88		1st Floor Auditorium	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

**Accreditation**      **NIST-NVLAP No. 101165-0**      **NY-DOH No. 11021**      **AIHA-LAP, LLC No. 100188**

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**Analytical Method:** EPA 600/R-93/116, by Polarized Light Microscopy

**Comments:** Quantification at <0.25% by volume is possible with this method. (PC) Indicates Stratified Point Count Method performed. (PC-Trace) means that asbestos was detected but is not quantifiable under the Point Counting regimen. Analysis includes all distinct separable layers in accordance with EPA 600 Method. If not reported or otherwise noted, layer is either not present or the client has specifically requested that it not be analyzed (ex. analyze until positive instructions). Small asbestos fibers may be missed by PLM due to resolution limitations of the optical microscope. Therefore, PLM is not consistently reliable in detecting asbestos in non-friable organically bound (NOB) materials. Quantitative transmission electron microscopy (TEM) is currently the only method that can pronounce materials as non-asbestos containing.

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**Date:**           8/28/2012





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**Client:** Environ. Design International  
 33 W Monroe, Suite 1825  
 Chicago IL 60603

**Report Date:** 8/28/2012  
**Report No:** 283650  
**Project:** Alexander Graham Bell School  
**Project No.:** 1261.028

## BULK SAMPLE ANALYSIS SUMMARY

**Lab No.:** 4766044      **Description / Location:** White Plaster  
**Client No.:** HA01.1-89      1stFloorHallNearClassroom113A; Ceiling

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

**Lab No.:** 4766044      **Description / Location:** Tan Plaster      **Layer No.:** 2  
**Client No.:** HA01.1-89      1stFloorHallNearClassroom113A; Ceiling

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	Trace	Hair	100

**Lab No.:** 4766045      **Description / Location:** White Plaster  
**Client No.:** HA01.1-90      Lunchroom; Ceiling

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

**Lab No.:** 4766045      **Description / Location:** Tan Plaster      **Layer No.:** 2  
**Client No.:** HA01.1-90      Lunchroom; Ceiling

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	1	Hair	99

**Accreditation**

**NIST-NVLAP No. 101165-0**

**NY-DOH No. 11021**

**AIHA-LAP, LLC No. 100188**

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**Analytical Method:**

EPA 600/R-93/116, by Polarized Light Microscopy

**Comments:**

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**Analysis Performed By:**           L. Price          

**Date:**           8/28/2012



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# CERTIFICATE OF ANALYSIS

<b>Client:</b>	Environ. Design International	<b>Report Date:</b>	8/28/2012
	33 W Monroe, Suite 1825	<b>Report No.:</b>	283650
	Chicago IL 60603	<b>Project:</b>	Alexander Graham Bell School
		<b>Project No.:</b>	1261.028

## BULK SAMPLE ANALYSIS SUMMARY

<b>Lab No.:</b>	4766046	<b>Description / Location:</b>	White Plaster	
<b>Client No.:</b>	HA01.1-91		1stFloorBoysSouthwestToilet;Ceiling	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

<b>Lab No.:</b>	4766046	<b>Description / Location:</b>	Tan Plaster		<b>Layer No.:</b>	2
<b>Client No.:</b>	HA01.1-91		1stFloorBoysSouthwestToilet;Ceiling			
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>		
None Detected	None Detected	Trace	Hair	100		

<b>Lab No.:</b>	4766047	<b>Description / Location:</b>	White Plaster	
<b>Client No.:</b>	HA01.1-92		1stFloorGirlsNorthwestToilet;Ceiling	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

<b>Lab No.:</b>	4766047	<b>Description / Location:</b>	Tan Plaster		<b>Layer No.:</b>	2
<b>Client No.:</b>	HA01.1-92		1stFloorGirlsNorthwestToilet;Ceiling			
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>		
None Detected	None Detected	Trace	Hair	100		

**Accreditation**      **NIST-NVLAP No. 101165-0**      **NY-DOH No. 11021**      **AIHA-LAP, LLC No. 100188**

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**Analytical Method:**      EPA 600/R-93/116, by Polarized Light Microscopy

**Comments:**      Quantification at <0.25% by volume is possible with this method. (PC) Indicates Stratified Point Count Method performed. (PC-Trace) means that asbestos was detected but is not quantifiable under the Point Counting regimen. Analysis includes all distinct separable layers in accordance with EPA 600 Method. If not reported or otherwise noted, layer is either not present or the client has specifically requested that it not be analyzed (ex. analyze until positive instructions). Small asbestos fibers may be missed by PLM due to resolution limitations of the optical microscope. Therefore, PLM is not consistently reliable in detecting asbestos in non-friable organically bound (NOB) materials. Quantitative transmission electron microscopy (TEM) is currently the only method that can pronounce materials as non-asbestos containing.

**Analysis Performed By:**                L. Price          

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**Report Date:** 8/28/2012  
**Report No:** 283650  
**Project:** Alexander Graham Bell School  
**Project No.:** 1261.028

## BULK SAMPLE ANALYSIS SUMMARY

<b>Lab No.:</b> 4766048	<b>Description / Location:</b> White Plaster			
<b>Client No.:</b> HA01.1-93	2ndFloorGirlsNorthwestToilet;Ceiling			
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

<b>Lab No.:</b> 4766048	<b>Description / Location:</b> Tan Plaster	<b>Layer No.:</b> 2		
<b>Client No.:</b> HA01.1-93	2ndFloorGirlsNorthwestToilet;Ceiling			
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	Trace	Hair	100

<b>Lab No.:</b> 4766049	<b>Description / Location:</b> White Plaster			
<b>Client No.:</b> HA01.1-94	2ndFloorBoysSouthwestToilet;Ceiling			
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

<b>Lab No.:</b> 4766049	<b>Description / Location:</b> Tan Plaster	<b>Layer No.:</b> 2		
<b>Client No.:</b> HA01.1-94	2ndFloorBoysSouthwestToilet;Ceiling			
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	Trace	Hair	100

**Accreditation**

**NIST-NVLAP No. 101165-0**

**NY-DOH No. 11021**

**AIHA-LAP, LLC No. 100188**

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**Analytical Method:**

EPA 600/R-93/116, by Polarized Light Microscopy

**Comments:**

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**Analysis Performed By:** L. Price

**Date:** 8/28/2012



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**Project No.:** 1261.028

## BULK SAMPLE ANALYSIS SUMMARY

<b>Lab No.:</b> 4766050	<b>Description / Location:</b> White Plaster			
<b>Client No.:</b> HA01.1-95	3rdFloorBoysSouthwestToilet;Ceiling			
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

<b>Lab No.:</b> 4766050	<b>Description / Location:</b> Tan Plaster	<b>Layer No.:</b> 2		
<b>Client No.:</b> HA01.1-95	3rdFloorBoysSouthwestToilet;Ceiling			
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	Trace	Hair	100

<b>Lab No.:</b> 4766051	<b>Description / Location:</b> Brown Cementitious			
<b>Client No.:</b> 98	Additional Sample Received			
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

**Accreditation**      **NIST-NVLAP No. 101165-0**      **NY-DOH No. 11021**      **AIHA-LAP, LLC No. 100188**

*This confidential report relates only to those item(s) tested and does not represent an endorsement by NIST-NVLAP, AIHA or any agency of the U.S. government  
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**Analytical Method:** EPA 600/R-93/116, by Polarized Light Microscopy

**Comments:** Quantification at <0.25% by volume is possible with this method. (PC) Indicates Stratified Point Count Method performed. (PC-Trace) means that asbestos was detected but is not quantifiable under the Point Counting regimen. Analysis includes all distinct separable layers in accordance with EPA 600 Method. If not reported or otherwise noted, layer is either not present or the client has specifically requested that it not be analyzed (ex. analyze until positive instructions). Small asbestos fibers may be missed by PLM due to resolution limitations of the optical microscope. Therefore, PLM is not consistently reliable in detecting asbestos in non-friable organically bound (NOB) materials. Quantitative transmission electron microscopy (TEM) is currently the only method that can pronounce materials as non-asbestos containing.

**Analysis Performed By:**     L. Price    

**Date:**     8/28/2012



Environmental Design International inc.

CHAIN OF CUSTODY / ANALYSIS REQUEST FORM

33 West Monroe Street, Suite 1825, Chicago, IL 60603

P (312) 345-1400

F (312) 345-0529

Client: PBC

Date: 8-8-12

Location: ALEXANDER Graham Bell school

Sampled by: Raymond Cienas

ANALYSIS REQUESTED

Site Address: 3730 N. Oakley Ave

# of Samples: 165

EDI Project #: 1260.028

Date Collected: 8-8-12

Date Shipped: 8-21-12

Date Results Needed: 72 hrs.

SAMPLE ID #	SAMPLE LOCATION/DESCRIPTION	COMP	GRAB	MATRIX						METHOD PRESERVED						SAMPLING		VOLUME (L)	TIME (MINUTES)	# OF CONTAINERS	ACM Bulk PLM	LABORATORY NUMBER			
				WATER	SOIL	AIR	SLUDGE	OTHER	HCL	HNO3	H2SO4	ICE	NONE	OTHER	DATE	TIME									
HA 05-01	carpet mastic / Library NW corner		X														8-8-12				4765890				
HA 05-02	↓ ↓ ↓ SE corner																				4765891				
HA 05-03	↓ ↓ ↓ SW corner																				4765892				
HA 06-04	12"x12" white w/Gray Vinyl Floor tile 1st Fl																				4765893				
HA 06-05	↓ ↓ ↓ ↓ ↓ 2nd Fl																				4765894				
HA 06-06	↓ ↓ ↓ ↓ ↓ 3rd Fl																				4765895				
HA 09-13	12"x12" white w/Gray Vinyl Floor tile mastic 1st																				4765896				
HA 09-14	↓ ↓ ↓ ↓ ↓ 2nd																				4765897				
HA 09-15	↓ ↓ ↓ ↓ ↓ 3rd Fl																				4765898				
HA E-7	Pipe Formed Pipe insulation 2nd Fl boys washroom																				4765899				
HA E-8	↓ ↓ ↓ ↓ ↓ 3rd																				4765900				
HA E-9	↓ ↓ ↓ ↓ ↓ 1st																				4765901				
HA 08-10	Green Lymolium Kindergarten by exit																				4765902				

Released By (Signature)	Date/Time	Delivery Method	Received By (Signature)	Date/Time
Randolph Jamison	8/21/12/1500	Via Mercury	08(R) 9/3/12 602° 5123111	AUG 22 2012

Comments:

IATL - By

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8/28/12







Environmental Design International inc.

CHAIN OF CUSTODY / ANALYSIS REQUEST FORM

33 West Monroe Street, Suite 1825, Chicago, IL 60603

P (312) 345-1400

F (312) 345-0529

Client: PBC Date: 8-8-12

Location: Alexander Graham Bell School Sampled by: RAYMOND CIRENAS

Site Address: 3730 N. Oakley Ave # of Samples: 165

EDI Project #: 1260.028 Date Collected: 8-8-12 Date Shipped: 8-21-2012 Date Results Needed: 72 hrs.

SAMPLE ID #	SAMPLE LOCATION/DESCRIPTION	COMP	GRAB	MATRIX					METHOD PRESERVED					SAMPLING		VOLUME (L)	TIME (MINUTES)	# OF CONTAINERS	LABORATORY NUMBER
				WATER	SOIL	AIR	SLUDGE	OTHER	HCL	HNO3	H2SO4	ICE	NONE	OTHER	DATE				
HA 12 B -110	Yellow carpet glue room 309 by main door		X												8-8-12	4765913		X	
HA 08.1 -105	Kindergarten green Lymolium adhesive by exit															4765914			
HA 08.1-106	↓ ↓ ↓ ↓ by radiator															4765915			
HA 08.1-107	↓ ↓ ↓ ↓ by water fountain															4765916			
HA 20 -31	9"x9" Light tan Floor tile North Storage room Lunchroom															4765917			
↓ 32	↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓															4765918			
↓ 33	↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ South Storage room Lunchroom															4765919			
HA 21 -34	9"x9" Light tan VFT Mastie north Storage room Lunchroom															4765920			
↓ 35	↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓															4765921			
↓ 36	↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ South Storage room Lunchroom															4765922			
HA 22 -37	12"x12" <del>Light tan</del> <sup>green w/ grey</sup> spots VFT Lunchroom															4765923			
HA 22 -38	↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓															4765924			
HA 22 -39	↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓															4765925			

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<i>Randolph Livingston</i>	8/21/12/1500	Via Mercury		

Comments:

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CHAIN OF CUSTODY / ANALYSIS REQUEST FORM

33 West Monroe Street, Suite 1825, Chicago, IL 60603

P (312) 345-1400

F (312) 345-0529

Client: PBC

Date: 8-9-12

Location: Alexander Graham Bell school

Sampled by: Raymond Licevas

ANALYSIS REQUESTED

Site Address: 3730 N. Oakley Ave

# of Samples: 165

EDI Project #: 1260.028

Date Collected: 8-9-12

Date Shipped: 8/21/12

Date Results Needed: 72 hrs.

SAMPLE ID #	SAMPLE LOCATION/DESCRIPTION	COMP	GRAB	MATRIX					METHOD PRESERVED						SAMPLING		VOLUME (L)	TIME (MINUTES)	# OF CONTAINERS	LABORATORY NUMBER	
				WATER	SOIL	AIR	SLUDGE	OTHER	HCL	HNO3	H2SO4	ICE	NONE	OTHER	DATE	TIME					
HA23-61	12"x12" <sup>green</sup> <sup>gray</sup> <del>white</del> spocks VFT mastic Lunchroom		X													8-9		4765926			
HA23-62	↓ ↓ ↓ ↓ ↓ ↓ ↓																	4765927			
HA23-63	↓ ↓ ↓ ↓ ↓ ↓ ↓																	4765928			
<del>HA23-40</del>	<del>X</del>																				
<del>HA23-41</del>	<del>X</del>																				
<del>HA23-42</del>	<del>X</del>																				
<del>HA23.1-64</del>	<del>X</del>																				
<del>HA23.1-65</del>	<del>X</del>																				
<del>HA23.1-66</del>	<del>X</del>																				
HA24-43	1x1 ceiling tile Lunchroom middle																	4765929			
HA24-44	↓ ↓ ↓ Lunchroom N. Side																	4765930			
HA24-45	↓ ↓ ↓ MDF ROOM																	4765931			
HA24-111	1x1 ceiling tile glue dot Lunchroom middle																	4765932			

REM BULK PLUM

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CHAIN OF CUSTODY / ANALYSIS REQUEST FORM

33 West Monroe Street, Suite 1825, Chicago, IL 60603

P (312) 345-1400

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Client: PBC

Date: 8-9-12

Location: Alexander Graham Bell School

Sampled by: RAYMOND CENAS

ANALYSIS REQUESTED

Site Address: 3730 N. Oakley Ave

# of Samples: 165

EDI Project #: 1266.028

Date Collected: 8-9-12

Date Shipped: 8-21-12

Date Results Needed: 72 hrs.

ACM Bulk PIM

SAMPLE ID #	SAMPLE LOCATION/DESCRIPTION	COMP	GRAB	MATRIX					METHOD PRESERVED					SAMPLING		VOLUME (L)	TIME (MINUTES)	# OF CONTAINERS	LABORATORY NUMBER
				WATER	SOIL	AIR	SLUDGE	OTHER	HCL	HNO3	H2SO4	ICE	NONE	OTHER	DATE				
HA24.1-112	1x1 ceiling tile glue dot Lunchroom N.S. side		X												8-9-12	4765933			
HA24.1-113	MDF Room															4765934			
HA20.1-117	12"x12" white VFT w/brown specks North Storage room Lunchroom															4765935			
HA20.1-118	Kitchen															4765936			
HA20.1-119	South Storage room Lunchroom															4765937			
HA21.1-120	12"x12" white VFT mastic w/brown specks North Storage room Lunchroom															4765938			
HA21.1-121	Kitchen															4765939			
HA21.1-122	South Storage room Lunchroom															4765940			
HA25-46	12"x12" white w/blue specks Floor tile Lunchroom															4765941			
47																4765942			
48																4765943			
HA25.1-40	12"x12" white w/blue specks Floor tile mastic Lunchroom															4765944			
HA25.1-41																4765945			

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CHAIN OF CUSTODY / ANALYSIS REQUEST FORM

33 West Monroe Street, Suite 1825, Chicago, IL 60603

P (312) 345-1400

F (312) 345-0529

Client: PBC

Date: 8-9-12

Location: Alexander Graham Bell School

Sampled by: RAYMOND CIENAS

ANALYSIS REQUESTED

Site Address: 3730 N. Oakley Ave

# of Samples: 165

EDI Project #: 1260.028

Date Collected: 8-9-12

Date Shipped: 8-21-12

Date Results Needed: 72 hrs.

SAMPLE ID #	SAMPLE LOCATION/DESCRIPTION	COMP	GRAB	MATRIX						METHOD PRESERVED						SAMPLING		VOLUME (L)	TIME (MINUTES)	# OF CONTAINERS	ACM BULK PLM	LABORATORY NUMBER
				WATER	SOIL	AIR	SLUDGE	OTHER	HCL	HNO3	H2SO4	ICE	NONE	OTHER	DATE	TIME						
HA 25.1-42	12"x12" white w/blue specks Floor tile mastic Lunchroom		X														8-9-12	4765946		X		
HA 26-49	12"x12" Grey/blue with grey specks Floor tile Lunchroom																	4765947				
HA 26-50	↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓																	4765948				
HA 26-51	↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓																	4765949				
HA 26.1-63	12"x12" Grey/blue w/grey specks Floor tile mastic Lunchroom																	4765950				
HA 26.1-64	↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓																	4765951				
HA 26.1-65	↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓																	4765952				
HA 27-52	12"x12" tan w/brown specks Floor tile Lunchroom																	4765953				
HA 27-53	↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓																	4765954				
HA 27-54	↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓																	4765955				
HA 27.1-67	12"x12" tan w/brown specks Floor tile mastic Lunchroom																	4765956				
HA 27.1-68	↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓																	4765957				
HA 27.1-69	↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓																	4765958				

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<u>Randolph Livingston</u>	8/21/12/1500	Via Mercury		

Comments:



CHAIN OF CUSTODY / ANALYSIS REQUEST FORM

33 West Monroe Street, Suite 1825, Chicago, IL 60603

P (312) 345-1400

F (312) 345-0529

Client: PBC

Date: 8-10-12

Location: Alexander Graham Bell School

Sampled by: Raymond Coronas

ANALYSIS REQUESTED			

Site Address: 3730 N. Oakley

# of Samples: 165

EDI Project #: 1261-028

Date Collected: 8-10-12

Date Shipped: 8-21-12

Date Results Needed: 72 hrs.

SAMPLE ID #	SAMPLE LOCATION/DESCRIPTION	COMP	GRAB	MATRIX					METHOD PRESERVED					SAMPLING		VOLUME (L)	TIME (MINUTES)	# OF CONTAINERS	ACM Bulk PCM	LABORATORY NUMBER
				WATER	SOIL	AIR	SLUDGE	OTHER	HCL	HNO3	H2SO4	ICE	NONE	OTHER	DATE					
HA28-55	12"x12" pink w/white marble specks Floor tile Lunchroom		X												8-10-12	4765959				
HA28-56	↓ ↓ ↓ ↓ ↓ ↓															4765960				
HA28-57	↓ ↓ ↓ ↓ ↓ ↓															4765961				
HA28.1-70	12"x12" pink w/white marble specks Floor tile mastic Lunchroom															4765962				
HA28.1-71	↓ ↓ ↓ ↓ ↓ ↓															4765963				
HA28.1-72	↓ ↓ ↓ ↓ ↓ ↓															4765964				
HA29-58	12"x12" yellow w/white marble specks Floor tile Lunchroom															4765965				
HA29-59	↓ ↓ ↓ ↓ ↓ ↓															4765966				
HA29-60	↓ ↓ ↓ ↓ ↓ ↓															4765967				
HA29.1-73	12"x12" yellow w/white marble specks Floor tile mastic Lunchroom															4765968				
HA29.1-74	↓ ↓ ↓ ↓ ↓ ↓															4765969				
HA29.1-75	↓ ↓ ↓ ↓ ↓ ↓															4765970				

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<u>Raymond Coronas</u>	<u>8/21/12/1500</u>	<u>Via Mercury</u>		

Comments: LSP 8-28-12







Environmental Design International inc.

CHAIN OF CUSTODY / ANALYSIS REQUEST FORM

33 West Monroe Street, Suite 1825, Chicago, IL 60603

P (312) 345-1400

F (312) 345-0529

Client: PBC

Date: 8-10-12

Location: ALEXANDER Graham Bell school

Sampled by: Raymond Cienas

ANALYSIS REQUESTED
--------------------

Site Address: 3730 N. Oakley

# of Samples: 165

EDI Project #: 1261.028

Date Collected: 8-13-12

Date Shipped: 8-21-12

Date Results Needed: 72 hrs.

SAMPLE ID #	SAMPLE LOCATION/DESCRIPTION	COMP	GRAB	MATRIX						METHOD PRESERVED						SAMPLING		VOLUME (L)	TIME (MINUTES)	# OF CONTAINERS	LABORATORY NUMBER			
				WATER	SOIL	AIR	SLUDGE	OTHER	HCL	HNO3	H2SO4	ICE	NONE	OTHER	DATE	TIME								
HA A-77	mudded fittings 3rd Fl boys washroom		X													8-10-12	4765984							
HA A-78	↓ ↓ 1 <sup>st</sup> Fl ↓ ↓																4765985							
HA 38-25	6" brown baseboard Lunchroom																4765986							
HA 38-26	↓ ↓ ↓ ↓ ↓																4765987							
HA 38-27	↓ ↓ ↓ ↓ ↓																4765988							
HA 38-28	6" brown baseboard adhesive Lunchroom																4765989							
HA 38.1-29	↓ ↓ ↓ ↓ ↓																4765990							
HA 38.1-30	↓ ↓ ↓ ↓ ↓																4765991							
HA 33-96	Adhesive under red carpet 1 <sup>st</sup> Fl Auditorium																4765992							
HA 33-97	↓ ↓ ↓ ↓ ↓																4765993							
HA 33-98	↓ ↓ ↓ ↓ ↓																4765994							
HA 34-99	gray brick mortar outside b+fl																4765995							
HA 34 100	↓ ↓ ↓ ↓ ↓																4765996							

ACM DUK PLM

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Randolph Linsgite	8/14/12/1500	Via Mercury		

Comments:



CHAIN OF CUSTODY / ANALYSIS REQUEST FORM

33 West Monroe Street, Suite 1825, Chicago, IL 60603

P (312) 345-1400

F (312) 345-0529

Client: PBC

Date: 8-13

Location: Alexander Graham Bell school

Sampled by: Raymond Ciccas

Site Address: 3730 N. Oakley

# of Samples: 165

EDI Project #: 1261.028

Date Collected: 8-13-12

Date Shipped: 8-21/12

Date Results Needed: 72 hrs.

SAMPLE ID #	SAMPLE LOCATION/DESCRIPTION	COMP	GRAB	MATRIX						METHOD PRESERVED						SAMPLING		VOLUME (L)	TIME (MINUTES)	# OF CONTAINERS	LABORATORY NUMBER
				WATER	SOIL	AIR	SLUDGE	OTHER	HCL	HNO3	H2SO4	ICE	NONE	OTHER	DATE	TIME					
HA34-101	gray brick mortar outside 1 <sup>st</sup> Floor		X													8-13	4765997		IATL 4765997 Not Received		
HA35-102	Green window caulk 1 <sup>st</sup> Floor															4765998					
HA35-103	↓ ↓ ↓ 2 <sup>nd</sup> Floor															4765999					
HA35-104	↓ ↓ ↓ 2 <sup>nd</sup> Floor															4766000					
HA39-135	TAN Adhesive For ceramic wall tile 3 <sup>rd</sup> Fl girls bathroom															4766001					
HA39-136	↓ ↓ ↓ ↓ ↓ 2 <sup>nd</sup> Fl boys room															4766002					
HA39-137	↓ ↓ ↓ ↓ ↓ 1 <sup>st</sup> Fl girls room															4766003					
HA02-79	white 2x4 ceiling tile Library															4766004					
HA02-80	↓ ↓ ↓ ↓ ↓ 1 <sup>st</sup> Fl Hallway															4766005					
HA02-81	↓ ↓ ↓ ↓ ↓ 2 <sup>nd</sup> Fl Hallway															4766006					
HA40-138	white tile grout 3 <sup>rd</sup> Fl boys bathroom															4766007					
HA40-139	↓ ↓ ↓ ↓ ↓ 2 <sup>nd</sup> Fl girls bathroom															4766008					
HA40-140	↓ ↓ ↓ ↓ ↓ 1 <sup>st</sup> Fl boys bathroom															4766009					
Released By (Signature)		Date/Time		Delivery Method								Received By (Signature)				Date/Time					
Randolph Livingston		8/21/12/1500		Via Mercury																	

Comments:





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F (312) 345-0529

Client: PBC

Date: 8-14-12

Location: Alexander Graham Bell School

Sampled by: Raymond Cienas

Site Address: 3730 N. Oakley

# of Samples: 165

EDI Project #: 1261.028

Date Collected: 8-14-12

Date Shipped: 8-21-12

Date Results Needed: 72 hours

SAMPLE ID #	SAMPLE LOCATION/DESCRIPTION	COMP	GRAB	MATRIX						METHOD PRESERVED						SAMPLING		VOLUME (L)	TIME (MINUTES)	# OF CONTAINERS	ACM BULK PLM	LABORATORY NUMBER
				WATER	SOIL	AIR	SLUDGE	OTHER	HCL	HNO3	H2SO4	ICE	NONE	OTHER	DATE	TIME						
HA42-114	Grey cement board 3rd Fl boys washroom		X													8-14	4766010			X		
HA42-115	↓ ↓ ↓ 2nd Fl girls washroom																4766011					
HA42-116	↓ ↓ ↓ 1st Fl girls washroom															4766012						
HA41-141	gray floor tile grout 3rd Fl girls washroom															4766013						
HA41-142	↓ ↓ ↓ 2nd ↓ ↓ ↓															4766014						
HA41-143	↓ ↓ ↓ 1st ↓ ↓ ↓															4766015						
HA43-144	Floor tile grout 3rd Fl boys washroom															4766016						
HA43-145	↓ ↓ ↓ 2nd ↓ ↓ ↓															4766017						
HA43-146	↓ ↓ ↓ 1st ↓ ↓ ↓															4766018						
HA44-147	gray mortar from white brick boys washroom 3rd Fl															4766019						
HA44-148	↓ ↓ ↓ ↓ ↓ girls ↓ 2nd Fl															4766020						
HA44-149	↓ ↓ ↓ ↓ ↓ boys ↓ 1st Fl															4766021						

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Randolph Livingston	8/21/12/1500	Via Mercury		

Comments:



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CHAIN OF CUSTODY / ANALYSIS REQUEST FORM

33 West Monroe Street, Suite 1825, Chicago, IL 60603

P (312) 345-1400

F (312) 345-0529

Client: PBC

Date: 8-20-2012

Location: ALEXANDER GRAHAM BELL SCHOOL

Sampled by: Randolph Livingston

ANALYSIS REQUESTED

Site Address: 3730 N. OAKLEY AVE., CHICAGO, IL

# of Samples: 165 / 165

EDI Project #: 1260.028

Date Collected: 8-20-2012 Date Shipped: 8-21-2012 Date Results Needed: 72 hrs.

SAMPLE ID #	SAMPLE LOCATION/DESCRIPTION	COMP	GRAB	MATRIX						METHOD PRESERVED						SAMPLING		VOLUME (L)	TIME (MINUTES)	# OF CONTAINERS	ACM BULK P/M	LABORATORY NUMBER
				WATER	SOIL	AIR	SLUDGE	OTHER	HCL	HNO3	H2SO4	ICE	NONE	OTHER	DATE	TIME						
HA45-150	Roof off 3rd Floor / Roof FILL		X													8/20/12	4766022		1	X		
-151			X														4766023		1			
-152			X														4766024		1			
HA46-153	Roof off 3rd Floor / Roof FLASHING		X														4766025		1			
154			X														4766026		1			
155			X														4766027		1			
HA47-156	Roof off 3rd Floor / Roof FLASHING CAULK		X														4766028		1			
157			X														4766029		1			
158			X														4766030		1			
HA48-159	Roof off 3rd Floor / Roof CAULK PATCH		X														4766031		1			
160			X														4766032		1			
161			X														4766033		1			
HA49-162	Roof off 3rd Floor / Roof CAULK PATCH		X														4766034		1			

Released By (Signature)	Date/Time	Delivery Method	Received By (Signature)	Date/Time
Randolph Livingston	8/21/12 / 1500	VIA Mercury		

Comments:





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SAMPLE ID #	SAMPLE LOCATION/DESCRIPTION	COMP	GRAB	MATRIX					METHOD PRESERVED					SAMPLING		VOLUME (L)	TIME (MINUTES)	# OF CONTAINERS	ACM Bulk Plan	LABORATORY NUMBER
				WATER	SOIL	AIR	SLUDGE	OTHER	HCL	HNO3	H2SO4	ICE	NONE	OTHER	DATE					
HA49-163	ROOF OFF 3rd Floor / ROOF CAULK PATCH		X												8/20/12	4766035	1	X		
164			X												✓	4766036	1	✓		
HA01-82	1st Floor Lunchroom / PLASTER WALL		X												8/20/12	4766037	1	X		
83	1st Floor Hall to Classroom 112		X												↓	4766038	1	↓		
84	1st Floor South Hall Wall		X												↓	4766039	1	↓		
85	1st Floor Hall Outside Main Office		X												↓	4766040	1	↓		
86	1st Floor Girls Northwest Toilet Vestibule		X												↓	4766041	1	↓		
87	2nd Floor Classroom 202		X												↓	4766042	1	↓		
88	1st Floor Auditorium		X												↓	4766043	1	↓		
Released By (Signature)		Date/Time		Delivery Method					Received By (Signature)					Date/Time						
Randolph Livingston		8/21/12/1500		VIA Mercury																

Comments:



Environmental Design  
International inc.

CHAIN OF CUSTODY / ANALYSIS REQUEST FORM

33 West Monroe Street, Suite 1825, Chicago, IL 60603

P (312) 345-1400

F (312) 345-0529

Client: PBC

Date: 8-21-2012

Location: ALEXANDER GRAHAM BELL SCHOOL

Sampled by: RANDOLPH LIVINGSTON

ANALYSIS REQUESTED

Site Address: 3730 N. OAKLEY AVE., CHICAGO, IL

# of Samples: 1165

EDI Project #: 1260.028

Date Collected: 8-21-2012

Date Shipped: 8-21-2012

Date Results Needed: 72 hrs.

SAMPLE ID #	SAMPLE LOCATION/DESCRIPTION	COMP	GRAB	MATRIX						METHOD PRESERVED						SAMPLING		VOLUME (L)	TIME (MINUTES)	# OF CONTAINERS	ACM Bulk Pen	LABORATORY NUMBER
				WATER	SOIL	AIR	SLUDGE	OTHER	HCL	HNO3	H2SO4	ICE	NONE	OTHER	DATE	TIME						
HA01.1-89	1st Floor Hall Near Classroom 113A PLASTER CEILING		X													8-21-12	4766044		1	X		
90	LUNCHROOM		X													4766045		1				
91	1st Floor Boy's Southwest Toilet		X													4766046		1				
92	1st Floor Girl's Northwest Toilet		X													4766047		1				
93	2nd Floor Girl's Northwest Toilet		X													4766048		1				
94	2nd Floor Boy's Southwest Toilet		X													4766049		1				
95	3rd Floor Boy's Southwest Toilet		X													4766050		1				
Additional Duplicate Sample Label # 98																	4766051					

Released By (Signature) Randolph Livingston	Date/Time 8/21/12/1500	Delivery Method Via Mercury	Received By (Signature)	Date/Time
--	---------------------------	--------------------------------	-------------------------	-----------

Comments:



9000 Commerce Parkway, Suite B  
 Mount Laurel, NJ 08054  
 Toll Free 877-428-4285  
 Local: 856-231-9449  
 Fax: 856-231-9818

# CERTIFICATE OF ANALYSIS

**Client:** Environ. Design International  
 33 W Monroe, Suite 1825  
 Chicago IL 60603

**Report Date:** 9/5/2012  
**Report No.:** 284504  
**Project:** AlexanderGrahamBellSchool  
**Project No.:** 1261.028

## TEM BULK SAMPLE ANALYSIS SUMMARY

<b>IATL No.:</b> 124765977A	<b>Description / Location:</b> Tan/Brown Floor Tile	MDF Room
<b>Client No.:</b> HA37-129		

<b>Organic Fraction:</b>	92.8 %	
<b>Gravimetrically Reduced Subsample:</b>	7.20 %	
<b>Percent Asbestos Detected:</b>	ND	None Detected
<b>Percent Non-Asbestos Fibrous Material:</b>	ND	None Detected
<b>Percent Non-Fibrous Material:</b>	7.20 %	Other

**Comments:**

**NIST-NVLAP No. 101165-0**

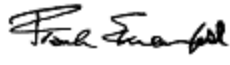
**AIHA-LAP, LLC No. 100188**

**NYS-DOH No. 11021**

**Methodology:** Transmission Electron Microscopy (TEM) In Accordance With :  
 ELAP 198.4 "Method For Identifying And Quantitating Asbestos In Non-Friable Organically Bound Bulk Samples", Revised 1/11/2005. EPA-600/R-93/116 Section 2.5 "Asbestos In Bulk Building Materials By TEM Gravimetry."

*IATL assumes that all sampling methods and data upon which these results are based have been accurately supplied by the client.  
 The "Gravimetrically Reduced Subsample" is the portion of the submitted sample remaining following the ashing and acid treatment processes. TEM analysis occurs on this portion of the sample. Final results are calculated to represent the sample as submitted.  
 This confidential report relates only to those item(s) tested and does not represent an endorsement by NIST-NVLAP, AIHA or any agency of the U.S. government.  
 Results are verifiable for only those operations and analyses performed in the laboratory.*

**Analysis Performed By:** C. Liska

**Approved By:**   
 Frank E. Ehrenfeld, III  
 Laboratory Director

**Date:** 9/5/2012

**Alyssa Peiffer**

---

**From:** Randolph Livingston <rlivingston@envdesigni.com>  
**Sent:** Tuesday, August 28, 2012 5:52 PM  
**To:** apeiffer@iatl.com  
**Cc:** Randolph Livingston  
**Subject:** Alexander Graham Bell School PLM Bulk Samples

Alyssa

Please correct the project number on the for the bulk sample analysis summary. It should be 1261.028 and not 1260.28. I know the coc's had mixed the numbers.

In addition, please analyze sample number HA37-129 – 4765977 utilizing TEM method for the 12" X 12" Cream w/Brown Specs vinyl floor tile.

Please contact me with any questions

Thanks

Randy

IATL # 283650

*[Handwritten signature]*

**Environmental Design International inc.**

33 West Monroe Street | Suite 1825 | Chicago, IL 60603-5326  
P 312.345.1400 F 312.345.0529

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RECEIVED  
AUG 31 2012  
IATL - By *[Signature]*



CHAIN OF CUSTODY / ANALYSIS REQUEST FORM

33 West Monroe Street, Suite 1825, Chicago, IL 60603

P (312) 345-1400

F (312) 345-0529

Client: PBC

Date: 8-10-12

Location: Alexander Graham Bell School

Sampled by: Raymond Cicewas

Site Address: 3730 N. Oakley

# of Samples: 165

EDI Project #: 1261.028

Date Collected: 8-10-12

Date Shipped: 8-21-12

Date Results Needed: 72 hrs.

SAMPLE ID #	SAMPLE LOCATION/DESCRIPTION	COMP	GRAB	MATRIX							METHOD PRESERVED						SAMPLING		VOLUME (L)	TIME (MINUTES)	# OF CONTAINERS	ACM Bulk PLM	LABORATORY NUMBER
				WATER	SOIL	AIR	SLUDGE	OTHER	HCL	HNO3	H2SO4	ICE	NONE	OTHER	DATE	TIME							
HA 36-123	12"x12" brown w/white marble specks Floor tile Lunchroom		X														8-10	4765971			X		
HA 36-124	↓ ↓ ↓ ↓ ↓ ↓ ↓																4765972						
HA 36-125	↓ ↓ ↓ ↓ ↓ ↓ ↓																4765973						
HA 36.1-126	12"x12" brown w/white marble specks floor tile mastic Lunchroom																4765974						
HA 36.1-127	↓ ↓ ↓ ↓ ↓ ↓ ↓																4765975						
HA 36.1-128	↓ ↓ ↓ ↓ ↓ ↓ ↓																4765976						
HA 37-129	12"x12" white cream w/ brown specks Floor tile MDF Room																4765977						
HA 37 130	↓ ↓ ↓ ↓ ↓ ↓ ↓																4765978						
HA 37 131	↓ ↓ ↓ ↓ ↓ ↓ ↓																4765979						
HA 37.1-132	12"x12" cream w/ brown specs floor tile mastic MDF ROOM																4765980						
HA 37.1-133	↓ ↓ ↓ ↓ ↓ ↓ ↓																4765981						
HA 37.1-134	↓ ↓ ↓ ↓ ↓ ↓ ↓																4765982						
HA A-76	2nd Fl boys washroom mudded fitting																4765983						

Released By (Signature)	Date/Time	Delivery Method	Received By (Signature)	Date/Time
Randolph Livingston	8/21/12/1500	Via Mercury		
	9.5.12			

Comments:

**Appendix D**  
**Photographic Log**



Photographic Log

Project Name	ACM Survey, Bell Elementary School, 3730 North Oakley Avenue, Chicago, Illinois
--------------	---

Project #: 1261.028  
Date: 08/08/2012  
Photographed By:  
Ray Cicenas

Description:  
12" x 12" Floor tile from  
Janitor's Closet (third  
floor)

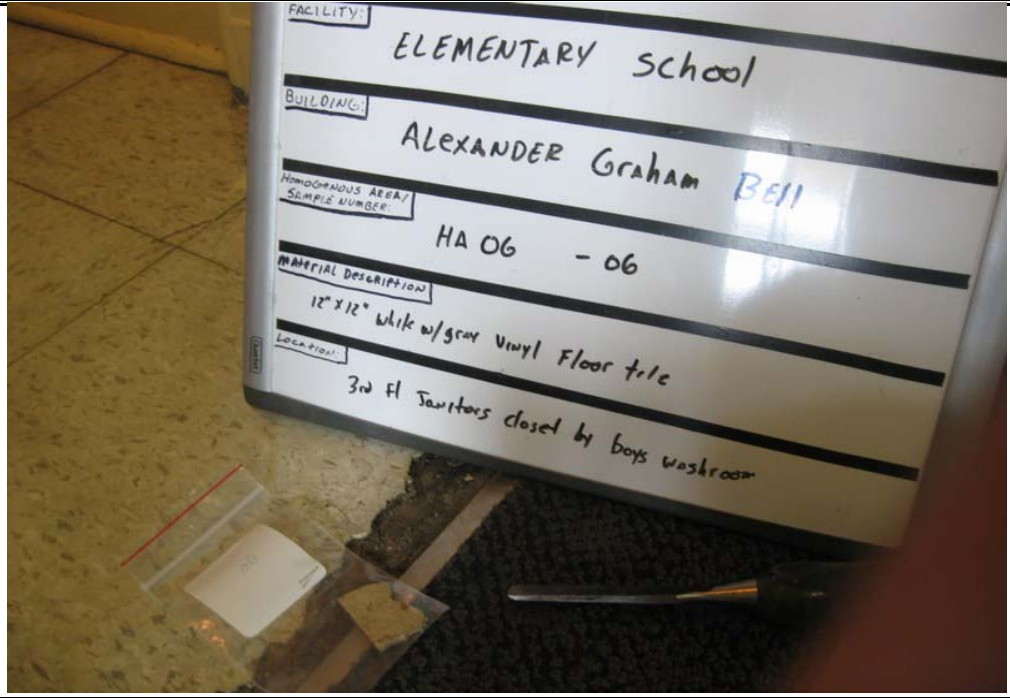


Photo #1

Project #: 1261.028  
Date: 08/08/2012  
Photographed By:  
Ray Cicenas

Description:  
12" x 12" Floor tile from  
Janitor's Closet (first  
floor)

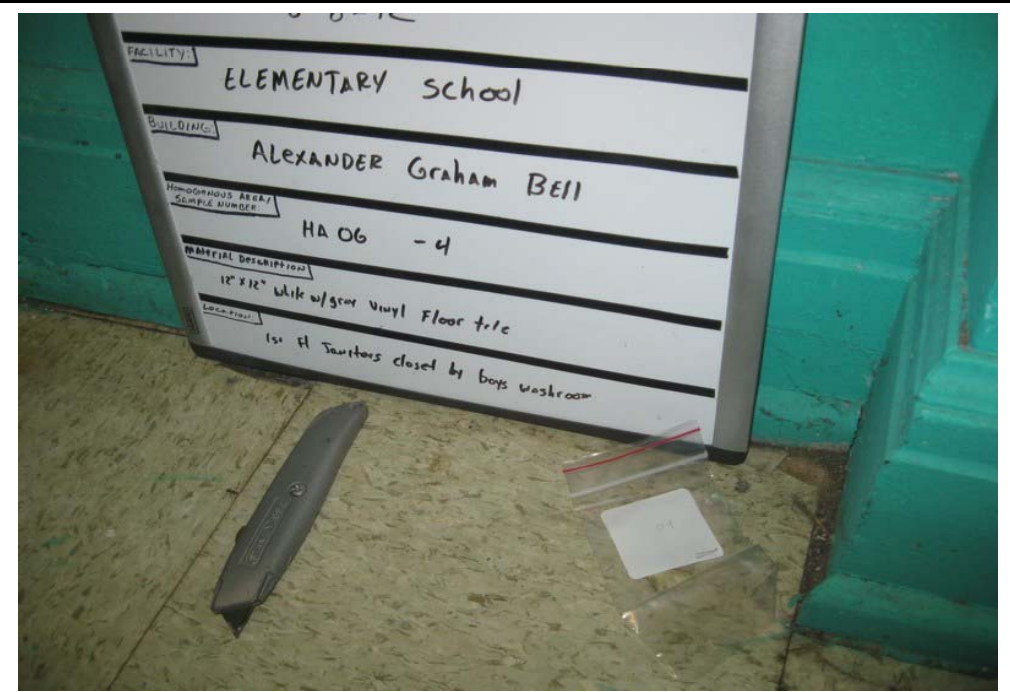
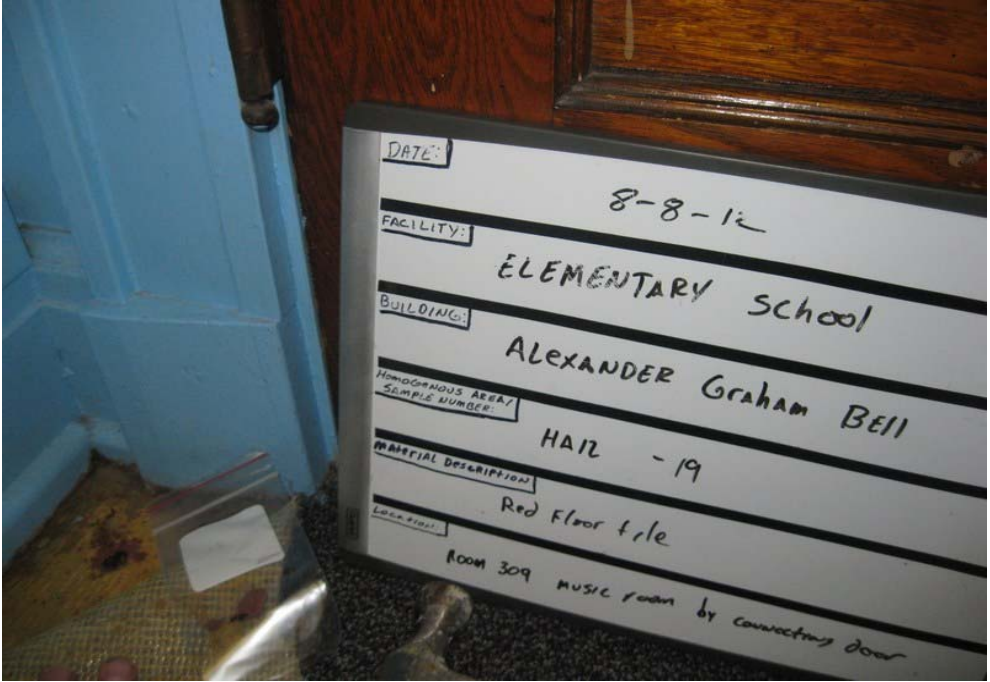
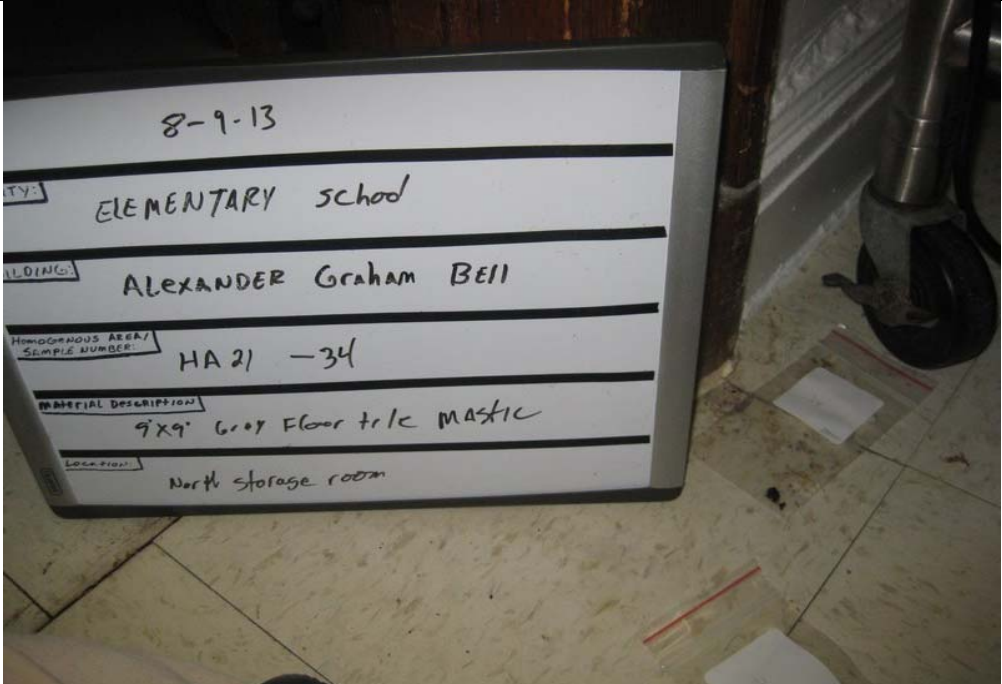


Photo #2

Photographic Log

Project Name	ACM Survey, Bell Elementary School, 3730 North Oakley Avenue, Chicago, Illinois
--------------	---

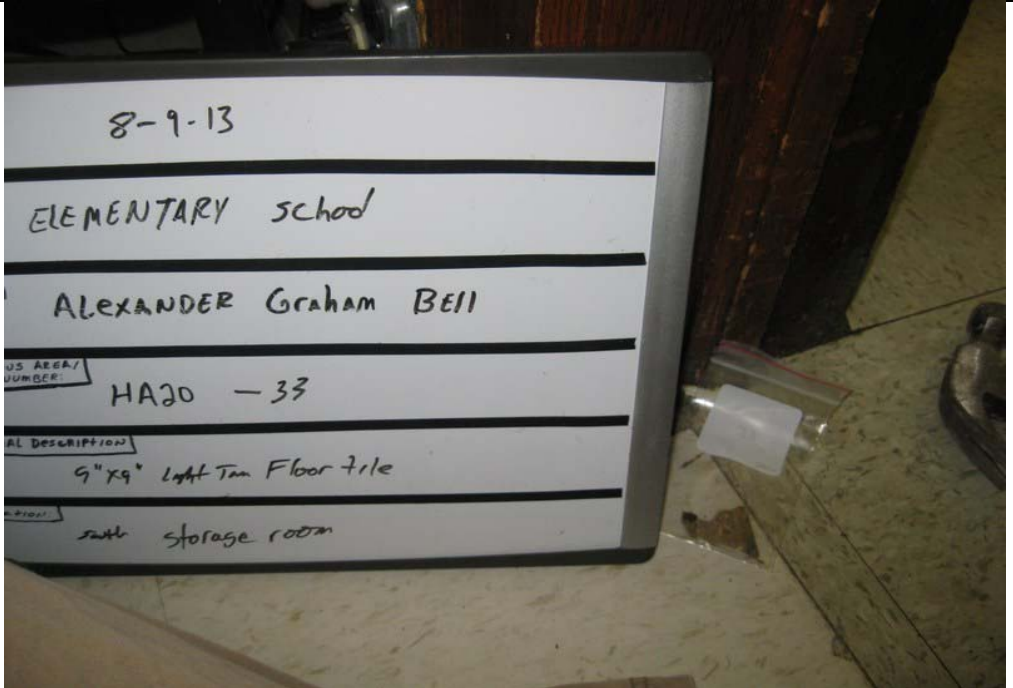
<p>Project #: 1261.028 Date: 08/08/2012 Photographed By: Ray Cicenas</p>	
<p>Description: 9" x 9" red floor tile near Room 309</p> <p>Photo #3</p>	

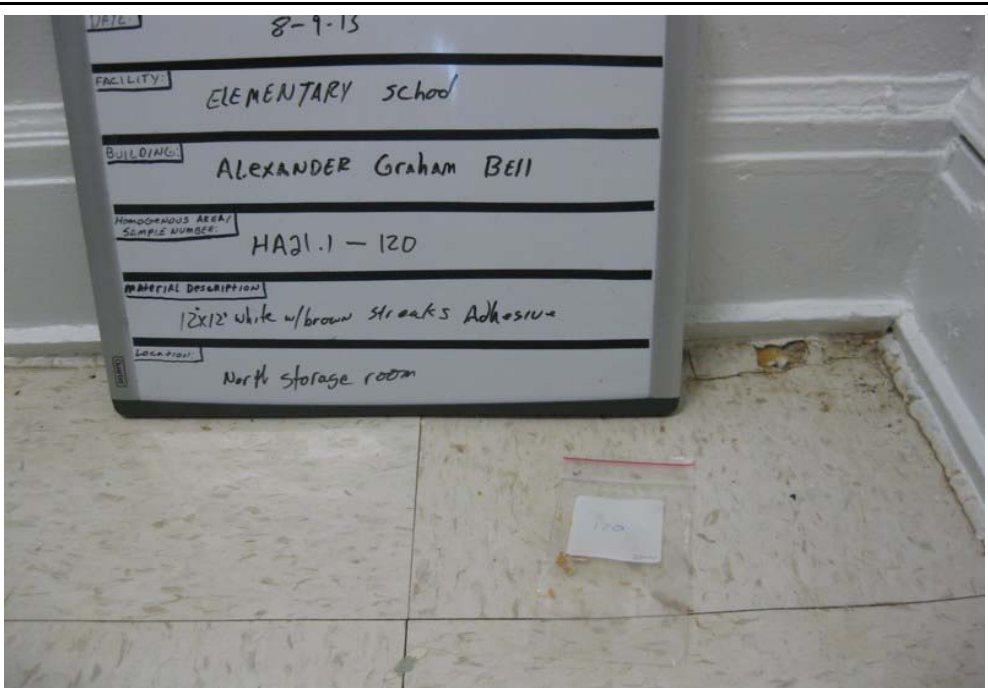
<p>Project #: 1261.028 Date: 08/09/2012 Photographed By: Ray Cicenas</p>	
<p>Description: 9" x 9" tan floor tile from Lunchroom North Storage Room</p> <p>Photo #4</p>	



Photographic Log

Project Name	ACM Survey, Bell Elementary School, 3730 North Oakley Avenue, Chicago, Illinois
--------------	---

<p>Project #: 1261.028          Date: 08/09/2012          Photographed By:          Ray Cicenas</p>	
<p>Description:          9" x 9" tan floor tile          from Lunchroom South          Storage Room</p> <p>Photo #5</p>	

<p>Project #: 1261.028          Date: 08/09/2012          Photographed By:          Ray Cicenas</p>	
<p>Description:          12" x 12" white floor          tile with brown specks          that was sampled in the          Kitchen</p> <p>Photo #6</p>	

Photographic Log

Project Name	ACM Survey, Bell Elementary School, 3730 North Oakley Avenue, Chicago, Illinois
--------------	---

Project #: 1261.028  
 Date: 08/09/2012  
 Photographed By:  
 Ray Cicenas

Description:  
 12" x 12" green floor  
 tile with gray specks that  
 was sampled in the  
 Lunchroom area

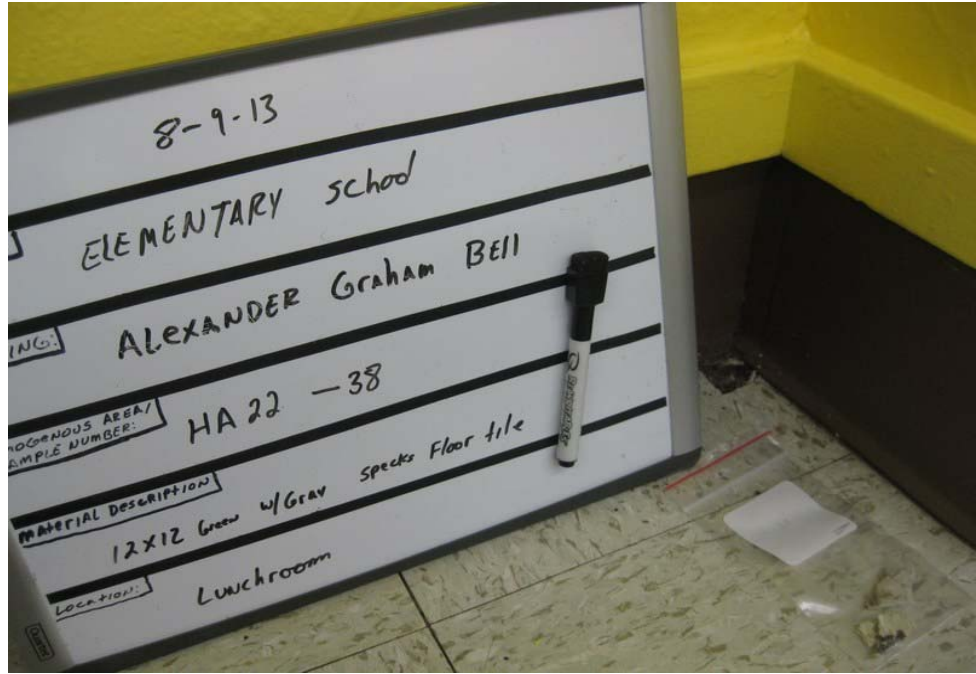


Photo #7

Project #: 1261.028  
 Date: 08/09/2012  
 Photographed By:  
 Ray Cicenas

Description:  
 12" x 12" white floor  
 tile with blue specks  
 from the Lunchroom  
 area

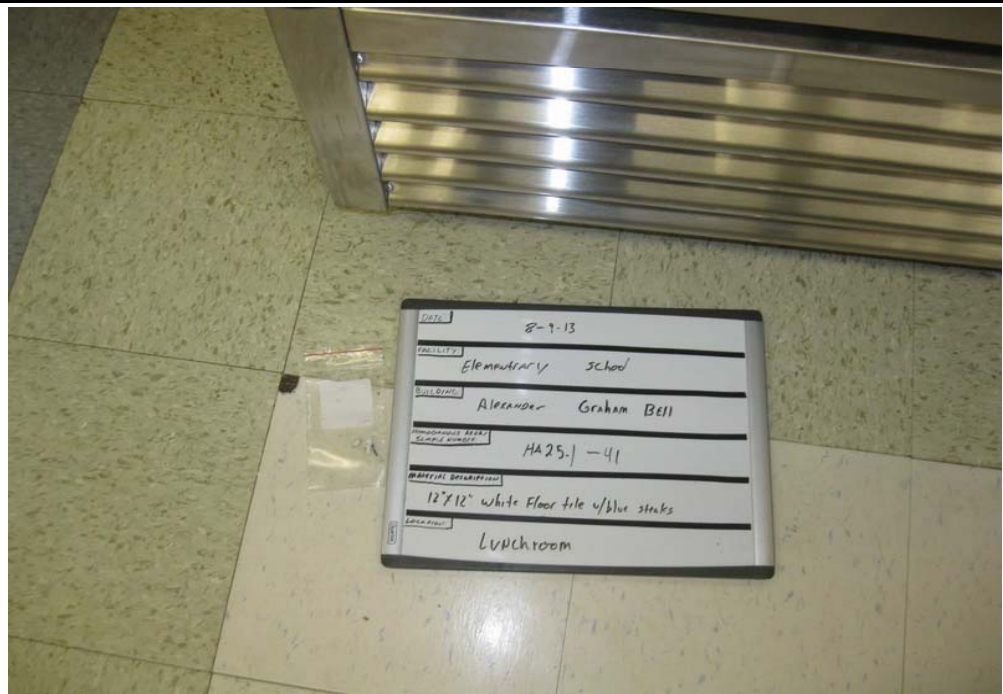


Photo #8

Photographic Log

Project Name	ACM Survey, Bell Elementary School, 3730 North Oakley Avenue, Chicago, Illinois
--------------	---

Project #: 1261.028  
Date: 08/09/2012  
Photographed By:  
Ray Cicenas

Description:  
12" x 12" blue/gray  
floor tile with gray  
specks from the  
Lunchroom area

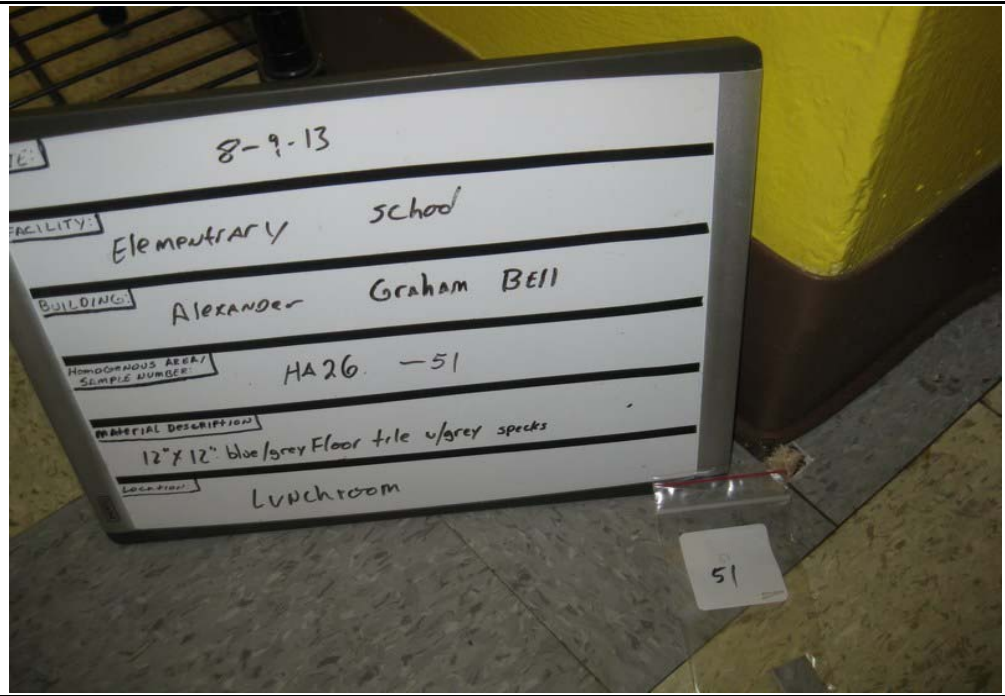


Photo #9

Project #: 1261.028  
Date: 08/09/2012  
Photographed By:  
Ray Cicenas

Description:  
12" x 12" tan floor tile  
with brown specks from  
the Lunchroom area

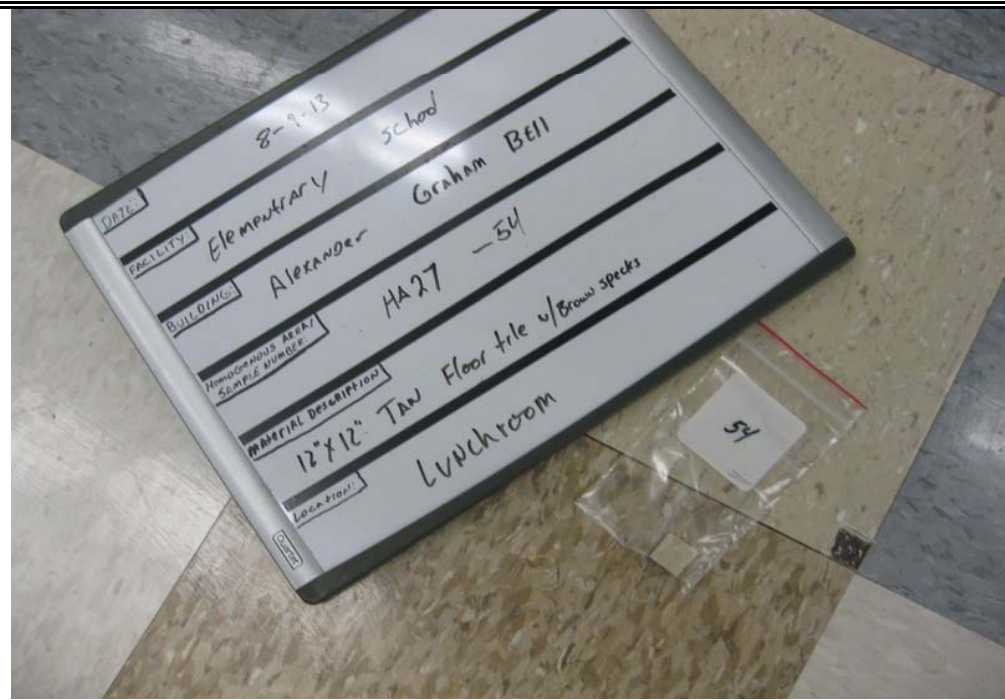
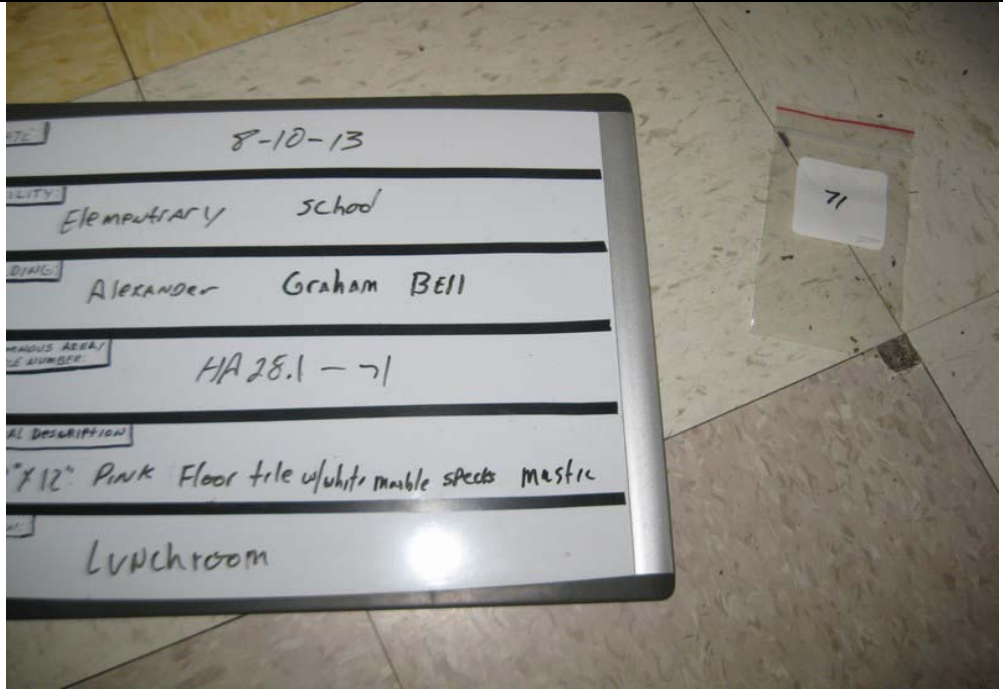


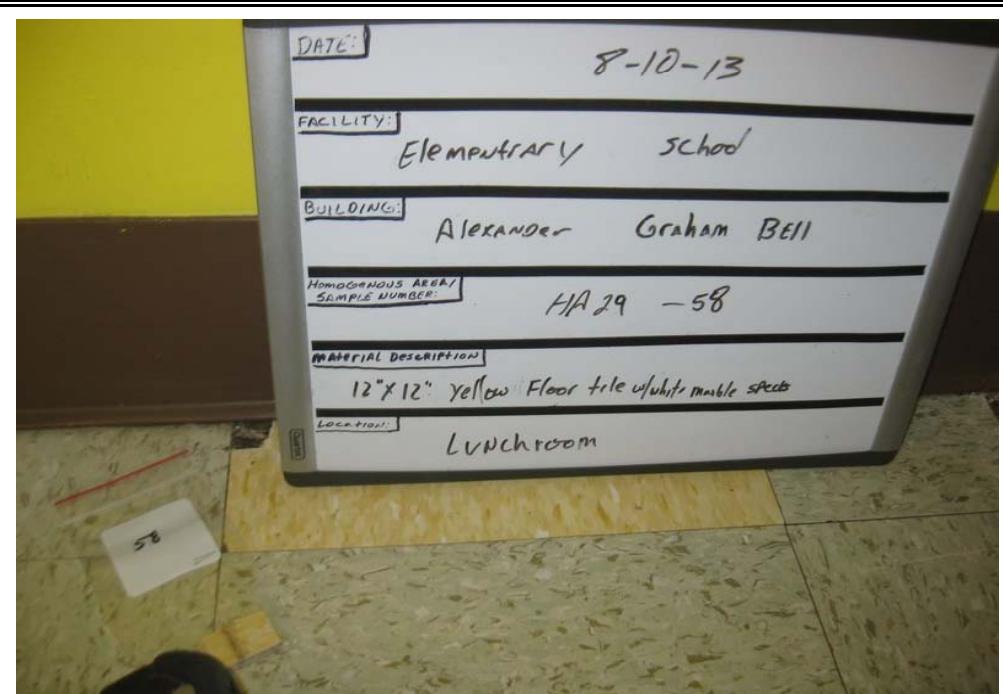
Photo #10



## Photographic Log

Project Name	ACM Survey, Bell Elementary School, 3730 North Oakley Avenue, Chicago, Illinois
--------------	---

<p>Project #: 1261.028          Date: 08/10/2012          Photographed By:          Ray Cicenas</p>	
<p>Description:          12" x 12" pink floor tile with white marble specks from the Lunchroom area</p>	
Photo #11	

<p>Project #: 1261.028          Date: 08/10/2012          Photographed By:          Ray Cicenas</p>	
<p>Description:          12" x 12" yellow floor tile with white marble specks from the Lunchroom area</p>	
Photo #12	

# Photographic Log

Project Name	ACM Survey, Bell Elementary School, 3730 North Oakley Avenue, Chicago, Illinois
--------------	---

Project #: 1261.028  
Date: 08/10/2012  
Photographed By:  
Ray Cicenas

Description:  
12" x 12" brown floor  
tile with white marble  
specks from the  
Lunchroom area

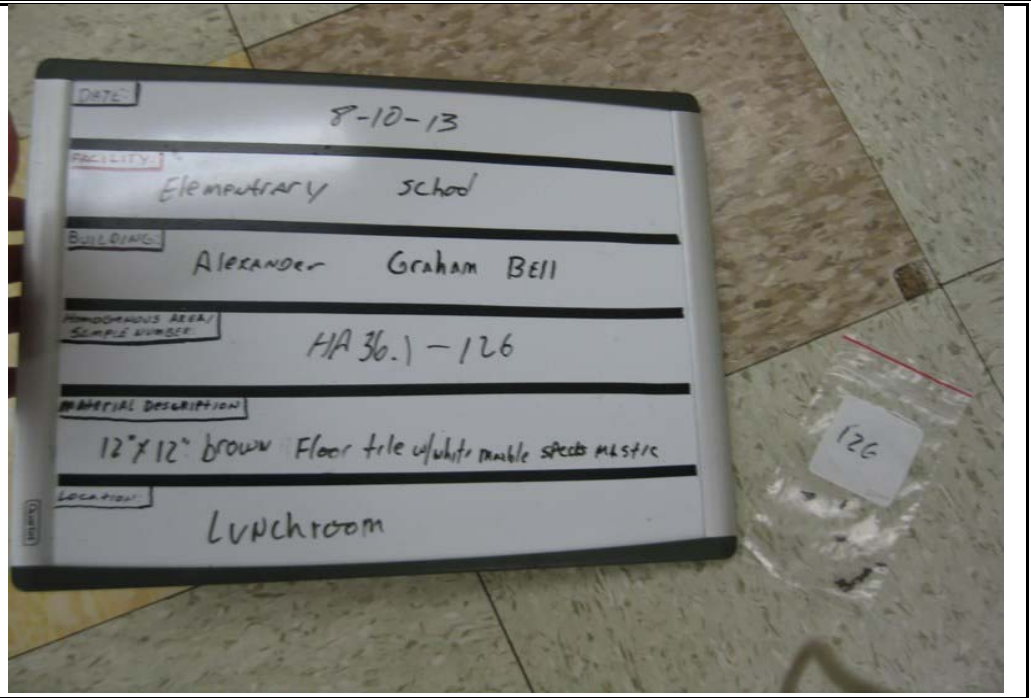


Photo #13

Project #: 1261.028  
Date: 08/10/2012  
Photographed By:  
Ray Cicenas

Description:  
Mudded fitting sampled  
from Boy's Bathroom on  
second floor  
(representative of all  
bathrooms)



Photo #14

Photographic Log

Project Name	ACM Survey, Bell Elementary School, 3730 North Oakley Avenue, Chicago, Illinois
--------------	---

<p>Project #: 1261.028          Date: 08/10/2012          Photographed By:          Ray Cienas</p>	
<p>Description:          Pre-formed pipe insulation sampled from Boy's Bathroom on second floor (representative of all bathrooms)</p> <p>Photo #15</p>	

<p>Project #: 1261.028          Date: 10/20/2012          Photographed By:          Randy Livingston</p>	
<p>Description:          Roof flashing material sampled from third floor roof</p> <p>Photo #16</p>	



Photographic Log

Project Name	ACM Survey, Bell Elementary School, 3730 North Oakley Avenue, Chicago, Illinois
--------------	---

Project #: 1261.028  
Date: 10/20/2012  
Photographed By:  
Randy Livingston

Description:  
Roof flashing caulk  
sampled from third floor  
roof



Photo #17

Project #: 1261.028  
Date: 08/20/2012  
Photographed By:  
Randy Livingston

Description:  
Roof caulk sampled  
from third floor roof



Photo #18

Photographic Log

Project Name	ACM Survey, Bell Elementary School, 3730 North Oakley Avenue, Chicago, Illinois
--------------	---

<p>Project #: 1261.028 Date: 10/20/2012 Photographed By: Randy Livingston</p>	
<p>Description: Roof caulk sampled from third floor roof</p>	
<p>Photo #19</p>	

<p>Project #: 1261.028 Date: 10/20/2012 Photographed By: Randy Livingston</p>	
<p>Description: Roofing patch sampled from third floor roof</p>	
<p>Photo #20</p>	



Photographic Log

Project Name ACM Survey, Bell Elementary School, 3730 North Oakley Avenue, Chicago, Illinois

Project #: 1261.028  
Date: 10/20/2012  
Photographed By:  
Randy Livingston

Description:  
Repaired roof patch  
sample location

Photo #21



Project #: 1261.028  
Date: 10/20/2012  
Photographed By:  
Randy Livingston

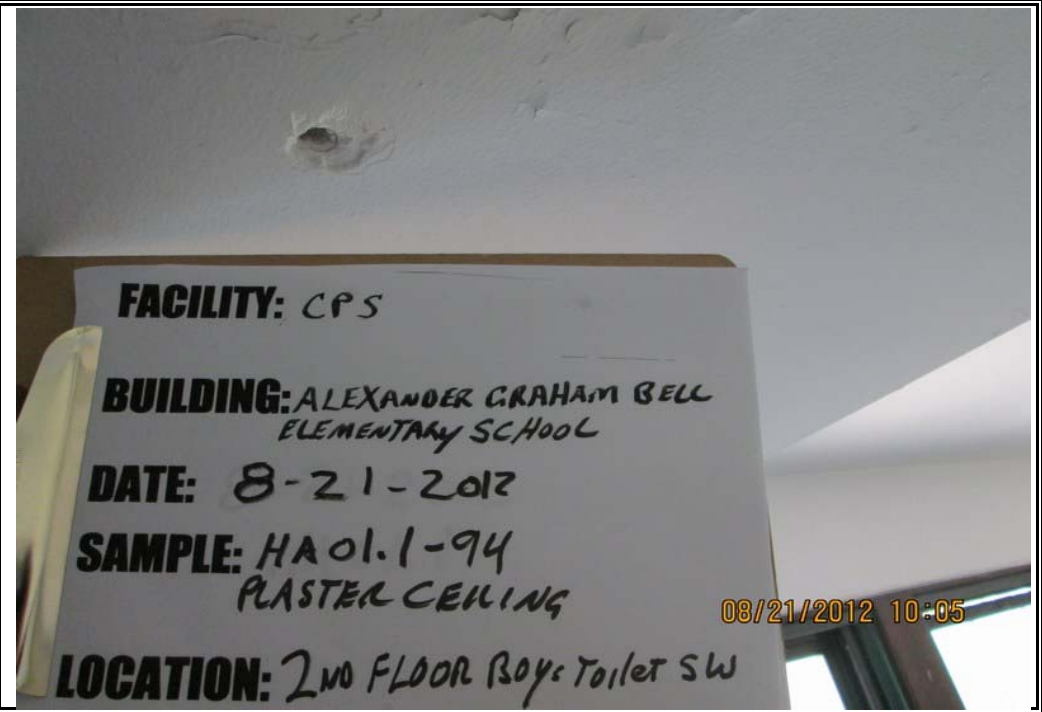
Description:  
Access point from third  
floor to third floor roof

Photo #22



Photographic Log

Project Name	ACM Survey, Bell Elementary School, 3730 North Oakley Avenue, Chicago, Illinois
--------------	---

<p>Project #: 1261.028 Date: 10/21/2012 Photographed By: Randy Livingston</p>	
<p>Description: Sample location for plaster ceiling</p> <p>Photo #23</p>	

<p>Project #: 1261.028 Date: 08/20/2012 Photographed By: Randy Livingston</p>	
<p>Description: Repaired plaster ceiling sample location</p> <p>Photo #24</p>	

## Figures

**Figure 1**

**Site Plan**





**Figure 2**

**Positive ACM Sample Locations – First Floor**



**Figure 3**

**Positive ACM Sample Locations – Second Floor**





**Figure 4**

**Positive ACM Sample Locations – Third Floor**



**Figure 5**

**Positive ACM Sample Locations – Rooftop**





*Environmental Design  
International inc.*

Engineers · Scientists · Surveyors

33 West Monroe, Suite 1825  
Chicago, IL 60603-5326

phone: 312-345-1400  
fax: 312-345-0529  
web: envdesigni.com

December 10, 2012

Mr. Arthur Del Muro, AIA LEED AP  
Senior Design Project Manager  
Public Building Commission of Chicago  
50 West Washington Street  
Chicago, Illinois 60602

**Subject: Hazardous Materials Survey  
Alexander Graham Bell Elementary School  
3730 North Oakley Avenue  
Chicago, Illinois 60618**

Dear Mr. Del Muro:

Enclosed please find the Final Hazardous Materials and Universal Waste Survey Report completed by Environmental Design International inc (EDI) for the facility mentioned above. This report presents the findings from inspection activities that were completed by EDI's industrial hygiene professionals at the subject property from August 8 through August 9, 2012.

Please feel free to call me at 312-345-8676 or Gary Flentge at 312-345-8679 if you have any questions about the presented information. On behalf of EDI, I would like to thank you for the opportunity to provide you with Industrial Hygiene services for this project and hope that we can provide additional support for future projects.

Respectfully,

**Environmental Design International inc.**

A handwritten signature in blue ink, appearing to read 'GAD', with a long, sweeping underline that extends to the right.

Garth A. Daley, P.E.  
Environmental Engineer

## **Hazardous Materials and Universal Waste Survey**

### **Project Site:**

**Alexander Graham Bell Elementary School  
3730 North Oakley Avenue  
Chicago, Illinois 60618**

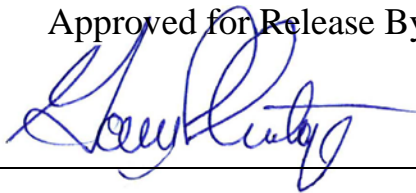
### **Prepared for:**

**Public Building Commission of Chicago  
50 West Washington Street  
Chicago, Illinois 60602**

### **Prepared by:**

**Environmental Design International inc.  
33 West Monroe Street  
Suite 1825  
Chicago, Illinois 60603  
EDI Project No. 1261.028.03**

Approved for Release By:



---

Gary P. Flentge, MPH, LEHP, REA  
Vice President, Industrial Hygiene



December 10, 2012

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Executive Summary ..... 1  
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    1.1 Project Purpose and Background ..... 2  
    1.2 Scope of Work ..... 3  
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    2.1 Hazardous Material Survey Methodology ..... 4  
    2.2 Results..... 4  
3.0 Findings and Recommendations ..... 5  
4.0 Limitations ..... 6

Appendices

- Appendix A: Hazardous Material/Universal Waste Inventory (Original)
- Appendix B: Hazardous Material/Universal Waste Inventory (For Disposal)
- Appendix C: Photographic Log

Figures

- Figure 1: Site Plan
- Figure 2: Hazardous Material Locations – First Floor
- Figure 3: Hazardous Material Locations – Second Floor
- Figure 4: Hazardous Material Locations – Third Floor



## **Executive Summary**

Environmental Design International inc. (EDI) was retained by the Public Building Commission of Chicago (PBC) to perform a Hazardous Material and Universal Waste (haz mat) survey at the Alexander Graham Bell Elementary School (Bell School) located at 3730 North Oakley Avenue in Chicago, Illinois. Bell School is an active 3-story elementary school in the Chicago Public School (CPS) system that is slated to undergo renovations and the addition of a 2-story addition. The haz mat survey consisted of the inspection of the interior and exterior areas of the building for suspect hazardous materials, universal waste and notable non-hazardous material; followed by the inventorying and quantification of the discovered materials. EDI performed the haz mat survey on Wednesday, August 8, 2012 and Thursday, August 9, 2012.

Upon arriving at the Site on August 8, 2012, EDI's Industrial Hygienist, Randolph Livingston, met with Mr. Gary Dehne, the Building Engineer for Bell School. Mr. Dehne took Mr. Livingston on a tour of the building during which Mr. Livingston was able to determine where target materials were located. Among the hazardous and non-hazardous materials that Mr. Livingston looked for were components and devices that may contain polyvinyl chlorinated biphenyls (PCBs); components and devices that may contain mercury; laboratory chemicals; household chemicals, such as cleaning products, petroleum products, and compressed gas cylinders; and other hazardous (and non-hazardous) materials that would/may require removal or management during the performance of the planned renovation activities. It should be noted that no samples were collected from the observed materials and that categorization of these materials is based on professional experience.

Among the identified materials from this Haz mat survey were mercury-containing fluorescent bulbs, possible PCB-containing light ballasts, battery packs for Emergency Lighting units, laboratory chemicals, household cleaning products, landscaping products, various paints and paint-related products, and air-conditioning units that may contain Freon or another chlorofluorocarbon (CFC).

Prior to renovation activities in any of the noted locations, the identified hazardous materials should be relocated for future reuse (laboratory chemicals, cleaning products and landscaping products), consolidated for recycling (mercury-containing light bulbs) or disposed of in accordance with applicable federal, state and local regulations (hazardous materials).

In completing this haz mat survey, EDI was as thorough and comprehensive as possible. However, EDI does not attest to having located every material present at the Bell School. As such, any suspect haz mat or universal waste identified during renovation activities that is not specifically listed in this report should be thoroughly evaluated, assessed, sampled, and analyzed prior to disturbance, in accordance with applicable regulatory standards.

## **1.0 Introduction**

EDI was tasked, under contract number PS1569D and Task Order 05330-PS-1651D-001, to provide Phase II Environmental demolition and renovation services at the Bell School in Chicago, Illinois. The requested services included completing a haz mat survey and developing an environmental renovation cost estimate. These tasks were in support of activities associated with the planned 2-story addition to the existing building.

This report presents information related to the performance of the Haz mat survey at the Bell School located at 3730 North Oakley Avenue in Chicago, Illinois. The property is bound by North Claremont Avenue to the west, West Grace Street to the north, North Oakley Avenue to the east, and West Waveland Avenue to the south. Figure 1 of this report shows the location of Bell School.

Bell School is an active CPS elementary school that currently consists of a 3-story, 96,000 square foot (ft<sup>2</sup>) brick building with a crawl space beneath the Auditorium area. The school, which is located in an urban, primarily residential neighborhood, provides Pre-Kindergarten to 8<sup>th</sup> grade educational services to children through neighborhood attendance, Regional Gifted and Talent, and Deaf curriculum/programs.

The material identification and inventorying activities were performed by EDI Industrial Hygienist Randolph Livingston on August 8 and August 9, 2012. A list of the identified materials and their estimated quantities are provided in Appendix A.

This original list was submitted to Bell School personnel who identified materials that they intended to retain for future use at the school or would manage on their own. A revised list is included as Appendix B and represents material that would need to be managed as part of the planned renovation and demolition activities to facilitate the construction of the 2-story addition.

### **1.1 Project Purpose and Background**

The purpose of this haz mat survey was to identify and quantify suspect hazardous materials, including Universal Wastes, (and non-hazardous materials) primarily in areas of the existing building that would be impacted by the renovation activities related to the construction of the planned addition to the Bell School building.

The Bell School property is a rectangular parcel approximately 4.0 acres in size. A brick three-story educational building with four wings currently occupies the property. Asphalt pavement is present along the south, southeast, and southwest sides of the Bell School building. A small playground is also located at the southwest portion of the building. To the north and northeast of the Bell School building are a playground and a turf field, respectively.

## **1.2 Scope of Work**

The haz mat survey consisted of the inspection of accessible portions of the interior and exterior areas of the building for suspect hazardous (and non-hazardous) materials, such as PCB-containing components, mercury-containing components, chemicals, and other hazardous (and non-hazardous) products. The survey was completed in accordance with standard industry protocol.

## **2.0 Hazardous Material Survey**

### **2.1 Hazardous Material Survey Methodology**

EDI's industrial hygienist performed a visual survey in the areas planned for renovation or demolition activities for suspect hazardous materials and universal wastes that are regulated under the United States Environmental Protection Agency (USEPA) Resource Conservation and Recovery Act (RCRA) and Toxic Substances Control Act (TSCA) regulations for hazardous waste management. Suspect materials were identified, quantified, recorded on a field log, and photographed. The suspect materials were not sampled, therefore, these materials should be presumed to be hazardous until sampling confirms otherwise. Some of these photographs are presented in Appendix C of this report.

### **2.2 Results**

In conducting the haz mat inventory, Mr. Livingston identified and quantified materials on all three floors of the Bell School building. Among the known and suspected hazardous materials and universal wastes identified during the inventory were:

- fluorescent light bulbs and light ballasts (on all three floors);
- battery packs for Emergency lighting units (on all three floors);
- air-conditioning units on the first floor;
- A mercury thermometer in Room 112;
- Chlorox wipes and Lysol cleaner in Room 112;
- Various paints, paint-related products, and other products in the Boiler Room;
- High Intensity Multi-Vapor® light bulbs in the Gymnasium on the third floor;
- Various laboratory chemicals in Room 314B; and
- Various cleaning products, including Chlorox bleach, Spic and Span cleaner and Tilex, in Room 314B.

A comprehensive list of the discovered materials, including approximate quantities, is included in this report as Appendix A. Materials and quantities ranged from laboratory chemicals in 500 milliliter containers to 820 fluorescent bulbs in the Auditorium. These locations are presented visually in Figures 2 through 4 of this report.

Materials that will potentially need to be disposed of or recycled offsite as a result of the planned renovation and demolition activities at Bell School are presented in Appendix B.

### **3.0 Findings and Recommendations**

Among the materials identified in the Bell School Building during the visual haz mat survey were fluorescent lighting, light ballasts, air-conditioning units, laboratory chemicals, household cleaners, various products and a mercury thermometer. It should however be noted that not all of the identified material will need to be disposed of or otherwise managed off site since the Bell School wishes to keep select cleaning and other products for appropriate use in the future.

Suspect hazardous materials and universal wastes should be removed, handled, and recycled/disposed of in accordance with applicable federal, state, and local regulations. EDI recommends that hazardous wastes located in parts of the building where renovation activities will be performed either be temporarily relocated for future reuse or be disposed of at a permitted facility. Similarly, all universal wastes (mercury-containing devices, fluorescent light bulbs, etc.) that will be affected by renovation or demolition activities should be collected and packaged for appropriate recycling.

#### **4.0 Limitations**

This survey is based solely on the scope of work provided and the assumptions identified in this survey. Any new information that becomes available concerning the subject site should be provided to EDI so that our evaluations, conclusions, and recommendations may be revised and modified accordingly. EDI staff walked the site with the building engineer, Mr. Dehne, to identify accessible areas where potentially hazardous materials may be stored and to include those locations in the survey. Any suspect hazardous material identified during renovation that is not specifically listed herein should be thoroughly assessed prior to disturbance, in accordance with applicable regulatory standards.

The findings and conclusions in this survey are not specific certainties; rather they are probabilities based on professional judgment concerning the significance of the data collected. EDI claims to represent only the specific findings documented herein and does not claim knowledge of conditions beyond the scope of the survey. The haz mat survey was conducted in a manner consistent with that level of care and skill ordinarily exercised by members of the environmental profession under similar conditions. No other warranty or guarantee, express or implied, is included or intended in this report or otherwise

This survey is intended for the use of the PBC and CPS, subject to the terms and conditions of Contract PS1569D and Task Order 05330-PS-1651D-001 dated July 30, 2012.

## **Appendices**



**Appendix A**

**Hazardous Material/Universal Waste Inventory (Original)**



ENVIRONMENTAL DESIGN INTERNATIONAL inc  
 33 West Monroe Street, Suite 1825  
 Chicago, Illinois 60603  
 Phone 312-345-1400  
 Fax 312-345-0529

**TABLE I**  
**Hazardous Materials and Universal Waste Inventory (Original)**  
**Alexander Graham Bell Elementary School**

LOCATION	MATERIAL	QUANTITY
Boiler Room	Mercury Fluorescent Light Bulbs Concentrate ARS Motsenbocker' s Liftoff Touch & Tender Gojo Hand Cleaner Rust-Oleum Protective Enamel Isopropyl Alcohol Spectracide Rust-Oleum Kona Brown Rust-Oleum High Performance Protective Enamel Sherwin William Interior Latex Paint Dutch Boy Paint Eggshell Industrial Enamel HS Sherwin William Paint Paint Thinner Sherwin William Nomar – 200 Weed B gone Preen Weed Preventer Wood Floor Finish Coliseum 450 Dutch Boy Dura Clean Egg Shell A Cycle Oil Peni Glue ACC Paint Metallic Fish Brake Gold CP-11 Weather Barrier Mastic Easyliving Gold Sheer Metallic Paint TFE Past Flame Buster High Heat Silicone 3-M Fire Barrier Sealant Heavy Duty Silicone Spray Open N Shut Nut & Bolt Looser Grafite #635 Dutch Boy Technique Finish Minwax Wipe On Polyurethane Minwax Best Dry Polyurethane Zar Satin Stain Cherry 116 Lubriplate	1-32 oz. Container 1-32 oz. Container 1-3 oz. Container 2-1-Gallon Containers 1-30 oz. Container 1-32 oz. Container 1-Gallon Container 1-32 oz. Container 1-Gallon Container 1-Gallon Container 3-Quart Container 5-Gallon Container 5-Quart Container 1-Gallon Container 5-Gallon Container 5-Gallon Container 2-lb container 5-Gallon Container 5-Gallon Container 1-16 oz. Container 1-16 oz. Container 1-8 oz. Container 2-1-Gallon Containers 1-30 oz. Container 1-16 oz. Container 1-10 oz. Container 1-20 oz. Container 1-7 oz. Container 1-20 oz. Container 16-lb container 1- Quart Container 1-32 oz. Container 1- Quart Container ½ Pint Container 5-lb container
1 <sup>st</sup> Floor Northwest Toilet	Mercury Fluorescent Light Bulbs	10 – 4 foot
1 <sup>st</sup> Floor Classroom 102	Mercury Fluorescent Light Bulbs	84 – 4 foot
1 <sup>st</sup> Floor Main Office 100	Mercury Fluorescent Light Bulbs Air Conditioning Unit	52 – 4 foot 1
1 <sup>st</sup> Floor Hall of Vestibule	Mercury Fluorescent Light Bulbs	48 – 4 foot
1 <sup>st</sup> Floor Auditorium	Mercury Fluorescent Light Bulbs	820 – 4 foot
1 <sup>st</sup> Floor Halls Off Auditorium	Mercury Fluorescent Light Bulbs	18 – 4 foot
1 <sup>st</sup> Floor South Hall Window Wall	Mercury Fluorescent Light Bulbs	1 – 4 foot
1 <sup>st</sup> Floor Southwest Toilet	Mercury Fluorescent Light Bulbs	8 – 4 foot
1 <sup>st</sup> Floor Main Hallway	Battery Packs for Emergency Lighting	4



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 33 West Monroe Street, Suite 1825  
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 Phone 312-345-1400  
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LOCATION	MATERIAL	QUANTITY
1 <sup>st</sup> Floor MDF Room	Mercury Fluorescent Light Bulbs Air Conditioning Unit	12 – 4 foot 1
1 <sup>st</sup> Floor Lunchroom	Mercury Fluorescent Light Bulbs Air Conditioning Unit	80 – 4 foot 2
1 <sup>st</sup> Floor Kitchen	Mercury Fluorescent Light Bulbs	
1 <sup>st</sup> Floor Classroom 112	Mercury Fluorescent Light Bulbs Mercury Thermometer Rite Liquid Dye	106 – 4 foot 1 7 – 8 oz. Containers
1 <sup>st</sup> Floor Library Room 106	Mercury Fluorescent Light Bulbs Latex Enamel Paint Clorox Wipes Lysol Spray Glass Cleaner – Windex and Generic	92 – 4 foot 3 – gallons 2- quarts 1- 9 oz. Container
2 <sup>nd</sup> Floor Southwest Toilet	Mercury Fluorescent Light Bulbs	14 – 4 foot
2 <sup>nd</sup> Floor Halls Off Auditorium	Mercury Fluorescent Light Bulbs	20 – 4 foot
2 <sup>nd</sup> Floor Northwest Toilet	Mercury Fluorescent Light Bulbs	10 – 4 foot
2 <sup>nd</sup> Floor Classroom 202	Mercury Fluorescent Light Bulbs	84 – 4 foot
2 <sup>nd</sup> Floor South Hall Window Wall	Mercury Fluorescent Light Bulbs	1 – 4 foot
2 <sup>nd</sup> Floor Main Hallway	Battery Pack for Emergency Lighting	4
2 <sup>nd</sup> Floor Auditorium Balcony	Mercury Fluorescent Light Bulbs	
3 <sup>rd</sup> Floor Northwest Toilet	Mercury Fluorescent Light Bulbs	10 – 4 foot
3 <sup>rd</sup> Floor Gym	High Density Multi-Vapor® Light Bulbs	10
3 <sup>rd</sup> Floor Music Room	Mercury Fluorescent Light Bulbs	10 – 4 foot
3 <sup>rd</sup> Floor Main Hallway	Battery Pack for Emergency Lighting	4
3 <sup>rd</sup> Floor Southwest Toilet	Mercury Fluorescent Light Bulbs	14 – 4 foot
3 <sup>rd</sup> Floor Classroom 314A	Mercury Fluorescent Light Bulbs	36 – 4 foot



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 Chicago, Illinois 60603  
 Phone 312-345-1400  
 Fax 312-345-0529

<p>3<sup>rd</sup> Floor Classroom 314B</p>	<p>Mercury Fluorescent Light Bulbs          Ammonium Thiocyanate          Calcium Carbonate          Calcium Chloride Solution          Universal Indicator Solution          Potassium Iodide Solution          Sodium Carbonate Solution          Potassium Chloride          Silver Nitrate Solution          Methylene Blue Solution          Iodine Tincture          Isopropyl Alcohol          Propane          Hydrogen Peroxide          Battery Acid          Zinc          Hypochlorite Solution          Nitrogen Dioxide Absorbing Solution          Sulfuric Acid          Lead in Air Absorbing Solution          Sulfur Dioxide Indicator          Hydrochloric Acid          Lead Dithizone Reagent          Pepsin          Lime Water Tablets          Potassium Hydroxide          Hydrochloric Acid          Buffer Solution pH7          Sodium Hydroxide Solution          Ammonium Nitrate          Potassium Ferrocyanide          Luminol          Bromthymol Blue          Ammonium Tablets          Potassium Hydroxide Solid          Tilex          Saline Solution          Chloride Bleach          Orange Cleaner          Spic + Span Cleaner</p>	<p>84 – 4 foot          2- 5 oz containers          1-500 grams container          1-500 ml container          1- 500 ml container          1- 500 ml container          1- 500 ml container          1- 500 ml container          1- 500 ml container          1- 100 ml container          15- 1 oz containers          13- 16 fluid oz. and 1- ml container          3- 1 oz. bottles + 14-1 oz. container          1- 12 oz. container          1- 12 oz. bottle          1- 500 gram container          1- 500 ml container          1- 480 ml container          1- liter container          1- 400 ml container          1- 120 ml container          1- 60 ml container          1- 200 ml container          1- 100 grams container          1- 100 tablets container          1- 100 grams container          1- 1,400 ml container          1- 1,000 ml container          1- 1,300 ml + 1- grams containers          1- 500 grams container          1- 5 grams container          1- 1 gram container          1- 500 ml container          1- 20 tablet container          1- 500 gram container          1- 32 oz. container          1- 1 gallon container          1- 1 gallon container          1- 65 oz container          1- 16 oz. container</p>
--	---	--

## **Appendix B**

### **Hazardous Material/Universal Waste Inventory (For Management/Disposal)**



ENVIRONMENTAL DESIGN INTERNATIONAL inc  
 33 West Monroe Street, Suite 1825  
 Chicago, Illinois 60603  
 Phone 312-345-1400  
 Fax 312-345-0529

**TABLE II**  
**Hazardous Materials and Universal Waste Inventory (For Management/Disposal)**  
**Alexander Graham Bell Elementary School**

<b>LOCATION</b>	<b>MATERIAL</b>	<b>QUANTITY</b>
Boiler Room	Mercury Fluorescent Light Bulbs	
1 <sup>st</sup> Floor Northwest Toilet	Mercury Fluorescent Light Bulbs	10 – 4 foot
1 <sup>st</sup> Floor Main Office 100	Mercury Fluorescent Light Bulbs	52 – 4 foot
1 <sup>st</sup> Floor Hall of Vestibule	Mercury Fluorescent Light Bulbs	48 – 4 foot
1 <sup>st</sup> Floor Auditorium	Mercury Fluorescent Light Bulbs	820 – 4 foot
1 <sup>st</sup> Floor Halls Off Auditorium	Mercury Fluorescent Light Bulbs	18 – 4 foot
1 <sup>st</sup> Floor South Hall Window Wall	Mercury Fluorescent Light Bulbs	1 – 4 foot
1 <sup>st</sup> Floor Southwest Toilet	Mercury Fluorescent Light Bulbs	8 – 4 foot
1 <sup>st</sup> Floor Main Hallway	Battery Packs for Emergency Lighting	4
1 <sup>st</sup> Floor MDF Room	Mercury Fluorescent Light Bulbs	12 – 4 foot
1 <sup>st</sup> Floor Lunchroom	Mercury Fluorescent Light Bulbs	80 – 4 foot
1 <sup>st</sup> Floor Kitchen	Mercury Fluorescent Light Bulbs	
1 <sup>st</sup> Floor Library Room 106	Mercury Fluorescent Light Bulbs	92 – 4 foot
2 <sup>nd</sup> Floor Southwest Toilet	Mercury Fluorescent Light Bulbs	14 – 4 foot
2 <sup>nd</sup> Floor Halls Off Auditorium	Mercury Fluorescent Light Bulbs	20 – 4 foot
2 <sup>nd</sup> Floor Northwest Toilet	Mercury Fluorescent Light Bulbs	10 – 4 foot
2 <sup>nd</sup> Floor Classroom 202	Mercury Fluorescent Light Bulbs	84 – 4 foot
2 <sup>nd</sup> Floor South Hall Window Wall	Mercury Fluorescent Light Bulbs	1 – 4 foot
2 <sup>nd</sup> Floor Main Hallway	Battery Pack for Emergency Lighting	4
2 <sup>nd</sup> Floor Auditorium Balcony	Mercury Fluorescent Light Bulbs	
3 <sup>rd</sup> Floor Northwest Toilet	Mercury Fluorescent Light Bulbs	10 – 4 foot
3 <sup>rd</sup> Floor Gym	High Density Multi-Vapor® Light Bulbs	10
3 <sup>rd</sup> Floor Music Room	Mercury Fluorescent Light Bulbs	10 – 4 foot
3 <sup>rd</sup> Floor Main Hallway	Battery Pack for Emergency Lighting	4
3 <sup>rd</sup> Floor Southwest Toilet	Mercury Fluorescent Light Bulbs	14 – 4 foot



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 Chicago, Illinois 60603  
 Phone 312-345-1400  
 Fax 312-345-0529

3 <sup>rd</sup> Floor Classroom 314B	Mercury Fluorescent Light Bulbs	84 – 4 foot
	Ammonium Thiocyanate	5 oz. containers (2)
	Calcium Carbonate	500 grams container (1)
	Calcium Chloride Solution	500 ml. container (1)
	Universal Indicator Solution	500 ml. container (1)
	Potassium Iodide Solution	500 ml. container (1)
	Sodium Carbonate Solution	500 ml. container (1)
	Potassium Chloride	500 ml. container (1)
	Silver Nitrate Solution	500 ml. container (1)
	Methylene Blue Solution	100 ml. container (1)
	Iodine Tincture	1 oz. containers (15)
	Isopropyl Alcohol	16 fluid oz. (13), 1 ml. container (1)
	Hydrogen Peroxide	12 oz. container (1)
	Battery Acid	12 oz. bottle (1)
	Zinc	500 gram container (1)
	Hypochlorite Solution	500 ml container (1)
	Nitrogen Dioxide Absorbing Solution	480 ml container (1)
	Sulfuric Acid	1- liter container (1)
	Lead in Air Absorbing Solution	400 ml. container (1)
	Sulfur Dioxide Indicator	120 ml. container (1)
	Hydrochloric Acid	60 ml. container (1)
	Lead Dithizone Reagent	200 ml. container (1)
	Pepsin	100 grams container (1)
	Lime Water Tablets	100 tablets container (1)
	Potassium Hydroxide	100 grams container (1)
	Hydrochloric Acid	1,400 ml. container (1)
	Buffer Solution pH7	1,000 ml. container (1)
	Sodium Hydroxide Solution	1,300 ml. container (1), 1gram container (1)
	Ammonium Nitrate	500 gram container (1)
	Potassium Ferrocyanide	5 grams container (1)
	Luminol	1 gram container (1)
Bromthymol Blue	500 ml container (1)	
Ammonium Tablets	20 tablet container (1)	
Potassium Hydroxide Solid	500 gram container (1)	
Saline Solution	1 gallon container (1)	

**Note:**

Only the material in the small metal Corrosives cabinet in Room 314B will need to be addressed. Bell School personnel have placed materials (chemicals and products) that they intend to keep in the larger cabinet near the door.



**Appendix C**  
**Photographic Log**

## Photographic Log

Project Name	Haz Mat'l Survey, Bell Elementary School, 3730 N. Oakley Avenue, Chicago, Illinois
--------------	--

Project #: 1261.028

Date: 08/21/2012

Photographed By:

Randy Livingston

Description:

Metal cabinet used to store Corrosive laboratory chemicals in Room 314B

Photo #1



Project #: 1261.028

Date: 08/21/2012

Photographed By:

Randy Livingston

Description:

Same as above

Photo #2



Photographic Log

Project Name	Haz Mat'l Survey, Bell Elementary School, 3730 N. Oakley Avenue, Chicago, Illinois
--------------	--

Project #: 1261.028  
Date: 08/21/2012  
Photographed By:  
Randy Livingston

Description:  
Same as previous  
photographs



Photo #3

Project #: 1261.028  
Date: 08/21/2012  
Photographed By:  
Randy Livingston

Description:  
Metal cabinet with  
additional hazardous  
material from Room  
314B



Photo #4



Photographic Log

Project Name	Haz Mat'l Survey, Bell Elementary School, 3730 N. Oakley Avenue, Chicago, Illinois
--------------	--

Project #: 1261.028  
Date: 08/21/2012  
Photographed By:  
Randy Livingston

Description:  
More hazardous  
laboratory material from  
Room 314B



Photo #5

Project #: 1261.028  
Date: 08/21/2012  
Photographed By:  
Randy Livingston

Description:  
More hazardous  
laboratory material from  
Room 314B



Photo #6

Photographic Log

Project Name Haz Mat'l Survey, Bell Elementary School, 3730 N. Oakley Avenue, Chicago, Illinois

Project #: 1261.028  
Date: 08/21/2012  
Photographed By:  
Randy Livingston

Description:  
5-Gallon Bucket  
containing used batteries  
located in the Boiler  
Room



Photo #7

Project #: 1261.028  
Date: 08/21/2012  
Photographed By:  
Randy Livingston

Description:  
Landscaping products  
located in the Boiler  
Room

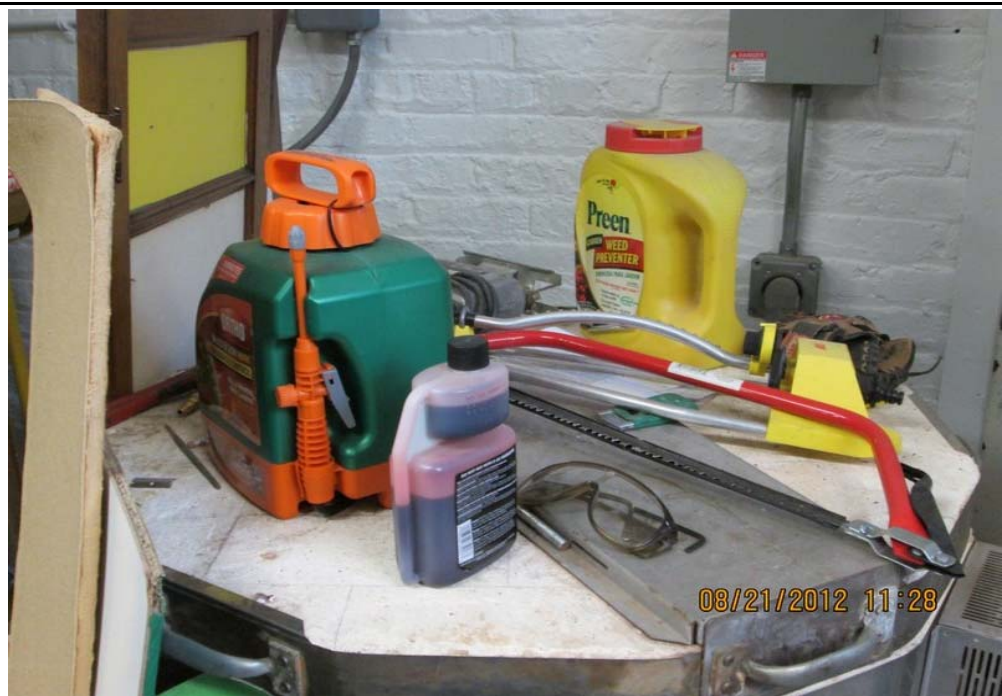


Photo #8



## Photographic Log

Project Name	Haz Mat'l Survey, Bell Elementary School, 3730 N. Oakley Avenue, Chicago, Illinois
--------------	--

Project #: 1261.028  
Date: 08/21/2012  
Photographed By:  
Randy Livingston

Description:  
Miscellaneous  
Operations and  
Maintenance (O&M)  
products located in the  
Boiler Room

Photo #9



Project #: 1261.028  
Date: 08/21/2012  
Photographed By:  
Randy Livingston

Description:  
Paint and paint-related  
products located in the  
Boiler Room.  
Photograph also shows  
non-PCB containig light  
ballasts

Photo #10



Photographic Log

Project Name	Haz Mat'l Survey, Bell Elementary School, 3730 N. Oakley Avenue, Chicago, Illinois
--------------	--

Project #: 1261.028 Date: 08/21/2012 Photographed By: Randy Livingston
---

Description: Miscellaneous O&M products located in the Boiler Room
---



Photo #11

Project #: 1261.028 Date: 08/21/2012 Photographed By: Randy Livingston
---

Description: Reverse angle shot of paint and paint-related products shown in Photo # 10
---



Photo #12



## Photographic Log

Project Name	Haz Mat'l Survey, Bell Elementary School, 3730 N. Oakley Avenue, Chicago, Illinois
--------------	--


Project #: 1261.028 Date: 08/21/2012 Photographed By: Randy Livingston	
Description: Miscellaneous O&M products located in the Boiler Room	

Photo #13


Project #: 1261.028 Date: 08/21/2012 Photographed By: Randy Livingston	
Description: High Intensity Multi- Vapor® lighting in the Gymnasium	

Photo #14

## Figures

**Figure 1**

**Site Plan**



**Figure 2**

**Hazardous Material Locations – First Floor**



**Figure 3**

**Hazardous Material Locations – Second Floor**

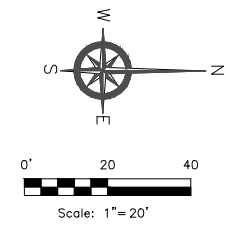
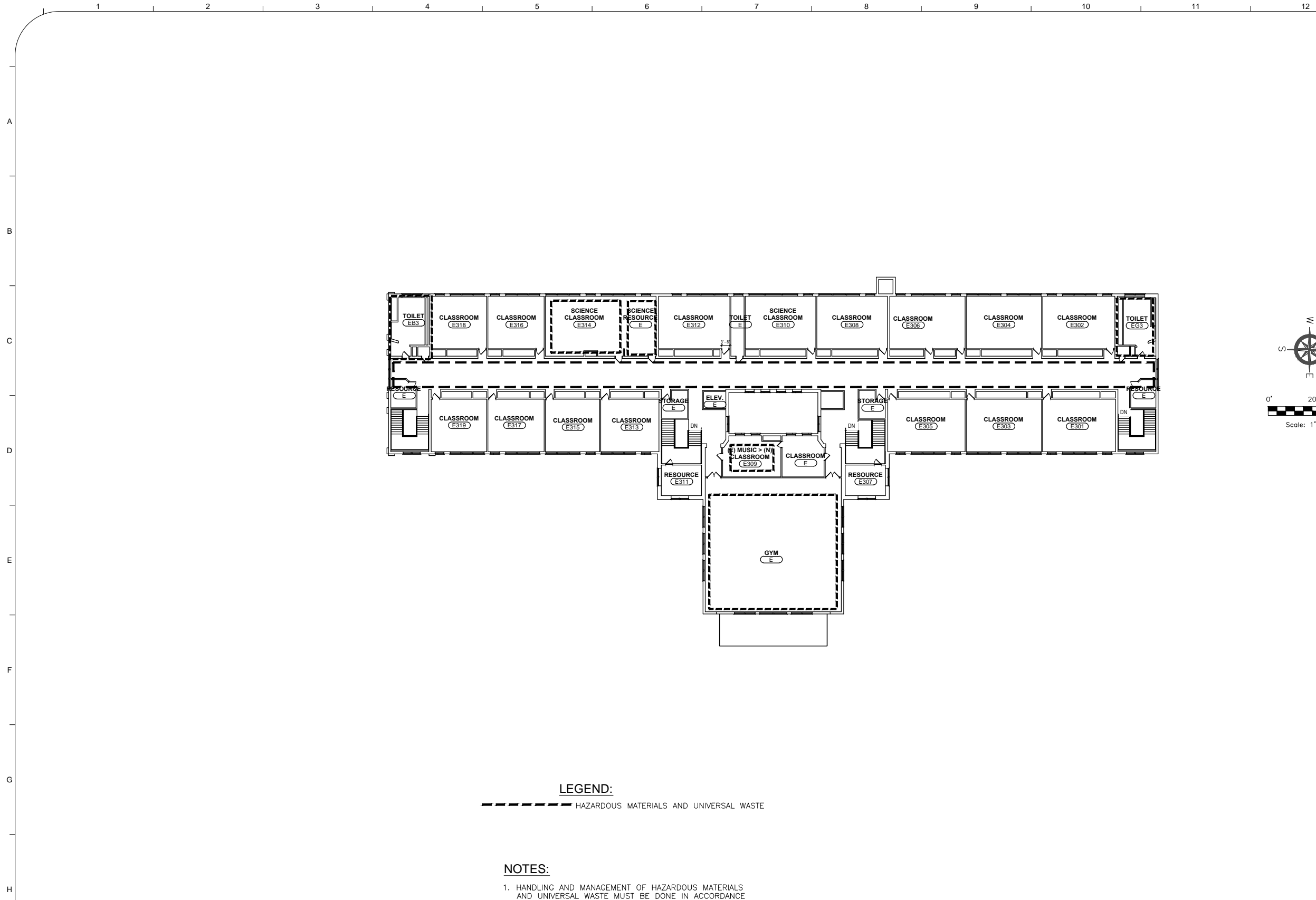




**Figure 4**

**Hazardous Material Locations – Third Floor**

PLOT DATE: 12/10/2012 3:46 PM PLOTTED BY: MISTY THOMPSON\12617 Public Building Commission Of Chicago\12617.028 Bell School Hazardous Material Survey\05 CAD\REFERENCE\12617.028 HRC HAZ MAT AREAS.dwg 12/10/2012 2:44 PM



**LEGEND:**

----- HAZARDOUS MATERIALS AND UNIVERSAL WASTE

**NOTES:**

1. HANDLING AND MANAGEMENT OF HAZARDOUS MATERIALS AND UNIVERSAL WASTE MUST BE DONE IN ACCORDANCE WITH SECTION 028613 OF THE PROJECT SPECIFICATIONS AND ALL APPLICABLE FEDERAL, STATE AND LOCAL RULES AND REGULATIONS.
2. SEE HAZARDOUS MATERIAL/UNIVERSAL WASTE INVENTORY (APPENDIX A OF SURVEY REPORT) FOR DETAILS OF MATERIALS THAT WERE IDENTIFIED.
3. SEE HAZARDOUS MATERIAL/UNIVERSAL WASTE INVENTORY (APPENDIX B OF SURVEY REPORT) FOR DETAILS OF MATERIALS TO BE MANAGED.

  
**Environmental Design International inc.**  
 Civil, Survey, Environmental and Construction Inspection Services  
 83 W. MONROE STREET, SUITE 1825, CHICAGO, IL 60603  
 PH: (312) 346-1400 FAX: (312) 346-0529  
 www.edidesign.com

**PROJECT:**  
 ALEXANDER GRAHAM BELL  
 ELEMENTARY SCHOOL ADDITION  
 3730 NORTH OAKLEY AVENUE  
 CHICAGO, IL 60618

**CLIENT:**  
 PUBLIC BUILDING COMMISSION  
 OF CHICAGO  
 50 WEST WASHINGTON STREET  
 CHICAGO, IL 60602

No.	Revision/Issue	Date

SUBMISSION DATE:  
 SCALE: 1" = 20'  
 PROJ. No. 1261.028  
 DESIGN BY: GD  
 CHECKED BY: GD  
 REVIEWED BY: GD  
 DRAWN BY: MDT  
 DATE: 12/10/2012  
 THIRD FLOOR  
 HAZARDOUS MATERIALS  
 SURVEY LOCATION/RESULTS  
 SHEET NUMBER



*Environmental Design  
International inc.*

Engineers · Scientists · Surveyors

33 West Monroe, Suite 1825  
Chicago, IL 60603-5326

phone: 312-345-1400  
fax: 312-345-0529  
web: envdesigni.com

December 10, 2012

Mr. Arthur Del Muro, AIA LEED AP  
Senior Design Project Manager  
Public Building Commission of Chicago  
50 West Washington Street  
Chicago, Illinois 60602

**Subject: Lead-Based Paint Survey  
Alexander Graham Bell Elementary School  
3730 North Oakley Avenue  
Chicago, Illinois 60618**

Dear Mr. Del Muro:

Enclosed please find the Final Lead-Based Paint (LBP) Survey Report completed by Environmental Design International inc (EDI) for the facility mentioned above. This report presents the findings from inspection, screening and sampling activities that were completed by EDI's industrial hygiene professionals at the subject property from August 8 through August 16, 2012.

Please feel free to call me at 312-345-8676 or Gary Flentge at 312-345-8679 if you have any questions about the presented information. On behalf of EDI, I would like to thank you for the opportunity to provide you with Industrial Hygiene services for this project and hope that we can provide additional support for future projects.

Respectfully,

**Environmental Design International inc.**

A handwritten signature in blue ink, appearing to read 'G. Daley', is written over a horizontal line.

Garth A. Daley, P.E.  
Environmental Engineer

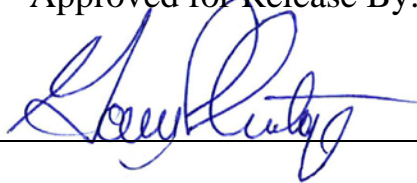
## **Lead-Based Paint Survey**

**Project Site:**  
**Alexander Graham Bell Elementary School**  
**3730 North Oakley Avenue**  
**Chicago, Illinois 60618**

**Prepared for:**  
**Public Building Commission of Chicago**  
**50 West Washington Street**  
**Chicago, Illinois 60602**

**Prepared by:**  
**Environmental Design International inc.**  
**33 West Monroe Street**  
**Suite 1825**  
**Chicago, Illinois 60603**  
**EDI Project No. 1261.028.02**

Approved for Release By:



---

Gary P. Flentge, MPH, LEHP, REA  
Vice President, Industrial Hygiene



December 10, 2012

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1.1 Project Purpose and Background .....	4
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2.0 Lead-Based Paint Survey .....	6
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2.2 Results .....	8
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4.0 Limitations .....	11

### Appendices

Appendix A:	EDI Employee Licenses and Certifications
Appendix B:	Positive X-Ray Fluorescence (XRF) Results
Appendix C:	Raw Data from XRF
Appendix D:	LBP Laboratory Results and Laboratory Certifications
Appendix E:	Photographic Log

### Figures

Figure 1:	Site Plan
Figure 2:	Positive LBP Sample Locations – First Floor
Figure 3:	Positive LBP Sample Locations – Second Floor
Figure 4:	Positive LBP Sample Locations – Third Floor and Rooftop

## Executive Summary

Environmental Design International inc. (EDI) was retained by the Public Building Commission of Chicago (PBC) to perform a lead-based paint (LBP) survey at the Alexander Graham Bell Elementary School (Bell School) located at 3730 North Oakley Avenue in Chicago, Illinois. The subject property is an active 3-story elementary school in the Chicago Public School (CPS) system that is slated to undergo renovations and the addition of a 2-story addition. The LBP survey consisted of the inspection, screening and sampling of the interior and exterior areas of the building for suspect LBP. EDI performed the LBP survey from Wednesday, August 8 through Tuesday, August 16, 2012.

Upon arriving at the Site on August 8, 2012, EDI's Illinois Department of Public Health (IDPH) Lead Risk Assessor, Randolph Livingston (IDPH # 003274), met with Mr. Gary Dehne, the Building Engineer for Bell School. Mr. Dehne took Mr. Livingston on a tour of the Bell School. Following the facility tour with Mr. Dehne, Mr. Livingston used a ThermoScientific Niton XL2 GOLDD Portable X-Ray Fluorescence (XRF) Analyzer (Niton XRF) to screen accessible painted representative sampling areas (RSAs) inside the building for the presence of lead. Mr. Livingston also used the Niton XRF to screen the paint used on the fences along the north, east, west and south property boundaries for the Bell School. In accordance with U.S Department of Housing and Urban Development (HUD) and CPS guidelines, three readings were taken for the RSA component surfaces that tested negative for LBP. HUD and CPS require that RSA component surfaces can be classified as LBP with one reading although more are typically taken. Including quality control (QC)/quality assurance (QA) and calibration readings, Mr. Livingston collected 4,934 readings while at the Bell School. Calibration checks of the XRF analyzer were performed prior to and at the conclusion of each day's testing. Additionally, a system check was performed for each week that the device was being used.

In addition to the Niton XRF screening of the RSAs, Mr. Livingston collected one paint chip sample from a red and gray light switch in the Boiler Room and submitted it to International Asbestos Testing Laboratories, Inc. (IATL), a National Lead Laboratory Accreditation Program (NLLAP) accredited laboratory, for laboratory analysis. The collected sample was submitted to conclusively determine if lead was present in the paint since the Niton XRF displayed an inconclusive reading for this surface. The laboratory analysis of the sample determined that the paint chip sample was LBP.

Based on the XRF readings obtained during the LBP survey and the paint chip sample results, surfaces in the following areas are confirmed as LBP:

- Various locations and surfaces inside the boiler room;
- The plaster walls and ceiling in the lunchroom
- The plaster south (B) wall of the MDF room;
- The plaster walls and ceiling of the first floor Boy's (southwest) bathroom, including the vestibule area;
- The plaster walls and metal stair components at the south end of the first floor hallway;



- The plaster walls of the hallways to the north and south of the auditorium;
- The plaster ceiling of the auditorium;
- The plaster walls and ceiling of the first floor Girl's (northwest) bathroom, including the vestibule area;
- The plaster walls and ceiling of the office (Room 100);
- The plaster walls and ceiling of to the library (Room 106);
- The plaster walls and ceiling of Room 112, including the bathroom;
- The plaster walls of the recessed entranceways to Rooms 101, 102, 104, 106, 112, 113B, 115, 117, 118 and 119;
- The plaster ceilings of the recessed entranceways to Rooms 101, 104, and 112;
- The plaster walls and ceiling of the second floor Boy's (southwest) bathroom, including the vestibule area;
- The plaster walls and metal stair components at the south end of the second floor hallway;
- The plaster walls and metal stair components of the hallway to the south of the auditorium;
- The plaster walls, ceiling and decorative features of the auditorium balcony;
- The plaster walls and ceiling of the second floor Girl's (northwest) bathroom, including the vestibule area;
- The plaster walls of the second floor main hallway;
- The plaster walls of the recessed entranceways to Rooms 201, 203B, 204A, 205, 206, 208, 210, 212, 213, 214, 215, 216, 217, 218 and 219;
- The plaster ceiling of the recessed entranceway to Room 218;
- The plaster walls and ceiling of the third floor Boy's (southwest) bathroom, including the vestibule area;
- The plaster walls and ceilings of Classrooms 314A and 314B;
- The plaster walls and ceiling of the third floor Girl's (northwest) bathroom, including the vestibule area;
- The plaster walls and ceiling of Classroom 309;
- The plaster walls and ceiling of the Gymnasium and the metal basketball hoops in the Gymnasium;
- The plaster walls of the third floor main hallway;
- The plaster walls of the stairwells near rooms 305A and 307;
- The plaster walls of the recessed entranceways to Rooms 301, 302, 303, 304, 305A, 306A, 307, 308, 309, 208, 310, 312, 313A, 315, 316, 317, 318 and 319;
- The metal downspout from the third floor roof; and
- The metal fence along the north edge of the Bell School property.

Prior to renovation of the Bell School, identified LBP in poor or fair condition that will be disturbed as part of the planned renovation and/or demolition activities must be stabilized, mitigated or abated by a licensed contractor using licensed supervisors and workers. Similar material that is located in areas where renovation and/or demolition activities are planned may

also be similarly managed even if the surfaces will not be directly impacted by the planned activities.

In completing this LBP survey, EDI was as thorough and comprehensive as possible. However, EDI does not attest to having tested every surface at the Bell School. As such, any suspect LBP identified during renovation activities that is not specifically listed in this report should be thoroughly evaluated, assessed, sampled, and analyzed prior to disturbance, in accordance with applicable regulatory standards.

## **1.0 Introduction**

EDI was tasked, under contract number PS1569D and Task Order 05330-PS-1651D-001, to provide Phase II Environmental demolition and renovation services at the Bell School in Chicago, Illinois. The requested services included conducting a LBP survey and developing an environmental renovation cost estimate. These tasks were in support of planned activities associated with the planned 2-story addition to the existing building.

This report presents information related to the performance of the LBP survey at the Bell School located at 3730 North Oakley Avenue in Chicago, Illinois. The property is bound by North Claremont Avenue to the west, West Grace Street to the north, North Oakley Avenue to the east, and West Waveland Avenue to the south. Figure 1 of this report shows the location of Bell School.

Bell School is an active CPS elementary school that currently consists of a 3-story, 96,000 square foot brick building with a crawl space beneath the Auditorium. The school, which is located in an urban, primarily residential neighborhood, provides Pre-Kindergarten to 8<sup>th</sup> grade educational services to children through neighborhood attendance, Regional Gifted and Talent, and Deaf curriculum/programs.

The field inspection and sampling activities were performed by IDPH-licensed Lead Risk Assessor, Mr. Randolph Livingston (IDPH # 003274), from August 8 through August 16, 2012. Licenses and certifications for Mr. Livingston are provided in Appendix A.

### **1.1 Project Purpose and Background**

The purpose of this LBP survey was to identify LBP at the subject property primarily in areas of the existing building that could be impacted by the renovation activities related to the construction of the planned addition to the Bell School building.

The subject property is a rectangular parcel approximately 4.0 acres in size. A brick three-story educational building with four wings currently occupies the property. Asphalt pavement is present along the south, southeast, and southwest sides of the Bell School building. A small playground is also located at the southwest portion of the building. To the north and northeast of the Bell School building are a playground and a turf field, respectively.

### **1.2 Scope of Work**

The LBP survey consisted of the inspection and screenings of accessible portions of the interior and exterior areas of the building for suspect LBP components. The survey was completed in accordance with the U.S. Department of Housing and Urban Development (HUD) and CPS guidelines by an IDPH-licensed Lead Risk Assessor. A Niton XRF was used to determine if the lead content of paints and other component surfaces at Bell School contained more than

qualifying definition of LBP in accordance with HUD guidelines of 1.0 milligrams per square centimeter ( $\text{mg}/\text{cm}^2$ ) or 0.5% by weight. Mr. Livingston also collected a paint chip sample and submitted it to IATL, a NLLAP accredited laboratory for analysis. This sample was collected to validate an inconclusive reading from the Niton XRF and to serve as a quality control/quality assurance (QA/QC) measure. Duct tape was applied to the sampled area to prevent any additional flaking of the paint. The laboratory sample was analyzed by U.S EPA Method SW826-(3050B:7000B) – Standard Method To Test For Low Concentrations of Lead in Soils, Sludges and Sediments by Atomic Absorption Spectrophotometry and was found to be LBP.

## 2.0 Lead-Based Paint Survey

### 2.1 LBP Survey Methodology

EDI's IDPH licensed Lead Risk Assessor performed an initial visual inspection of the Bell School building with Mr. Gary Dehne, the building engineer, to identify suspect LBP component in all accessible areas of the subject property. The initial visual assessment was followed by the screening of components/surfaces using a Niton XRF. Destructive sampling was included as part of this survey as a quality control/quality assurance (QA/QC) measure.

The Niton XRF analyzer provides immediate positive or negative result readings of the painted surfaces, which are then recorded by the device. Among the data recorded by the Niton XRF are a reading number, the time and date of the reading, the location of the surface being screened, the component surface being screened, the substrate being screened, the color of the surface being screened, and the condition of the surface being screened. The LBP survey was performed in accordance with HUD and CPS guidelines. The LBP survey included the following activities:

- Visual inspection of all representative areas of the site;
- Screening for LBP using the Niton XRF by taking three readings per RSA components that tested negative for LBP and one or more readings for components that tested positive on accessible surfaces at Bell School;
- NLLAP accredited laboratory analysis of QA/QC paint chip samples by Atomic Absorption Spectrophotometry (AAS).
- Preparation of "Draft" and "Final" reports that include sample locations of representative LBP and the laboratory's analytical report.

A total of 4,934 XRF test "shots" were taken by Mr. Livingston during the completion of the LBP survey at Bell School. These test "shots" included 34 calibration readings and four System Check readings. The locations that were determined to be LBP based on the Niton XRF readings are presented in tabular form in Appendix B – Positive XRF Readings. Additionally, these locations are presented visually in Figures 2 through 4 of this report.

Appendix C of this report contains the data that was downloaded from the Niton XRF following the completion of the survey activities. Unlike the information presented in Appendix B, this data includes all of the information recorded by the device with only minimal processing.

On August 16, 2012, Mr. Livingston collected a paint chip sample from the light switch in the Boiler Room of Bell School to serve as a QA/QC check. The sample was given a unique identification number. This identification number, a brief material description, the sample location, and estimated quantity of suspect LBP sample were recorded on a Chain-of-Custody (COC) form as part of standard industry procedures for sample shipment. These procedures provide a written tracking mechanism that lists the person responsible for the sample from

collection to delivery to the laboratory. Appendix D of this report contains the LBP laboratory results and laboratory certifications.

The sample was submitted to IATL, a NLLAP accredited asbestos laboratory in Mount Laurel, New Jersey, for analysis. The sample was analyzed by AAS, a U.S EPA approved analytical method.

Following the completion of the LBP screening activities, Mr. Livingston took photographs of some of the screened locations, as well as the paint chip sample location, for documentation purposes. Some of these photographs are presented in Appendix E of this report.

## 2.2 Results

Based on the Niton XRF readings, the following components were found to be LBP (components with a lead concentration of greater than 1.0 mg/cm<sup>2</sup> or 0.5% by weight).

- Wall, door components, pipes and window components inside the boiler room;
- The plaster walls and ceiling in the lunchroom;
- The plaster south (B) wall of the MDF room;
- The plaster walls and ceiling of the first floor Boy's (southwest) bathroom, including the vestibule area;
- The plaster walls and metal stair components at the south end of the first floor hallway;
- The plaster walls of the hallways to the north and south of the auditorium;
- The plaster ceiling of the auditorium;
- The plaster walls and ceiling of the first floor Girl's (northwest) bathroom, including the vestibule area;
- The plaster walls and ceiling of the office (Room 100);
- The plaster walls and ceiling of the library (Room 106);
- The plaster walls and ceiling of Room 112, including the bathroom;
- The plaster walls of the entranceways to Rooms 100, 101, 102, 104, 106, 113B, 115, 117, 118 and 119;
- The plaster ceilings of the recessed entranceways to Rooms 101, 104, and 112;
- The plaster walls and ceiling of the second floor Boy's (southwest) bathroom, including the vestibule area;
- The plaster walls and metal stair components at the south end of the second floor hallway;
- The plaster walls and metal stair components of the hallway to the south of the auditorium;
- The plaster walls and metal stair components of the hallway to the north of the auditorium;
- The plaster walls, ceiling and decorative features of the auditorium balcony;
- The plaster walls and ceiling of the second floor Girl's (northwest) bathroom, including the vestibule area;
- The plaster walls of the second floor main hallway;
- The plaster walls of the entranceways to Rooms 201, 203B, 204A, 205, 206, 208, 210, 212, 213, 214, 215, 216, 217, 218 and 219;
- The plaster ceiling of the recessed entranceway to Room 218;
- The plaster walls and ceiling of the third floor Boy's (southwest) bathroom, including the vestibule area;
- The plaster walls and ceilings of Classrooms 314A and 314B;
- The plaster walls and ceiling of the third floor Girl's (northwest) bathroom, including the vestibule area;



- The plaster walls and ceiling of Classrooms 309;
- The plaster walls and ceiling of the Gymnasium;
- The metal rims of the basketball hoops in the Gymnasium;
- The plaster walls of the third floor main hallway;
- The plaster walls of the stairwells near rooms 305A and 307;
- The plaster walls of the entranceways to Rooms 301, 302, 303, 304, 305A, 306A, 307, 308, 309, 310, 312, 313A, 315, 316, 317, 318 and 319;
- The metal downspout from the third floor roof; and
- The metal fence along the north edge of the Bell School property.

### 3.0 Findings and Recommendations

HUD regulation establishes that material with greater than 1.0 mg/cm<sup>2</sup> or 0.5% by weight is considered LBP. Based on Niton XRF readings taken at Bell School, the following components will need to be managed as LBP at Bell School if they are impacted by the planned renovation and/or demolition activities:

- On the first floor,
  - the plaster walls and ceiling of the lunchroom, the library (Room 106), the Boy's and Girl's bathrooms, Classroom 112, and the office (Room 100);
  - the plaster walls of the entranceways to several classrooms, the main hallway, and the hallways to the north and south of the Auditorium;
  - the plaster ceiling of the Auditorium;
  - the plaster south wall of the MDF room; and
  - the plaster walls and metal stair components at the south end of the main hallway;
- On the second floor,
  - the plaster walls and ceiling of the Auditorium Balcony and the Boy's and Girl's bathrooms;
  - the plaster decorative features of the Auditorium Balcony;
  - the plaster walls of the entrances to several classrooms and the main hallway; and
  - the plaster walls and metal stair components at the south end of the main hallway, the hallways to the north and south of the Auditorium Balcony;
- On the third floor,
  - the plaster walls and ceiling of the Boy's and Girl's bathrooms; Classrooms 309, 314A, and 314B; and the Gymnasium;
  - the metal basketball hoop rims in the Gymnasium; and
  - the plaster walls of the entranceways to several classrooms, the main hallway, and the stairwells near Rooms 305 and 307;
- On the third floor roof, the metal downspout near the roof access way; and
- The metal fence at the north property boundary.

Prior to renovation of the building, LBP that will be disturbed as part of the renovation project or in a renovation area must be stabilized, mitigated or abated as needed by a licensed contractor using licensed supervisors and workers. Similar material that is located in areas where renovation and/or demolition activities are planned may also be similarly managed even if the surfaces will not be directly impacted by the planned activities.

#### **4.0 Limitations**

This survey is based solely on the scope of work provided and the assumptions identified in this survey. Any new information that becomes available concerning the subject site should be provided to EDI so that our evaluations, conclusions, and recommendations may be revised and modified accordingly. EDI staff walked the site with the building engineer, Mr. Dehne, to identify accessible areas and RSAs to be included in the survey. In accordance with directions provided by Ms. Lynn Crivello, the Senior Environmental Engineer for CPS, every attempt was made to thoroughly evaluate and assess the presence and condition of suspect LBP. Any suspect components identified during renovation that is not specifically listed herein should be thoroughly assessed, sampled, and analyzed prior to disturbance, in accordance with applicable regulatory standards.

EDI inspected and tested visible suspect components within the representative areas scheduled for renovation and/or demolition that were accessible during this survey.

The findings and conclusions in this survey are not specific certainties; rather they are probabilities based on professional judgment concerning the significance of the data collected. EDI claims to represent only the specific findings documented herein and does not claim knowledge of conditions beyond the scope of the survey.

The LBP survey was conducted in a manner consistent with that level of care and skill ordinarily exercised by members of the environmental profession under similar conditions. No other warranty or guarantee, express or implied, is included or intended in this report or otherwise.

This survey is intended for the use of the PBC and CPS, subject to the terms and conditions of Contract PS1569D and Task Order 05330-PS-1651D-001 dated July 30, 2012.

## **Appendices**

**Appendix A**

**EDI Employee Licenses and Certifications**



**LEAD RISK  
ASSESSOR LICENSE**

LEAD ID	ISSUED	EXPIRES
003274	12/15/2011	1/31/2013

Randolph Livingston  
9540 S Euclid Avenue  
Chicago, IL 60617



ILLINOIS LEAD PROGRAM  
Environmental Health

Alteration of this license shall result in legal action  
RISK ASSESSOR CERTIFICATE EXPIRES  
11/3/2014

This license issued under authority of the State  
of Illinois -Department of Public Health

This license is valid only when accompanied by  
a valid training course certificate

If found return to 525 W. Jefferson St Springfield, IL 62761



# CERTIFICATE OF ACHIEVEMENT

## Lead Risk Assessment Recertification

Accredited by Illinois Department of Public Health

This is to certify that RANDOLPH LIVINGSTON has completed the 8-HOUR LEAD RISK ASSESSMENT RECERTIFICATION course and successfully passed the examination on 11/03/2011 with a minimum score of 70%. Training was in accordance with Title X, U.S. EPA Model Training Course Curriculum, 1995, the HUD Guidelines, 1995, and the Illinois Dept. of Public Health, 1998.



11/03/2011

Course Dates:

11/03/2014

Expires:

1111RAR31

Certificate Number:

A handwritten signature in black ink, appearing to read 'N Peneff', is written over the printed name of the Director of Training.

**Director of Training**

**Nicholas J. Peneff**

**Doctor of Public Health**

Phone Number: (312) 421-7397

**FORM # L-017B**



## **Appendix B**

### **Positive XRF Readings**

Public Building Commission - Alexander Graham Bell Elementary School  
 Lead-Based Paint Survey  
 Positive X-Ray Fluorescence (XRF) Results  
 August 8 - 16, 2012  
 Sampler: Randolph Livingston (IDPH Lead Assessor # 003274)

Reading No	Time	Units	Pb	Floor	Room	Component	Side	Substrate	Quantity	Condition	Color
1081	8/10/2012 8:16	mg / cm ^2	3.32	BASEMENT	BOILER ROOM	WALL	C	BRICK	560 SF	FAIR	WHITE
1155	8/10/2012 8:42	mg / cm ^2	2.16	BASEMENT	BOILER ROOM	DOOR CASING	B	METAL	20 SF	FAIR	GRAY
1194	8/10/2012 9:01	mg / cm ^2	4.12	BASEMENT	BOILER ROOM	PIPE	C	METAL	30 SF	FAIR	GRAY
1195	8/10/2012 9:02	mg / cm ^2	3.29	BASEMENT	BOILER ROOM	PIPE VALVE	C	METAL	2 SF	FAIR	GRAY
1205	8/10/2012 9:06	mg / cm ^2	10.67	BASEMENT	BOILER ROOM	WINDOW CASING	C	WOOD	30 SF	FAIR	GRAY
1253	8/10/2012 9:20	mg / cm ^2	2.54	BASEMENT	BOILER ROOM	WALL	D	CONCRETE	30 SF	FAIR	WHITE
1256	8/10/2012 9:23	mg / cm ^2	3.54	BASEMENT	BOILER ROOM	DOOR INCINERATOR	A	CONCRETE	2 SF	FAIR	GRAY
1303	8/10/2012 9:46	mg / cm ^2	11.02	BASEMENT	BOILER ROOM	DOOR	C	WOOD	20 SF	FAIR	GRAY
1304	8/10/2012 9:47	mg / cm ^2	5.31	BASEMENT	BOILER ROOM	DOOR	D	WOOD	20 SF	FAIR	GRAY
1308	8/10/2012 9:48	mg / cm ^2	18.13	BASEMENT	BOILER ROOM	DOOR CASING	D	WOOD	10 SF	FAIR	WHITE
1333	8/10/2012 9:55	mg / cm ^2	1.68	BASEMENT	BOILER ROOM	DOOR CASING	B	METAL	30 SF	POOR	BLACK
1345	8/10/2012 10:01	mg / cm ^2	2.61	BASEMENT	BOILER ROOM ELECTRIC ROOM	WALL	C	BRICK	140 SF	FAIR	WHITE
1379	8/10/2012 10:10	mg / cm ^2	9.32	BASEMENT	BOILER ROOM WASHROOM	DOOR	B	WOOD	21 SF	INTACT	WHITE
1392	8/10/2012 10:16	mg / cm ^2	13.56	BASEMENT	BOILER ROOM FOOD PANTRY	DOOR	C	WOOD	21 SF	INTACT	WHITE
17	8/8/2012 12:56	mg / cm ^2	2.09	FIRST	LUNCH ROOM	WALL	UPPER A	PLASTER	120 SF	INTACT	WHITE
60	8/8/2012 13:47	mg / cm ^2	2.83	FIRST	LUNCH ROOM	CEILING	LEFT	PLASTER	1620 SF	FAIR	WHITE
64	8/8/2012 13:50	mg / cm ^2	2.18	FIRST	LUNCH ROOM	SOFFIT	A	PLASTER	900 SF	INTACT	WHITE
79	8/8/2012 13:58	mg / cm ^2	2.22	FIRST	LUNCH ROOM	WALL	UPPER C	PLASTER	120 SF	INTACT	WHITE
207	8/8/2012 15:10	mg / cm ^2	2.07	FIRST	KITCHEN	CEILING	UPPER	PLASTER	290 SF	FAIR	WHITE
236	8/8/2012 15:38	mg / cm ^2	2.12	FIRST	MDF ROOM	WALL	UPPER B	PLASTER	105 SF	POOR	WHITE
288	8/9/2012 8:08	mg / cm ^2	2.81	FIRST	BATHROOM SW VESTIBULE	WALL	UPPER A	PLASTER	56 SF	INTACT	WHITE
290	8/9/2012 8:09	mg / cm ^2	2.7	FIRST	BATHROOM SW VESTIBULE	WALL	UPPER A	PLASTER	56 SF	INTACT	WHITE
306	8/9/2012 8:15	mg / cm ^2	4.29	FIRST	BATHROOM SW VESTIBULE	WALL	LOWER B	PLASTER	42 SF	FAIR	WHITE
307	8/9/2012 8:16	mg / cm ^2	3.12	FIRST	BATHROOM SW VESTIBULE	WALL	UPPER B	PLASTER	42 SF	FAIR	WHITE
314	8/9/2012 8:18	mg / cm ^2	2.92	FIRST	BATHROOM SW VESTIBULE	WALL	LOWER C	PLASTER	56 SF	FAIR	WHITE
315	8/9/2012 8:19	mg / cm ^2	2.73	FIRST	BATHROOM SW VESTIBULE	WALL	UPPER C	PLASTER	56 SF	FAIR	WHITE
325	8/9/2012 8:23	mg / cm ^2	3.81	FIRST	BATHROOM SW VESTIBULE	WALL	LOWER D	PLASTER	42 SF	POOR	WHITE
326	8/9/2012 8:23	mg / cm ^2	2.52	FIRST	BATHROOM SW VESTIBULE	WALL	UPPER D	PLASTER	42 SF	POOR	WHITE
333	8/9/2012 8:28	mg / cm ^2	1.78	FIRST	BATHROOM SW VESTIBULE	CEILING	CENTER	PLASTER	54 SF	FAIR	WHITE
337	8/9/2012 8:31	mg / cm ^2	3.48	FIRST	BATHROOM SW	WALL	UPPER A	PLASTER	56 SF	INTACT	WHITE
347	8/9/2012 8:35	mg / cm ^2	2.9	FIRST	BATHROOM SW	WALL	B	PLASTER	140 SF	INTACT	WHITE
348	8/9/2012 8:36	mg / cm ^2	2.98	FIRST	BATHROOM SW	WALL	C	PLASTER	91 SF	FAIR	WHITE
365	8/9/2012 8:43	mg / cm ^2	2.53	FIRST	BATHROOM SW	WALL	D	PLASTER	140 SF	FAIR	WHITE
368	8/9/2012 8:46	mg / cm ^2	2.26	FIRST	BATHROOM SW	CEILING	CENTER	PLASTER	260 SF	POOR	WHITE
384	8/9/2012 9:03	mg / cm ^2	2.18	FIRST	HALL SOUTH END	STAIR RISER	A	METAL	15 SF	INTACT	BLACK
385	8/9/2012 9:05	mg / cm ^2	1.99	FIRST	HALL SOUTH END	STAIR HANDRAIL	B	METAL	6 SF	FAIR	GREEN
386	8/9/2012 9:05	mg / cm ^2	1.38	FIRST	HALL SOUTH END	STAIR STRINGER	B	METAL	6 LF	FAIR	GREEN
387	8/9/2012 9:06	mg / cm ^2	4.54	FIRST	HALL SOUTH END	WALL	LOWER B	PLASTER	140 SF	POOR	BLUE
388	8/9/2012 9:07	mg / cm ^2	3.51	FIRST	HALL SOUTH END	WALL	MIDDLE B	PLASTER	140 SF	INTACT	BLUE
404	8/9/2012 9:14	mg / cm ^2	6.17	FIRST	HALL SOUTH END	WALL	LOWER C	PLASTER	100 SF	INTACT	BLUE
405	8/9/2012 9:14	mg / cm ^2	4.08	FIRST	HALL SOUTH END	WALL	MIDDLE C	PLASTER	100 SF	FAIR	BLUE
409	8/9/2012 9:33	mg / cm ^2	4.08	FIRST	HALL SOUTH END	WALL	UPPER C	PLASTER	100 SF	FAIR	WHITE
424	8/9/2012 10:04	mg / cm ^2	8.1	FIRST	HALL SOUTH SIDE OF AUDITORIUM	WALL	LOWER A	PLASTER	170 SF	FAIR	BLUE
425	8/9/2012 10:06	mg / cm ^2	3.56	FIRST	HALL SOUTH SIDE OF AUDITORIUM	WALL	MIDDLE A	PLASTER	170 SF	INTACT	BLUE
451	8/9/2012 10:14	mg / cm ^2	4.81	FIRST	HALL SOUTH SIDE OF AUDITORIUM	WALL	LOWER B	PLASTER	210 SF	FAIR	BLUE
453	8/9/2012 10:16	mg / cm ^2	3.98	FIRST	HALL SOUTH SIDE OF AUDITORIUM	WALL	MIDDLE B	PLASTER	210 SF	FAIR	BLUE
466	8/9/2012 10:22	mg / cm ^2	3.57	FIRST	HALL SOUTH SIDE OF AUDITORIUM	WALL	LOWER C	PLASTER	100 SF	FAIR	BLUE
494	8/9/2012 10:37	mg / cm ^2	1.97	FIRST	HALL SOUTH SIDE OF AUDITORIUM	WALL	UPPER UPPER D	PLASTER	32 SF	FAIR	WHITE
520	8/9/2012 10:50	mg / cm ^2	7.62	FIRST	HALL NORTH SIDE OF AUDITORIUM	WALL	LOWER	PLASTER	170 SF	FAIR	BLUE
521	8/9/2012 10:51	mg / cm ^2	9.5	FIRST	HALL NORTH SIDE OF AUDITORIUM	WALL	LOWER A	PLASTER	170 SF	FAIR	BLUE
522	8/9/2012 10:51	mg / cm ^2	2.87	FIRST	HALL NORTH SIDE OF AUDITORIUM	WALL	MIDDLE A	PLASTER	170 SF	FAIR	BLUE
547	8/9/2012 10:57	mg / cm ^2	6.15	FIRST	HALL NORTH SIDE OF AUDITORIUM	WALL	LOWER B	PLASTER	210 SF	INTACT	BLUE
548	8/9/2012 10:58	mg / cm ^2	2.39	FIRST	HALL NORTH SIDE OF AUDITORIUM	WALL	MIDDLE B	PLASTER	210 SF	INTACT	BLUE
567	8/9/2012 11:08	mg / cm ^2	4.89	FIRST	HALL NORTH SIDE OF AUDITORIUM	WALL	LOWER C	PLASTER	200 SF	FAIR	BLUE
568	8/9/2012 11:08	mg / cm ^2	2.69	FIRST	HALL NORTH SIDE OF AUDITORIUM	WALL	MIDDLE C	PLASTER	200 SF	FAIR	BLUE
569	8/9/2012 11:09	mg / cm ^2	3.26	FIRST	HALL NORTH SIDE OF AUDITORIUM	WALL	MIDDLE UPPER C	PLASTER	200 SF	FAIR	BLUE
591	8/9/2012 11:18	mg / cm ^2	4.57	FIRST	HALL NORTH SIDE OF AUDITORIUM	WALL	LOWER D	PLASTER	210 SF	FAIR	BLUE
592	8/9/2012 11:19	mg / cm ^2	3.8	FIRST	HALL NORTH SIDE OF AUDITORIUM	WALL	MIDDLE D	PLASTER	210 SF	FAIR	BLUE
593	8/9/2012 11:20	mg / cm ^2	3.21	FIRST	HALL NORTH SIDE OF AUDITORIUM	WALL	UPPER D	PLASTER	210 SF	FAIR	WHITE
603	8/9/2012 11:24	mg / cm ^2	14.48	FIRST	HALL NORTH SIDE OF AUDITORIUM	COLUMN	LOWER	PLASTER	100 SF	FAIR	BLUE
752	8/9/2012 13:02	mg / cm ^2	6.23	FIRST	AUDITORIUM	CEILING	LOWER	PLASTER	5000 SF	INTACT	WHITE
774	8/9/2012 13:17	mg / cm ^2	4.07	FIRST	BATHROOM GIRLS NW VESTIBULE	WALL	LOWER A	PLASTER	58 SF	FAIR	BEIGE
775	8/9/2012 13:18	mg / cm ^2	2.23	FIRST	BATHROOM GIRLS NW VESTIBULE	WALL	UPPER A	PLASTER	60 SF	FAIR	BEIGE
788	8/9/2012 13:42	mg / cm ^2	2.98	FIRST	BATHROOM GIRLS NW VESTIBULE	WALL	LOWER B	PLASTER	39 SF	FAIR	BEIGE
798	8/9/2012 13:45	mg / cm ^2	2.85	FIRST	BATHROOM GIRLS NW VESTIBULE	WALL	LOWER C	PLASTER	58 SF	FAIR	BEIGE
808	8/9/2012 13:49	mg / cm ^2	2.48	FIRST	BATHROOM GIRLS NW VESTIBULE	WALL	LOWER D	PLASTER	39 SF	FAIR	BEIGE
815	8/9/2012 13:51	mg / cm ^2	2.37	FIRST	BATHROOM GIRLS NW VESTIBULE	CEILING	CENTER	PLASTER	54 SF	FAIR	WHITE
819	8/9/2012 13:55	mg / cm ^2	3.97	FIRST	BATHROOM GIRLS NW	WALL	UPPER A	PLASTER	90 SF	FAIR	WHITE
833	8/9/2012 14:01	mg / cm ^2	6.54	FIRST	BATHROOM GIRLS NW	WALL	UPPER A	PLASTER	90 SF	INTACT	WHITE
834	8/9/2012 14:03	mg / cm ^2	3.8	FIRST	BATHROOM GIRLS NW	WALL	UPPER A	PLASTER	90 SF	INTACT	WHITE
835	8/9/2012 14:04	mg / cm ^2	4.4	FIRST	BATHROOM GIRLS NW	WALL	UPPER B	PLASTER	120 SF	INTACT	WHITE
839	8/9/2012 14:06	mg / cm ^2	2.41	FIRST	BATHROOM GIRLS NW	WALL	UPPER C	PLASTER	90 SF	FAIR	WHITE
852	8/9/2012 14:12	mg / cm ^2	3.67	FIRST	BATHROOM GIRLS NW	WALL	UPPER D	PLASTER	120 SF	FAIR	WHITE
872	8/9/2012 14:56	mg / cm ^2	5.75	FIRST	LIBRARY 106	WALL	LOWER A	PLASTER	227 SF	FAIR	BLUE
873	8/9/2012 14:56	mg / cm ^2	5.93	FIRST	LIBRARY 106	WALL	UPPER A	PLASTER	227 SF	FAIR	WHITE
880	8/9/2012 15:00	mg / cm ^2	4.27	FIRST	LIBRARY 106	WALL	LOWER B	PLASTER	175 SF	FAIR	BLUE
881	8/9/2012 15:01	mg / cm ^2	3.92	FIRST	LIBRARY 106	WALL	UPPER B	PLASTER	175 SF	FAIR	WHITE
896	8/9/2012 15:07	mg / cm ^2	5.61	FIRST	LIBRARY 106	WALL	LOWER C	PLASTER	227 SF	FAIR	BLUE
897	8/9/2012 15:07	mg / cm ^2	3.43	FIRST	LIBRARY 106	WALL	UPPER C	PLASTER	227 SF	FAIR	WHITE
914	8/9/2012 15:12	mg / cm ^2	7.1	FIRST	LIBRARY 106	WALL	LOWER D	PLASTER	175 SF	INTACT	BLUE
915	8/9/2012 15:13	mg / cm ^2	4.49	FIRST	LIBRARY 106	WALL	UPPER D	PLASTER	175 SF	INTACT	WHITE
928	8/9/2012 15:20	mg / cm ^2	4.65	FIRST	LIBRARY 106	CEILING	CENTER	WOOD	950 SF	FAIR	WHITE
947	8/9/2012 15:33	mg / cm ^2	3.77	FIRST	OFFICE 100	WALL	UPPER A	PLASTER	175 SF	FAIR	WHITE
969	8/9/2012 15:41	mg / cm ^2	2.61	FIRST	OFFICE 100	WALL	LOWER B	METAL	100 SF	FAIR	BEIGE
972	8/9/2012 15:42	mg / cm ^2	2.99	FIRST	OFFICE 100	WALL	UPPER B	METAL	100 SF	FAIR	WHITE
973	8/9/2012 15:44	mg / cm ^2	4.12	FIRST	OFFICE 100	WALL	UPPER B	PLASTER	175 SF	FAIR	WHITE
1018	8/10/2012 7:42	mg / cm ^2	2.35	FIRST	OFFICE 100	WALL	UPPER C	PLASTER	175 SF	FAIR	WHITE
1074	8/10/2012 8:03	mg / cm ^2	5.56	FIRST	OFFICE 100	CEILING	CENTER	PLASTER	730 SF	FAIR	GREEN
1393	8/10/2012 10:39	mg / cm ^2	3.04	FIRST	CLASSROOM 112	WALL	A	PLASTER	250 SF	POOR	YELLOW
1397	8/10/2012 10:40	mg / cm ^2	4.19	FIRST	CLASSROOM 112	WALL	C	PLASTER	250 SF	POOR	YELLOW
1402	8/10/2012 10:41	mg / cm ^2	2.11	FIRST	CLASSROOM 112	WALL	D	PLASTER	250 SF	FAIR	WHITE
1403	8/10/2012 10:42	mg / cm ^2	2.81	FIRST	CLASSROOM 112	WALL	A	PLASTER	250 SF	FAIR	WHITE
1408	8/10/2012 10:43	mg / cm ^2	2.16	FIRST	CLASSROOM 112	WALL	C	PLASTER	250 SF	FAIR	WHITE
1484	8/10/2012 11:09	mg / cm ^2	1.58	FIRST	CLASSROOM 112 BATHROOM	CEILING	CEILING	PLASTER	1300 SF	FAIR	WHITE
1491	8/10/2012 11:13	mg / cm ^2	3.02	FIRST	CLASSROOM 112 BATHROOM	WALL	A	PLASTER	45 SF	FAIR	GREEN
1503	8/10/2012 11:15	mg / cm ^2	3.5	FIRST	CLASSROOM 112 BATHROOM	WALL	A	PLASTER	30 SF	FAIR	WHITE
2871	8/15/2012 8:46	mg / cm ^2	5.41	FIRST	HALL	WALL	LOWER A	PLASTER	2275 SF	FAIR	BLUE
2872	8/15/2012 8:46	mg / cm ^2	3.92	FIRST	HALL	WALL	LOWER A	PLASTER	2275 SF	FAIR	BLUE
2873	8/15/2012 8:46	mg / cm ^2	5.88	FIRST	HALL	WALL	LOWER A	PLASTER	2275 SF	FAIR	BLUE
2874	8/15/2012 8:46	mg / cm ^2	4.5	FIRST	HALL	WALL	LOWER C	PLASTER	2275 SF	FAIR	BLUE
2875	8/15/2012 8:46	mg / cm ^2	4.28	FIRST	HALL	WALL	LOWER C	PLASTER	2275 SF	FAIR	BLUE
2876	8/15/2012 8:46	mg / cm ^2	4.23	FIRST	HALL	WALL	LOWER C	PLASTER	2275 SF	FAIR	BLUE
2877	8/15/2012 8:48	mg / cm ^2	11.89	FIRST	HALL	WALL	LOWER D	PLASTER	1312 SF	FAIR	BLUE
2878	8/15/2012 8:48	mg / cm ^2	12.23	FIRST	HALL	WALL	LOWER D	PLASTER	1312 SF	FAIR	BLUE
2879	8/15/2012 8:48	mg / cm ^2	8.72	FIRST	HALL	WALL	LOWER D	PLASTER	1312 SF	FAIR	BLUE
2880	8/15/2012 8:49	mg / cm ^2	4.22	FIRST	HALL	WALL	LOWER A	PLASTER	40 SF	FAIR	GREEN
2881	8/15/2012 8:49	mg / cm ^2	3.46	FIRST	HALL	WALL	LOWER A	PLASTER	40 SF	FAIR	GREEN
2882	8/15/2012 8:49	mg / cm ^2	3.74	FIRST	HALL	WALL	LOWER A	PLASTER	40 SF	FAIR	GREEN
2883	8/15/2012 8:51	mg / cm ^2	3.11	FIRST	HALL	WALL	UPPER A	PLASTER	2225 SF	FAIR	WHITE
2886	8/15/2012 8:54	mg / cm ^2	4.7	FIRST	HALL	WALL	UPPER C	PLASTER	2275 SF	FAIR	WHITE
2895	8/15/2012 8:59	mg / cm ^2	4.03	FIRST	HALL						

Public Building Commission - Alexander Graham Bell Elementary School  
 Lead-Based Paint Survey  
 Positive X-Ray Fluorescence (XRF) Results  
 August 8 - 16, 2012  
 Sampler: Randolph Livingston (IDPH Lead Assessor # 003274)

Reading No	Time	Units	Pb	Floor	Room	Component	Side	Substrate	Quantity	Condition	Color
3163	8/15/2012 12:48	mg / cm ^2	3.42	FIRST	ENTRANCE TO 104	WALL	UPPER D	PLASTER	15 SF	FAIR	BLUE
3164	8/15/2012 12:48	mg / cm ^2	3	FIRST	ENTRANCE TO 104	WALL	UPPER D	PLASTER	15 SF	FAIR	BLUE
3165	8/15/2012 12:48	mg / cm ^2	3.05	FIRST	ENTRANCE TO 104	WALL	UPPER D	PLASTER	15 SF	FAIR	BLUE
3174	8/15/2012 12:52	mg / cm ^2	4.85	FIRST	ENTRANCE TO 104	CEILING	CENTER	PLASTER	16 SF	POOR	WHITE
3175	8/15/2012 12:52	mg / cm ^2	3.56	FIRST	ENTRANCE TO 104	CEILING	CENTER	PLASTER	16 SF	POOR	WHITE
3176	8/15/2012 12:52	mg / cm ^2	2.95	FIRST	ENTRANCE TO 104	CEILING	CENTER	PLASTER	16 SF	POOR	WHITE
3204	8/15/2012 13:00	mg / cm ^2	7.65	FIRST	ENTRANCE TO 106 LIBRARY	WALL	LOWER B	PLASTER	26 SF	FAIR	BLUE
3205	8/15/2012 13:00	mg / cm ^2	4.46	FIRST	ENTRANCE TO 106 LIBRARY	WALL	LOWER B	PLASTER	26 SF	FAIR	BLUE
3206	8/15/2012 13:00	mg / cm ^2	4.11	FIRST	ENTRANCE TO 106 LIBRARY	WALL	LOWER B	PLASTER	26 SF	FAIR	BLUE
3207	8/15/2012 13:00	mg / cm ^2	13.24	FIRST	ENTRANCE TO 106 LIBRARY	WALL	LOWER D	PLASTER	26 SF	FAIR	BLUE
3208	8/15/2012 13:00	mg / cm ^2	4.62	FIRST	ENTRANCE TO 106 LIBRARY	WALL	LOWER D	PLASTER	26 SF	FAIR	BLUE
3209	8/15/2012 13:01	mg / cm ^2	4.68	FIRST	ENTRANCE TO 106 LIBRARY	WALL	LOWER D	PLASTER	26 SF	FAIR	BLUE
3213	8/15/2012 13:02	mg / cm ^2	1.95	FIRST	ENTRANCE TO 106 LIBRARY	WALL	UPPER D	PLASTER	15 SF	POOR	WHITE
3215	8/15/2012 13:02	mg / cm ^2	2.2	FIRST	ENTRANCE TO 106 LIBRARY	WALL	UPPER D	PLASTER	15 SF	POOR	WHITE
3246	8/15/2012 13:11	mg / cm ^2	8.3	FIRST	ENTRANCE TO 112	WALL	LOWER B	PLASTER	235 SF	POOR	BLUE
3247	8/15/2012 13:11	mg / cm ^2	3.81	FIRST	ENTRANCE TO 112	WALL	LOWER B	PLASTER	235 SF	POOR	BLUE
3248	8/15/2012 13:11	mg / cm ^2	5.78	FIRST	ENTRANCE TO 112	WALL	LOWER B	PLASTER	235 SF	POOR	BLUE
3249	8/15/2012 13:12	mg / cm ^2	12.05	FIRST	ENTRANCE TO 112	WALL	LOWER C	PLASTER	45 SF	FAIR	BLUE
3250	8/15/2012 13:12	mg / cm ^2	4.49	FIRST	ENTRANCE TO 112	WALL	LOWER C	PLASTER	45 SF	FAIR	BLUE
3251	8/15/2012 13:12	mg / cm ^2	6.32	FIRST	ENTRANCE TO 112	WALL	LOWER C	PLASTER	45 SF	FAIR	BLUE
3252	8/15/2012 13:13	mg / cm ^2	6.78	FIRST	ENTRANCE TO 112	WALL	LOWER D	PLASTER	235 SF	FAIR	BLUE
3253	8/15/2012 13:13	mg / cm ^2	2.62	FIRST	ENTRANCE TO 112	WALL	LOWER D	PLASTER	235 SF	FAIR	BLUE
3254	8/15/2012 13:13	mg / cm ^2	2.74	FIRST	ENTRANCE TO 112	WALL	LOWER D	PLASTER	235 SF	FAIR	BLUE
3255	8/15/2012 13:13	mg / cm ^2	5.37	FIRST	ENTRANCE TO 112	WALL	LOWER A	PLASTER	45 SF	FAIR	BLUE
3256	8/15/2012 13:13	mg / cm ^2	3.55	FIRST	ENTRANCE TO 112	WALL	LOWER A	PLASTER	45 SF	FAIR	BLUE
3257	8/15/2012 13:14	mg / cm ^2	4.18	FIRST	ENTRANCE TO 112	WALL	LOWER A	PLASTER	45 SF	FAIR	BLUE
3259	8/15/2012 13:15	mg / cm ^2	3.3	FIRST	ENTRANCE TO 112	WALL	UPPER A	PLASTER	14 SF	FAIR	WHITE
3260	8/15/2012 13:15	mg / cm ^2	3.32	FIRST	ENTRANCE TO 112	WALL	UPPER A	PLASTER	14 SF	FAIR	WHITE
3261	8/15/2012 13:15	mg / cm ^2	1.93	FIRST	ENTRANCE TO 112	WALL	UPPER B	PLASTER	144 SF	FAIR	WHITE
3262	8/15/2012 13:15	mg / cm ^2	2.14	FIRST	ENTRANCE TO 112	WALL	UPPER B	PLASTER	144 SF	FAIR	WHITE
3263	8/15/2012 13:15	mg / cm ^2	1.69	FIRST	ENTRANCE TO 112	WALL	UPPER B	PLASTER	144 SF	FAIR	WHITE
3271	8/15/2012 13:18	mg / cm ^2	1.9	FIRST	ENTRANCE TO 112	CEILING	CENTER	PLASTER	252 SF	FAIR	WHITE
3272	8/15/2012 13:18	mg / cm ^2	1.48	FIRST	ENTRANCE TO 112	CEILING	CENTER	PLASTER	252 SF	FAIR	WHITE
3311	8/15/2012 13:36	mg / cm ^2	8.22	FIRST	ENTRANCE TO 118	WALL	LOWER B	PLASTER	26 SF	FAIR	BLUE
3314	8/15/2012 13:36	mg / cm ^2	3.7	FIRST	ENTRANCE TO 118	WALL	LOWER D	PLASTER	26 SF	FAIR	BLUE
3316	8/15/2012 13:36	mg / cm ^2	7.07	FIRST	ENTRANCE TO 118	WALL	LOWER D	PLASTER	26 SF	FAIR	BLUE
3356	8/15/2012 13:51	mg / cm ^2	10.01	FIRST	ENTRANCE TO 119	WALL	LOWER B	PLASTER	26 SF	FAIR	BLUE
3357	8/15/2012 13:51	mg / cm ^2	4.94	FIRST	ENTRANCE TO 119	WALL	LOWER B	PLASTER	26 SF	FAIR	BLUE
3358	8/15/2012 13:51	mg / cm ^2	3.12	FIRST	ENTRANCE TO 119	WALL	LOWER B	PLASTER	26 SF	FAIR	BLUE
3359	8/15/2012 13:51	mg / cm ^2	6.72	FIRST	ENTRANCE TO 119	WALL	LOWER D	PLASTER	26 SF	FAIR	BLUE
3360	8/15/2012 13:51	mg / cm ^2	3.35	FIRST	ENTRANCE TO 119	WALL	LOWER D	PLASTER	26 SF	FAIR	BLUE
3361	8/15/2012 13:52	mg / cm ^2	4.53	FIRST	ENTRANCE TO 119	WALL	LOWER D	PLASTER	26 SF	FAIR	BLUE
3365	8/15/2012 13:53	mg / cm ^2	2.77	FIRST	ENTRANCE TO 119	WALL	UPPER D	PLASTER	15 SF	POOR	WHITE
3366	8/15/2012 13:53	mg / cm ^2	3.73	FIRST	ENTRANCE TO 119	WALL	UPPER D	PLASTER	15 SF	POOR	WHITE
3367	8/15/2012 13:53	mg / cm ^2	3.46	FIRST	ENTRANCE TO 119	WALL	UPPER D	PLASTER	15 SF	POOR	WHITE
3398	8/15/2012 14:14	mg / cm ^2	4.35	FIRST	ENTRANCE TO 117	WALL	LOWER B	PLASTER	26 SF	FAIR	BLUE
3400	8/15/2012 14:14	mg / cm ^2	4.19	FIRST	ENTRANCE TO 117	WALL	LOWER B	PLASTER	26 SF	FAIR	BLUE
3401	8/15/2012 14:15	mg / cm ^2	7.59	FIRST	ENTRANCE TO 117	WALL	LOWER D	PLASTER	26 SF	FAIR	BLUE
3402	8/15/2012 14:15	mg / cm ^2	4.61	FIRST	ENTRANCE TO 117	WALL	LOWER D	PLASTER	26 SF	FAIR	BLUE
3403	8/15/2012 14:15	mg / cm ^2	4.76	FIRST	ENTRANCE TO 117	WALL	LOWER D	PLASTER	26 SF	FAIR	BLUE
3440	8/15/2012 14:24	mg / cm ^2	7.16	FIRST	ENTRANCE TO 115	WALL	LOWER B	PLASTER	26 SF	FAIR	BLUE
3441	8/15/2012 14:24	mg / cm ^2	4.36	FIRST	ENTRANCE TO 115	WALL	LOWER B	PLASTER	26 SF	FAIR	BLUE
3442	8/15/2012 14:24	mg / cm ^2	3.61	FIRST	ENTRANCE TO 115	WALL	LOWER B	PLASTER	26 SF	FAIR	BLUE
3443	8/15/2012 14:24	mg / cm ^2	5.63	FIRST	ENTRANCE TO 115	WALL	LOWER C	PLASTER	26 SF	FAIR	BLUE
3444	8/15/2012 14:24	mg / cm ^2	3.03	FIRST	ENTRANCE TO 115	WALL	LOWER C	PLASTER	26 SF	FAIR	BLUE
3445	8/15/2012 14:24	mg / cm ^2	3.98	FIRST	ENTRANCE TO 115	WALL	LOWER C	PLASTER	26 SF	FAIR	BLUE
3482	8/15/2012 14:36	mg / cm ^2	7.23	FIRST	ENTRANCE TO 113B	WALL	LOWER B	PLASTER	26 SF	FAIR	BLUE
3483	8/15/2012 14:36	mg / cm ^2	4.19	FIRST	ENTRANCE TO 113B	WALL	LOWER B	PLASTER	26 SF	FAIR	BLUE
3484	8/15/2012 14:36	mg / cm ^2	3.87	FIRST	ENTRANCE TO 113B	WALL	LOWER B	PLASTER	26 SF	FAIR	BLUE
3485	8/15/2012 14:36	mg / cm ^2	5.69	FIRST	ENTRANCE TO 113B	WALL	LOWER D	PLASTER	26 SF	FAIR	BLUE
3487	8/15/2012 14:36	mg / cm ^2	8.46	FIRST	ENTRANCE TO 113B	WALL	LOWER D	PLASTER	26 SF	FAIR	BLUE
1532	8/10/2012 13:13	mg / cm ^2	3.6	SECOND	BATHROOM SW VESTIBULE	WALL	LOWER A	PLASTER	58 SF	FAIR	WHITE
1533	8/10/2012 13:13	mg / cm ^2	3.13	SECOND	BATHROOM SW VESTIBULE	WALL	LOWER A	PLASTER	58 SF	FAIR	WHITE
1536	8/10/2012 13:14	mg / cm ^2	3.23	SECOND	BATHROOM SW VESTIBULE	WALL	LOWER B	PLASTER	39 SF	FAIR	WHITE
1537	8/10/2012 13:14	mg / cm ^2	4	SECOND	BATHROOM SW VESTIBULE	WALL	LOWER C	PLASTER	58 SF	FAIR	WHITE
1538	8/10/2012 13:15	mg / cm ^2	3.33	SECOND	BATHROOM SW VESTIBULE	WALL	D	PLASTER	39 SF	FAIR	WHITE
1564	8/10/2012 13:27	mg / cm ^2	4.91	SECOND	BATHROOM SW VESTIBULE	CEILING	CENTER	PLASTER	54 SF	FAIR	WHITE
1599	8/10/2012 13:34	mg / cm ^2	2.18	SECOND	BATHROOM SW	WALL	A	PLASTER	90 SF	FAIR	WHITE
1647	8/10/2012 13:57	mg / cm ^2	14.23	SECOND	SOUTH HALL	WALL	LOWER B	PLASTER	91 SF	FAIR	BLUE
1654	8/10/2012 14:01	mg / cm ^2	5.01	SECOND	SOUTH HALL	WALL	LOWER C	PLASTER	100 SF	FAIR	BLUE
1677	8/10/2012 14:09	mg / cm ^2	1.5	SECOND	SOUTH HALL	STAIR RISER	A	METAL	15 SF	FAIR	BLACK
1679	8/10/2012 14:10	mg / cm ^2	1.17	SECOND	SOUTH HALL	STAIR HANDRAIL	A	METAL	75 SF	FAIR	GREEN
1680	8/10/2012 14:11	mg / cm ^2	1.31	SECOND	SOUTH HALL	STAIR STRINGER	A	METAL	25 SF	FAIR	GREEN
1681	8/10/2012 14:11	mg / cm ^2	1.77	SECOND	SOUTH HALL	NEWAL POST	A	METAL	10 SF	FAIR	GREEN
1682	8/10/2012 14:18	mg / cm ^2	12.5	SECOND	SOUTH HALL OF AUDITORIUM	WALL	A	PLASTER	170 SF	FAIR	BLUE
1684	8/10/2012 14:19	mg / cm ^2	3.69	SECOND	SOUTH HALL OF AUDITORIUM	WALL	B	PLASTER	210 SF	FAIR	BLUE
1715	8/10/2012 14:27	mg / cm ^2	5.52	SECOND	SOUTH HALL OF AUDITORIUM	BASEBOARD	A	WOOD	30 SF	FAIR	STAIN VARNISH
1717	8/10/2012 14:27	mg / cm ^2	4.97	SECOND	SOUTH HALL OF AUDITORIUM	DOOR	A	METAL	21 SF	FAIR	STAIN VARNISH
1718	8/10/2012 14:28	mg / cm ^2	8.6	SECOND	SOUTH HALL OF AUDITORIUM	DOOR	A	METAL	21 SF	FAIR	STAIN VARNISH
1722	8/10/2012 14:30	mg / cm ^2	1.65	SECOND	SOUTH HALL OF AUDITORIUM	RISER STAIR	A	METAL	15 SF	FAIR	BLACK
1726	8/10/2012 14:32	mg / cm ^2	2.43	SECOND	SOUTH HALL OF AUDITORIUM	STAIR STRINGER	A	METAL	25 SF	FAIR	GREEN
1729	8/10/2012 14:32	mg / cm ^2	1.29	SECOND	SOUTH HALL OF AUDITORIUM	STAIR HANDRAIL	A	METAL	75 SF	FAIR	GREEN
1730	8/10/2012 14:33	mg / cm ^2	1.68	SECOND	SOUTH HALL OF AUDITORIUM	NEWAL POST	A	METAL	10 SF	FAIR	GREEN
1777	8/13/2012 8:26	mg / cm ^2	3.65	SECOND	AUDITORIUM BALCONY	COLUMN	UPPER B	PLASTER	400 SF	FAIR	WHITE
1778	8/13/2012 8:27	mg / cm ^2	3.33	SECOND	AUDITORIUM BALCONY	COLUMN	UPPER D	PLASTER	400 SF	FAIR	WHITE
1779	8/13/2012 8:28	mg / cm ^2	3.04	SECOND	AUDITORIUM BALCONY	WALL	UPPER A	PLASTER	325 SF	FAIR	WHITE
1837	8/13/2012 8:47	mg / cm ^2	1.16	SECOND	AUDITORIUM BALCONY	HAND RAIL	SOUTH	METAL	50 SF	FAIR	BROWN
1844	8/13/2012 8:54	mg / cm ^2	4.68	SECOND	AUDITORIUM BALCONY	DOOR	SW C	METAL	21 SF	FAIR	STAIN VARNISH
1845	8/13/2012 8:55	mg / cm ^2	4.81	SECOND	AUDITORIUM BALCONY	DOOR	NW C	METAL	21 SF	FAIR	STAIN VARNISH
1846	8/13/2012 8:58	mg / cm ^2	3.25	SECOND	AUDITORIUM BALCONY	CEILING	SOUTH	PLASTER	5500 SF	FAIR	WHITE
1847	8/13/2012 8:59	mg / cm ^2	4.96	SECOND	AUDITORIUM BALCONY	CEILING BEAM	SOUTH	PLASTER	5500 SF	FAIR	WHITE
1848	8/13/2012 9:00	mg / cm ^2	2.14	SECOND	AUDITORIUM BALCONY	DECORATIVE INNER WALL	SOUTH	PLASTER	700 SF	FAIR	WHITE
1851	8/13/2012 9:01	mg / cm ^2	2.28	SECOND	AUDITORIUM BALCONY	DECORATIVE WALL	C	PLASTER	700 SF	FAIR	WHITE
1852	8/13/2012 9:05	mg / cm ^2	5.55	SECOND	AUDITORIUM BALCONY	WALL	UPPER B	PLASTER	530 SF	FAIR	WHITE
1853	8/13/2012 9:06	mg / cm ^2	2.59	SECOND	AUDITORIUM BALCONY	WALL	C	PLASTER	28 SF	FAIR	WHITE
1854	8/13/2012 9:06	mg / cm ^2	2.91	SECOND	AUDITORIUM BALCONY	WALL	D	PLASTER	530 SF	FAIR	WHITE
1855	8/13/2012 9:26	mg / cm ^2	8.47	SECOND	HALL NORTH SIDE OF BALCONY	WALL	LOWER A	PLASTER	170 SF	FAIR	BLUE
1856	8/13/2012 9:27	mg / cm ^2	7.3	SECOND	HALL NORTH SIDE OF BALCONY	WALL	LOWER B	PLASTER	210 SF	FAIR	BLUE
1857	8/13/2012 9:27	mg / cm ^2	9.4	SECOND	HALL NORTH SIDE OF BALCONY	WALL	LOWER C	PLASTER	170 SF	FAIR	BLUE
1858	8/13/2012 9:27	mg / cm ^2	12.78	SECOND	HALL NORTH SIDE OF BALCONY	WALL	LOWER D	PLASTER	210 SF	FAIR	BLUE
1887	8/13/2012 9:36	mg / cm ^2	2.09	SECOND	HALL NORTH SIDE OF BALCONY	RISER STAIR	D	METAL	15 SF	FAIR	BLACK
1888	8/13/2012 9:37	mg / cm ^2	1.74	SECOND	HALL NORTH SIDE OF BALCONY	STAIR STRINGER	D	METAL	25 SF	FAIR	GREEN
1890	8/13/2012 9:38	mg / cm ^2	1.55	SECOND	HALL NORTH SIDE OF BALCONY	STAIR HANDRAIL	D	METAL	75 SF	FAIR	GREEN
1891	8/13/2012 9:38	mg / cm ^2	1.49	SECOND	HALL NORTH SIDE OF BALCONY	NEWAL POST	D	METAL	10 SF	FAIR	GREEN
1907	8/13/2012 9:49	mg / cm ^2	5.71	SECOND	HALL NORTH SIDE OF BALCONY	DOOR	A	METAL	21 SF	FAIR	STAIN VARNISH
1977	8/13/2012 10:58	mg / cm ^2	16.71	SECOND	CLASSROOM 202 CLOSET	WALL	A	PLASTER	175 SF	FAIR	BLUE
1978	8/13/2012 11:00	mg / cm ^2	7.82	SECOND	CLASSROOM 202 CLOSET	WALL	B	PLASTER	21 SF	FAIR	



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 August 8 - 16, 2012  
 Sampler: Randolph Livingston (IDPH Lead Assessor # 003274)

Reading No	Time	Units	Pb	Floor	Room	Component	Side	Substrate	Quantity	Condition	Color
3679	8/16/2012 8:26	mg / cm ^2	4.01	SECOND	ENTRANCE TO 205	WALL	LOWER B	PLASTER	26 SF	FAIR	BLUE
3680	8/16/2012 8:26	mg / cm ^2	4.1	SECOND	ENTRANCE TO 205	WALL	LOWER B	PLASTER	26 SF	FAIR	BLUE
3681	8/16/2012 8:26	mg / cm ^2	5.07	SECOND	ENTRANCE TO 205	WALL	LOWER B	PLASTER	26 SF	FAIR	BLUE
3682	8/16/2012 8:26	mg / cm ^2	5.46	SECOND	ENTRANCE TO 205	WALL	LOWER D	PLASTER	26 SF	FAIR	BLUE
3683	8/16/2012 8:26	mg / cm ^2	8.15	SECOND	ENTRANCE TO 205	WALL	LOWER D	PLASTER	26 SF	FAIR	BLUE
3684	8/16/2012 8:26	mg / cm ^2	3.62	SECOND	ENTRANCE TO 205	WALL	LOWER D	PLASTER	26 SF	FAIR	BLUE
3692	8/16/2012 8:30	mg / cm ^2	4.47	SECOND	ENTRANCE TO 205	WALL	UPPER D	PLASTER	15 SF	FAIR	WHITE
3693	8/16/2012 8:30	mg / cm ^2	3.43	SECOND	ENTRANCE TO 205	WALL	UPPER D	PLASTER	15 SF	FAIR	WHITE
3721	8/16/2012 8:40	mg / cm ^2	8.27	SECOND	ENTRANCE TO 213	WALL	LOWER B	PLASTER	26 SF	FAIR	BLUE
3722	8/16/2012 8:40	mg / cm ^2	4.79	SECOND	ENTRANCE TO 213	WALL	LOWER B	PLASTER	26 SF	FAIR	BLUE
3723	8/16/2012 8:40	mg / cm ^2	5.7	SECOND	ENTRANCE TO 213	WALL	LOWER B	PLASTER	26 SF	FAIR	BLUE
3726	8/16/2012 8:41	mg / cm ^2	1.71	SECOND	ENTRANCE TO 213	WALL	LOWER D	PLASTER	26 SF	FAIR	BLUE
3731	8/16/2012 8:42	mg / cm ^2	3.17	SECOND	ENTRANCE TO 213	WALL	UPPER B	PLASTER	15 SF	FAIR	WHITE
3732	8/16/2012 8:42	mg / cm ^2	3.54	SECOND	ENTRANCE TO 213	WALL	UPPER B	PLASTER	15 SF	FAIR	WHITE
3757	8/16/2012 8:49	mg / cm ^2	8.46	SECOND	ENTRANCE TO 215	WALL	LOWER B	PLASTER	26 SF	FAIR	BLUE
3758	8/16/2012 8:49	mg / cm ^2	4.62	SECOND	ENTRANCE TO 215	WALL	LOWER B	PLASTER	26 SF	FAIR	BLUE
3759	8/16/2012 8:49	mg / cm ^2	2.95	SECOND	ENTRANCE TO 215	WALL	LOWER B	PLASTER	26 SF	FAIR	BLUE
3760	8/16/2012 8:49	mg / cm ^2	7.55	SECOND	ENTRANCE TO 215	WALL	LOWER D	PLASTER	26 SF	FAIR	BLUE
3761	8/16/2012 8:50	mg / cm ^2	5.22	SECOND	ENTRANCE TO 215	WALL	LOWER D	PLASTER	26 SF	FAIR	BLUE
3762	8/16/2012 8:50	mg / cm ^2	3.69	SECOND	ENTRANCE TO 215	WALL	LOWER D	PLASTER	26 SF	FAIR	BLUE
3770	8/16/2012 8:54	mg / cm ^2	2.27	SECOND	ENTRANCE TO 215	WALL	UPPER D	PLASTER	15 SF	FAIR	WHITE
3771	8/16/2012 8:54	mg / cm ^2	1.99	SECOND	ENTRANCE TO 215	WALL	UPPER D	PLASTER	15 SF	FAIR	WHITE
3799	8/16/2012 9:01	mg / cm ^2	13.02	SECOND	ENTRANCE TO 217	WALL	LOWER B	PLASTER	26 SF	FAIR	BLUE
3801	8/16/2012 9:01	mg / cm ^2	8.27	SECOND	ENTRANCE TO 217	WALL	LOWER B	PLASTER	26 SF	FAIR	BLUE
3802	8/16/2012 9:02	mg / cm ^2	6.37	SECOND	ENTRANCE TO 217	WALL	D	PLASTER	26 SF	FAIR	BLUE
3803	8/16/2012 9:02	mg / cm ^2	4.42	SECOND	ENTRANCE TO 217	WALL	D	PLASTER	26 SF	FAIR	BLUE
3804	8/16/2012 9:02	mg / cm ^2	4.05	SECOND	ENTRANCE TO 217	WALL	D	PLASTER	26 SF	FAIR	BLUE
3809	8/16/2012 9:04	mg / cm ^2	4.18	SECOND	ENTRANCE TO 217	WALL	UPPER B	PLASTER	15 SF	POOR	WHITE
3810	8/16/2012 9:04	mg / cm ^2	3.79	SECOND	ENTRANCE TO 217	WALL	UPPER B	PLASTER	15 SF	POOR	WHITE
3812	8/16/2012 9:05	mg / cm ^2	2.93	SECOND	ENTRANCE TO 217	WALL	UPPER D	PLASTER	15 SF	POOR	WHITE
3813	8/16/2012 9:05	mg / cm ^2	4.58	SECOND	ENTRANCE TO 217	WALL	UPPER D	PLASTER	15 SF	POOR	WHITE
3848	8/16/2012 9:12	mg / cm ^2	5.62	SECOND	ENTRANCE TO 219	WALL	LOWER B	PLASTER	26 SF	FAIR	BLUE
3849	8/16/2012 9:12	mg / cm ^2	4.85	SECOND	ENTRANCE TO 219	WALL	LOWER B	PLASTER	26 SF	FAIR	BLUE
3850	8/16/2012 9:12	mg / cm ^2	5.45	SECOND	ENTRANCE TO 219	WALL	LOWER B	PLASTER	26 SF	FAIR	BLUE
3851	8/16/2012 9:13	mg / cm ^2	10.04	SECOND	ENTRANCE TO 219	WALL	LOWER D	PLASTER	26 SF	FAIR	BLUE
3852	8/16/2012 9:13	mg / cm ^2	4.39	SECOND	ENTRANCE TO 219	WALL	LOWER D	PLASTER	26 SF	FAIR	BLUE
3853	8/16/2012 9:13	mg / cm ^2	4	SECOND	ENTRANCE TO 219	WALL	LOWER D	PLASTER	26 SF	FAIR	BLUE
3896	8/16/2012 9:46	mg / cm ^2	4.87	SECOND	ENTRANCE TO 218	WALL	LOWER B	PLASTER	26 SF	FAIR	BLUE
3898	8/16/2012 9:46	mg / cm ^2	6.88	SECOND	ENTRANCE TO 218	WALL	LOWER B	PLASTER	26 SF	FAIR	BLUE
3899	8/16/2012 9:47	mg / cm ^2	5.75	SECOND	ENTRANCE TO 218	WALL	LOWER D	PLASTER	26 SF	FAIR	BLUE
3900	8/16/2012 9:47	mg / cm ^2	4.24	SECOND	ENTRANCE TO 218	WALL	LOWER D	PLASTER	26 SF	FAIR	BLUE
3901	8/16/2012 9:47	mg / cm ^2	3.73	SECOND	ENTRANCE TO 218	WALL	LOWER D	PLASTER	26 SF	FAIR	BLUE
3905	8/16/2012 9:49	mg / cm ^2	4.66	SECOND	ENTRANCE TO 218	WALL	UPPER D	PLASTER	15 SF	FAIR	WHITE
3906	8/16/2012 9:49	mg / cm ^2	2.46	SECOND	ENTRANCE TO 218	WALL	UPPER D	PLASTER	15 SF	FAIR	WHITE
3908	8/16/2012 9:49	mg / cm ^2	3.03	SECOND	ENTRANCE TO 218	CEILING	CENTER	PLASTER	16 SF	FAIR	WHITE
3909	8/16/2012 9:49	mg / cm ^2	4.13	SECOND	ENTRANCE TO 218	CEILING	CENTER	PLASTER	16 SF	FAIR	WHITE
3910	8/16/2012 9:49	mg / cm ^2	3.18	SECOND	ENTRANCE TO 218	CEILING	CENTER	PLASTER	16 SF	FAIR	WHITE
3931	8/16/2012 9:54	mg / cm ^2	3.7	SECOND	ENTRANCE TO 216	WALL	LOWER B	PLASTER	26 SF	FAIR	BLUE
3932	8/16/2012 9:54	mg / cm ^2	6.1	SECOND	ENTRANCE TO 216	WALL	LOWER D	PLASTER	26 SF	FAIR	BLUE
3933	8/16/2012 9:54	mg / cm ^2	3.81	SECOND	ENTRANCE TO 216	WALL	LOWER D	PLASTER	26 SF	FAIR	BLUE
3934	8/16/2012 9:54	mg / cm ^2	3.35	SECOND	ENTRANCE TO 216	WALL	LOWER D	PLASTER	26 SF	FAIR	BLUE
3970	8/16/2012 10:04	mg / cm ^2	6.18	SECOND	ENTRANCE TO 214	WALL	LOWER B	PLASTER	26 SF	FAIR	BLUE
3971	8/16/2012 10:04	mg / cm ^2	4.26	SECOND	ENTRANCE TO 214	WALL	LOWER B	PLASTER	26 SF	FAIR	BLUE
3972	8/16/2012 10:04	mg / cm ^2	3.75	SECOND	ENTRANCE TO 214	WALL	LOWER B	PLASTER	26 SF	FAIR	BLUE
3973	8/16/2012 10:04	mg / cm ^2	6.53	SECOND	ENTRANCE TO 214	WALL	LOWER D	PLASTER	26 SF	FAIR	BLUE
3974	8/16/2012 10:04	mg / cm ^2	4.27	SECOND	ENTRANCE TO 214	WALL	LOWER D	PLASTER	26 SF	FAIR	BLUE
3975	8/16/2012 10:04	mg / cm ^2	2.96	SECOND	ENTRANCE TO 214	WALL	LOWER D	PLASTER	26 SF	FAIR	BLUE
3976	8/16/2012 10:07	mg / cm ^2	3.36	SECOND	ENTRANCE TO 214	WALL	UPPER B	PLASTER	15 SF	POOR	WHITE
3977	8/16/2012 10:07	mg / cm ^2	3.73	SECOND	ENTRANCE TO 214	WALL	UPPER B	PLASTER	15 SF	POOR	WHITE
3978	8/16/2012 10:07	mg / cm ^2	3.14	SECOND	ENTRANCE TO 214	WALL	UPPER B	PLASTER	15 SF	POOR	WHITE
4012	8/16/2012 10:20	mg / cm ^2	5.82	SECOND	ENTRANCE TO 212	WALL	LOWER B	PLASTER	26 SF	FAIR	BLUE
4013	8/16/2012 10:20	mg / cm ^2	4.61	SECOND	ENTRANCE TO 212	WALL	LOWER B	PLASTER	26 SF	FAIR	BLUE
4014	8/16/2012 10:20	mg / cm ^2	2.81	SECOND	ENTRANCE TO 212	WALL	LOWER B	PLASTER	26 SF	FAIR	BLUE
4015	8/16/2012 10:20	mg / cm ^2	5.06	SECOND	ENTRANCE TO 212	WALL	LOWER D	PLASTER	26 SF	FAIR	BLUE
4016	8/16/2012 10:21	mg / cm ^2	5.8	SECOND	ENTRANCE TO 212	WALL	LOWER D	PLASTER	26 SF	FAIR	BLUE
4017	8/16/2012 10:21	mg / cm ^2	3.99	SECOND	ENTRANCE TO 212	WALL	LOWER D	PLASTER	26 SF	FAIR	BLUE
4048	8/16/2012 10:30	mg / cm ^2	10.2	SECOND	ENTRANCE TO 210	WALL	LOWER B	PLASTER	26 SF	FAIR	BLUE
4049	8/16/2012 10:30	mg / cm ^2	3.9	SECOND	ENTRANCE TO 210	WALL	LOWER B	PLASTER	26 SF	FAIR	BLUE
4050	8/16/2012 10:30	mg / cm ^2	5.09	SECOND	ENTRANCE TO 210	WALL	LOWER B	PLASTER	26 SF	FAIR	BLUE
4051	8/16/2012 10:30	mg / cm ^2	6.12	SECOND	ENTRANCE TO 210	WALL	LOWER D	PLASTER	26 SF	FAIR	BLUE
4052	8/16/2012 10:30	mg / cm ^2	3.64	SECOND	ENTRANCE TO 210	WALL	LOWER D	PLASTER	26 SF	FAIR	BLUE
4053	8/16/2012 10:30	mg / cm ^2	4.65	SECOND	ENTRANCE TO 210	WALL	LOWER D	PLASTER	26 SF	FAIR	BLUE
4090	8/16/2012 10:47	mg / cm ^2	4.31	SECOND	ENTRANCE TO 208	WALL	LOWER B	PLASTER	26 SF	FAIR	BLUE
4091	8/16/2012 10:47	mg / cm ^2	3.91	SECOND	ENTRANCE TO 208	WALL	LOWER B	PLASTER	26 SF	FAIR	BLUE
4092	8/16/2012 10:47	mg / cm ^2	4.91	SECOND	ENTRANCE TO 208	WALL	LOWER B	PLASTER	26 SF	FAIR	BLUE
4093	8/16/2012 10:47	mg / cm ^2	7.71	SECOND	ENTRANCE TO 208	WALL	LOWER D	PLASTER	26 SF	FAIR	BLUE
4094	8/16/2012 10:47	mg / cm ^2	3.86	SECOND	ENTRANCE TO 208	WALL	LOWER D	PLASTER	26 SF	FAIR	BLUE
4095	8/16/2012 10:47	mg / cm ^2	4.65	SECOND	ENTRANCE TO 208	WALL	LOWER D	PLASTER	26 SF	FAIR	BLUE
4102	8/16/2012 10:49	mg / cm ^2	3.08	SECOND	ENTRANCE TO 208	WALL	UPPER D	PLASTER	15 SF	FAIR	WHITE
4132	8/16/2012 10:56	mg / cm ^2	4.33	SECOND	ENTRANCE TO 206	WALL	LOWER B	PLASTER	26 SF	FAIR	BLUE
4133	8/16/2012 10:56	mg / cm ^2	3.35	SECOND	ENTRANCE TO 206	WALL	LOWER B	PLASTER	26 SF	FAIR	BLUE
4134	8/16/2012 10:56	mg / cm ^2	3.78	SECOND	ENTRANCE TO 206	WALL	LOWER B	PLASTER	26 SF	FAIR	BLUE
4135	8/16/2012 10:56	mg / cm ^2	6.43	SECOND	ENTRANCE TO 206	WALL	LOWER C	PLASTER	26 SF	FAIR	BLUE
4136	8/16/2012 10:56	mg / cm ^2	5.1	SECOND	ENTRANCE TO 206	WALL	LOWER C	PLASTER	26 SF	FAIR	BLUE
4137	8/16/2012 10:56	mg / cm ^2	5.1	SECOND	ENTRANCE TO 206	WALL	LOWER C	PLASTER	26 SF	FAIR	BLUE
4138	8/16/2012 10:58	mg / cm ^2	6.36	SECOND	ENTRANCE TO 206	WALL	UPPER B	PLASTER	15 SF	FAIR	WHITE
4139	8/16/2012 10:58	mg / cm ^2	5.09	SECOND	ENTRANCE TO 206	WALL	UPPER B	PLASTER	15 SF	FAIR	WHITE
4140	8/16/2012 10:58	mg / cm ^2	5.47	SECOND	ENTRANCE TO 206	WALL	UPPER B	PLASTER	15 SF	FAIR	WHITE
4141	8/16/2012 10:59	mg / cm ^2	4.27	SECOND	ENTRANCE TO 206	WALL	UPPER C	PLASTER	45F	FAIR	WHITE
4142	8/16/2012 10:59	mg / cm ^2	3.61	SECOND	ENTRANCE TO 206	WALL	UPPER C	PLASTER	45F	FAIR	WHITE
4143	8/16/2012 10:59	mg / cm ^2	5.33	SECOND	ENTRANCE TO 206	WALL	UPPER C	PLASTER	45F	FAIR	WHITE
4145	8/16/2012 10:59	mg / cm ^2	4.96	SECOND	ENTRANCE TO 206	WALL	UPPER D	PLASTER	15 SF	POOR	WHITE
4146	8/16/2012 10:59	mg / cm ^2	4.03	SECOND	ENTRANCE TO 206	WALL	UPPER D	PLASTER	15 SF	POOR	WHITE
4207	8/16/2012 11:16	mg / cm ^2	6.38	SECOND	ENTRANCE TO 204A	WALL	LOWER B	PLASTER	26 SF	FAIR	BLUE
4208	8/16/2012 11:16	mg / cm ^2	3.28	SECOND	ENTRANCE TO 204A	WALL	LOWER B	PLASTER	26 SF	FAIR	BLUE
4209	8/16/2012 11:16	mg / cm ^2	3.04	SECOND	ENTRANCE TO 204A	WALL	LOWER B	PLASTER	26 SF	FAIR	BLUE
4210	8/16/2012 11:17	mg / cm ^2	6.32	SECOND	ENTRANCE TO 204A	WALL	LOWER D	PLASTER	26 SF	FAIR	BLUE
4211	8/16/2012 11:17	mg / cm ^2	6.6	SECOND	ENTRANCE TO 204A	WALL	LOWER D	PLASTER	26 SF	FAIR	BLUE
4212	8/16/2012 11:17	mg / cm ^2	4.42	SECOND	ENTRANCE TO 204A	WALL	LOWER D	PLASTER	26 SF	FAIR	BLUE
4252	8/16/2012 11:28	mg / cm ^2	7.66	SECOND	ENTRANCE TO 202	WALL	LOWER B	PLASTER	26 SF	FAIR	BLUE
4253	8/16/2012 11:28	mg / cm ^2	5.39	SECOND	ENTRANCE TO 202	WALL	LOWER B	PLASTER	26 SF	FAIR	BLUE
4254	8/16/2012 11:28	mg / cm ^2	6.11	SECOND	ENTRANCE TO 202	WALL	LOWER B	PLASTER	26 SF	FAIR	BLUE
4255	8/16/2012 11:31	mg / cm ^2	9.2	SECOND	ENTRANCE TO 202	WALL	LOWER D	PLASTER	26 SF	FAIR	BLUE
4256	8/16/2012 11:31	mg / cm ^2	6.28	SECOND	ENTRANCE TO 202	WALL	LOWER D	PLASTER	26 SF	FAIR	BLUE
4257	8/16/2012 11:32	mg / cm ^2	4.94	SECOND	ENTRANCE TO 202	WALL	LOWER D	PLASTER	26 SF	FAIR	BLUE
4264	8/16/2012 11:35	mg / cm ^2	3.52	SECOND	ENTRANCE TO 202	WALL	UPPER D	PLASTER	15 SF	FAIR	WHITE
4265	8/16/2012 11:35	mg / cm ^2	2.98	SECOND	ENTRANCE TO 202	WALL	UPPER D	PLASTER			

Reading No	Time	Units	Pb	Floor	Room	Component	Side	Substrate	Quantity	Condition	Color
2662	8/14/2012 12:42	mg / cm ^2	7.86	THIRD	HALL	WALL	A	PLASTER	2175 SF	FAIR	BLUE
2663	8/14/2012 12:42	mg / cm ^2	4.04	THIRD	HALL	WALL	A	PLASTER	2175 SF	FAIR	BLUE
2664	8/14/2012 12:42	mg / cm ^2	3.84	THIRD	HALL	WALL	A	PLASTER	2175 SF	FAIR	BLUE
2665	8/14/2012 12:49	mg / cm ^2	6.85	THIRD	HALL	WALL	B	PLASTER	53 SF	FAIR	BLUE
2666	8/14/2012 12:49	mg / cm ^2	9.95	THIRD	HALL	WALL	B	PLASTER	53 SF	FAIR	BLUE
2667	8/14/2012 12:49	mg / cm ^2	5.68	THIRD	HALL	WALL	B	PLASTER	53 SF	FAIR	BLUE
2669	8/14/2012 12:49	mg / cm ^2	5.28	THIRD	HALL	WALL	C	PLASTER	2275 SF	FAIR	BLUE
2670	8/14/2012 12:49	mg / cm ^2	3.48	THIRD	HALL	WALL	C	PLASTER	2275 SF	FAIR	BLUE
2671	8/14/2012 12:51	mg / cm ^2	6.07	THIRD	HALL	WALL	D	PLASTER	53 SF	FAIR	BLUE
2672	8/14/2012 12:51	mg / cm ^2	5.13	THIRD	HALL	WALL	D	PLASTER	53 SF	FAIR	BLUE
2673	8/14/2012 12:51	mg / cm ^2	6.39	THIRD	HALL	WALL	D	PLASTER	53 SF	FAIR	BLUE
2733	8/14/2012 13:25	mg / cm ^2	9.29	THIRD	HALL OFF 307 AND 305A STAIRS	WALL	B	PLASTER	100 SF	FAIR	BLUE
2734	8/14/2012 13:25	mg / cm ^2	5	THIRD	HALL OFF 307 AND 305A STAIRS	WALL	B	PLASTER	100 SF	FAIR	BLUE
2735	8/14/2012 13:25	mg / cm ^2	6.68	THIRD	HALL OFF 307 AND 305A STAIRS	WALL	B	PLASTER	100 SF	FAIR	BLUE
2736	8/14/2012 13:26	mg / cm ^2	6.99	THIRD	HALL OFF 307 AND 305A STAIRS	WALL	C	PLASTER	100 SF	FAIR	BLUE
2737	8/14/2012 13:26	mg / cm ^2	3.98	THIRD	HALL OFF 307 AND 305A STAIRS	WALL	C	PLASTER	100 SF	FAIR	BLUE
2738	8/14/2012 13:26	mg / cm ^2	4.05	THIRD	HALL OFF 307 AND 305A STAIRS	WALL	C	PLASTER	100 SF	FAIR	BLUE
3007	8/15/2012 10:38	mg / cm ^2	7.21	THIRD	OUTSIDE ROOF	DOWNSPOUT	A	METAL	10 SF	POOR	BEIGE
3008	8/15/2012 10:38	mg / cm ^2	4.17	THIRD	OUTSIDE ROOF	DOWNSPOUT	A	METAL	10 SF	POOR	BEIGE
3009	8/15/2012 10:38	mg / cm ^2	5.97	THIRD	OUTSIDE ROOF	DOWNSPOUT	A	METAL	10 SF	POOR	BEIGE
4291	8/16/2012 12:03	mg / cm ^2	4.84	THIRD	ENTRANCE TO 301	WALL	LOWER B	PLASTER	26 SF	FAIR	BLUE
4292	8/16/2012 12:03	mg / cm ^2	7.26	THIRD	ENTRANCE TO 301	WALL	LOWER B	PLASTER	26 SF	FAIR	BLUE
4293	8/16/2012 12:03	mg / cm ^2	5.28	THIRD	ENTRANCE TO 301	WALL	LOWER B	PLASTER	26 SF	FAIR	BLUE
4294	8/16/2012 12:03	mg / cm ^2	13.4	THIRD	ENTRANCE TO 301	WALL	LOWER D	PLASTER	26 SF	FAIR	BLUE
4295	8/16/2012 12:03	mg / cm ^2	5.21	THIRD	ENTRANCE TO 301	WALL	LOWER D	PLASTER	26 SF	FAIR	BLUE
4296	8/16/2012 12:03	mg / cm ^2	6.28	THIRD	ENTRANCE TO 301	WALL	LOWER D	PLASTER	26 SF	FAIR	BLUE
4324	8/16/2012 12:11	mg / cm ^2	10.59	THIRD	ENTRANCE TO 303	WALL	LOWER B	PLASTER	26 SF	FAIR	BLUE
4325	8/16/2012 12:11	mg / cm ^2	5.07	THIRD	ENTRANCE TO 303	WALL	LOWER B	PLASTER	26 SF	FAIR	BLUE
4326	8/16/2012 12:11	mg / cm ^2	5.57	THIRD	ENTRANCE TO 303	WALL	LOWER B	PLASTER	26 SF	FAIR	BLUE
4327	8/16/2012 12:11	mg / cm ^2	7.67	THIRD	ENTRANCE TO 303	WALL	LOWER D	PLASTER	26 SF	FAIR	BLUE
4328	8/16/2012 12:12	mg / cm ^2	5.05	THIRD	ENTRANCE TO 303	WALL	LOWER D	PLASTER	26 SF	FAIR	BLUE
4329	8/16/2012 12:12	mg / cm ^2	5.35	THIRD	ENTRANCE TO 303	WALL	LOWER D	PLASTER	26 SF	FAIR	BLUE
4360	8/16/2012 12:21	mg / cm ^2	6.24	THIRD	ENTRANCE TO 305	WALL	LOWER B	PLASTER	26 SF	FAIR	BLUE
4362	8/16/2012 12:21	mg / cm ^2	4.97	THIRD	ENTRANCE TO 305	WALL	LOWER B	PLASTER	26 SF	FAIR	BLUE
4363	8/16/2012 12:21	mg / cm ^2	6.1	THIRD	ENTRANCE TO 305	WALL	LOWER D	PLASTER	26 SF	FAIR	BLUE
4364	8/16/2012 12:21	mg / cm ^2	9.66	THIRD	ENTRANCE TO 305	WALL	LOWER D	PLASTER	26 SF	FAIR	BLUE
4365	8/16/2012 12:21	mg / cm ^2	7.45	THIRD	ENTRANCE TO 305	WALL	LOWER D	PLASTER	26 SF	FAIR	BLUE
4393	8/16/2012 12:28	mg / cm ^2	16.12	THIRD	ENTRANCE TO 305A	WALL	LOWER B	PLASTER	26 SF	FAIR	BLUE
4394	8/16/2012 12:28	mg / cm ^2	5.37	THIRD	ENTRANCE TO 305A	WALL	LOWER B	PLASTER	26 SF	FAIR	BLUE
4395	8/16/2012 12:28	mg / cm ^2	6.03	THIRD	ENTRANCE TO 305A	WALL	LOWER B	PLASTER	26 SF	FAIR	BLUE
4422	8/16/2012 12:42	mg / cm ^2	3.58	THIRD	ENTRANCE TO 307 AND GYM	WALL	LOWER B	PLASTER	26 SF	FAIR	BLUE
4423	8/16/2012 12:42	mg / cm ^2	5.49	THIRD	ENTRANCE TO 307 AND GYM	WALL	LOWER B	PLASTER	26 SF	FAIR	BLUE
4424	8/16/2012 12:42	mg / cm ^2	4.97	THIRD	ENTRANCE TO 307 AND GYM	WALL	LOWER B	PLASTER	26 SF	FAIR	BLUE
4425	8/16/2012 12:43	mg / cm ^2	5.5	THIRD	ENTRANCE TO 307 AND GYM	WALL	LOWER D	PLASTER	26 SF	FAIR	BLUE
4426	8/16/2012 12:43	mg / cm ^2	6.12	THIRD	ENTRANCE TO 307 AND GYM	WALL	LOWER D	PLASTER	26 SF	FAIR	BLUE
4427	8/16/2012 12:43	mg / cm ^2	3.76	THIRD	ENTRANCE TO 307 AND GYM	WALL	LOWER D	PLASTER	26 SF	FAIR	BLUE
4452	8/16/2012 12:50	mg / cm ^2	2.72	THIRD	ENTRANCE TO 307 AND GYM	WALL	LOWER B	PLASTER	26 SF	FAIR	BLUE
4453	8/16/2012 12:50	mg / cm ^2	3.21	THIRD	ENTRANCE TO 307 AND GYM	WALL	LOWER B	PLASTER	26 SF	FAIR	BLUE
4454	8/16/2012 12:50	mg / cm ^2	4.14	THIRD	ENTRANCE TO 307 AND GYM	WALL	LOWER B	PLASTER	26 SF	FAIR	BLUE
4455	8/16/2012 12:50	mg / cm ^2	4.2	THIRD	ENTRANCE TO 307 AND GYM	WALL	LOWER D	PLASTER	26 SF	FAIR	BLUE
4456	8/16/2012 12:50	mg / cm ^2	2.93	THIRD	ENTRANCE TO 307 AND GYM	WALL	LOWER D	PLASTER	26 SF	FAIR	BLUE
4457	8/16/2012 12:51	mg / cm ^2	4.41	THIRD	ENTRANCE TO 307 AND GYM	WALL	LOWER D	PLASTER	26 SF	FAIR	BLUE
4492	8/16/2012 12:59	mg / cm ^2	7.99	THIRD	ENTRANCE TO 313A	WALL	LOWER B	PLASTER	26 SF	FAIR	BLUE
4493	8/16/2012 12:59	mg / cm ^2	3.85	THIRD	ENTRANCE TO 313A	WALL	LOWER B	PLASTER	26 SF	FAIR	BLUE
4494	8/16/2012 12:59	mg / cm ^2	3.96	THIRD	ENTRANCE TO 313A	WALL	LOWER B	PLASTER	26 SF	FAIR	BLUE
4531	8/16/2012 13:06	mg / cm ^2	5.98	THIRD	ENTRANCE TO 313	WALL	LOWER B	PLASTER	26 SF	FAIR	BLUE
4532	8/16/2012 13:07	mg / cm ^2	8.81	THIRD	ENTRANCE TO 313	WALL	LOWER D	PLASTER	26 SF	FAIR	BLUE
4533	8/16/2012 13:07	mg / cm ^2	3.28	THIRD	ENTRANCE TO 313	WALL	LOWER D	PLASTER	26 SF	FAIR	BLUE
4534	8/16/2012 13:07	mg / cm ^2	3.24	THIRD	ENTRANCE TO 313	WALL	LOWER D	PLASTER	26 SF	FAIR	BLUE
4565	8/16/2012 13:30	mg / cm ^2	11.88	THIRD	ENTRANCE TO 315	WALL	LOWER B	PLASTER	26 SF	FAIR	BLUE
4566	8/16/2012 13:30	mg / cm ^2	4.55	THIRD	ENTRANCE TO 315	WALL	LOWER B	PLASTER	26 SF	FAIR	BLUE
4567	8/16/2012 13:30	mg / cm ^2	7.46	THIRD	ENTRANCE TO 315	WALL	LOWER B	PLASTER	26 SF	FAIR	BLUE
4568	8/16/2012 13:30	mg / cm ^2	7.25	THIRD	ENTRANCE TO 315	WALL	LOWER D	PLASTER	26 SF	FAIR	BLUE
4569	8/16/2012 13:30	mg / cm ^2	5.45	THIRD	ENTRANCE TO 315	WALL	LOWER D	PLASTER	26 SF	FAIR	BLUE
4570	8/16/2012 13:30	mg / cm ^2	6.25	THIRD	ENTRANCE TO 315	WALL	LOWER D	PLASTER	26 SF	FAIR	BLUE
4595	8/16/2012 13:36	mg / cm ^2	5.25	THIRD	ENTRANCE TO 317	WALL	LOWER B	PLASTER	26 SF	FAIR	BLUE
4596	8/16/2012 13:36	mg / cm ^2	3.7	THIRD	ENTRANCE TO 317	WALL	LOWER B	PLASTER	26 SF	FAIR	BLUE
4597	8/16/2012 13:36	mg / cm ^2	5.04	THIRD	ENTRANCE TO 317	WALL	LOWER B	PLASTER	26 SF	FAIR	BLUE
4598	8/16/2012 13:36	mg / cm ^2	8.07	THIRD	ENTRANCE TO 317	WALL	LOWER D	PLASTER	26 SF	FAIR	BLUE
4599	8/16/2012 13:36	mg / cm ^2	4.99	THIRD	ENTRANCE TO 317	WALL	LOWER D	PLASTER	26 SF	FAIR	BLUE
4600	8/16/2012 13:36	mg / cm ^2	3.81	THIRD	ENTRANCE TO 317	WALL	LOWER D	PLASTER	26 SF	FAIR	BLUE
4628	8/16/2012 13:42	mg / cm ^2	2.18	THIRD	ENTRANCE TO 319	WALL	LOWER B	PLASTER	26 SF	FAIR	BLUE
4630	8/16/2012 13:43	mg / cm ^2	5.49	THIRD	ENTRANCE TO 319	WALL	LOWER B	PLASTER	26 SF	FAIR	BLUE
4631	8/16/2012 13:43	mg / cm ^2	5.54	THIRD	ENTRANCE TO 319	WALL	LOWER D	PLASTER	26 SF	FAIR	BLUE
4632	8/16/2012 13:43	mg / cm ^2	3	THIRD	ENTRANCE TO 319	WALL	LOWER D	PLASTER	26 SF	FAIR	BLUE
4633	8/16/2012 13:43	mg / cm ^2	3.87	THIRD	ENTRANCE TO 319	WALL	LOWER D	PLASTER	26 SF	FAIR	BLUE
4664	8/16/2012 13:55	mg / cm ^2	10.84	THIRD	ENTRANCE TO 318	WALL	LOWER B	PLASTER	26 SF	FAIR	BLUE
4665	8/16/2012 13:55	mg / cm ^2	3.89	THIRD	ENTRANCE TO 318	WALL	LOWER B	PLASTER	26 SF	FAIR	BLUE
4666	8/16/2012 13:55	mg / cm ^2	4.17	THIRD	ENTRANCE TO 318	WALL	LOWER B	PLASTER	26 SF	FAIR	BLUE
4667	8/16/2012 13:55	mg / cm ^2	4.12	THIRD	ENTRANCE TO 318	WALL	LOWER D	PLASTER	26 SF	FAIR	BLUE
4668	8/16/2012 13:55	mg / cm ^2	5.86	THIRD	ENTRANCE TO 318	WALL	LOWER D	PLASTER	26 SF	FAIR	BLUE
4669	8/16/2012 13:55	mg / cm ^2	4.9	THIRD	ENTRANCE TO 318	WALL	LOWER D	PLASTER	26 SF	FAIR	BLUE
4696	8/16/2012 14:06	mg / cm ^2	9.81	THIRD	ENTRANCE TO 316	WALL	LOWER B	PLASTER	26 SF	FAIR	BLUE
4697	8/16/2012 14:06	mg / cm ^2	7.24	THIRD	ENTRANCE TO 316	WALL	LOWER B	PLASTER	26 SF	FAIR	BLUE
4698	8/16/2012 14:06	mg / cm ^2	7.62	THIRD	ENTRANCE TO 316	WALL	LOWER B	PLASTER	26 SF	FAIR	BLUE
4699	8/16/2012 14:06	mg / cm ^2	7.58	THIRD	ENTRANCE TO 316	WALL	LOWER D	PLASTER	26 SF	FAIR	BLUE
4700	8/16/2012 14:06	mg / cm ^2	7.96	THIRD	ENTRANCE TO 316	WALL	LOWER D	PLASTER	26 SF	FAIR	BLUE
4701	8/16/2012 14:06	mg / cm ^2	7.58	THIRD	ENTRANCE TO 316	WALL	LOWER D	PLASTER	26 SF	FAIR	BLUE
4723	8/16/2012 14:12	mg / cm ^2	6.55	THIRD	ENTRANCE TO 312	WALL	LOWER B	PLASTER	26 SF	FAIR	BLUE
4724	8/16/2012 14:12	mg / cm ^2	4.61	THIRD	ENTRANCE TO 312	WALL	LOWER B	PLASTER	26 SF	FAIR	BLUE
4725	8/16/2012 14:12	mg / cm ^2	3.52	THIRD	ENTRANCE TO 312	WALL	LOWER B	PLASTER	26 SF	FAIR	BLUE
4726	8/16/2012 14:13	mg / cm ^2	5.06	THIRD	ENTRANCE TO 312	WALL	LOWER D	PLASTER	26 SF	FAIR	BLUE
4727	8/16/2012 14:13	mg / cm ^2	11.18	THIRD	ENTRANCE TO 312	WALL	LOWER D	PLASTER	26 SF	FAIR	BLUE
4728	8/16/2012 14:13	mg / cm ^2	12.96	THIRD	ENTRANCE TO 312	WALL	LOWER D	PLASTER	26 SF	FAIR	BLUE
4729	8/16/2012 14:13	mg / cm ^2	9.46	THIRD	ENTRANCE TO 312	WALL	LOWER D	PLASTER	26 SF	FAIR	BLUE
4757	8/16/2012 14:21	mg / cm ^2	5.06	THIRD	ENTRANCE TO 310	WALL	LOWER B	PLASTER	26 SF	FAIR	BLUE
4758	8/16/2012 14:21	mg / cm ^2	4.23	THIRD	ENTRANCE TO 310	WALL	LOWER B	PLASTER	26 SF	FAIR	BLUE
4759	8/16/2012 14:21	mg / cm ^2	3.25	THIRD	ENTRANCE TO 310	WALL	LOWER B	PLASTER	26 SF	FAIR	BLUE
4760	8/16/2012 14:21	mg / cm ^2	5.5	THIRD	ENTRANCE TO 310	WALL	LOWER D	PLASTER	26 SF	FAIR	BLUE
4761	8/16/2012 14:21	mg / cm ^2	3.9	THIRD	ENTRANCE TO 310	WALL	LOWER D	PLASTER	26 SF	FAIR	BLUE
4762	8/16/2012 14:21	mg / cm ^2	6.11	THIRD	ENTRANCE TO 310	WALL	LOWER D	PLASTER	26 SF	FAIR	BLUE
4790	8/16/2012 14:28	mg / cm ^2	11.3	THIRD	ENTRANCE TO 308	WALL	LOWER B	PLASTER	26 SF	FAIR	BLUE
4791	8/16/2012 14:28	mg / cm ^2	7.6	THIRD	ENTRANCE TO 308	WALL	LOWER B	PLASTER	26 SF	FAIR	BLUE
4792	8/16/2012 14:28	mg / cm ^2	10.17	THIRD	ENTRANCE TO 308	WALL	LOWER B	PLASTER	26 SF	FAIR	BLUE
4793	8/16/2012 14:28	mg / cm ^2	7.01	THIRD	ENTRANCE TO 308	WALL	LOWER D	PLASTER	26 SF	FAIR	

## **Appendix C**

### **Raw Data From XRF**



Reading No	Time	Type	Units	Results	Pb	Quantity	Component	Substrate	Side	Condition	Color	Floor	Room
2	8/8/2012 12:32	ACTION LEAD PAINT	mg / cm <sup>2</sup>	INCONCLUSIVE	1.01		WALL	PLASTER	CALIBRATE	FAIR	RED		
3	8/8/2012 12:32	ACTION LEAD PAINT	mg / cm <sup>2</sup>	INCONCLUSIVE	1.11		WALL	PLASTER	CALIBRATE	FAIR	RED		
4	8/8/2012 12:32	ACTION LEAD PAINT	mg / cm <sup>2</sup>	INCONCLUSIVE	1.11		WALL	PLASTER	CALIBRATE	FAIR	RED		
7	8/8/2012 12:36	ACTION LEAD PAINT	mg / cm <sup>2</sup>	INCONCLUSIVE	1.08				CALIBRATE				
276	8/8/2012 15:53	ACTION LEAD PAINT	mg / cm <sup>2</sup>	INCONCLUSIVE	1.12		WALL	GLASS	CALIBRATE	INTACT	MULTI COLOR	FIRST	MDF ROOM
278	8/8/2012 15:54	ACTION LEAD PAINT	mg / cm <sup>2</sup>	INCONCLUSIVE	1.03		WALL	GLASS	CALIBRATE	INTACT	MULTI COLOR	FIRST	MDF ROOM
282	8/9/2012 7:58	ACTION LEAD PAINT	mg / cm <sup>2</sup>	INCONCLUSIVE	1.1				CALIBRATE		RED		
284	8/9/2012 7:59	ACTION LEAD PAINT	mg / cm <sup>2</sup>	INCONCLUSIVE	1.07				CALIBRATE		RED		
1001	8/9/2012 15:52	ACTION LEAD PAINT	mg / cm <sup>2</sup>	INCONCLUSIVE	1.1		BENCH	WOOD	CALIBRATE	FAIR	STAIN	FIRST	OFFICE 100
1002	8/9/2012 15:53	ACTION LEAD PAINT	mg / cm <sup>2</sup>	INCONCLUSIVE	1.08		BENCH	WOOD	CALIBRATE	FAIR	STAIN	FIRST	OFFICE 100
1007	8/10/2012 7:24	ACTION LEAD PAINT	mg / cm <sup>2</sup>	INCONCLUSIVE	1.03				CALIBRATE			FIRST	OFFICE 100
1008	8/10/2012 7:24	ACTION LEAD PAINT	mg / cm <sup>2</sup>	INCONCLUSIVE	1.03				CALIBRATE			FIRST	OFFICE 100
1159	8/10/2012 8:44	ACTION LEAD PAINT	mg / cm <sup>2</sup>	INCONCLUSIVE	1.01		SWITCH BOX	METAL	B	FAIR	RED	BASEMENT	BOILER ROOM
1160	8/10/2012 8:44	ACTION LEAD PAINT	mg / cm <sup>2</sup>	INCONCLUSIVE	1.01		SWITCH BOX	METAL	B	FAIR	RED	BASEMENT	BOILER ROOM
254	8/10/2012 9:23	ACTION LEAD PAINT	mg / cm <sup>2</sup>	INCONCLUSIVE	1.06		DOOR INCINERATOR	CONCRETE	A	FAIR	GRAY	BASEMENT	BOILER ROOM
1745	8/10/2012 14:47	ACTION LEAD PAINT	mg / cm <sup>2</sup>	INCONCLUSIVE	1.01				CALIBRATE			SECOND	SOUTH HALL OF AUDITORIUM
1749	8/13/2012 7:57	ACTION LEAD PAINT	mg / cm <sup>2</sup>	INCONCLUSIVE	1.07				CALIBRATE				
1750	8/13/2012 7:58	ACTION LEAD PAINT	mg / cm <sup>2</sup>	INCONCLUSIVE	0.99				CALIBRATE				
1836	8/13/2012 8:46	ACTION LEAD PAINT	mg / cm <sup>2</sup>	INCONCLUSIVE	0.92		HAND RAIL	METAL	EAST	FAIR	BROWN	SECOND	AUDITORIUM BALCONY
1850	8/13/2012 9:01	ACTION LEAD PAINT	mg / cm <sup>2</sup>	INCONCLUSIVE	1.6		DECORATIVE WALL	PLASTER	C	FAIR	WHITE	SECOND	AUDITORIUM BALCONY
2102	8/13/2012 12:03	ACTION LEAD PAINT	mg / cm <sup>2</sup>	INCONCLUSIVE	1.06				CALIBRATE			SECOND	BATHROOM NW
2111	8/14/2012 7:33	ACTION LEAD PAINT	mg / cm <sup>2</sup>	INCONCLUSIVE	1.12				CALIBRATE				
2112	8/14/2012 7:33	ACTION LEAD PAINT	mg / cm <sup>2</sup>	INCONCLUSIVE	1.04				CALIBRATE				
2113	8/14/2012 7:34	ACTION LEAD PAINT	mg / cm <sup>2</sup>	INCONCLUSIVE	1.1				CALIBRATE				
2115	8/14/2012 7:34	ACTION LEAD PAINT	mg / cm <sup>2</sup>	INCONCLUSIVE	1.13				CALIBRATE				
2125	8/14/2012 7:45	ACTION LEAD PAINT	mg / cm <sup>2</sup>	INCONCLUSIVE	1.06		WALL	PLASTER	UPPER B	FAIR	WHITE	THIRD	BATHROOM NW VESTIBULE
2779	8/14/2012 14:42	ACTION LEAD PAINT	mg / cm <sup>2</sup>	INCONCLUSIVE	1.01				CALIBRATE				
2780	8/14/2012 14:42	ACTION LEAD PAINT	mg / cm <sup>2</sup>	INCONCLUSIVE	1.09				CALIBRATE				
2781	8/14/2012 14:42	ACTION LEAD PAINT	mg / cm <sup>2</sup>	INCONCLUSIVE	1.08				CALIBRATE				
2782	8/14/2012 14:43	ACTION LEAD PAINT	mg / cm <sup>2</sup>	INCONCLUSIVE	1.13				CALIBRATE				
2788	8/15/2012 7:45	ACTION LEAD PAINT	mg / cm <sup>2</sup>	INCONCLUSIVE	1.07				CALIBRATE				
3566	8/15/2012 15:48	ACTION LEAD PAINT	mg / cm <sup>2</sup>	INCONCLUSIVE	1.08				CALIBRATE			FIRST	ENTRANCE TO 113A
3571	8/16/2012 7:41	ACTION LEAD PAINT	mg / cm <sup>2</sup>	INCONCLUSIVE	1.11				CALIBRATE				
3572	8/16/2012 7:41	ACTION LEAD PAINT	mg / cm <sup>2</sup>	INCONCLUSIVE	1.09				CALIBRATE				
3574	8/16/2012 7:42	ACTION LEAD PAINT	mg / cm <sup>2</sup>	INCONCLUSIVE	1.1				CALIBRATE				
4960	8/16/2012 15:22	ACTION LEAD PAINT	mg / cm <sup>2</sup>	INCONCLUSIVE	1.08				CALIBRATE			THIRD	ENTRANCE TO 302
1	8/8/2012 12:37	ACTION LEAD PAINT	mg / cm <sup>2</sup>	NEGATIVE	<LOD		WALL	PLASTER	CALIBRATE	FAIR	RED		
10	8/8/2012 12:37	ACTION LEAD PAINT	mg / cm <sup>2</sup>	NEGATIVE	<LOD				CALIBRATE				
11	8/8/2012 12:37	ACTION LEAD PAINT	mg / cm <sup>2</sup>	NEGATIVE	<LOD				CALIBRATE				
12	8/8/2012 12:37	ACTION LEAD PAINT	mg / cm <sup>2</sup>	NEGATIVE	<LOD				CALIBRATE				
13	8/8/2012 12:37	ACTION LEAD PAINT	mg / cm <sup>2</sup>	NEGATIVE	<LOD		WALL	PLASTER	LOWER A	INTACT	YELLOW	FIRST	LUNCH ROOM
14	8/8/2012 12:37	ACTION LEAD PAINT	mg / cm <sup>2</sup>	NEGATIVE	<LOD		WALL	PLASTER	LOWER A	INTACT	YELLOW	FIRST	LUNCH ROOM
15	8/8/2012 12:52	ACTION LEAD PAINT	mg / cm <sup>2</sup>	NEGATIVE	<LOD		WALL	PLASTER	LOWER A	INTACT	YELLOW	FIRST	LUNCH ROOM
16	8/8/2012 12:52	ACTION LEAD PAINT	mg / cm <sup>2</sup>	NEGATIVE	<LOD		WALL	PLASTER	LOWER A	INTACT	YELLOW	FIRST	LUNCH ROOM
18	8/8/2012 13:03	ACTION LEAD PAINT	mg / cm <sup>2</sup>	NEGATIVE	<LOD		PICTURE RAIL	WOOD	A	INTACT	STAIN VARNISH	FIRST	LUNCH ROOM
19	8/8/2012 13:03	ACTION LEAD PAINT	mg / cm <sup>2</sup>	NEGATIVE	<LOD		PICTURE RAIL	WOOD	A	INTACT	STAIN VARNISH	FIRST	LUNCH ROOM
20	8/8/2012 13:03	ACTION LEAD PAINT	mg / cm <sup>2</sup>	NEGATIVE	<LOD		PICTURE RAIL	WOOD	A	INTACT	STAIN VARNISH	FIRST	LUNCH ROOM
21	8/8/2012 13:03	ACTION LEAD PAINT	mg / cm <sup>2</sup>	NEGATIVE	<LOD		DOOR	METAL	A	INTACT	STAIN VARNISH	FIRST	LUNCH ROOM
22	8/8/2012 13:03	ACTION LEAD PAINT	mg / cm <sup>2</sup>	NEGATIVE	<LOD		DOOR	METAL	A	INTACT	STAIN VARNISH	FIRST	LUNCH ROOM
23	8/8/2012 13:05	ACTION LEAD PAINT	mg / cm <sup>2</sup>	NEGATIVE	<LOD		DOOR	METAL	A	INTACT	STAIN VARNISH	FIRST	LUNCH ROOM
24	8/8/2012 13:07	ACTION LEAD PAINT	mg / cm <sup>2</sup>	NEGATIVE	<LOD		DOOR CASING	METAL	A	INTACT	STAIN VARNISH	FIRST	LUNCH ROOM
25	8/8/2012 13:07	ACTION LEAD PAINT	mg / cm <sup>2</sup>	NEGATIVE	<LOD		DOOR CASING	METAL	A	INTACT	STAIN VARNISH	FIRST	LUNCH ROOM
26	8/8/2012 13:07	ACTION LEAD PAINT	mg / cm <sup>2</sup>	NEGATIVE	<LOD		DOOR CASING	METAL	A	INTACT	STAIN VARNISH	FIRST	LUNCH ROOM
27	8/8/2012 13:10	ACTION LEAD PAINT	mg / cm <sup>2</sup>	NEGATIVE	<LOD		VENT	METAL	A	INTACT	BROWN	FIRST	LUNCH ROOM
28	8/8/2012 13:10	ACTION LEAD PAINT	mg / cm <sup>2</sup>	NEGATIVE	<LOD		VENT	METAL	A	INTACT	BROWN	FIRST	LUNCH ROOM
29	8/8/2012 13:10	ACTION LEAD PAINT	mg / cm <sup>2</sup>	NEGATIVE	<LOD		VENT	METAL	A	INTACT	BROWN	FIRST	LUNCH ROOM
30	8/8/2012 13:11	ACTION LEAD PAINT	mg / cm <sup>2</sup>	NEGATIVE	<LOD		VENT	METAL	B	INTACT	BROWN	FIRST	LUNCH ROOM
31	8/8/2012 13:11	ACTION LEAD PAINT	mg / cm <sup>2</sup>	NEGATIVE	<LOD		VENT	METAL	B	INTACT	BROWN	FIRST	LUNCH ROOM
32	8/8/2012 13:11	ACTION LEAD PAINT	mg / cm <sup>2</sup>	NEGATIVE	<LOD		VENT	METAL	B	INTACT	BROWN	FIRST	LUNCH ROOM
33	8/8/2012 13:13	ACTION LEAD PAINT	mg / cm <sup>2</sup>	NEGATIVE	<LOD		DOOR	WOOD	B	FAIR	STAIN VARNISH	FIRST	LUNCH ROOM
34	8/8/2012 13:13	ACTION LEAD PAINT	mg / cm <sup>2</sup>	NEGATIVE	<LOD		DOOR	WOOD	B	FAIR	STAIN VARNISH	FIRST	LUNCH ROOM
35	8/8/2012 13:13	ACTION LEAD PAINT	mg / cm <sup>2</sup>	NEGATIVE	<LOD		DOOR	WOOD	B	FAIR	STAIN VARNISH	FIRST	LUNCH ROOM
36	8/8/2012 13:14	ACTION LEAD PAINT	mg / cm <sup>2</sup>	NEGATIVE	<LOD		DOOR CASING	WOOD	B	FAIR	STAIN VARNISH	FIRST	LUNCH ROOM
37	8/8/2012 13:14	ACTION LEAD PAINT	mg / cm <sup>2</sup>	NEGATIVE	<LOD		DOOR CASING	WOOD	B	FAIR	STAIN VARNISH	FIRST	LUNCH ROOM
38	8/8/2012 13:14	ACTION LEAD PAINT	mg / cm <sup>2</sup>	NEGATIVE	<LOD		DOOR CASING	WOOD	B	FAIR	STAIN VARNISH	FIRST	LUNCH ROOM
39	8/8/2012 13:15	ACTION LEAD PAINT	mg / cm <sup>2</sup>	NEGATIVE	<LOD		WALL	PLASTER	B	INTACT	YELLOW	FIRST	LUNCH ROOM
40	8/8/2012 13:15	ACTION LEAD PAINT	mg / cm <sup>2</sup>	NEGATIVE	<LOD		WALL	PLASTER	B	INTACT	YELLOW	FIRST	LUNCH ROOM
41	8/8/2012 13:15	ACTION LEAD PAINT	mg / cm <sup>2</sup>	NEGATIVE	<LOD		WALL	PLASTER	B	INTACT	YELLOW	FIRST	LUNCH ROOM
42	8/8/2012 13:17	ACTION LEAD PAINT	mg / cm <sup>2</sup>	NEGATIVE	<LOD		WALL	PLASTER	UPPER B	INTACT	WHITE	FIRST	LUNCH ROOM
43	8/8/2012 13:17	ACTION LEAD PAINT	mg / cm <sup>2</sup>	NEGATIVE	<LOD		WALL	PLASTER	UPPER B	INTACT	WHITE	FIRST	LUNCH ROOM
44	8/8/2012 13:18	ACTION LEAD PAINT	mg / cm <sup>2</sup>	NEGATIVE	<LOD		WALL	PLASTER	UPPER B	INTACT	WHITE	FIRST	LUNCH ROOM
45	8/8/2012 13:19	ACTION LEAD PAINT	mg / cm <sup>2</sup>	NEGATIVE	<LOD		TRIM	WOOD	B	INTACT	WHITE	FIRST	LUNCH ROOM
46	8/8/2012 13:19	ACTION LEAD PAINT	mg / cm <sup>2</sup>	NEGATIVE	<LOD		TRIM	WOOD	B	INTACT	WHITE	FIRST	LUNCH ROOM
47	8/8/2012 13:19	ACTION LEAD PAINT	mg / cm <sup>2</sup>	NEGATIVE	<LOD		TRIM	WOOD	B	INTACT	WHITE	FIRST	LUNCH ROOM
48	8/8/2012 13:19	ACTION LEAD PAINT	mg / cm <sup>2</sup>	NEGATIVE	<LOD		TRIM	METAL	B	INTACT	YELLOW	FIRST	LUNCH ROOM
49	8/8/2012 13:20	ACTION LEAD PAINT	mg / cm <sup>2</sup>	NEGATIVE	<LOD		TRIM	METAL	B	INTACT	YELLOW	FIRST	LUNCH ROOM
50	8/8/2012 13:20	ACTION LEAD PAINT	mg / cm <sup>2</sup>	NEGATIVE	<LOD		TRIM	METAL	B	INTACT	YELLOW	FIRST	LUNCH ROOM
51	8/8/2012 13:30	ACTION LEAD PAINT	mg / cm <sup>2</sup>	NEGATIVE	<LOD		TRIM	WOOD	UPPER A	INTACT	WHITE	FIRST	LUNCH ROOM
52	8/8/2012 13:30	ACTION LEAD PAINT	mg / cm <sup>2</sup>	NEGATIVE	<LOD		TRIM	WOOD	UPPER A	INTACT	WHITE	FIRST	LUNCH ROOM
53	8/8/2012 13:31	ACTION LEAD PAINT	mg / cm <sup>2</sup>	NEGATIVE	<LOD		TRIM	WOOD	UPPER A	INTACT	WHITE	FIRST	LUNCH ROOM
54	8/8/2012 13:41	ACTION LEAD PAINT	mg / cm <sup>2</sup>	NEGATIVE	<LOD		WALL	WOOD	UPPER B	INTACT	WHITE	FIRST	LUNCH ROOM
55	8/8/2012 13:41	ACTION LEAD PAINT	mg / cm <sup>2</sup>	NEGATIVE	<LOD		WALL	WOOD	UPPER B	INTACT	WHITE	FIRST	LUNCH ROOM
56	8/8/2012 13:41	ACTION LEAD PAINT	mg / cm <sup>2</sup>	NEGATIVE	<LOD		WALL	WOOD	UPPER B	INTACT	WHITE	FIRST	LUNCH ROOM
57	8/8/2012 13:41	ACTION LEAD PAINT	mg / cm <sup>2</sup>	NEGATIVE	<LOD		WALL	WOOD	UPPER B	INTACT	WHITE	FIRST	LUNCH ROOM
58	8/8/2012 13:46	ACTION LEAD PAINT	mg / cm <sup>2</sup>	NEGATIVE	<LOD		CEILING	PLASTER	LEFT	FAIR	WHITE	FIRST	LUNCH ROOM
59	8/8/2012 13:47	ACTION LEAD PAINT	mg / cm <sup>2</sup>	NEGATIVE	<LOD		CEILING	PLASTER	LEFT	FAIR	WHITE	FIRST	LUNCH ROOM
61	8/8/2012 13:48	ACTION LEAD PAINT	mg / cm <sup>2</sup>	NEGATIVE	<LOD		CEILING	PLASTER	LEFT	FAIR	WHITE	FIRST	LUNCH ROOM
62	8/8/2012 13:52	ACTION LEAD PAINT	mg / cm <sup>2</sup>	NEGATIVE	<LOD		SOFFIT	PLASTER	A	INTACT	WHITE	FIRST	LUNCH ROOM
63	8/8/2012 13:52	ACTION LEAD PAINT	mg / cm <sup>2</sup>	NEGATIVE	<LOD		SOFFIT	PLASTER	A	INTACT	WHITE	FIRST	LUNCH ROOM
65	8/8/2012 13:52	ACTION LEAD PAINT	mg / cm <sup>2</sup>	NEGATIVE	<LOD		SOFFIT VENT	METAL	A	INTACT	WHITE	FIRST	LUNCH ROOM
66	8/8/2012 13:52	ACTION LEAD PAINT	mg / cm <sup>2</sup>	NEGATIVE	<LOD		SOFFIT VENT	METAL	A	INTACT	WHITE	FIRST	LUNCH ROOM
67	8/8/2012 13:52	ACTION LEAD PAINT	mg / cm <sup>2</sup>	NEGATIVE	<LOD		SOFFIT VENT	METAL	A	INTACT	WHITE	FIRST	LUNCH ROOM
68	8/8/2012 13:53	ACTION LEAD PAINT	mg / cm <sup>2</sup>	NEGATIVE	<LOD		SOFFIT VENT TRIM	WOOD	A	INTACT	WHITE	FIRST	LUNCH ROOM
69	8/8/2012 13:53	ACTION LEAD PAINT	mg / cm <sup>2</sup>	NEGATIVE	<LOD		SOFFIT VENT TRIM	WOOD	A	INTACT	WHITE	FIRST	LUNCH ROOM
70	8/8/2012 13:53	ACTION LEAD PAINT	mg / cm <sup>2</sup>	NEGATIVE	<LOD		SOFFIT VENT TRIM	WOOD	A	INTACT	WHITE	FIRST	LUNCH ROOM
71	8/8/2012 13:55	ACTION LEAD PAINT	mg / cm <sup>2</sup>	NEGATIVE	<LOD		WALL	PLASTER	LOWER C	INTACT	YELLOW	FIRST	LUNCH ROOM
72	8/8/2012 13:55	ACTION LEAD PAINT	mg / cm <sup>2</sup>	NEGATIVE	<LOD		WALL	PLASTER	LOWER C	INTACT	YELLOW	FIRST	LUNCH ROOM
73	8/8/2012 13:56	ACTION LEAD PAINT	mg / cm <sup>2</sup>	NEGATIVE	<LOD		WALL	PLASTER	LOWER C	INTACT	YELLOW	FIRST	LUNCH ROOM
74	8/8/2012 13:56	ACTION LEAD PAINT	mg / cm <sup>2</sup>	NEGATIVE	<LOD		WALL	PLASTER	Middle C	INTACT	WHITE	FIRST	LUNCH ROOM
75	8/8/2012 13:56	ACTION LEAD PAINT	mg / cm <sup>2</sup>	NEGATIVE	<LOD		WALL	PLASTER	Middle C	INTACT	WHITE	FIRST	LUNCH ROOM
76	8/8/2012 13:56	ACTION LEAD PAINT	mg / cm <sup>2</sup>	NEGATIVE	<LOD		WALL	PLASTER	Middle C	INTACT			

























































Reading No	Time	Type	Units	Results	Pb	Quantity	Component	Substrate	Side	Condition	Color	Floor	Room
385	8/9/2012 9:05	ACTION LEAD PAINT	mg/cm <sup>2</sup>	POSITIVE	1.99	6 SF	STRIMMER	METAL	B	FAIR	GREEN	FIRST	HALL SOUTH END
386	8/9/2012 9:05	ACTION LEAD PAINT	mg/cm <sup>2</sup>	POSITIVE	1.38	6 SF	HANDRAIL	METAL	B	FAIR	GREEN	FIRST	HALL SOUTH END
387	8/9/2012 9:06	ACTION LEAD PAINT	mg/cm <sup>2</sup>	POSITIVE	4.54	140 SF	WALL	PLASTER	LOWER B	POOR	BLUE	FIRST	HALL SOUTH END
388	8/9/2012 9:07	ACTION LEAD PAINT	mg/cm <sup>2</sup>	POSITIVE	3.51	140 SF	WALL	PLASTER	MIDDLE B	INTACT	BLUE	FIRST	HALL SOUTH END
404	8/9/2012 9:14	ACTION LEAD PAINT	mg/cm <sup>2</sup>	POSITIVE	6.17	100 SF	WALL	PLASTER	LOWER C	INTACT	BLUE	FIRST	HALL SOUTH END
405	8/9/2012 9:14	ACTION LEAD PAINT	mg/cm <sup>2</sup>	POSITIVE	4.08	100 SF	WALL	PLASTER	MIDDLE C	FAIR	BLUE	FIRST	HALL SOUTH END
409	8/9/2012 9:15	ACTION LEAD PAINT	mg/cm <sup>2</sup>	POSITIVE	4.08	100 SF	WALL	PLASTER	UPPER C	FAIR	WHITE	FIRST	HALL SOUTH END
424	8/9/2012 10:04	ACTION LEAD PAINT	mg/cm <sup>2</sup>	POSITIVE	8.1	170 SF	WALL	PLASTER	LOWER A	FAIR	BLUE	FIRST	HALL SOUTH SIDE OF AUDITORIUM
425	8/9/2012 10:06	ACTION LEAD PAINT	mg/cm <sup>2</sup>	POSITIVE	3.56	170 SF	WALL	PLASTER	MIDDLE A	INTACT	BLUE	FIRST	HALL SOUTH SIDE OF AUDITORIUM
441	8/9/2012 10:14	ACTION LEAD PAINT	mg/cm <sup>2</sup>	POSITIVE	4.81	210 SF	WALL	PLASTER	LOWER B	FAIR	BLUE	FIRST	HALL SOUTH SIDE OF AUDITORIUM
453	8/9/2012 10:16	ACTION LEAD PAINT	mg/cm <sup>2</sup>	POSITIVE	3.98	210 SF	WALL	PLASTER	MIDDLE B	FAIR	BLUE	FIRST	HALL SOUTH SIDE OF AUDITORIUM
466	8/9/2012 10:22	ACTION LEAD PAINT	mg/cm <sup>2</sup>	POSITIVE	3.57	100 SF	WALL	PLASTER	LOWER C	FAIR	BLUE	FIRST	HALL SOUTH SIDE OF AUDITORIUM
494	8/9/2012 10:39	ACTION LEAD PAINT	mg/cm <sup>2</sup>	POSITIVE	1.97	32 SF	WALL	PLASTER	UPPER UPPER D	FAIR	WHITE	FIRST	HALL SOUTH SIDE OF AUDITORIUM
500	8/9/2012 10:40	ACTION LEAD PAINT	mg/cm <sup>2</sup>	POSITIVE	1.78	32 SF	WALL	PLASTER	UPPER UPPER D	FAIR	WHITE	FIRST	HALL SOUTH SIDE OF AUDITORIUM
521	8/9/2012 10:51	ACTION LEAD PAINT	mg/cm <sup>2</sup>	POSITIVE	9.5	170 SF	WALL	PLASTER	LOWER A	FAIR	BLUE	FIRST	HALL NORTH SIDE OF AUDITORIUM
522	8/9/2012 10:51	ACTION LEAD PAINT	mg/cm <sup>2</sup>	POSITIVE	2.87	170 SF	WALL	PLASTER	MIDDLE A	FAIR	BLUE	FIRST	HALL NORTH SIDE OF AUDITORIUM
547	8/9/2012 10:57	ACTION LEAD PAINT	mg/cm <sup>2</sup>	POSITIVE	6.15	210 SF	WALL	PLASTER	LOWER B	INTACT	BLUE	FIRST	HALL NORTH SIDE OF AUDITORIUM
548	8/9/2012 10:58	ACTION LEAD PAINT	mg/cm <sup>2</sup>	POSITIVE	2.39	210 SF	WALL	PLASTER	MIDDLE B	INTACT	BLUE	FIRST	HALL NORTH SIDE OF AUDITORIUM
567	8/9/2012 11:08	ACTION LEAD PAINT	mg/cm <sup>2</sup>	POSITIVE	4.89	200 SF	WALL	PLASTER	LOWER C	FAIR	BLUE	FIRST	HALL NORTH SIDE OF AUDITORIUM
568	8/9/2012 11:08	ACTION LEAD PAINT	mg/cm <sup>2</sup>	POSITIVE	2.69	200 SF	WALL	PLASTER	MIDDLE C	FAIR	BLUE	FIRST	HALL NORTH SIDE OF AUDITORIUM
569	8/9/2012 11:09	ACTION LEAD PAINT	mg/cm <sup>2</sup>	POSITIVE	3.26	200 SF	WALL	PLASTER	MIDDLE UPPER C	FAIR	BLUE	FIRST	HALL NORTH SIDE OF AUDITORIUM
591	8/9/2012 11:18	ACTION LEAD PAINT	mg/cm <sup>2</sup>	POSITIVE	4.57	210 SF	WALL	PLASTER	LOWER D	FAIR	BLUE	FIRST	HALL NORTH SIDE OF AUDITORIUM
592	8/9/2012 11:19	ACTION LEAD PAINT	mg/cm <sup>2</sup>	POSITIVE	3.8	210 SF	WALL	PLASTER	MIDDLE D	FAIR	BLUE	FIRST	HALL NORTH SIDE OF AUDITORIUM
593	8/9/2012 11:20	ACTION LEAD PAINT	mg/cm <sup>2</sup>	POSITIVE	3.21	210 SF	WALL	PLASTER	UPPER D	FAIR	WHITE	FIRST	HALL NORTH SIDE OF AUDITORIUM
603	8/9/2012 11:24	ACTION LEAD PAINT	mg/cm <sup>2</sup>	POSITIVE	14.48	100 SF	COLUMN	PLASTER	LOWER	FAIR	BLUE	FIRST	HALL NORTH SIDE OF AUDITORIUM
752	8/9/2012 13:02	ACTION LEAD PAINT	mg/cm <sup>2</sup>	POSITIVE	6.23	CEILING	CEILING	PLASTER	LOWER	INTACT	WHITE	FIRST	AUDITORIUM
774	8/9/2012 13:17	ACTION LEAD PAINT	mg/cm <sup>2</sup>	POSITIVE	4.07	58 SF	WALL	PLASTER	LOWER A	FAIR	BEIGE	FIRST	BATHROOM GIRLS NW VESTIBULE
775	8/9/2012 13:18	ACTION LEAD PAINT	mg/cm <sup>2</sup>	POSITIVE	2.23	60 SF	WALL	PLASTER	UPPER A	FAIR	BEIGE	FIRST	BATHROOM GIRLS NW VESTIBULE
788	8/9/2012 13:42	ACTION LEAD PAINT	mg/cm <sup>2</sup>	POSITIVE	2.98	39 SF	WALL	PLASTER	LOWER B	FAIR	BEIGE	FIRST	BATHROOM GIRLS NW VESTIBULE
798	8/9/2012 13:46	ACTION LEAD PAINT	mg/cm <sup>2</sup>	POSITIVE	2.85	58 SF	WALL	PLASTER	LOWER C	FAIR	BEIGE	FIRST	BATHROOM GIRLS NW VESTIBULE
808	8/9/2012 13:49	ACTION LEAD PAINT	mg/cm <sup>2</sup>	POSITIVE	2.48	39 SF	WALL	PLASTER	LOWER D	FAIR	BEIGE	FIRST	BATHROOM GIRLS NW VESTIBULE
815	8/9/2012 13:51	ACTION LEAD PAINT	mg/cm <sup>2</sup>	POSITIVE	2.37	54 SF	CEILING	PLASTER	CENTER	FAIR	WHITE	FIRST	BATHROOM GIRLS NW VESTIBULE
819	8/9/2012 13:55	ACTION LEAD PAINT	mg/cm <sup>2</sup>	POSITIVE	3.97	90 SF	WALL	PLASTER	UPPER A	FAIR	WHITE	FIRST	BATHROOM GIRLS NW
833	8/9/2012 14:01	ACTION LEAD PAINT	mg/cm <sup>2</sup>	POSITIVE	6.54	90 SF	WALL	PLASTER	UPPER A	INTACT	WHITE	FIRST	BATHROOM GIRLS NW
834	8/9/2012 14:03	ACTION LEAD PAINT	mg/cm <sup>2</sup>	POSITIVE	3.8	90 SF	WALL	PLASTER	UPPER A	INTACT	WHITE	FIRST	BATHROOM GIRLS NW
835	8/9/2012 14:04	ACTION LEAD PAINT	mg/cm <sup>2</sup>	POSITIVE	4.4	120 SF	WALL	PLASTER	UPPER B	INTACT	WHITE	FIRST	BATHROOM GIRLS NW
838	8/9/2012 14:06	ACTION LEAD PAINT	mg/cm <sup>2</sup>	POSITIVE	2.41	90 SF	WALL	PLASTER	UPPER C	FAIR	WHITE	FIRST	BATHROOM GIRLS NW
892	8/9/2012 14:12	ACTION LEAD PAINT	mg/cm <sup>2</sup>	POSITIVE	3.47	140 SF	WALL	PLASTER	UPPER B	FAIR	WHITE	FIRST	BATHROOM GIRLS NW
872	8/9/2012 14:56	ACTION LEAD PAINT	mg/cm <sup>2</sup>	POSITIVE	5.75	227 SF	WALL	PLASTER	LOWER A	FAIR	BLUE	FIRST	LIBRARY 106
873	8/9/2012 14:56	ACTION LEAD PAINT	mg/cm <sup>2</sup>	POSITIVE	5.93	227 SF	WALL	PLASTER	UPPER A	FAIR	WHITE	FIRST	LIBRARY 106
874	8/9/2012 15:00	ACTION LEAD PAINT	mg/cm <sup>2</sup>	POSITIVE	4.27	170 SF	WALL	PLASTER	UPPER B	FAIR	WHITE	FIRST	LIBRARY 106
881	8/9/2012 15:01	ACTION LEAD PAINT	mg/cm <sup>2</sup>	POSITIVE	3.52	175 SF	WALL	PLASTER	UPPER B	FAIR	WHITE	FIRST	LIBRARY 106
886	8/9/2012 15:07	ACTION LEAD PAINT	mg/cm <sup>2</sup>	POSITIVE	5.61	227 SF	WALL	PLASTER	LOWER C	FAIR	BLUE	FIRST	LIBRARY 106
897	8/9/2012 15:07	ACTION LEAD PAINT	mg/cm <sup>2</sup>	POSITIVE	3.43	227 SF	WALL	PLASTER	UPPER C	FAIR	WHITE	FIRST	LIBRARY 106
914	8/9/2012 15:12	ACTION LEAD PAINT	mg/cm <sup>2</sup>	POSITIVE	7.1	170 SF	WALL	PLASTER	LOWER D	INTACT	WHITE	FIRST	LIBRARY 106
915	8/9/2012 15:13	ACTION LEAD PAINT	mg/cm <sup>2</sup>	POSITIVE	4.49	175 SF	WALL	PLASTER	UPPER D	INTACT	WHITE	FIRST	LIBRARY 106
928	8/9/2012 15:20	ACTION LEAD PAINT	mg/cm <sup>2</sup>	POSITIVE	4.65	950 SF	CEILING	WOOD	CENTER	FAIR	WHITE	FIRST	LIBRARY 106
947	8/9/2012 15:33	ACTION LEAD PAINT	mg/cm <sup>2</sup>	POSITIVE	3.77	175 SF	WALL	PLASTER	UPPER A	FAIR	WHITE	FIRST	OFFICE 100
969	8/9/2012 15:41	ACTION LEAD PAINT	mg/cm <sup>2</sup>	POSITIVE	100	100 SF	WALL	PLASTER	LOWER B	FAIR	BEIGE	FIRST	OFFICE 100
972	8/9/2012 15:42	ACTION LEAD PAINT	mg/cm <sup>2</sup>	POSITIVE	1.99	100 SF	WALL	METAL	UPPER B	FAIR	WHITE	FIRST	OFFICE 100
973	8/9/2012 15:44	ACTION LEAD PAINT	mg/cm <sup>2</sup>	POSITIVE	4.12	175 SF	WALL	PLASTER	UPPER B	FAIR	WHITE	FIRST	OFFICE 100
1003	8/9/2012 15:53	ACTION LEAD PAINT	mg/cm <sup>2</sup>	POSITIVE	1.16	210 SF	BENCH	WOOD	CALIBRATE	FAIR	STAIN	FIRST	OFFICE 100
1008	8/10/2012 7:25	ACTION LEAD PAINT	mg/cm <sup>2</sup>	POSITIVE	1.18	100 SF	WALL	PLASTER	CALIBRATE	FAIR	WHITE	FIRST	OFFICE 100
1010	8/10/2012 7:25	ACTION LEAD PAINT	mg/cm <sup>2</sup>	POSITIVE	1.24	100 SF	WALL	PLASTER	CALIBRATE	FAIR	WHITE	FIRST	OFFICE 100
1018	8/10/2012 7:42	ACTION LEAD PAINT	mg/cm <sup>2</sup>	POSITIVE	2.35	175 SF	WALL	PLASTER	UPPER C	FAIR	WHITE	FIRST	OFFICE 100
1074	8/10/2012 8:03	ACTION LEAD PAINT	mg/cm <sup>2</sup>	POSITIVE	5.56	730 SF	CEILING	PLASTER	CENTER	FAIR	GREEN	FIRST	OFFICE 100
1081	8/10/2012 8:10	ACTION LEAD PAINT	mg/cm <sup>2</sup>	POSITIVE	560	32	DOOR	WOOD	C	FAIR	WHITE	FIRST	BOILER ROOM
1155	8/10/2012 8:42	ACTION LEAD PAINT	mg/cm <sup>2</sup>	POSITIVE	2.16	20 SF	DOOR CASING	METAL	B	FAIR	GRAY	FIRST	BOILER ROOM
1194	8/10/2012 9:01	ACTION LEAD PAINT	mg/cm <sup>2</sup>	POSITIVE	4.12	30 SF	PIPE	METAL	C	FAIR	GRAY	FIRST	BOILER ROOM
1195	8/10/2012 9:02	ACTION LEAD PAINT	mg/cm <sup>2</sup>	POSITIVE	3.29	2 SF	PIPE VALVE	METAL	C	FAIR	GRAY	FIRST	BOILER ROOM
1205	8/10/2012 9:08	ACTION LEAD PAINT	mg/cm <sup>2</sup>	POSITIVE	10.67	30 SF	WINDOW CASING	PLASTER	A	FAIR	WHITE	FIRST	BOILER ROOM
1253	8/10/2012 9:20	ACTION LEAD PAINT	mg/cm <sup>2</sup>	POSITIVE	2.54	30 SF	WALL	CONCRETE	C	FAIR	WHITE	FIRST	BOILER ROOM
1256	8/10/2012 9:23	ACTION LEAD PAINT	mg/cm <sup>2</sup>	POSITIVE	3.54	2 SF	DOOR INCINERATOR	CONCRETE	A	FAIR	GRAY	FIRST	BOILER ROOM
1303	8/10/2012 9:46	ACTION LEAD PAINT	mg/cm <sup>2</sup>	POSITIVE	11.02	20 SF	DOOR	WOOD	C	FAIR	GRAY	FIRST	BOILER ROOM
1304	8/10/2012 9:47	ACTION LEAD PAINT	mg/cm <sup>2</sup>	POSITIVE	20.31	20 SF	DOOR	WOOD	C	FAIR	GRAY	FIRST	BOILER ROOM
1308	8/10/2012 9:48	ACTION LEAD PAINT	mg/cm <sup>2</sup>	POSITIVE	18.13	10 SF	DOOR CASING	WOOD	D	FAIR	WHITE	FIRST	BOILER ROOM
1333	8/10/2012 9:56	ACTION LEAD PAINT	mg/cm <sup>2</sup>	POSITIVE	1.68	30 SF	DOOR CASING	METAL	B	POOR	BLACK	FIRST	BOILER ROOM
1345	8/10/2012 10:01	ACTION LEAD PAINT	mg/cm <sup>2</sup>	POSITIVE	2.61	140 SF	WALL	BRICK	C	FAIR	WHITE	FIRST	BOILER ROOM ELECTRIC ROOM
1378	8/10/2012 10:10	ACTION LEAD PAINT	mg/cm <sup>2</sup>	POSITIVE	21.36	21	DOOR	WOOD	C	INTACT	WHITE	FIRST	BOILER ROOM WASHROOM
1392	8/10/2012 10:16	ACTION LEAD PAINT	mg/cm <sup>2</sup>	POSITIVE	13.56	21 SF	DOOR	WOOD	C	INTACT	WHITE	FIRST	BOILER ROOM FOOD PANTRY
1393	8/10/2012 10:39	ACTION LEAD PAINT	mg/cm <sup>2</sup>	POSITIVE	3.04	250 SF	WALL	PLASTER	A	POOR	YELLOW	FIRST	CLASSROOM 112
1397	8/10/2012 10:40	ACTION LEAD PAINT	mg/cm <sup>2</sup>	POSITIVE	4.19	250 SF	WALL	PLASTER	C	POOR	YELLOW	FIRST	CLASSROOM 112
1402	8/10/2012 10:41	ACTION LEAD PAINT	mg/cm <sup>2</sup>	POSITIVE	6.11	250 SF	WALL	PLASTER	C	POOR	YELLOW	FIRST	CLASSROOM 112
1403	8/10/2012 10:42	ACTION LEAD PAINT	mg/cm <sup>2</sup>	POSITIVE	2.81	250 SF	WALL	PLASTER	A	FAIR	WHITE	FIRST	CLASSROOM 112
1408	8/10/2012 10:43	ACTION LEAD PAINT	mg/cm <sup>2</sup>	POSITIVE	2.16	250 SF	WALL	PLASTER	C	FAIR	WHITE	FIRST	CLASSROOM 112
1404	8/10/2012 11:08	ACTION LEAD PAINT	mg/cm <sup>2</sup>	POSITIVE	1.58	1360 SF	CEILING	CEILING	A	FAIR	GREEN	FIRST	CLASSROOM 112
1491	8/10/2012 11:13	ACTION LEAD PAINT	mg/cm <sup>2</sup>	POSITIVE	3.02	45 SF	WALL	PLASTER	A	FAIR	GREEN	FIRST	CLASSROOM 112 BATHROOM
1503	8/10/2012 11:15	ACTION LEAD PAINT	mg/cm <sup>2</sup>	POSITIVE	3.5	30	WALL	PLASTER	A	FAIR	WHITE	FIRST	CLASSROOM 112 BATHROOM
1532	8/10/2012 13:13	ACTION LEAD PAINT	mg/cm <sup>2</sup>	POSITIVE	3.6	58 SF	WALL	PLASTER	LOWER A	FAIR	WHITE	SECOND	BATHROOM SW VESTIBULE
1533	8/10/2012 13:13	ACTION LEAD PAINT	mg/cm <sup>2</sup>	POSITIVE	3.13	58 SF	WALL	PLASTER	LOWER B	FAIR	WHITE	SECOND	BATHROOM SW VESTIBULE
1536	8/10/2012 13:14	ACTION LEAD PAINT	mg/cm <sup>2</sup>	POSITIVE	3.23	39 SF	WALL	PLASTER	LOWER B	FAIR	WHITE	SECOND	BATHROOM SW VESTIBULE
1537	8/10/2012 13:14	ACTION LEAD PAINT	mg/cm <sup>2</sup>	POSITIVE	4	58 SF	WALL	PLASTER	LOWER C	FAIR	WHITE	SECOND	BATHROOM SW VESTIBULE
1538	8/10/2012 13:15	ACTION LEAD PAINT	mg/cm <sup>2</sup>	POSITIVE	3.33	39 SF							



Reading No	Time	Type	Units	Results	Pb	Quantity	Component	Substrate	Side	Condition	Color	Floor	Room
2880	8/15/2012 8:49	ACTION LEAD PAINT	mg / cm <sup>2</sup>	POSITIVE	4.22	40 SF	WALL	PLASTER	LOWER A	FAIR	GREEN	FIRST	HALL
2881	8/15/2012 8:49	ACTION LEAD PAINT	mg / cm <sup>2</sup>	POSITIVE	3.46	40 SF	WALL	PLASTER	LOWER A	FAIR	GREEN	FIRST	HALL
2882	8/15/2012 8:49	ACTION LEAD PAINT	mg / cm <sup>2</sup>	POSITIVE	3.74	40 SF	WALL	PLASTER	LOWER A	FAIR	GREEN	FIRST	HALL
2883	8/15/2012 8:51	ACTION LEAD PAINT	mg / cm <sup>2</sup>	POSITIVE	1.11	1312 SF	WALL	PLASTER	UPPER A	FAIR	WHITE	FIRST	HALL
2886	8/15/2012 8:54	ACTION LEAD PAINT	mg / cm <sup>2</sup>	POSITIVE	4.7	2275 SF	WALL	PLASTER	UPPER C	FAIR	WHITE	FIRST	HALL
2895	8/15/2012 8:59	ACTION LEAD PAINT	mg / cm <sup>2</sup>	POSITIVE	4.03	840 SF	CEILING	PLASTER	LOWER	FAIR	WHITE	FIRST	HALL
2896	8/15/2012 8:59	ACTION LEAD PAINT	mg / cm <sup>2</sup>	POSITIVE	3.65	840 SF	CEILING	PLASTER	LOWER	FAIR	WHITE	FIRST	HALL
2897	8/15/2012 8:59	ACTION LEAD PAINT	mg / cm <sup>2</sup>	POSITIVE	3.49	840 SF	CEILING	PLASTER	LOWER	FAIR	WHITE	FIRST	HALL
3007	8/15/2012 10:38	ACTION LEAD PAINT	mg / cm <sup>2</sup>	POSITIVE	7.21	10 SF	DOWNSPOUT	METAL	A	POOR	BEIGE	THIRD	OUTSIDE ROOF
3008	8/15/2012 10:38	ACTION LEAD PAINT	mg / cm <sup>2</sup>	POSITIVE	4.97	10 SF	DOWNSPOUT	METAL	A	POOR	BEIGE	THIRD	OUTSIDE ROOF
3009	8/15/2012 10:38	ACTION LEAD PAINT	mg / cm <sup>2</sup>	POSITIVE	4.17	10 SF	DOWNSPOUT	METAL	A	POOR	BEIGE	THIRD	OUTSIDE ROOF
3041	8/15/2012 10:59	ACTION LEAD PAINT	mg / cm <sup>2</sup>	POSITIVE	1.31		FENCE	METAL	NORTH SIDE	POOR	GREEN	SECOND	OUTSIDE EXTERIOR
3042	8/15/2012 11:00	ACTION LEAD PAINT	mg / cm <sup>2</sup>	POSITIVE	1.19		FENCE	METAL	NORTH SIDE	POOR	GREEN	SECOND	OUTSIDE EXTERIOR
3044	8/15/2012 11:00	ACTION LEAD PAINT	mg / cm <sup>2</sup>	POSITIVE	1.17		FENCE	METAL	NORTH SIDE	POOR	GREEN	SECOND	OUTSIDE EXTERIOR
3048	8/15/2012 11:02	ACTION LEAD PAINT	mg / cm <sup>2</sup>	POSITIVE	3.56		FENCE POST	METAL	WEST SIDE	POOR	GREEN	SECOND	OUTSIDE EXTERIOR
3049	8/15/2012 11:03	ACTION LEAD PAINT	mg / cm <sup>2</sup>	POSITIVE	3.78		FENCE POST	METAL	WEST SIDE	POOR	GREEN	SECOND	OUTSIDE EXTERIOR
3050	8/15/2012 11:03	ACTION LEAD PAINT	mg / cm <sup>2</sup>	POSITIVE	6.05		FENCE POST	METAL	WEST SIDE	POOR	GREEN	SECOND	OUTSIDE EXTERIOR
3051	8/15/2012 11:03	ACTION LEAD PAINT	mg / cm <sup>2</sup>	POSITIVE	3.64		FENCE POST	METAL	WEST SIDE	POOR	GREEN	SECOND	OUTSIDE EXTERIOR
3052	8/15/2012 11:03	ACTION LEAD PAINT	mg / cm <sup>2</sup>	POSITIVE	3.64		FENCE	METAL	WEST SIDE	POOR	GREEN	SECOND	OUTSIDE EXTERIOR
3053	8/15/2012 11:03	ACTION LEAD PAINT	mg / cm <sup>2</sup>	POSITIVE	6.13		FENCE	METAL	WEST SIDE	POOR	GREEN	SECOND	OUTSIDE EXTERIOR
3054	8/15/2012 11:03	ACTION LEAD PAINT	mg / cm <sup>2</sup>	POSITIVE	6.47		FENCE	METAL	WEST SIDE	POOR	GREEN	SECOND	OUTSIDE EXTERIOR
3054	8/15/2012 11:16	ACTION LEAD PAINT	mg / cm <sup>2</sup>	POSITIVE	10.72	26 SF	WALL	PLASTER	LOWER B	FAIR	BLUE	FIRST	ENTRANCE TO 101
3063	8/15/2012 11:16	ACTION LEAD PAINT	mg / cm <sup>2</sup>	POSITIVE	8.26	26 SF	WALL	PLASTER	LOWER B	FAIR	BLUE	FIRST	ENTRANCE TO 101
3064	8/15/2012 11:16	ACTION LEAD PAINT	mg / cm <sup>2</sup>	POSITIVE	13.34	26 SF	WALL	PLASTER	LOWER B	FAIR	BLUE	FIRST	ENTRANCE TO 101
3065	8/15/2012 11:16	ACTION LEAD PAINT	mg / cm <sup>2</sup>	POSITIVE	4.79	26 SF	WALL	PLASTER	LOWER B	FAIR	BLUE	FIRST	ENTRANCE TO 101
3066	8/15/2012 11:16	ACTION LEAD PAINT	mg / cm <sup>2</sup>	POSITIVE	6.15	26 SF	WALL	PLASTER	LOWER B	FAIR	BLUE	FIRST	ENTRANCE TO 101
3067	8/15/2012 11:17	ACTION LEAD PAINT	mg / cm <sup>2</sup>	POSITIVE	8.82	26 SF	WALL	PLASTER	LOWER D	FAIR	BLUE	FIRST	ENTRANCE TO 101
3068	8/15/2012 11:17	ACTION LEAD PAINT	mg / cm <sup>2</sup>	POSITIVE	4.13	26 SF	WALL	PLASTER	LOWER D	FAIR	BLUE	FIRST	ENTRANCE TO 101
3069	8/15/2012 11:17	ACTION LEAD PAINT	mg / cm <sup>2</sup>	POSITIVE	7.02	26 SF	WALL	PLASTER	LOWER D	FAIR	BLUE	FIRST	ENTRANCE TO 101
3071	8/15/2012 11:19	ACTION LEAD PAINT	mg / cm <sup>2</sup>	POSITIVE	3.11	15 SF	WALL	PLASTER	UPPER B	POOR	WHITE	FIRST	ENTRANCE TO 101
3073	8/15/2012 11:20	ACTION LEAD PAINT	mg / cm <sup>2</sup>	POSITIVE	2.92	15 SF	WALL	PLASTER	UPPER D	POOR	WHITE	FIRST	ENTRANCE TO 101
3074	8/15/2012 11:21	ACTION LEAD PAINT	mg / cm <sup>2</sup>	POSITIVE	2.76	15 SF	WALL	PLASTER	UPPER D	POOR	WHITE	FIRST	ENTRANCE TO 101
3077	8/15/2012 11:27	ACTION LEAD PAINT	mg / cm <sup>2</sup>	POSITIVE	2.96	16 SF	CEILING	PLASTER	CENTER	FAIR	WHITE	FIRST	ENTRANCE TO 101
3081	8/15/2012 11:27	ACTION LEAD PAINT	mg / cm <sup>2</sup>	POSITIVE	4.16	16 SF	CEILING	PLASTER	CENTER	FAIR	WHITE	FIRST	ENTRANCE TO 101
3107	8/15/2012 11:36	ACTION LEAD PAINT	mg / cm <sup>2</sup>	POSITIVE	8.75	26 SF	WALL	PLASTER	LOWER B	FAIR	BLUE	FIRST	ENTRANCE TO 102
3108	8/15/2012 11:36	ACTION LEAD PAINT	mg / cm <sup>2</sup>	POSITIVE	5.12	26 SF	WALL	PLASTER	LOWER B	FAIR	BLUE	FIRST	ENTRANCE TO 102
3109	8/15/2012 11:36	ACTION LEAD PAINT	mg / cm <sup>2</sup>	POSITIVE	3.46	26 SF	WALL	PLASTER	LOWER B	FAIR	BLUE	FIRST	ENTRANCE TO 102
3110	8/15/2012 11:37	ACTION LEAD PAINT	mg / cm <sup>2</sup>	POSITIVE	9.8	26 SF	WALL	PLASTER	LOWER B	FAIR	BLUE	FIRST	ENTRANCE TO 102
3111	8/15/2012 11:37	ACTION LEAD PAINT	mg / cm <sup>2</sup>	POSITIVE	7.44	26 SF	WALL	PLASTER	LOWER B	FAIR	BLUE	FIRST	ENTRANCE TO 102
3112	8/15/2012 11:37	ACTION LEAD PAINT	mg / cm <sup>2</sup>	POSITIVE	6.15	26 SF	WALL	PLASTER	LOWER B	FAIR	BLUE	FIRST	ENTRANCE TO 102
3113	8/15/2012 11:37	ACTION LEAD PAINT	mg / cm <sup>2</sup>	POSITIVE	6.08	26 SF	WALL	PLASTER	LOWER B	FAIR	BLUE	FIRST	ENTRANCE TO 102
3114	8/15/2012 11:37	ACTION LEAD PAINT	mg / cm <sup>2</sup>	POSITIVE	12.44	26 SF	WALL	PLASTER	LOWER D	FAIR	BLUE	FIRST	ENTRANCE TO 102
3115	8/15/2012 11:37	ACTION LEAD PAINT	mg / cm <sup>2</sup>	POSITIVE	6.33	26 SF	WALL	PLASTER	LOWER D	FAIR	BLUE	FIRST	ENTRANCE TO 102
3116	8/15/2012 11:38	ACTION LEAD PAINT	mg / cm <sup>2</sup>	POSITIVE	2.59	15 SF	WALL	PLASTER	UPPER B	POOR	WHITE	FIRST	ENTRANCE TO 102
3117	8/15/2012 11:38	ACTION LEAD PAINT	mg / cm <sup>2</sup>	POSITIVE	2.57	15 SF	WALL	PLASTER	UPPER B	POOR	WHITE	FIRST	ENTRANCE TO 102
3118	8/15/2012 11:38	ACTION LEAD PAINT	mg / cm <sup>2</sup>	POSITIVE	2.9	15 SF	WALL	PLASTER	UPPER B	POOR	WHITE	FIRST	ENTRANCE TO 102
3119	8/15/2012 11:40	ACTION LEAD PAINT	mg / cm <sup>2</sup>	POSITIVE	2.62	15 SF	WALL	PLASTER	UPPER D	FAIR	WHITE	FIRST	ENTRANCE TO 102
3120	8/15/2012 11:40	ACTION LEAD PAINT	mg / cm <sup>2</sup>	POSITIVE	2.8	15 SF	WALL	PLASTER	UPPER D	FAIR	WHITE	FIRST	ENTRANCE TO 102
3121	8/15/2012 11:40	ACTION LEAD PAINT	mg / cm <sup>2</sup>	POSITIVE	15.37	15 SF	WALL	PLASTER	UPPER D	FAIR	WHITE	FIRST	ENTRANCE TO 102
3152	8/15/2012 12:45	ACTION LEAD PAINT	mg / cm <sup>2</sup>	POSITIVE	7.89	26 SF	WALL	PLASTER	LOWER B	FAIR	BLUE	FIRST	ENTRANCE TO 104
3153	8/15/2012 12:45	ACTION LEAD PAINT	mg / cm <sup>2</sup>	POSITIVE	4.18	26 SF	WALL	PLASTER	LOWER B	FAIR	BLUE	FIRST	ENTRANCE TO 104
3154	8/15/2012 12:45	ACTION LEAD PAINT	mg / cm <sup>2</sup>	POSITIVE	7.2	26 SF	WALL	PLASTER	LOWER B	FAIR	BLUE	FIRST	ENTRANCE TO 104
3155	8/15/2012 12:46	ACTION LEAD PAINT	mg / cm <sup>2</sup>	POSITIVE	4.41	26 SF	WALL	PLASTER	LOWER B	FAIR	BLUE	FIRST	ENTRANCE TO 104
3156	8/15/2012 12:46	ACTION LEAD PAINT	mg / cm <sup>2</sup>	POSITIVE	4.81	26 SF	WALL	PLASTER	LOWER D	FAIR	BLUE	FIRST	ENTRANCE TO 104
3157	8/15/2012 12:46	ACTION LEAD PAINT	mg / cm <sup>2</sup>	POSITIVE	7.41	26 SF	WALL	PLASTER	LOWER D	FAIR	BLUE	FIRST	ENTRANCE TO 104
3158	8/15/2012 12:47	ACTION LEAD PAINT	mg / cm <sup>2</sup>	POSITIVE	3.08	15 SF	WALL	PLASTER	UPPER B	FAIR	BLUE	FIRST	ENTRANCE TO 104
3159	8/15/2012 12:47	ACTION LEAD PAINT	mg / cm <sup>2</sup>	POSITIVE	3.48	15 SF	WALL	PLASTER	UPPER B	FAIR	BLUE	FIRST	ENTRANCE TO 104
3162	8/15/2012 12:47	ACTION LEAD PAINT	mg / cm <sup>2</sup>	POSITIVE	2.61	15 SF	WALL	PLASTER	UPPER B	FAIR	BLUE	FIRST	ENTRANCE TO 104
3163	8/15/2012 12:48	ACTION LEAD PAINT	mg / cm <sup>2</sup>	POSITIVE	3.42	15 SF	WALL	PLASTER	UPPER D	FAIR	BLUE	FIRST	ENTRANCE TO 104
3164	8/15/2012 12:48	ACTION LEAD PAINT	mg / cm <sup>2</sup>	POSITIVE	3	15 SF	WALL	PLASTER	UPPER D	FAIR	BLUE	FIRST	ENTRANCE TO 104
3165	8/15/2012 12:48	ACTION LEAD PAINT	mg / cm <sup>2</sup>	POSITIVE	3.06	15 SF	WALL	PLASTER	UPPER D	FAIR	BLUE	FIRST	ENTRANCE TO 104
3174	8/15/2012 12:52	ACTION LEAD PAINT	mg / cm <sup>2</sup>	POSITIVE	4.85	16 SF	CEILING	PLASTER	CENTER	POOR	WHITE	FIRST	ENTRANCE TO 104
3175	8/15/2012 12:52	ACTION LEAD PAINT	mg / cm <sup>2</sup>	POSITIVE	3.56	16 SF	CEILING	PLASTER	CENTER	POOR	WHITE	FIRST	ENTRANCE TO 104
3176	8/15/2012 12:52	ACTION LEAD PAINT	mg / cm <sup>2</sup>	POSITIVE	2.95	16 SF	CEILING	PLASTER	CENTER	POOR	WHITE	FIRST	ENTRANCE TO 104
3204	8/15/2012 13:00	ACTION LEAD PAINT	mg / cm <sup>2</sup>	POSITIVE	7.65	26 SF	WALL	PLASTER	LOWER B	FAIR	BLUE	FIRST	ENTRANCE TO 106 LIBRARY
3205	8/15/2012 13:00	ACTION LEAD PAINT	mg / cm <sup>2</sup>	POSITIVE	4.46	26 SF	WALL	PLASTER	LOWER B	FAIR	BLUE	FIRST	ENTRANCE TO 106 LIBRARY
3206	8/15/2012 13:00	ACTION LEAD PAINT	mg / cm <sup>2</sup>	POSITIVE	4.11	26 SF	WALL	PLASTER	LOWER B	FAIR	BLUE	FIRST	ENTRANCE TO 106 LIBRARY
3207	8/15/2012 13:00	ACTION LEAD PAINT	mg / cm <sup>2</sup>	POSITIVE	13.24	26 SF	WALL	PLASTER	LOWER D	FAIR	BLUE	FIRST	ENTRANCE TO 106 LIBRARY
3208	8/15/2012 13:00	ACTION LEAD PAINT	mg / cm <sup>2</sup>	POSITIVE	4.97	26 SF	WALL	PLASTER	LOWER D	FAIR	BLUE	FIRST	ENTRANCE TO 106 LIBRARY
3209	8/15/2012 13:01	ACTION LEAD PAINT	mg / cm <sup>2</sup>	POSITIVE	4.68	26 SF	WALL	PLASTER	LOWER D	FAIR	BLUE	FIRST	ENTRANCE TO 106 LIBRARY
3213	8/15/2012 13:02	ACTION LEAD PAINT	mg / cm <sup>2</sup>	POSITIVE	1.95	15 SF	WALL	PLASTER	UPPER D	POOR	WHITE	FIRST	ENTRANCE TO 106 LIBRARY
3215	8/15/2012 13:02	ACTION LEAD PAINT	mg / cm <sup>2</sup>	POSITIVE	2.2	15 SF	WALL	PLASTER	UPPER D	POOR	WHITE	FIRST	ENTRANCE TO 106 LIBRARY
3246	8/15/2012 13:11	ACTION LEAD PAINT	mg / cm <sup>2</sup>	POSITIVE	9.3	235 SF	WALL	PLASTER	LOWER B	POOR	BLUE	FIRST	ENTRANCE TO 112
3247	8/15/2012 13:11	ACTION LEAD PAINT	mg / cm <sup>2</sup>	POSITIVE	3.81	235 SF	WALL	PLASTER	LOWER B	POOR	BLUE	FIRST	ENTRANCE TO 112
3248	8/15/2012 13:11	ACTION LEAD PAINT	mg / cm <sup>2</sup>	POSITIVE	5.78	235 SF	WALL	PLASTER	LOWER B	POOR	BLUE	FIRST	ENTRANCE TO 112
3249	8/15/2012 13:11	ACTION LEAD PAINT	mg / cm <sup>2</sup>	POSITIVE	12.08	45 SF	WALL	PLASTER	LOWER C	FAIR	BLUE	FIRST	ENTRANCE TO 112
3250	8/15/2012 13:12	ACTION LEAD PAINT	mg / cm <sup>2</sup>	POSITIVE	4.49	45 SF	WALL	PLASTER	LOWER C	FAIR	BLUE	FIRST	ENTRANCE TO 112
3251	8/15/2012 13:12	ACTION LEAD PAINT	mg / cm <sup>2</sup>	POSITIVE	6.32	45 SF	WALL	PLASTER	LOWER C	FAIR	BLUE	FIRST	ENTRANCE TO 112
3252	8/15/2012 13:13	ACTION LEAD PAINT	mg / cm <sup>2</sup>	POSITIVE	6.78	235 SF	WALL	PLASTER	LOWER C	FAIR	BLUE	FIRST	ENTRANCE TO 112
3253	8/15/2012 13:13	ACTION LEAD PAINT	mg / cm <sup>2</sup>	POSITIVE	2.82	235 SF	WALL	PLASTER	LOWER C	FAIR	BLUE	FIRST	ENTRANCE TO 112
3254	8/15/2012 13:13	ACTION LEAD PAINT	mg / cm <sup>2</sup>	POSITIVE	2.74	235 SF	WALL	PLASTER	LOWER D	FAIR	BLUE	FIRST	



## **Appendix D**

### **LBP Laboratory Results and Laboratory Certifications**

## CERTIFICATE OF ANALYSIS

<b>Client:</b>	Environ. Design International 33 W Monroe, Suite 1825 Chicago IL 60603	<b>Report Date:</b>	8/29/2012
		<b>Report Number:</b>	283748
		<b>Project:</b>	AlexanderGrahamBellSchool
		<b>Project No.:</b>	1261.028

### LEAD PAINT SAMPLE ANALYSIS SUMMARY

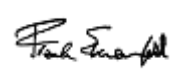
<u>Lab No.</u>	<u>Client No.</u>	<u>Location / Description</u>	<u>Concentration Lead By Weight (%)</u>
4766611	Chip-001	Paint Chip From Light Switch Boiler Room	1.5

**Accreditations:** **NATIONAL LEAD LABORATORY ACCREDITATION PROGRAM (NLLAP)**  
AIHA-LAP, LLC No. 100188      NYSDOH-ELAP No. 11021

**Analytical Methods:** ASTM D3335-85A "Standard Method To Test For Low Concentrations Of Lead In Paint By Atomic Absorption Spectrophotometry"  
 EPA SW846-(3050B:7000B) "Standard Method To Test For Low Concentrations Of Lead In Soils, Sludges and Sediments By AAS"

**Comments:** Regulatory limit is 0.5% lead by weight (EPA/HUD guidelines). Recommend multiple sampling for all samples less than regulatory limit for confirmation. All results are based on the samples as received at the lab. IATL assumes that appropriate sampling methods have been used and the data upon which these results are based have been accurately supplied by the client. Method Detection Limit (MDL) per EPA Method 40CFR Part 136 Appendix B. Reporting Limit (RL) based upon Lowest Standard Determined (LSD) in accordance with AIHA-ELLAP policies. LSD=0.2 ppm MDL=0.0044% by weight. RL= 0.010% by weight (based upon 100 mg sampled). \* Insufficient sample provided to perform QC reanalysis (<200 mg) \*\* Not enough sample provided to analyze (<50 mg) \*\*\* Matrix / substrate interference possible. Sample results are not corrected for contamination by field or analytical blanks. This confidential report relates only to those item(s) tested and does not represent an endorsement by NIST-NVLAP, AIHA or any government agency. This report shall not be reproduced except in full, without written approval of the laboratory.

**Date Received:** 8/23/2012  
**Date Analyzed:** 8/29/2012  
**Analyst:** C. Shaffer

**Approved By:**   
 Frank E. Ehrenfeld, III  
 Laboratory Director





# Chain of Custody

9000 Commerce Parkway  
Suite B  
Mt. Laurel, NJ 08054  
Toll Free: 877 428-4285  
info@iatl.com  
www.iatl.com

**Client:** 33 W. Monroe Street, Suite 1825  
Chicago, Illinois 60603  
Phone: 312-345-1400  
Fax: 312-345-0529

**Office Phone:** \_\_\_\_\_  
**Cell Phone:** \_\_\_\_\_  
**FAX / Email 1:** rlivingston@envdesigai.com

**Project Name:** Alexander Graham Bell School  
**Project No.:** 1264.028

**Contact 1:** RANDY Livingston  
**Contact 2:** \_\_\_\_\_  
**FAX / Email 2:** \_\_\_\_\_

**Special Instructions:** \_\_\_\_\_

### Matrix:

Air  Soil  Bulk  Other \_\_\_\_\_  
 Water  Paint  Surface Dust / Wipe \_\_\_\_\_

### Analysis Method:

PCM : NIOSH 7400  PLM : Bulk Asbestos EPA 600  TEM : AHERA  
 PCM : OSHA  PLM : Point Counting 198.1  TEM : NIOSH 7402  
 PCM : TWA  PLM : NOB via 198.1 (PLM only)  TEM : Dust / Wipe  
 AAS : Lead in Air  If <1% by PLM, to TEM via 198.4 <sup>2</sup>  TEM : Dust / Microvac  
 AAS : Lead in Water  PLM : See page 2 for instructions  TEM : NOB 198.4  
 AAS : Lead in Paint **See Page 4 for Mold Specific Log**  TEM : Bulk Analysis  
 AAS : Lead Dust/Wipe <sup>1</sup>  IAQ : I Bioaersol Fungal Spore Trap <sup>3</sup>  TEM : Potable Water  
 AAS : Lead in Soil  IAQ : II Bioaersol Fungal Spore Trap <sup>4</sup>  TEM : Non-Potable Water  
 AAS : TCLP  IAQ : Tape, Bulk, Misc. Qualitative <sup>3</sup>  TEM : Other \_\_\_\_\_  
 AAS : Metals ( Cd, Zn, Cr)  IAQ : Tape, Bulk, Misc. Quantitative <sup>3</sup>  Total Dust : NIOSH 0500  
 IAQ : Other Culturable ID <sup>2</sup>  Total Dust : NIOSH 0600

1- Requires ASTM acceptable material      2- Call to confirm TAT      3- Non-culturable      4- With Non-fungal Microscopic Exam

### Turnaround Time:

Preliminary Results Requested By... \_\_\_\_\_  Verbals  FAX  Email

date / time

10 Day  5 Day  3 Day  2 Day  1 Day\*  12 Hour\*\*  6 Hour\*\*  RUSH\*\*

\* End of next business day unless otherwise specified.      \*\* Matrix Dependent. Please notify the lab before shipping.

### Sample Numbers:

Client #(s): chip-001 IATL#(s): \_\_\_\_\_ - \_\_\_\_\_ Total: \_\_\_\_\_  
(start) (end) (start) (end)

Please use your sample log to supply sampling information (ex. Volumes, areas, descriptions, locations, etc.) or download forms at iatl.com

### Chain of Custody:

Relinquished (Name / Organization): Randolph Livingston / BDI  
Received (Name / IATL): \_\_\_\_\_  
Sample Login (Name / IATL): M 872312  
Sample Prep (Name / IATL): W. Stain  
Analysis(Name(s) / IATL): \_\_\_\_\_  
QA/QC Review (Name / IATL): 3000 9/7/12  
Archived / Released: \_\_\_\_\_ QA/QC InterLAB Use: \_\_\_\_\_

**RECEIVED**  
Date: 8/23/12 Time: 1:00  
Date: \_\_\_\_\_ Time: \_\_\_\_\_  
Date: \_\_\_\_\_ Time: \_\_\_\_\_  
Date: AUG 23 2012 Time: \_\_\_\_\_  
Date: \_\_\_\_\_ Time: \_\_\_\_\_  
Date: \_\_\_\_\_ Time: \_\_\_\_\_  
Date: \_\_\_\_\_ Time: \_\_\_\_\_  
IATL - By: \_\_\_\_\_





## BATCH / SAMPLE MANAGEMENT REPORT

**Customer No.:** ENV374 **Batch Number:** 283748  
**Customer:** Environ. Design International **Project:** xander Graham Bell Schoo  
33 W Monroe, Suite 1825 **Project Number:** 1261.028  
Chicago IL 60603 **TAT:** 5 Day  
**Customer Rep:** RS **Date/Time Rec'd:** 8/23/2012  
**# of Samples:** 1 **Analysis:** Lead Paint **Time/Date Due:** 8/30/2012

Initials Signaling Acknowledgement  RTP: \_\_\_\_\_  To PLM NOB \_\_\_\_\_  To TEM NOB \_\_\_\_\_

**Special Instructions:**

**Admin Notes:** Portal

**E-MAILED**  
8.29.12

**Shipping Error:**

- \_\_\_\_\_ Samples were not received in a sealed container. Bulk samples not double bagged.
- \_\_\_\_\_ Air Cassettes received open in bag... sample integrity compromised, possible contamination.
- \_\_\_\_\_ Samples received wet.
- \_\_\_\_\_ Samples received covered with dust... possible cross contamination.
- \_\_\_\_\_ Sample containers damaged, contents spilled... possible cross contamination.
- \_\_\_\_\_ Paperwork received in the same bag as samples possible contamination.
- \_\_\_\_\_ No / Incomplete Chain of Custody Received.
- \_\_\_\_\_ No / Incomplete Sample Log Received.
- \_\_\_\_\_ Sample container IDs do not match the client's sample log.
- \_\_\_\_\_ No Turnaround Time indicated.
- \_\_\_\_\_ PCM Re-prep for TEM NIOSH 7402. Cassettes previously opened and portion of filter removed.
- \_\_\_\_\_ Blank(s) not submitted as required by the requested analytical method.
- \_\_\_\_\_ Minimum shipping requirements not attained. See attached Carrier Air Bill.
- \_\_\_\_\_ Other: \_\_\_\_\_

**Batch Error:**

- \_\_\_\_\_ Wrong Client ID Listed:
- \_\_\_\_\_ Wrong Client Location Listed:
- \_\_\_\_\_ Wrong Project ID Listed:
- \_\_\_\_\_ Wrong TurnAround Time Listed:
- \_\_\_\_\_ Wrong Due Date Listed:
- \_\_\_\_\_ Wrong Date/Time Received Listed:
- \_\_\_\_\_ Wrong Analysis Method Listed:
- \_\_\_\_\_ Wrong Number of Samples Listed:

**Login Error:**

- \_\_\_\_\_ Sample Log Stamped Incorrectly:
- \_\_\_\_\_ Sample Containers Mislabeled:
- \_\_\_\_\_ Duplicate / Extra Samples Not Stamped:
- \_\_\_\_\_ Analyst Bench Sheet Error:

**IATL**  
**Reports Group**  
**HS**

## DAILY QUALITY CONTROL DATA

### LEAD SAMPLE ANALYSIS

(DATE: 08 / 29 / 12 )

Standard	Total Lead (mg)	Percent Recovery **
Reagent Blank	0.000	< LOQ
Blank Spike	0.500	98
Lab control Std # 401	0.496	99
Matrix Spike - LBP *	1.07	92
Matrix Spike - Wipe *	1.19	100
Matrix Spike - Soil *	0.160	103
Matrix spike - Air *	0.050	96
2.5 ppm Standard	0.25	98
10.0 ppm Standard	1.0	97
40.0 ppm Standard	4.0	97

AIHA LAP-LLC No. 100188

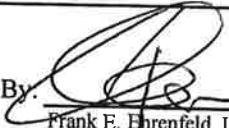
NYS-DOH ELAP No. 11021

Analysis Method: ASTM D3335-85A  
NIOSH 7082  
EPA SW846 3050B 7000B

Comments: IATL assumes that all sampling complies with accepted methods.  
All client supplied sampling data is assumed to be correct when calculating results.  
Detection limit based upon 0.2 mg/L reporting limit and sample size.  
\* NIST Traceable.  
\*\* 80-120% acceptable limits.

Analyzed By:   
R. Chad Shaffer

Date: 8/29/12

Approved By:   
Frank E. Ehrenfeld, III  
Laboratory Director

**Appendix E**  
**Photographic Log**

Photographic Log

Project Name LBP Survey, Bell Elementary School, 3730 North Oakley Avenue, Chicago, Illinois

Project #: 1261.028  
Date: 10/20/2012  
Photographed By:  
Randy Livingston

Description:  
Light switch in Boiler Room where paint chip sample was collected (repaired with tape following sample collection)

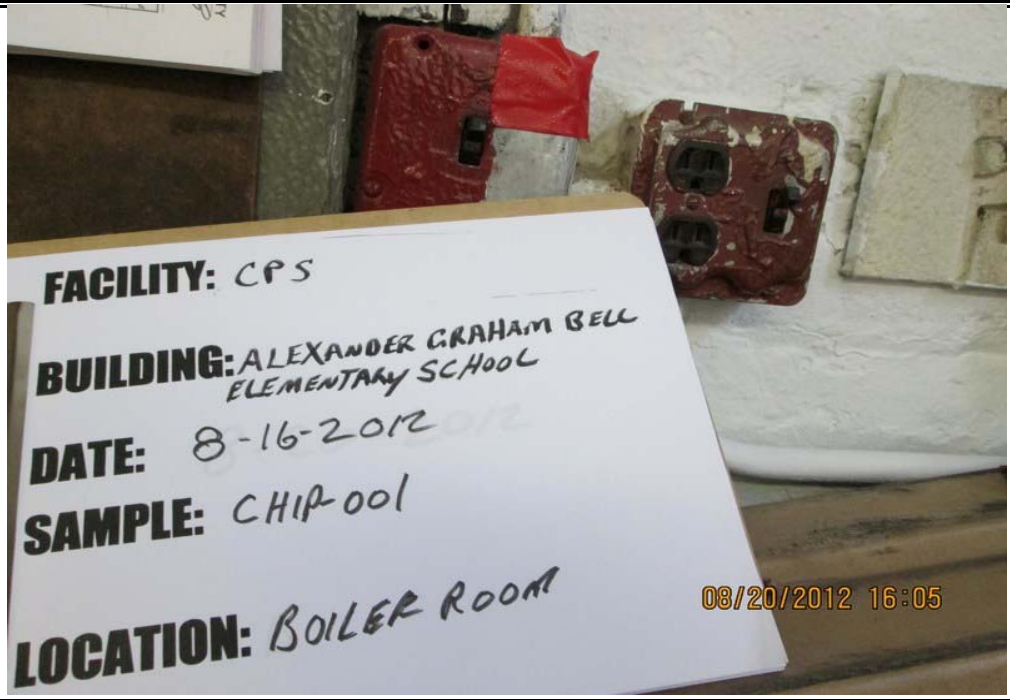


Photo #1

Project #: 1261.028  
Date: 10/21/2012  
Photographed By:  
Randy Livingston


Description:  
Interior of Boy's Bathroom (representative of all floors)



Photo #2

## Photographic Log

Project Name	LBP Survey, Bell Elementary School, 3730 North Oakley Avenue, Chicago, Illinois
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<p>Project #: 1261.028 Date: 10/21/2012 Photographed By: Randy Livingston</p>	
<p>Description: Vestibule leading to Boy's Bathroom (representative of all three floors)</p>	
<p>Photo #3</p>	


<p>Project #: 1261.028 Date: 10/21/2012 Photographed By: Randy Livingston</p>	
<p>Description: Hallway</p>	
<p>Photo #4</p>	



## Photographic Log

Project Name	LBP Survey, Bell Elementary School, 3730 North Oakley Avenue, Chicago, Illinois
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<p>Project #: 1261.028 Date: 10/21/2012 Photographed By: Randy Livingston</p> <p>Description: Stairway landing for first floor Boy's Bathroom/south end of first floor hallway</p> <p>Photo #5</p>	
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<p>Project #: 1261.028 Date: 10/21/2012 Photographed By: Randy Livingston</p> <p>Description: Second floor stairway landing</p> <p>Photo #6</p>	
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Photographic Log

Project Name	LBP Survey, Bell Elementary School, 3730 North Oakley Avenue, Chicago, Illinois
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<p>Project #: 1261.028 Date: 10/21/2012 Photographed By: Randy Livingston</p>	
<p>Description: Recessed entrance leading to second floor Janitor's Closet (representative of all floors)</p> <p>Photo #7</p>	

<p>Project #: 1261.028 Date: 10/21/2012 Photographed By: Randy Livingston</p>	
<p>Description: Interior of Girl's Bathroom (representative of all floors)</p> <p>Photo #8</p>	

Photographic Log

Project Name	LBP Survey, Bell Elementary School, 3730 North Oakley Avenue, Chicago, Illinois
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Project #: 1261.028  
Date: 10/21/2012  
Photographed By:  
Randy Livingston

Description:  
Outside of Girl's  
Bathroom  
(representative of all  
floors)

Photo #9



Project #: 1261.028  
Date: 10/21/2012  
Photographed By:  
Randy Livingston

Description:  
Lunchroom

Photo #10



Photographic Log

Project Name	LBP Survey, Bell Elementary School, 3730 North Oakley Avenue, Chicago, Illinois
--------------	---

Project #: 1261.028  
Date: 10/21/2012  
Photographed By:  
Randy Livingston

Description:  
Room 112 -  
Kindergarten



Photo #11

Project #: 1261.028  
Date: 10/21/2012  
Photographed By:  
Randy Livingston

Description:  
Bathroom inside Room  
112

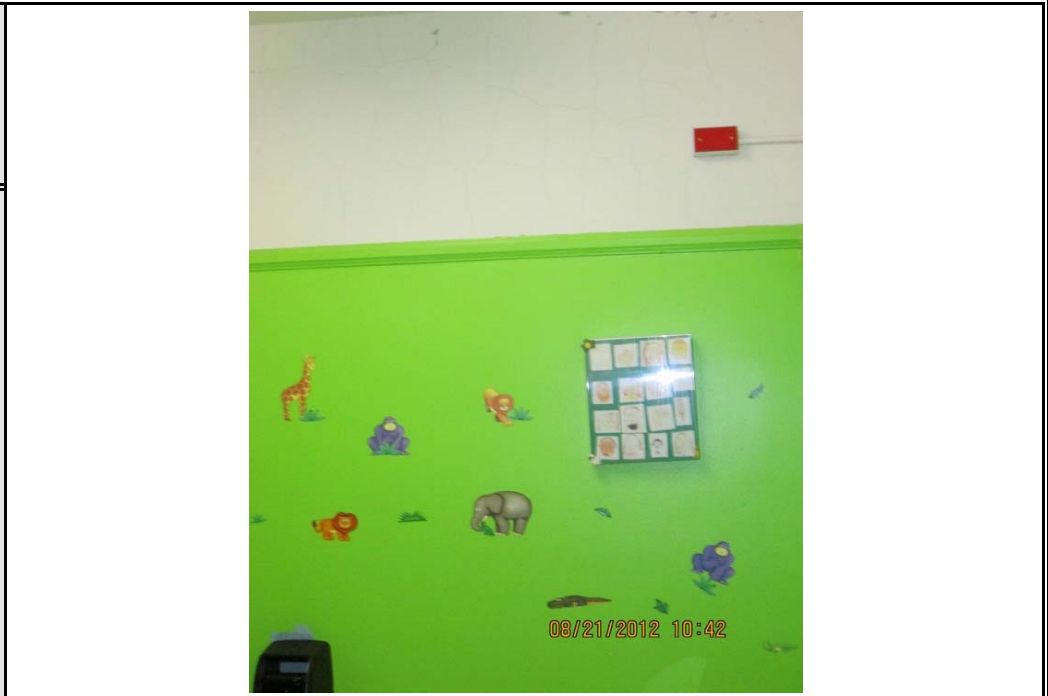


Photo #12



Photographic Log

Project Name	LBP Survey, Bell Elementary School, 3730 North Oakley Avenue, Chicago, Illinois
--------------	---

Project #: 1261.028  
Date: 10/21/2012  
Photographed By:  
Randy Livingston

Description:  
South wall and south balcony of auditorium



Photo #13

Project #: 1261.028  
Date: 10/21/2012  
Photographed By:  
Randy Livingston

Description:  
Auditorium entrance and balcony (taken facing east)

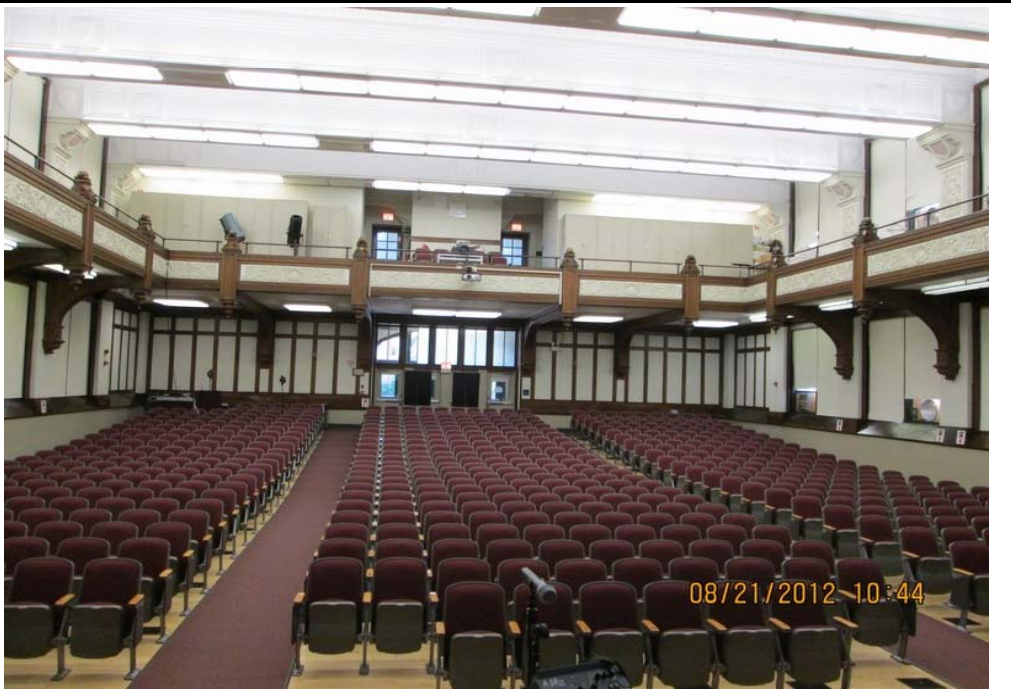


Photo #14

## Photographic Log

Project Name	LBP Survey, Bell Elementary School, 3730 North Oakley Avenue, Chicago, Illinois
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Project #: 1261.028

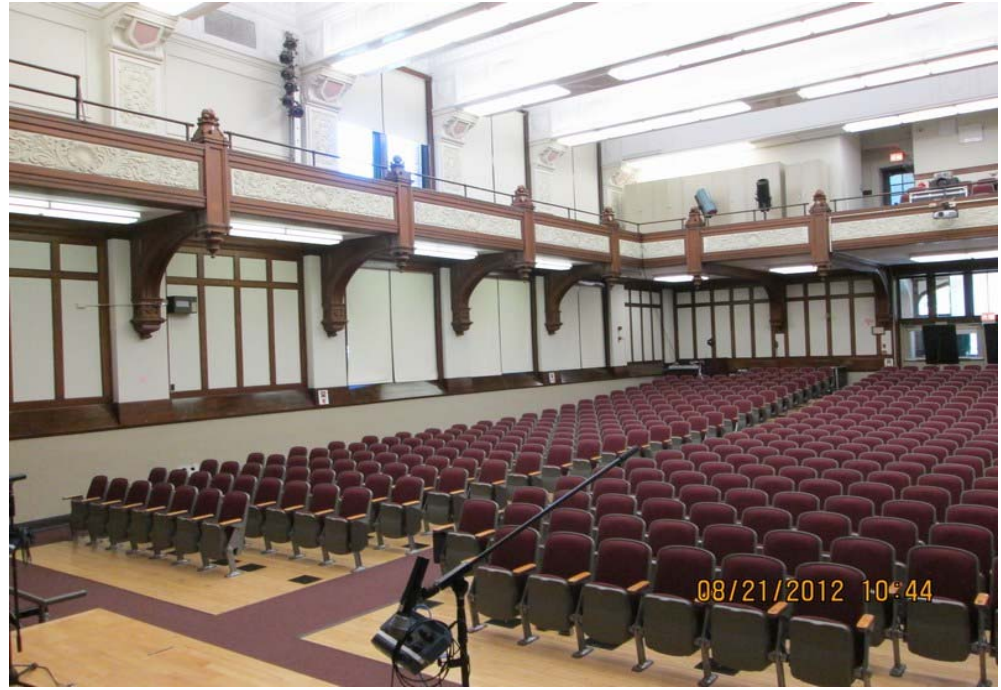
Date: 10/21/2012

Photographed By:  
Randy Livingston

Description:

North wall and north balcony of auditorium

Photo #15



Project #: 1261.028

Date: 10/21/2012

Photographed By:  
Randy Livingston

Description:

Auditorium stage

Photo #16





## Photographic Log

Project Name	LBP Survey, Bell Elementary School, 3730 North Oakley Avenue, Chicago, Illinois
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Project #: 1261.028 Date: 10/21/2012 Photographed By: Randy Livingston	
Description: Basketball hoop on south wall of the Gymnasium	

Photo #17


Project #: 1261.028 Date: 10/21/2012 Photographed By: Randy Livingston	
Description: Bleacher seats along east wall of Gymnasium	

Photo #18



Photographic Log

Project Name	LBP Survey, Bell Elementary School, 3730 North Oakley Avenue, Chicago, Illinois
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Project #: 1261.028  
Date: 10/21/2012  
Photographed By:  
Randy Livingston

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Description:  
Northern wall of  
Gymnasium

---

Photo #19



Project #: 1261.028  
Date: 10/21/2012  
Photographed By:  
Randy Livingston

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Description:  
West wall/south  
entrance to Gymnasium

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Photo #20



Photographic Log

Project Name	LBP Survey, Bell Elementary School, 3730 North Oakley Avenue, Chicago, Illinois
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Project #: 1261.028 Date: 10/21/2012 Photographed By: Randy Livingston
Description: Interior of Room 309 - Music Room
Photo #21



Project #: 1261.028 Date: 10/21/2012 Photographed By: Randy Livingston
Description: Interior of Room 314A
Photo #22



Photographic Log

Project Name LBP Survey, Bell Elementary School, 3730 North Oakley Avenue, Chicago, Illinois

Project #: 1261.028  
Date: 10/21/2012  
Photographed By:  
Randy Livingston

Description:  
Interior of Room 314B

Photo #23



Project #: 1261.028  
Date: 10/21/2012  
Photographed By:  
Randy Livingston

Description:  
Recessed entrance  
leading to Room 106 -  
Library (typical of all  
classrooms)

Photo #24





Photographic Log

Project Name LBP Survey, Bell Elementary School, 3730 North Oakley Avenue, Chicago, Illinois

Project #: 1261.028  
Date: 10/21/2012  
Photographed By:  
Randy Livingston

Description:  
Interior of Room 106 -  
Library

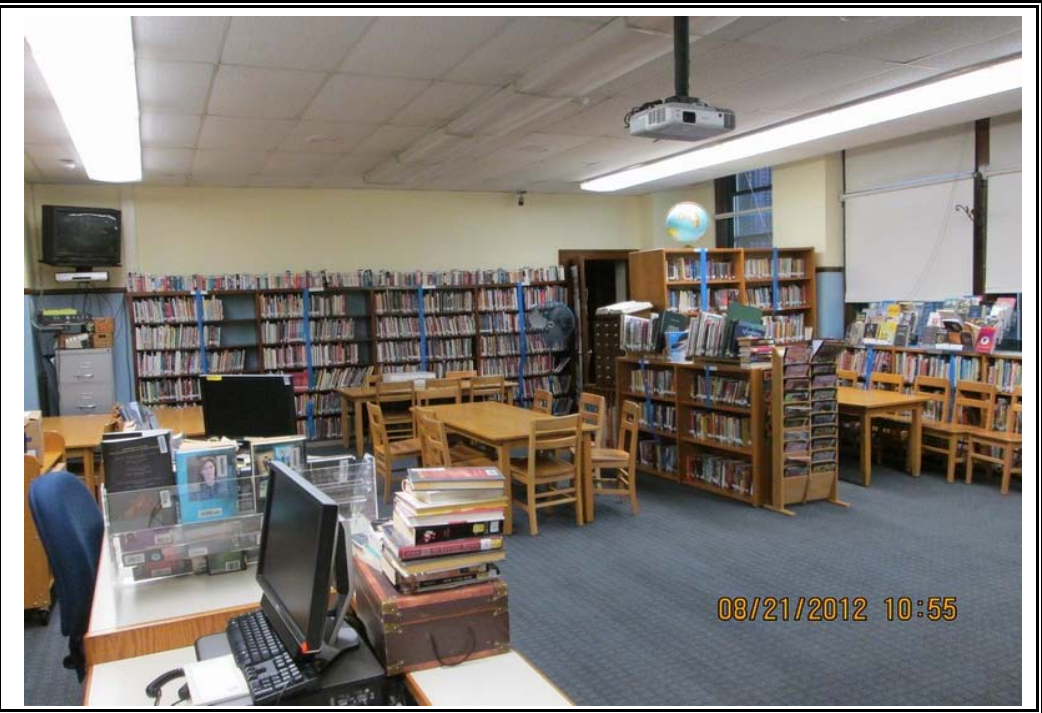
Photo #25



Project #: 1261.028  
Date: 10/21/2012  
Photographed By:  
Randy Livingston

Description:  
Interior of Room 106 -  
Library

Photo #26



Photographic Log

Project Name LBP Survey, Bell Elementary School, 3730 North Oakley Avenue, Chicago, Illinois

Project #: 1261.028  
Date: 10/21/2012  
Photographed By:  
Randy Livingston

Description:  
Interior of Room 100 -  
Office

Photo #27



Project #: 1261.028  
Date: 10/21/2012  
Photographed By:  
Randy Livingston

Description:  
Vestibule B/Hallway  
north of Auditorium

Photo #28





Photographic Log

Project Name	LBP Survey, Bell Elementary School, 3730 North Oakley Avenue, Chicago, Illinois
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Project #: 1261.028 Date: 10/21/2012 Photographed By: Randy Livingston
Description: Main hallway - first floor
Photo #29



Project #: 1261.028 Date: 10/21/2012 Photographed By: Randy Livingston
Description: Vestibule A/Hallway south of Auditorium
Photo #30



Photographic Log

Project Name LBP Survey, Bell Elementary School, 3730 North Oakley Avenue, Chicago, Illinois

Project #: 1261.028  
Date: 10/21/2012  
Photographed By:  
Randy Livingston

Description:  
Pipe valves in Boiler  
Room

Photo #31



Project #: 1261.028  
Date: 10/21/2012  
Photographed By:  
Randy Livingston

Description:  
Door to Incinerator in  
lower portion of Boiler  
Room

Photo #32





# Photographic Log

Project Name	LBP Survey, Bell Elementary School, 3730 North Oakley Avenue, Chicago, Illinois
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Project #: 1261.028 Date: 10/21/2012 Photographed By: Randy Livingston
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Description: Window casing in Boiler Room
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Photo #33

Project #: 1261.028 Date: 10/21/2012 Photographed By: Randy Livingston
---

Description: Door to Electrical Room inside Boiler Room (lower portion)
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Photo #34

Photographic Log

Project Name	LBP Survey, Bell Elementary School, 3730 North Oakley Avenue, Chicago, Illinois
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Project #: 1261.028  
Date: 10/21/2012  
Photographed By:  
Randy Livingston

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Description:  
Bathroom inside Boiler  
Room

Photo #35



Project #: 1261.028  
Date: 10/21/2012  
Photographed By:  
Randy Livingston

---

Description:  
Pantry inside Boiler  
Room

Photo #36





Photographic Log

Project Name LBP Survey, Bell Elementary School, 3730 North Oakley Avenue, Chicago, Illinois

Project #: 1261.028  
Date: 10/18/2012  
Photographed By:  
Randy Livingston

Description:  
Interior of Boiler Room



Photo #37

Project #: 1261.028  
Date: 10/18/2012  
Photographed By:  
Scott Dileto

Description:  
Door to Boiler Room  
bathroom



Photo #38



## Figures

**Figure 1**

**Site Plan**



**Figure 2**

**Positive LBP Sample Locations – First Floor**





**Figure 3**

**Positive LBP Sample Locations – Second Floor**



**Figure 4**

**Positive LBP Sample Locations – Third Floor and Rooftop**



## SECTION 01 14 11

### CONSTRUCTION OPERATIONS AND SITE UTILIZATION PLAN

#### PART 1 - GENERAL

##### 1.1 SUMMARY

- A. The Construction Operations Plan provides a coordinated construction environment to ensure an orderly, secure and safe operation within the existing school and the entire school property, consequently forming the basis for the Site Utilization Plan prepared by the General Contractor.
  - 1. The Authorized Commission Representative in direct coordination with CPS will administer the operations plan activities. All Construction Operating issues shall be channeled through and require approval by the Authorized Commission Representative in coordination with CPS and/or the Building Engineer and Principal.
  - 2. The Construction Operations Plan has been prepared based on the requirements of the project and in coordination with the existing school operations and program. The elements of this plan required for incorporation into the Site Utilization Plan are included in this section.

##### 1.2 RELATED SECTIONS

- A. Refer to the Drawings and General Contractor's Service Agreement for information related to this section. Additional Specification Sections containing information that relate to this section include, but are not limited to, the following:
  - 1. Book 1: Project Information, Instructions to Bidders, and Execution Documents
  - 2. Book 2: Standard Terms and Conditions for Construction Contracts
  - 3. Section 02 24 00 – Environmental Assessment
  - 4. Section 02 26 00 – Hazardous Materials Assessment
  - 5. Section 02 41 19 – Selective Demolition
  - 6. Section 02 82 13 – Asbestos Abatement – Prior to Demolition
  - 7. Section 02 82 14 – Asbestos Abatement – Interiors
  - 8. Section 02 82 15 – Asbestos Abatement – Exteriors
  - 9. Section 02 83 19.13 – Lead-Based Paint Abatement
  - 10. Section 07 01 50.65 – Roof Patching

##### 1.3 SUBMITTALS

- A. Site Utilization Plan: submit five (5) copies of the site Utilization Plan required in Part 3.
  - 1. Submit proposed revisions as deemed necessary

##### 1.4 CONSTRUCTION OPERATIONS PLAN



A. Area of Work

In order to minimize disruption to school operations during construction, the Work will be performed in accordance with the designated Areas of Work listed below, along with the durations for each.

1. Area I- New Construction of Two-Story Addition and associated work.
  - a. Work can proceed within the limits of Area I and associated public-way work upon receipt of Notice to Proceed.
2. Area IA – Renovations to existing building.
  - a. All Renovations within the limits of Area IA including, but not limited to, Lead Based Paint Mitigation (LBP) and Asbestos Containing Material (ACM) abatement can start no sooner than June 26, 2013.
3. Area II – Renovations to existing kitchen/dining, and second floor art classroom.
  - a. All Renovations within the limits of Area II including, but not limited to, Lead Based Paint Mitigation (LBP) and Asbestos Containing Material (ACM) abatement can start no sooner than December 26, 2013.
  - b. All Renovations within the limits of Area II, including, but not limited to, Lead Based Paint Mitigation (LBP) and Asbestos Containing Material (ACM) abatement occurring after the day of January 5, 2014, shall occur after children have exited the building at the end of instruction, (3:30 PM through 6:30 AM of the next morning).
    - 1) Work shall be permitted while students are occupying the existing facility as specifically approved by the Principal, Building Engineer, and Board Authorized Representative. General Contractor must minimize disruptions (dust, odor and noise) outside the work area during these time periods, and if requested by the School, stop work until disruptions are resolved. General Contractor shall bear all costs for any loss of time or production related to work stopped for disruptions while students occupy the building.
4. Area III – Renovations to existing library.
  - a. All Renovations within the limits of Area III including, but not limited to, Lead Based Paint Mitigation (LBP) and Asbestos Containing Material (ACM) abatement can start no sooner than five (5) days after substantial completion of the work in Area II. Five (5) days is required for CPS to move all library materials, furnishings and equipment from the existing library to the new library located in Area II.
  - b. All Renovations, including Lead Based Paint Mitigation (LBP) and Asbestos Containing Material (ACM) abatement occurring after the day of January 5, 2014, shall occur after children have exited the building at the end of instruction, (3:30 PM through 6:30 AM of the next morning).
    - 1) Work shall be permitted while students are occupying the existing facility as specifically approved by the Principal, Building Engineer, and Board Authorized Representative. General Contractor must minimize disruptions (dust, odor and noise) outside the work area during these time periods, and if requested by the School, stop work until disruptions are resolved. General Contractor shall bear all costs for any loss of time or production related to work stopped for disruptions while students occupy the building.
5. Area IV – Outside the limits of construction

- a. There shall be no work in or disturbance to Area IV unless incidental to required work scope and explicitly approved by the Commission's representative in writing two (2) weeks in advance of work in Area IV.
- B. Existing: Maintain as follows:
  1. Maintain all exiting in building clear to a Public Way in a manner acceptable to the Authorities Having Jurisdiction.
  2. Maintain all domestic water service during school instruction hours.
  3. Maintain full electrical service during school instruction hours.
  4. Maintain all life safety systems during school instruction hours.
  5. Maintain all phone and data service during school instruction hours.
- C. Use of Site:
  1. Contractor may not use elevator for construction purposes
  2. Contractor may not perform environmental asbestos abatement, LBP mitigation, and hazardous waste removal during school instruction hours and other time children are on site.
- D. Special Requirements:
  1. Existing fire alarm system shall be remain operational at all times
    - a. Contractor shall provide 24-hour watch at all times fire alarm system is down.

#### 1.5 GENERAL REQUIREMENTS

- A. General Contractor shall review and be familiar with the site conditions through site visits.
- B. General Contractor to provide all temporary and permanent driveway apron and alley permits for the duration of the construction if required. The General Contractor is to pay all fees required for processing permits and is to contact and comply with all authorities and jurisdiction required for permitting.
- C. General Contractor shall provide snow removal and clear all debris in construction area.
- D. General Contractor is to provide all required permits for street access for truck delivery from the local and state jurisdiction.
- E. General Contractor shall be required to coordinate and complete the work within the contractual completion date(s) for the work as described within Book 1 and Book 2 of the Contract Documents, and this section. The General Contractor shall be also held responsible for meeting all related provisions as described within this section.
- F. General Contractor shall survey the site and photograph the area of construction operations. Upon completion of the work the Contractor is to restore the area to the documented condition prior to the start of work or as otherwise indicated in the Contract Documents.
- G. General Contractor is to replace all removed trees, bushes, ground covers and grass on the Chicago Public Schools' property used as part of the construction operations. Also concrete pavement walks and asphalt surfaces shall be restored to condition prior to construction.

- H. General Contractor shall coordinate work with School during Mandatory State Testing periods. Test dates should be verified with the School. No work shall be permitted in the existing facility or on the site during testing except as specifically approved by the Principal, Building Engineer, and Board Authorized Representative. General Contractor must minimize noise in all other areas during these time periods, and if requested by the School, stop work causing the noise until testing is completed. General Contractor shall bear all costs for any loss of time or production related to Mandatory State Testing.
- I. No work shall be permitted in the existing facility or on the site during the first 2 days of instruction at the beginning of the Fall School Year in 2013 except as specifically approved by the Principal, Building Engineer, and Board Authorized Representative. General Contractor must minimize noise in all other areas during these time periods, and if requested by the School, stop work causing the noise until testing is completed. General Contractor shall bear all costs for any loss of time or production related to Mandatory State Testing.
- J. General Contractor shall coordinate and maintain all exit egress during construction as required by the City of Chicago code, other entities with jurisdiction, and as directed by CPS or their representatives. The General Contractor shall provide and maintain all materials and labor including barricades, construction fence, doors, partitions, and fire rated walls as required for safe egress. All costs for this work shall be included in the Contract Base Bid regardless of whether it is indicated in the Contract Documents or not.
- K. No deliveries will be permitted to either the existing facility or the new addition between the hours of 8:30 to 9:30 AM and 2:30 to 4:30 PM.
- L. The Contractor is to set up and stage the entire project within the boundaries of the construction fence. The extents of the construction fence cannot extend beyond Area I as shown on sheet SL.1. The General Contractor is responsible for maintaining and modifying the fence as necessary and as approved in the Site Utilization Plan for the life of the project. Removal and disposal of the fence at the conclusion of the project is the responsibility of the General Contractor.
- M. The Building Engineer or other CPS staff as approved by CPS is required to be present at all times work is in progress in the existing Building. If advance arrangements are not made with CPS, the General Contractor shall be responsible for all overtime costs for the CPS staff member for work outside of normal working hours. Overtime arrangements for CPS staff includes weekends, holidays, and generally hours beyond that listed in Site Restrictions above. IUOE Local 143 Holidays are as follows (Saturday holidays are observed on Friday, Sunday holidays are observed on Monday):
  - 1. New Year's Day
  - 2. Martin Luther King Jr.'s Birthday
  - 3. Lincoln's Birthday
  - 4. Presidents Day
  - 5. Pulaski Day
  - 6. Memorial Day
  - 7. Independence Day
  - 8. Labor Day
  - 9. Columbus Day
  - 10. Veterans Day
  - 11. Thanksgiving

12. Friday after Thanksgiving
13. Christmas Day

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

## **PART 3 - EXECUTION**

### **3.1 SITE UTILIZATION PLAN**

- A. Prior to Notice to Proceed the General Contractor is to prepare and submit to the Board Authorized Representative, the Building Engineer, and the AOR for approval a Site Utilization Plan based on the Construction Operations requirements outlined in this section. Mobilization on-site is not to occur until approval of the Site Utilization Plan is obtained. If requested by the Contractor, a preliminary meeting to review site elements and Construction Operations with the Board Authorized Representative, AOR, and School staff prior to submission of the Site Utilization Plan shall be held.
- B. The Site Utilization Plan shall be provided in a full-size graphic drawing format (36 x 48 inches) on [24 x 30 inch] prints/plots. Provide a separate plan for the site and for each floor of the existing building where work is being performed. Modifications to the format and sheet size shall be permitted if pre-approved by the Board Authorized Representative and if proposed modifications shall facilitate preparation, presentation and review of the Site Utilization Plan. Electronic copies of the Contract Document drawings as appropriate shall be provided for this purpose upon request. The Site Utilization Plan shall at a minimum include the following elements:
  1. Title block information including School Name, Contract Number, General Contractor, Building floor/level information, and current plan date.
  2. Building footprint of both new (if applicable) and existing buildings, trees, landscaping, paving, drainage structures, existing and ornamental fencing and other important site features.
  3. Areas of staging for students and staff, student drop-off points, existing school entrances and exits, staff parking areas, and traffic patterns for both construction and non-construction vehicles.
  4. Denotation of the limits of construction and required construction fencing including any existing fencing to remain.
  5. Denotation of required covered construction barricade walkways
  6. Denotation of areas allowed for staging purposes: construction personnel parking, material storage, and construction trailer(s). Such activities are to only take place in areas designated.
  7. Denotation of any specific site conditions required to be observed such as keeping alleys clear next to adjacent properties, and any other issues listed on the Construction Operations Site Plan.
  8. Denotation of areas allowed for site access gates.
  9. Denotation of areas of work within the existing building for the period of time covered by the Site Utilization Plan, coordinated with the Project Schedule. Each area should indicate planned beginning and end dates for work in that area. Areas where all work is completed are to be noted.

10. Construction worker ingress/egress, material staging areas in the existing building.
11. Proposed locations of temporary protection, barricades, and temporary walls within the existing building.
12. Denotation of all temporary exits and path of travel.
13. Indication of specific areas and their required contractual completion dates. If overtime work is required to meet the project dates it shall be at no additional cost to the Chicago Public Schools.

### 3.2 SITE UTILIZATION PLAN UPDATES

- A. The General Contractor is required to submit for approval updated Site Utilization Plans whenever conditions in the current approved plan have changed. Approval is required prior to proceeding on any changed conditions not previously approved. Requirements for updating include the following:
  1. In coordination with the project schedule provide detailed information regarding work in the existing building including phasing, vacation of existing in-use areas, and any other information requested by the Board Authorized Representative, Principal, or Building Engineer.
  2. Revision to the site plan to reflect changing conditions regarding construction fencing, ingress and egress, student and staff staging, construction deliveries, areas of stored materials, parking, and any other construction facility revisions.

**END OF SECTION**



**SECTION 02 26 00**  
**HAZARDOUS MATERIALS ASSESSMENT**

**PART 1 - GENERAL**

1.1 RELATED DOCUMENTS

- A. Drawings
- B. Book 1: Project Information, Instructions to Bidders, and Execution Documents
- C. Book 2: Standard Terms and Conditions for Construction Contracts
- D. Book 2a: Standard Terms and Conditions Procedures Manual

1.2 APPLICABILITY

- A. This environmental summary is for information purposes only.

1.3 INTRODUCTION

- A. Related Work
  - 1. 02 82 14 02131 Asbestos Abatement – Interiors
  - 2. 02 82 15 02132 Asbestos Abatement – Exteriors
  - 3. 02 83 19.13 02133 Lead-Based Paint Mitigation/Abatement
  - 4. 02 86 13 02089 Hazardous and Universal Waste Management
- B. Description of Work: This environmental summary is for information purposes only. No work is associated with this section.

1.4 AVAILABLE ENVIRONMENTAL ASSESSMENT DOCUMENTS

- A. Asbestos Containing Material Survey Report, December 10, 2012 (included in Specification Section 00 10 20);
- B. Lead Based Paint Survey Report, December 10, 2012 (included in Specification Section 00 10 20); and
- C. Hazardous Materials and Universal Waste Survey Report, December 10, 2012 (included in Specification Section 00 10 20).

- D. An Asbestos Management Plan (AMP) is present at Bell School and may be reviewed upon request. Three Year Reinspection Reports for 2007 and 2010 discussing asbestos containing building materials (ACBM) and suspect ACBM at Bell School are available on line from the school's web site. None of these documents are included in these Project Specifications for reference.

## 1.5 SITE DESCRIPTION

The Alexander Graham Bell Elementary School (Bell School) is located at 3730 North Oakley Avenue in Chicago, Illinois. Located in a primarily urban residential neighborhood, Bell School is an active elementary school in the Chicago Public School (CPS) system that serves children in grades K-8 through a neighborhood attendance, Regional Gifted and Talented, and Deaf programs. The property currently consists of a 3-story, 96,000 square foot brick building with a crawl space beneath the Auditorium area and is slated to undergo selective renovation, demolition and the construction of a 2-story addition.

## 1.6 ENVIRONMENTAL CONDITIONS

From August 8 through August 21, 2012, Environmental Design International inc. (EDI) conducted an environmental assessment at the Bell School to identify hazardous materials at the school that would need to be addressed or abated prior to any renovation, demolition and/or construction activities.

- A. Asbestos-containing materials (ACMs) were identified on all 3 floors of the building, as well as on the roof. ACM identified included floor tile and associated mastic; roof flashing material; flashing caulk, roof caulk, pipe insulation, and pipe fittings. Details of these materials, including locations, estimated quantities, and condition, can be found in the ACM survey report included in Specification Section 00 10 20 of the Project Specifications.
- B. Lead-based Paint (LBP) was identified on all 3 floors of the Bell School building, as well as on a downspout from the third floor roof and the fence along the north edge of the school property. LBP surfaces that were noted included walls, ceilings, stair components, door and window casings, and the rims of the basketball hoops in the Gymnasium on the third floor. Details of these materials, including locations, estimated quantities, and condition, can be found in the LBP survey report included in Specification Section 00 10 20 of the Project Specifications.
- C. Hazardous Materials (Haz Mat) were identified on all 3 floors of the Bell School building. Among the identified materials from this Haz Mat and Universal Waste survey were fluorescent bulbs, emergency lighting battery packs, laboratory chemicals, household cleaning products, landscaping products, various paints and paint-related products, and air-conditioning units. Details of these materials, including locations, estimated quantities, and condition, can be found in the Haz Mat survey report included in Specification Section 00 10 20 of the Project Specifications.

CPS Control Rev: 1\_01/21/10  
Project Rev: C\_12/10/12

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

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

**PART 4 - QUALITY CONTROL (Not Used)**

**END OF SECTION 02 26 00**

## SECTION 02 82 14

### ASBESTOS ABATEMENT - INTERIORS

#### PART 1 - GENERAL

##### 1.1 INTRODUCTION

- A. Asbestos abatement in interior building spaces, covered walkways or porticos connecting buildings, and on outdoor mechanical systems which condition indoor air (such as air handling units, air conditioners, cooling towers, etc.) is governed by rules established by the Illinois Department of Public Health (IDPH). This Section addresses or references the requirements for complying with IDPH, OSHA, and EPA NESHAP asbestos rules. Each and every rule requirement may not be restated in detail since trained, accredited, and licensed contractors and individuals are required for this work and are presumed to be familiar with the relevant laws and rules. Full regulatory compliance is required, and is a part of the contract, whether specifically stated herein or not.
- B. Exterior building spaces are not subject to IDPH rules unless the abatement procedures involve interior spaces of the building. Roofing, window replacement, exterior transite sheeting, asbestos siding, asbestos-containing paint, caulking, glazing, flashings, cements, or other products installed on the building exterior are subject to OSHA and NESHAP rules which, in many cases are less rigorous than IDPH requirements. Abatement of these items is specified in separate, related specification sections.

##### 1.2 DEFINITIONS

- A. In addition to the terms listed below, all definitions in the laws and regulations specified elsewhere in this Section are incorporated by reference, whether or not restated herein.
- B. Abatement Contractor (AC) means the entity responsible for performing the work in this Section and has the training and accreditation to competently perform the work. This entity shall obtain and maintain licenses required for the indoor work in this Section.
- C. Architect of Record (AOR) means the entity that assembles the overall project bid documents and bid package, and approves the completed construction work.
- D. Asbestos Abatement Supervisor, hereinafter referred to as “supervisor” means a person retained by the AC, who supervises asbestos abatement workers. This person must be trained, accredited, and licensed as required, and must also meet OSHA “competent person” criteria for asbestos abatement.
- E. Asbestos Project Manager (APM) is the individual that performs asbestos abatement project monitoring, acts on behalf of CPS or its agents on the project, and performs “Project Manager” duties as defined by IDPH asbestos regulations. The APM may be a subcontractor to the Environmental Consultant (EC).
- F. Board Authorized Representative means the entity responsible for overall project coordination and completion.

- G. Chicago Public Schools (CPS) means the Owner of the property and the authority ordering the work specified herein.
- H. General Contractor (GC) means the entity responsible for performing the complete scope of work in the Documents. If the GC self-performs any portion of the ACM abatement work, the GC must have the same credentials, training, accreditations and licenses required by the AC.
- I. HEPA Filter means a High Efficiency Particulate Air filter capable of trapping 99.97% percent of particles greater than 0.3 micrometers in mass median aerodynamic equivalent diameter.
- J. IDPH means the Illinois Department of Public Health.
- K. Environmental Consultant (EC) means the entity with overall responsibility for the environmental aspects of the project, including design, organization, direction, and control as well as investigations, assessments, and supervision of project managers.
- L. MSDS means Material Safety Data Sheet, required by OSHA for any chemicals in the workplace that that could be expected to cause an exposure to workers during normal use or in emergency situations.
- M. PBC means Public Building Commission.
- N. Plasticize means to apply plastic sheeting over surfaces or objects to protect them from contamination or water damage.
- O. PPE (Personal Protection Equipment) means the protective suits, head and foot covers, gloves, respirators and other items used to protect persons from asbestos or other hazards.
- P. RCRA means the Resource Conservation and Recovery Act and associated regulations.
- Q. TCLP means the Toxicity Characteristic Leaching Procedure as specified in EPA 530/SW-846, Test Methods for Evaluating Solid Waste: Physical/Chemical Methods 3rd edition, November 1986.
- R. Work Area means the area or areas where asbestos abatement is being conducted.

### 1.3 SCOPE OF WORK

- A. In accordance with the Asbestos Containing Material Survey report included in Specification Section 00 10 20 of these Project Specifications, the following materials must be abated as asbestos-containing material (ACM) in accordance with all applicable federal, state and local regulations and rules if they are impacted during the course of completing renovation and/or demolition activities related to the Bell School Addition and Renovation project:
  - 12" x 12" floor tile and associated mastic from the lunchroom (inclusive of all layers present);
  - 9" x 9" floor tile and associated mastic from the north and south storerooms for the lunchroom (inclusive of all layers present);



- 9" x 9" floor tile and associated mastic in/near Rooms 307 and 309 on the third floor (inclusive of all layers present);;
- Mudded fittings from the Boy's and Girl's bathrooms on all three floors; and
- Preformed pipe insulation from the Boy's and Girl's bathrooms on all three floors.

Water supply piping wrapped in pipe insulation was present above the drop ceiling panels and below the plaster ceiling on all three floors. The pipe insulation was not sampled for asbestos content. The pipe insulation should be treated as ACM.

Material locations and quantities should be verified by the contractor. The information provided in the ACM Survey Report included as in Specification Section 00 10 20 of these Project Specifications is included for information only. Additionally, based on the use of homogeneous sampling areas (HSAs) during the ACM survey, encountered materials similar to those identified as ACM through sampling and analysis should also be considered to be ACM if encountered during renovation and/or demolition activities.

- B. More specific details regarding room by room abatement are presented in the Scope Sheets included as Appendix A of this Section.
- C. Any suspect ACM that is encountered by the AC that is not mentioned in Specification Section 00 10 20 should be assessed, sampled as needed, and abated as ACM, if appropriate.
- D. External ACM will be presented in Section 02 82 15.

#### 1.4 WORK INCLUDED

- A. The work includes all labor, equipment, materials, and supplies necessary to perform the Scope of work in the Documents by the procedures described herein. The contractor, by submitting a bid for the work, represents itself as knowledgeable and expert in the performance of the work, and includes all things usually and customarily necessary to provide a complete and finished job, whether specifically mentioned or not. Related work may be shown in other related documents, prepared by others, if applicable, and as listed below:
  1. Division 01 Section "Summary of Work."
  2. Division 01 Section "Submittals."
  3. Division 01 Section "Project Record Documents."
  4. Division 02 Section "Asbestos Abatement - Exterior."
  5. Division 02 Section "Lead-Based Paint Mitigation/Abatement."
  6. Division 02 Section "Hazardous and Universal Waste Management."
- B. Removal of friable and non-friable asbestos-containing materials listed in the Documents, including pre-cleaning, moving of furnishings, establishing regulated areas, isolating the work areas, protection of adjacent areas, containment when required, cleanup and decontamination to the specified clearance levels, proper packaging and disposal of wastes, and all other steps necessary to complete the scope of work.
- C. Repair or replacement of damaged surfaces, fixtures, or furnishings to restore them to their pre-existing condition to the satisfaction of the Architect of Record and the Board Authorized Representative.

- D. When the Documents include lead and asbestos abatement items in the same spaces, they should be performed in the sequence and combinations that produce the most efficient results, minimize concentrated lead waste volume, and produce the least amount of total waste. That sequence will generally be:
1. Cleanup of lead dust, flakes, chips, and residues most likely to fail a TCLP test. If both lead and asbestos debris are present and mixed together, they may be cleaned up and disposed together.
  2. Cleanup and removal of failed or delaminated friable asbestos-containing debris, if any.
  3. Removal of friable asbestos materials and cleanup of visible residues.
  4. Removal of lead-bearing architectural components.
  5. Removal of non-friable asbestos items. If both asbestos and lead are on the same components, for example lead paint and asbestos-containing glazing compound, the components may be removed and disposed with both the lead and asbestos-bearing items intact.
  6. Removal of lead-based paint, coatings, or surfacing material.
  7. Final cleanup and decontamination of the work space. Final air clearance (asbestos) and wipe samples (lead) may be performed concurrently.
  8. When lead and asbestos final decontamination processes are combined, the more stringent cleanup procedures shall apply for both.
  9. Waste disposal.
    - a. Hazardous waste: loose paint flakes, chips, and dust; lead-specific cleaning supplies; contaminated soil; combined final decontamination supplies; disposable suits, gloves, head covers, and foot covers; other items that fail a TCLP or other RCRA test.
    - b. Special waste: friable asbestos-containing waste materials and lead-contaminated waste that has passed TCLP or other RCRA tests.
    - c. Construction and demolition (C&D) debris: lead-bearing architectural components; concrete and lumber with or without tile or mastic attached; demolition debris, and other general wastes.
    - d. All asbestos-containing or lead-bearing wastes, regardless of classification, shall be disposed in a landfill approved by the IEPA to accept asbestos-containing or lead-bearing waste materials.
- E. Compliance with all applicable laws, regulations, standards, and these specifications. In the case of a conflict, the contractor shall comply with the most stringent.
- F. Contractor is required to fully comply with IDPH rules and these specifications unless a variance is granted by IDPH. Any variances obtained by the EC will be listed in the Documents.
- G. All licenses, accreditations, permits, fees, notifications, reports, or other documents required by law, regulation, this specification, or the Documents.
- H. Provide project closeout documentation to the APM within thirty (30) days after final clearance. This documentation shall include, but is not limited to, submittals specified elsewhere in this Section.

## 1.5 LAWS, REGULATIONS AND STANDARDS

- A. The following laws, regulations, and standards are incorporated by reference:

1. 105 ILCS 105: Illinois Asbestos Abatement Act
2. 77 Ill. Adm. Code 855: Asbestos Abatement for Public and Private Schools and Commercial and Private Buildings in Illinois
3. 29 CFR 1910: US OSHA General Industry Standards
4. 29 CFR 1926: US OSHA Construction Standards
5. 29 CFR 1926.1101: US OSHA Asbestos Construction Standards
6. ASHARA: US EPA Asbestos School Hazard Abatement Reauthorization Act
7. 40 CFR Part 61: US EPA National Emissions Standards for Hazardous Air Pollutants (NESHAP), 11/90 revision
8. 40 CFR 763 Subpart E: US EPA Asbestos Hazard Emergency Response Act (AHERA) Rules
9. 40 CFR 763 Subpart E: US EPA Asbestos Model Accreditation Plan (MAP): Appendix C-Interim Final Rule

#### 1.6 ASSESSMENT, MONITORING, TESTING AND ANALYSIS

- A. The EC will perform inspection, testing and design services prior to the start of work, and during the project, and will perform testing, inspection, and monitoring services during the work and upon its completion:
  1. Prior to the start of the work
    - a. The EC shall identify suspect materials and confirm their asbestos content through review of the school's management plan or by testing.
    - b. The EC will design the project and address any design changes if requested by the AOR/Board Authorized Representative.
    - c. The EC shall collect background air samples before conditions are disturbed. Background samples will be analyzed by PCM.
    - d. Review and approve the pre-abatement submittals submitted by the AC.
  2. During the work, the EC shall:
    - a. Enter the work area at least every two hours to inspect the work procedures and work area integrity.
    - b. Maintain a daily log to record the day's events, problems, corrective actions.
    - c. Collect air samples inside and outside the work area, and in the breathing zone of representative persons.
    - d. The EC will stop the work if airborne asbestos concentrations outside the work area exceed 0.01 f/cc or the background sample levels, whichever is higher. The work may restart when the source of fiber release has been identified and corrected. Contractor shall be responsible for cleaning and decontaminating the outside area if caused by the asbestos abatement activities.
    - e. Observe/document smoke testing of the containment by the contractor.
    - f. Review original worker licenses and maintain weekly submittals from the AC.
    - g. Notify the EC's project designer if design changes are needed before execution.
  3. Upon completion of the work, the EC shall:
    - a. Inspect for visible debris. Contractor shall be required to re-clean the area or portions of areas until no visible debris remains and the work area is dry.

- b. Perform aggressive clearance testing by Transmission Electron Microscopy (TEM) when the ACM in a work area is 260 linear feet, 160 square feet, or 35 cubic feet of volume or more, as required by AHERA and IDPH Section 855.170. The sample set shall include at least 5 inside samples, 5 outside samples, 2 field blanks and 1 sealed blank. Note: Large complicated, or multi-floor contiguous work areas connected by corridors, stairways, or other connections shall be tested using additional inside the work area samples. For clearance of multiple mini containments containing a total removal quantity greater than 160 square feet or 260 linear feet, a combined PCM/TEM final clearance procedure may be used. The first part of the procedure shall involve the collection and analysis of one PCM sample from within each mini containment. The second part shall involve the collection and analysis of five (5) TEM samples within the mini containments having the highest PCM analysis results. If there are five or fewer mini containments to be sampled, then only TEM sampling shall be conducted. A minimum of five (5) TEM samples shall be collected. All requirements of 40 CFR 763 Subpart E, Appendix A shall apply.
  - c. Perform aggressive clearance testing by Phase Contrast Microscopy (PCM) when the ACM in a work area is less than 260 linear feet, 160 square feet, or 35 cubic feet of volume.
  - d. Collect and analyze samples in accordance with AHERA Appendix A procedures and IDPH rule section 855.470.
  - e. Prepare and submit the IDPH "Project Manager's Summary Report Form" within 10 days of final clearance.
  - f. Prepare and submit the Project Manager Report to the IDPH within 60 working days of clearance testing. The final Project Manager is responsible for completion of the project report.
- B. The Contractor shall provide OSHA compliance air monitoring to determine exposures to its employees in accordance with OSHA 29 CFR 1926.1101. Frequency of testing shall comply with OSHA requirements for the anticipated and actual exposure levels.
1. A written Exposure Assessment may be provided prior to the start of the work to determine the requirements for respiratory protection and frequency of OSHA monitoring for each type of activity. The contractor should note that a Negative Exposure Assessment (NEA) may be possible for many tasks. For interior work, this would allow reduced OSHA monitoring frequency.
  2. Analysis may be performed on site.
- C. Credentials required for testing and analysis of PCM final clearance air samples:
1. Accreditation by AIHA or AAR; or
  2. Participation in the Proficiency Analytical Testing (PAT) program.
  3. Certification of individual qualification to read samples on site when on site analysis is performed.

#### 1.7 SUBMITTALS BY THE CONTRACTOR

- A. To IDPH, IEPA, EC and AOR at least 10 working days before commencement of work:
  1. IDPH Asbestos Notification on current form, including inspector license number and landfill permit number.

2. Written permission from building Owner authorizing contractor to commence abatement.
  3. Building Owner asbestos abatement notification to building occupants and users.
  4. School Floor Tile Project Notice, when applicable.
- B. To EC and AOR at least five days prior to commencement of Work:
1. Documentation of arrangements of transport and disposal, landfill name and location, handling procedures and PPE at the landfill, prepared and signed by the landfill.
  2. Drawings or sketches for layout and construction of isolation barriers and decontamination units.
  3. Respirators: NIOSH approvals and manufacturer certification of HEPA filtration for cartridges.
  4. Manufacturers' certifications that all HEPA vacuums, negative air pressure equipment, and other local exhaust ventilation equipment conform to ANSI Z9.2-79.
  5. Written notifications to rental companies for any rental equipment used.
  6. Results of any performance tests for encapsulants, if applicable.
  7. OSHA Exposure Assessment, if available.
  8. Laboratory and analyst credentials for contractor OSHA samples.
  9. Material Safety Data Sheets (MSDS) for chemicals used on site.
  10. Work Plan and Schedule.
- C. To EC and AOR on the first day of abatement work:
1. Original contractor, supervisor, and worker licenses along with a copy each.
  2. Initial Course Accreditation and current refresher accreditation for each supervisor and worker.
  3. Physician's Written Opinions for workers and supervisors.
  4. Fit test documentation for all employees, agents.
- D. To EC and AOR weekly during the abatement work:
1. Job progress reports detailing abatement activities, progress compared to schedule, problems and actions taken, injury reports, and equipment breakdowns.
  2. Waste Shipment Records.
  3. Work site Entry logs.
  4. Manometer readable tape for negative pressure differentials for each negative pressure worker enclosure or a log of digital readout.
  5. Filter Change logs for respirators, HEPA vacuums, negative air machines, and other engineering controls.
  6. OSHA compliance air monitoring data.
  7. Worker license and certification log.
- E. Prior to beginning work, the AC shall submit required notifications to applicable regulatory agencies and receive an Owners Authorization and Notice to Occupants from Chicago Public Schools for buildings where asbestos abatement will take place. The AC shall provide copies of all regulatory notices to the PBC who shall provide them to the CPS Environmental Services Manager and APM within 24 hours of sending such notices to the regulatory authority. The AC shall not begin a project until such notices are provided to the PBC, CPS and the APM.



## **PART 2 - PRODUCTS**

### **2.1 TOOLS AND EQUIPMENT**

- A. All tools and equipment shall at least conform to minimum industry standards and IDPH regulations.
- B. Equipment:
  - 1. Negative Air Machines shall provide HEPA filtration and conform to ANSI Z9.2 fabrication criteria.
  - 2. Respirators shall be NIOSH approved for use with lead, asbestos, or other contaminants anticipated in the work.
  - 3. Contractor is fully responsible for complying with OSHA rules for other Safety equipment, such as hard hats, safety harnesses, eye protection, gloves, footwear, and any other safety devices used on the site.
  - 4. Pressure differential manometer with readable tape shall be provided by the contractor, including calibration documentation.
- C. Tools:
  - 1. Shovels and scoops shall be rubber or plastic, suitable for use in a plasticized containment. Metal shovels are not permitted.
  - 2. Scrapers, brushes, utility knives and other hand tools shall be of good quality and suitable for the intended uses. The contractor shall keep an ample supply on hand for the completion of the work
  - 3. Power tools such as, but not limited to saws, pneumatic chisels, brushes, sanders, and needle guns shall be equipped with shrouds and HEPA-filtered local exhaust systems to capture released particles.
  - 4. Buffers are not permitted.

### **2.2 MATERIALS**

- A. All materials shall at least conform to minimum industry standards and IDPH regulations.
- B. Installed materials which become a part of the work such as, but not limited to, encapsulants shall be of good quality, non-lead-bearing, free of asbestos, and conform to the respective reinstallation specification sections prepared by others.
  - 1. Contractor shall ensure that encapsulants and sealants used as primers, basecoats, or covering existing materials are compatible with the respective existing or reinstallation materials and their manufacturers' warranties.
  - 2. Encapsulants for surfaces to which fireproofing shall be applied (beams, columns, floor or roof decks, other structural members) shall be tested and rated as a component of the fireproofing system and listed in the UL Fire Resistance Directory with the specific fireproofing material to be installed.
- C. Abatement Materials:
  - 1. Fire-retardant Poly sheeting for all applications shall be 6 mil nominal thickness for critical seals, floors, ceilings and drop cloths, and 4 mil for walls.

2. Tape shall be 2" or 3" duct tape or other waterproof tape suitable for joining poly seams and attaching poly sheeting to surfaces.
3. Spray adhesives shall be non-flammable and free of methylene chloride solvents.
4. Disposal bags shall be 6 mil.
5. Disposable suits, hoods, and foot coverings shall be TYVEK or similar.
6. Solvents shall be compatible with any primers, mastics, adhesives, paints, coatings, or other surfacing materials to be installed following their use.

### **PART 3 - EXECUTION**

#### **3.1 EMPLOYEE TRAINING, QUALIFICATION AND MEDICAL SCREENING**

- A. Supervisors and Workers shall be trained, accredited, and licensed in accordance with IDPH rules.
  1. Contractor shall keep copies of licenses and most recent annual refresher training certificate at the jobsite at all times for all contractor personnel.
  2. An IDPH- licensed supervisor (competent person) shall be present at the worksite at all times when work under this Section is being conducted.
  3. Current fit testing documentation.
- B. Medical Screening. All contractor personnel shall have a current medical examination in accordance with OSHA requirements. Copies of the Physician's Written Opinions shall be kept on site.

#### **3.2 PERMISSIBLE EXPOSURE LIMITS**

- A. The OSHA permissible exposure limit (PEL) for worker exposure to airborne asbestos is 0.1 f/cc as an 8-hour time-weighted average (TWA).
- B. The OSHA short term excursion limit for worker exposure to airborne asbestos is 1.0 f/cc for a 30 minute sample.
- C. The permissible level of airborne fibers in areas adjacent to the work area is 0.01 f/cc or background level, whichever is higher, as determined by phase contrast microscopy (PCM).
  1. Work shall immediately cease in any work area where the airborne fiber concentrations exceed this level.
  2. The source of outside contamination shall be determined, and corrective measures (e.g. wet cleaning, changes in work practices, negative pressure containment) shall be implemented to prevent recurrence.
  3. The contractor shall be responsible for cleanup of contamination in adjacent areas caused by the asbestos abatement activities at no additional cost to the building Owner.

#### **3.3 EXPOSURE ASSESSMENT AND MONITORING**

- A. The Contractor shall make an assessment of the airborne exposures. Assessment shall conform to OSHA requirements and may be based upon:

1. Initial monitoring of representative workers who the contractor believes are exposed to the greatest airborne concentrations of asbestos, or
  2. Past monitoring (within the past 12 months) or objective data for conditions closely resembling the processes, type of material, control methods, work practices and environmental conditions to be used for this project, or
  3. In the absence of an exposure assessment, the contractor shall perform the work in full negative pressure containment with Type C pressure-demand respirator with auxiliary SCBA escape bottle.
- B. The contractor shall perform personal monitoring in accordance with the following requirements:
1. Initially, to establish an exposure assessment when past monitoring or objective data are not available for an initial determination.
  2. Periodically if the exposures are, or are expected to be, below the PEL.
    - a. Whenever there has been a change of equipment, process, control, personnel, or a new task has been initiated that may affect employee exposures, the exposure assessment shall be updated, and monitoring shall be reinstated if exposures are unknown or are expected to exceed the PEL.
  3. Daily, if exposures are above the PEL.

### 3.4 RESPIRATORY PROTECTION

- A. Respiratory protection shall be worn by all persons potentially exposed to airborne asbestos fibers from the start of the abatement project until all areas have passed clearance air monitoring, in accordance with all applicable laws, regulations and standards specified elsewhere in this Section.
- B. Contractors must have a respiratory protection program in compliance with all applicable laws, regulations and standards specified elsewhere in this Section.

### 3.5 HYGIENE PRACTICES

- A. Eating, drinking, smoking, chewing gum or tobacco, and applying of cosmetics are not allowed in the work area.
- B. All persons entering the work area are required to wear appropriate PPE, and follow the entry and exit procedures posted in the Personnel Decontamination Enclosure System.
- C. Personal Protection Equipment (PPE) shall include:
  1. Full body disposable suits, headgear, and footwear.
  2. Gloves.
  3. Safety glasses
  4. Hardhats.
  5. Non-disposable footwear and clothing shall remain in the work area and shall be disposed of as contaminated waste when the job is completed.
  6. Authorized visitors shall be provided with suitable PPE.

### 3.6 PROHIBITED ACTIVITIES

- A. Dry removal or dry sweeping.
- B. Use of compressed air for cleaning.
- C. Use of high speed power tools not equipped with a HEPA-filtered local exhaust system.
- D. The abatement contractor shall not execute abatement activities without asbestos abatement design drawings that have been signed by an IDPH licensed Asbestos Designer are on the job site. Any and all changes to containment layout and placement shall not be executed until revised design drawings that have been approved and signed by an IDPH licensed Asbestos Designer are on the job site.
- E. Buffers cannot be used to remove mastic.

### 3.7 WORK AREA ISOLATION AND PREPARATION

#### A. General Preparation.

##### 1. Post:

- a. Caution signs meeting the specifications of OSHA 29 CFR 1926.1101 (k)(6) at any location and approaches to a location where airborne concentrations of asbestos may exceed ambient background levels.
- b. Decontamination and work procedures in equipment rooms and clean rooms.
- c. EPA NESHAP asbestos rules (40 CFR Part 61, subparts A & M) in the clean room.
- d. OSHA Asbestos Construction Standards (29 CFR 1926.1101) in the clean room.
- e. Entry and Exit Log
- f. List of telephone numbers in the clean room for:
  - 1) local hospital and/or local emergency squad.
  - 2) school security office (if applicable).
  - 3) Owner representative reachable 24 hours per day.
  - 4) contractor's headquarters.
  - 5) architects or consultants directly involved in the project.

##### 2. Secure the work area from entry by unauthorized persons.

##### 3. Separate Work Areas from Occupied Areas.

- a. Seal off all doorways and corridors which will not be used for passage during work.
- b. Install IDPH required separation barriers per section 855.430 (a) in all openings larger than 4 ft by 8 ft, consisting of wood or metal framing, a sheathing material such as plywood or drywall at least 5/8" thick on the work side, and double-layer 6-mil poly, both sides. Edges shall be caulked at the floor, ceiling, walls, and fixtures to form an air-tight seal.
- c. If the school is not totally occupied (see Section 855.430), the sheathing material may be omitted.

4. Separate Occupied areas from secured areas.
  - a. Install IDPH barriers per section 855.430 (b).

B. Interior Preparation.

1. Shut down and lock out electric power to all work areas. Provide temporary power from an outside source with ground-fault circuit interrupter (GFCI) at the source.
2. Shut down and isolate heating, cooling, and ventilating air systems. Remove HVAC filters, package and dispose as asbestos waste. (Need to discuss filter removal and disposal in light of replacement costs and clarify that this applies when work happens in a mech system and not in classrooms).
3. Pre-clean movable objects with HEPA vacuums or wet cleaning and remove from the work area to a location designated by the EC where friable ACBM is involved.
4. Pre-clean fixed items which must remain in the work area with HEPA vacuums or wet cleaning where friable ACBM is involved.
5. Wrap all fixed objects and equipment which will remain in the work area with a minimum of one layer of six mil poly.
6. Remove/protect carpeting per environmental scope sheets.
7. Pre-clean the work area with HEPA vacuums or wet cleaning.
8. Seal off all windows, corridors, doorways, skylights, ducts, grilles, diffusers, and other penetrations or openings in walls, ceilings and floors with 6-mil poly and tape.
9. Cover floors with two layers of fire-retardant 6-mil poly with seams staggered and taped, and extending 12" up walls. Cover walls with two layers of 4-mil poly, with each wall poly overlapping each floor poly layers by 12".
10. Asbestos materials shall not be disturbed during the preparation phase.
11. Suspended ceilings shall remain in place until preparation phase is complete. Remove/protect ceiling tile per environmental scope sheets.
12. Maintain emergency and fire exits.
13. Install a five chamber Worker Decontamination Enclosure System, consisting of clean room, shower room, and dirty room separated by airlocks at least 3' wide, all with curtained doorways, of sufficient size to serve the size of the crew, and with all features required by IDPH rules.
  - a. Where a remote decon unit is used (i.e. non-friable ACBM and TSI glovebag operations), the AC shall:
    - 1) set up the decon unit within the work area barriers.
    - 2) establish a negative pressure of at least 0.02" water column (wc) between the dirty room and adjacent spaces, including the clean room.
    - 3) provide at least 4 air changes per hour within the decon unit.
    - 4) use a double suiting procedure where the workers proceed to the work area exit, HEPA-vacuum gross debris from their persons using a "buddy system" put on a clean suit (either over their dirty suit or after removing the dirty suit), assure that their footwear are free of ACM contamination, and follow a designated path to the remote decon unit.
    - 5) once in the decon unit, follow normal decontamination procedures.
14. Install an Equipment Decontamination Enclosure System, consisting of a washing station and a holding area, with curtained doorways and a lockable door.

15. Maintain a negative pressure of at least 0.02" water column (wc) between each contained area and adjacent spaces 24 hours a day using negative air machines vented to the outside, from the start of abatement work to final clearance. Backup negative air machines shall be available onsite in case of machine failure.
16. Once operational, the system shall be inspected daily with smoke tubes by the contractor. Damages and defects shall be repaired immediately upon discovery.

C. Exterior Preparation (for areas that interface with interior work).

1. 6 mil plastic sheeting shall be placed over the ground, foundation, or other surfaces below the abatement area.
2. Unauthorized entry shall be prevented by using appropriate barriers, such as warning tape, fencing, or other suitable barriers.
3. Nearby air intakes, grilles, and other openings into the building interior shall be sealed off with poly and tape.
4. The contractor shall be responsible for cleanup of any adjacent areas that become contaminated as a result of the abatement activities at no additional cost to the building Owner.

### 3.8 ABATEMENT PROCEDURES

A. Removal:

1. Asbestos materials shall be adequately wetted and kept adequately wet during removal.
2. ACM waste shall be bagged or containerized as it is removed.
3. Work areas shall be kept wet until visible material is cleaned up.

B. Encapsulation:

1. Damaged or missing areas of existing materials shall be repaired with non-asbestos substitutes, where appropriate.
2. Loose or hanging ACM shall be removed using appropriate removal procedures.
3. Bridging encapsulants shall be applied in accordance with manufacturer's instructions.
4. Penetrating encapsulants shall be applied to penetrate existing materials to the substrate.
5. Encapsulants shall be applied with airless spray equipment.
6. Encapsulated ACM shall be labeled as asbestos to prevent future unprotected disturbance.

C. Enclosure:

1. Locations where openings for hangers, supports, framing, or other attachments must be made in the ACM must be misted with water and kept damp to reduce airborne fiber release. Tools used to drill, cut, or otherwise disturb the ACM during attachment installation shall be equipped with a HEPA-filtered local exhaust system.
2. Loose or hanging ACM shall be removed using removal procedures.
3. Damaged areas shall be repaired with non-asbestos materials.
4. Utilities or other items requiring access shall be relocated outside of the enclosure area. Once enclosures are installed, they shall not be opened or disturbed.
5. Enclosure materials shall be impact resistant and provide an airtight barrier.
6. Enclosures shall be labeled that they contain asbestos materials to prevent future unprotected disturbance.



### 3.9 CLEANING AND DECONTAMINATION

- A. Cleaning and decontamination of abatement areas, excluding glovebag areas, are as follows:
- B. All visible accumulations of ACM, debris, tools, and unnecessary equipment shall be removed from the work area.
- C. First clean:
  - 1. Wet clean all surfaces and remove excess water.
  - 2. Wait 12 hours before proceeding further to allow dust and fibers to settle.
  - 3. Remove outer layer of poly and dispose as ACM waste.
  - 4. Completion of First Clean shall be determined and documented by the EC.
- D. Second clean:
  - 1. Wet clean all surfaces and remove excess water.
  - 2. Wait 12 hours before proceeding further to allow dust and fibers to settle.
  - 3. Remove inner layer of poly and dispose as ACM waste.
  - 4. Critical barriers on windows, doors, penetrations, and other openings shall remain in place and negative air system shall remain in continuous operation until final clearance tests have passed.
  - 5. Completion of Second Clean shall be determined and documented by the EC.
- E. Third clean:
  - 1. Wet clean all surfaces and remove excess water.
  - 2. Wait 12 hours before proceeding further to allow dust and fibers to settle.
  - 3. Remove all tools, cleaning materials, remaining wastes from the work area. Tools and equipment shall be cleaned before removal.
  - 4. Third Clean shall be determined and documented by the EC.
- F. Visual inspection: EC and contractor shall jointly inspect the work area for visible residue and excess water and, if observed, repeat the clean/12 hour wait cycle until residues are not detected and work area is dry.
- G. Apply lock-down encapsulants where specified in the Documents.
- H. EC will inform AC if the work area is ready for final clearance testing.

### 3.10 FINAL CLEARANCE

- A. Final clearance testing (aggressive methods) shall be performed after 12 hours have lapsed since the final cleaning, and when visual inspection has been completed and no visible water or condensation remains.
- B. Work areas with 260 linear feet or 160 square feet or more of ACM shall be tested using aggressive sample collection methods and Transmission Electron Microscopy (TEM) analysis, as required by AHERA and IDPH Section 855.170. The sample set must include at least 5 inside samples, 5 outside samples, 2 field blanks, and 1 sealed blank. NOTE: Large, complicated, or multi-floor contiguous work areas connected by corridors, stairways, or other

connections may be tested with a larger “inside” sample set rather than full, multiple TEM tests, so long as the inside sample distribution is reasonably representative of the work area conditions.

- C. Work areas with less than 260 linear feet or 160 square feet may be tested using aggressive sample collection methods and analyzed by Phase Contrast Microscopy (PCM).
- D. If final clearance test(s) fail, the AC is responsible for repeating the cleaning sequence as necessary until final clearance tests are successful. All expenses associated with the collection and analysis of additional final clearance tests are the responsibility of the AC.

### 3.11 SPECIAL PROCEDURES:

- A. Less stringent requirements may apply in a number of cases.
- B. Variances from IDPH Regulations. Variances may be requested and approved by the IDPH. These less stringent procedures may only be used when they have been requested by the Project Designer and approved by the IDPH on a case-by-case basis.
  - 1. Variances that have been applied for the project will be listed in the Documents. These variances may or may not be approved by the IDPH.
  - 2. The contractor is encouraged to request additional variances it believes will be beneficial to the project. Such requests shall be submitted to the Project Designer (EC) as a value engineering proposal which references the IDPH regulation section, describes the procedure variations, includes information which supports the efficacy and benefits of the alternative procedures, and offers appropriate cost savings.
  - 3. Otherwise the contractor is required to fully adhere to the requirements of this specification. Failure to obtain a variance shall not constitute a change in the requirements of these documents.
- C. Operations and Maintenance Procedures where minor areas of ACM must be disturbed for building repairs, such as drilling holes in walls or floors, cleaning small areas to allow installation of fixtures, smoke detectors, etc. The Documents shall state if these procedures are allowed for a particular project or task.
  - 1. Submit an asbestos notification to the IDPH for quantities over 3 linear or square feet.
  - 2. Licensed abatement workers are required, but a licensed abatement contractor is not mandatory for work less than 3 linear or square feet.
  - 3. Shut down heating, cooling, or ventilating air systems to prevent fiber dispersal to other areas.
  - 4. Seal off openings in the work area, including windows, doorways, vents, and other openings with 6 mil poly sheeting and tape.
  - 5. Lay an impermeable drop cloth under the work.
  - 6. Wear appropriate PPE and at least a 1/2 mask APR respirator. Note that OSHA still requires an exposure assessment and respirators that are appropriate for the expected airborne fiber concentrations.
  - 7. Use wet removal methods.
  - 8. Wet clean work area, leaving no visible residue.
  - 9. Package and dispose of asbestos-containing waste as specified in the waste disposal Article of this Section.

- D. Glovebag Procedure. Glovebags may be used to remove pipe and duct insulation.
1. Normal IDPH Notification requirements apply to quantities of more than 3 linear or square feet.
  2. Glovebag removal shall require a single layer, 6 mil poly tent containment (mini-containment) with negative pressure air filtration.
  3. Monitoring will be performed for each contained area by the EC:
    - a. 1 personal sample
    - b. 1 area sample
    - c. 1 area sample at each negative pressure machine exhaust
  4. Glovebag construction shall be 6 mil poly with seamless bottom, suitable for the intended use (straight runs, fittings, elbows, vertical pipes, etc.) without modification.
  5. At least two licensed workers shall perform glovebag operations.
  6. Workers shall wear full body PPE and at least a 1/2 mask APR respirator. Note here, too, that OSHA still requires an exposure assessment and respirators that are appropriate for the expected airborne fiber concentrations.
  7. Prior to use, all loose or damaged material adjacent to the operation shall be wrapped in two layers of 6 mil poly or otherwise be rendered intact.
  8. Work Practices shall include:
    - a. installation to completely cover the circumference of pipe or other structure. Pipe insulation diameter shall not exceed 1/2 the bag working length above the glove sleeves.
    - b. smoke test for leaks and seal any leaks prior to use.
    - c. glove bag shall be single use and not moved once it is placed.
    - d. wet removal methods on the materials to be removed and wet cleaning to remove all visible ACM from the pipe or structure surfaces.
    - e. not to be used on surfaces having temperatures greater than 1500F.
    - f. spray down the interior surfaces of the bag, substrate, and removed ACM.
    - g. first and second cleaning, waiting at least 12 hours following each cleaning.
    - h. wet down remaining ACM surfaces or seal with encapsulant.
    - i. seal off the lower portion of the bag containing the ACM waste by twisting several times and sealing with tape.
    - j. collapse glovebag with a HEPA vacuum.
    - k. slip a 6 mil poly waste disposal bag over the glovebag, detach the bag from the pipe, and gooseneck-seal it in the waste disposal bag.
    - l. dispose in accordance with this specification.
- E. Resilient Floor Covering. Removal of resilient floor covering shall be performed by, as a minimum, those trained in accordance with OSHA Class 2 requirements, using heat guns, infrared heat machines or other methods that remove the floor covering in whole pieces. Buffing machines may not be used for removal of mastic. The contractor shall insure that no damage is caused to the area or equipment below the floor. Abatement procedures are as follows:
1. Submit the Floor Tile Project Notice at least 10 working days prior to the beginning of all asbestos resilient floor covering abatement projects.
  2. Post signs so that the work area cannot be entered from any direction without observing a sign.

3. Isolate the work area from areas to remain occupied.
4. Install barriers of six mil plastic sheeting sealed with duct tape at all openings in the work area.
5. Install a curtained doorway at the entry to the work area, lock out electrical power to the room and supply required power with ground fault interruption protected circuits.
6. Wear, as a minimum, half-faced dual cartridge NIOSH-approved respirators and double disposable suits.
7. Remove floor covering without causing excessive breakage. Work shall stop and appropriate IDPH design, project management and air sampling will be put in place if excessive breakage occurs (>10% of the removed floor tiles).
8. Dispose of floor covering and debris as asbestos waste.
9. HEPA vacuum the work area thoroughly following completion of the removal.
10. HEPA vacuum surface of protective clothing and dispose of clothing as asbestos waste.
11. Personal air monitoring shall be performed by the contractor in accordance with OSHA.

F. Electrical Wiring Insulation: Removal of the electrical wiring insulation shall be performed by licensed asbestos abatement contractor under full-containment. This work is considered gross removal work. All work shall be performed in compliance with laws, regulations, and standards specified elsewhere in this Section. If IDPH approves any variances for this project, they will be provided to the abatement contractor prior to the start of the project. The abatement shall be performed as follows:

1. Contractor shall provide submittals as specified elsewhere in this Section.
2. The contractor supervisor shall inform all abatement workers about electrical safety and require them to work in accordance with all applicable safety requirements while working on and around electrical system components.
3. Work area shall be isolated and prepared as per procedures specified in Part 3 of this Section.
4. Contractor shall verify that electrical power to wiring within the work area is Locked Out/Tagged out for the duration of the project until final air clearance is achieved. Contractor shall verify that a competent person has de-energized, locked out, tagged out and tested the electrical lines involved in this project to ensure lock out/tag out was successful. Water shall not be sprayed around wiring and/or other electrical system components. Moist rag or mops shall be used as needed. Contractor shall keep work area free of any standing water throughout this project.
5. Disconnect wire at both ends without cutting wire or otherwise disturbing wire insulation. Remove wires intact, by pulling them from one access point (preferably at the panel or switch) and rolling them up directly into an asbestos waste bag (or a glove-bag, where feasible).
6. HEPA vacuum shall be used continuously while wires are being pulled out, in order to minimize the airborne dispersal of asbestos fibers. Wet rags shall be utilized to moist the wiring insulation as the wire is being pulled out and rolled-up in order to minimize the release of asbestos fibers.
7. The conduit and other surfaces which were in contact with wires shall be cleaned utilizing HEPA Vacuum. Moist rags/sponges shall be pulled through the conduits so as to clean the conduit surfaces after wires have been pulled out of the conduit.
8. Cleaning and Decontamination of work area shall be performed as specified in Part 3 of this Section. Contractor shall keep the work area free of any standing water throughout this project. Water shall not be sprayed around wiring and/or other electrical system components. HEPA vacuum and moist rags shall be used for cleanup and decontamination.

9. Clearance of the work area shall be performed as specified in Part 3 of this Section.

### 3.12 WASTE DISPOSAL AND EQUIPMENT LOAD-OUT

#### A. Preparing equipment for load-out.

1. Seal openings to prevent escape of internal contamination; or open up equipment, remove filters, and make equipment interiors accessible for cleaning and decontamination.
2. HEPA vacuum and wet wipe all equipment before removal.

#### B. Packaging asbestos wastes:

1. All asbestos-containing wastes, including removed ACM and debris, containment poly, critical barrier materials, suits, respirator filters, vacuum and negative air machine HEPA filters, water filters, and other asbestos-containing items shall be properly packaged for disposal.
2. Use double 6 mil plastic bags with “gooseneck” seal, or other impermeable containers.
3. Wrap large or irregular items in 2 layers of 6 mil poly sheeting, seal with tape, and affix required labeling.
4. Sharp, jagged, or other items (floor tiles, screws, nails, metal debris, wood etc.) that may puncture poly shall be packaged in rigid impermeable containers such as drums or boxes, or wrapped in burlap or other protective covering before sealing in double bags or double layers of 6 mil poly.
5. Label containers:
  - a. OSHA warning label.
  - b. DOT performance-oriented hazardous material label.
  - c. Name and address of generator and abatement location.

#### C. Removing items from the work area:

1. Packaged asbestos wastes, non-porous debris (such as ceiling grid, doors, hardware, and other items that can be decontaminated), and equipment shall be wet cleaned, moved into the equipment decontamination enclosure system, cleaned a second time, and moved into the holding area.
2. Containers and equipment shall be removed from the holding area by workers in clean PPE and respirators who enter from the uncontaminated side (outside). The equipment decontamination enclosure system shall not be used to enter or exit the work area.
3. Waste shall be placed in a cart and covered. A plastic runner shall be placed on the floor to the waste storage area. The loaded cart shall be carefully taken to and unloaded into the enclosed waste storage container.

#### D. Storage of packaged asbestos wastes shall be in a completely enclosed dumpster or other suitable container that can be secured. The secured area shall be kept locked at all times to prevent unauthorized access.

#### E. Shipment of items from the project.

1. Decontaminated tools and equipment may be shipped by normal carrier to warehouse, another jobsite, or other destination.

2. For asbestos wastes:
  - a. Line shipping container with 6 mil poly prior to loading packaged asbestos wastes.
  - b. Post NESHAP placards during loading.
  - c. Persons performing loading operations shall wear PPE and respirators.
  - d. Containers and packages shall be tightly packed together to prevent shifting during transport. Large components or heavy items shall be secured to prevent shifting, and shall not be stacked on top of bags.
  - e. Execute the NESHAP-required Waste Shipment Record (WSR) to be signed by the generator, transporter, and landfill. All WSRs shall be returned to the EC within 30 days of shipment.
  - f. ACBM waste shall be transported from the work site directly to the landfill.
- F. Disposal of packaged asbestos wastes.
  1. Only landfills approved and permitted by Illinois for accepting asbestos wastes may be used for disposal.

### 3.13 DEMOBILIZATION

- A. EC shall inspect the work area for evidence of visible debris prior to releasing the area for tear-down. Detection of contamination will require additional cleaning and re-testing of the work area.
- B. Remove critical barriers and seals.
- C. Restore previously-removed items, if specified in the Documents:
  1. Re-mount fixtures and other previously dismantled objects.
  2. Return moveable objects to their original locations.
  3. Install new filters in HVAC systems where filters were previously removed.
  4. Re-establish electric systems and other utilities that were shut down or locked out.
- D. A punch list walk-through shall be conducted for each cleared work area within two working days of clearance testing by the EC, contractor, school engineer, property advisor, principal, and AOR. All punch list items shall be completed within five working days of walk through.

ATTACHMENT: Appendix A – Environmental Scope Sheets

**END OF SECTION**



**APPENDIX TO 02 82 14**

**ENVIRONMENTAL SCOPE SHEETS**

**ENVIRONMENTAL SCOPE SHEETS  
CHICAGO PUBLIC SCHOOLS (CPS)**

Managing Environmental  
Consultant/Project No.:  
100% Issue Date:  
School:

Environmental Design International inc.  
05530-PS1651D-002  
December 10, 2012  
Alexander Graham Bell Elementary School, 3730 North Oakley Avenue

Room ID/Name:	Boy's/Southwest Bathroom, including entrance vestibule – First Floor
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**LBP Areas:**

Substrate	Component	Walls				Ceiling	Floor	Response Action	Comments
		N	E	S	W	C	F		
Plaster	Wall	X	X	X	X	X		LBP Mitigation Stabilize Paint, Prepare and Prime as needed for completion for scope of work.	Refer to Contract Documents and architect's drawings, specifications for scope and extent of work. The LBP survey report that includes information about this room can be found in Specification Section 00 10 20. Bathroom is targeted for complete renovation, therefore, all material should be treated as LBP and addressed accordingly.

**ACM Areas:**

Substrate	Component	Walls				Ceiling	Floor	Response Action	Comments
		N	E	S	W	C	F		
Mudded Fittings								ACM Removal and Disposal	Refer to Contract Documents and architect's drawings, specifications for scope and extent of work. The ACM survey report that includes information about this room can be found in Specification Section 00 10 20.
Preformed Pipe Insulation								ACM Removal and Disposal	Refer to Contract Documents and architect's drawings, specifications for scope and extent of work. The ACM survey report that includes information about this room can be found in Specification Section 00 10 20.

**ENVIRONMENTAL SCOPE SHEETS  
CHICAGO PUBLIC SCHOOLS (CPS)**

Managing Environmental Consultant/Project No.:	Environmental Design International inc. 05530-PS1651D-002
100% Issue Date:	December 10, 2012
School:	Alexander Graham Bell Elementary School, 3730 North Oakley Avenue

Room ID/Name:	Boy's/Southwest Bathroom, including entrance vestibule – First Floor (continued)
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**Special Waste:**

Substrate	Component	Walls				Ceiling	Floor	Response Action	Comments
		N	E	S	W	C	F		
Mercury Fluorescent Light Bulbs and light ballasts								Removal and Disposal as Special/Universal Waste.	Refer to Contract Documents and architect's drawings, specifications for scope and extent of work. The Haz Mat survey report that includes information about this area can be found in Specification Section 00 10 20. If planned renovation/demolition activities will impact light bulbs and ballasts, that material should be treated as Haz Mat/Universal Waste and addressed accordingly.

**Note:** If the Abatement Contractor discovers material similar to previously identified ACM or LBP during the course of completing renovation and/or demolition activities and that material will be directly impacted during the course of performing any planned renovation and/or demolition activities, it should be treated/managed as ACM or LBP as appropriate. This includes materials discovered in previously inaccessible areas such as beneath or inside walls, in pipe chases, above the ceiling line, etc.

Only LBP described as being in poor or fair condition typically will need to be mitigated or stabilized unless it is directly affected by planned renovation and/or demolition activities.

CPS/Bell School personnel will be responsible for the management of the mercury-containing light bulbs, light ballasts, and select other Hazardous Materials, identified at Bell School. The Abatement Contractor should confirm with PBC and/or the EC which specific Hazardous Materials need to be managed/disposed of.

**ENVIRONMENTAL SCOPE SHEETS  
CHICAGO PUBLIC SCHOOLS (CPS)**

Managing Environmental  
Consultant/Project No.:  
100% Issue Date:  
School:

Environmental Design International inc.  
05530-PS1651D-002  
December 10, 2012  
Alexander Graham Bell Elementary School, 3730 North Oakley Avenue

Room ID/Name:	South End of Main Hallway – First Floor
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**LBP Areas:**

Substrate	Component	Walls				Ceiling	Floor	Response Action	Comments
		N	E	S	W	C	F		
Plaster	Wall			X	X	X		LBP Mitigation Stabilize Paint, Prepare and Prime as needed for completion for scope of work.	Refer to Contract Documents and architect's drawings, specifications for scope and extent of work. The LBP survey report that includes information about this area can be found in Specification Section 00 10 20. Lower portion of south wall and middle and upper portions of West wall require mitigation/stabilization if impacted by the planned renovation/demolition activities. If work related to replacement of above ceiling water lines will impact plaster ceiling, the ceiling material should be treated as LBP and addressed accordingly. If replacement of Emergency lighting battery packs and Exit signs impact plaster ceiling, the material should be treated as LBP and addressed accordingly.
Metal	Stair Handrail			X				LBP Mitigation Stabilize Paint, Prepare and Prime as needed for completion for scope of work.	Refer to Contract Documents and architect's drawings, specifications for scope and extent of work. The LBP survey report that includes information about this area can be found in Specification Section 00 10 20. Mitigation/stabilization is only necessary if the stairs are directly impacted by the planned renovation/demolition activities.
Metal	Stair Stringer			X				LBP Mitigation Stabilize Paint, Prepare and Prime as needed for completion for scope of work.	Refer to Contract Documents and architect's drawings, specifications for scope and extent of work. The LBP survey report that includes information about this area can be found in Specification Section 00 10 20. Mitigation/stabilization is only necessary if the stairs are directly impacted by the planned renovation/demolition activities.

**ENVIRONMENTAL SCOPE SHEETS  
CHICAGO PUBLIC SCHOOLS (CPS)**

Managing Environmental  
Consultant/Project No.:  
100% Issue Date:  
School:

Environmental Design International inc.  
05530-PS1651D-002  
December 10, 2012  
Alexander Graham Bell Elementary School, 3730 North Oakley Avenue

Room ID/Name:	South End of Main Hallway – First Floor (continued)
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**ACM Areas:**

Substrate	Component	Walls				Ceiling	Floor	Response Action	Comments
		N	E	S	W	C	F		
Preformed Pipe Insulation								ACM Removal and Disposal	Refer to Contract Documents and architect’s drawings, specifications for scope and extent of work. The ACM survey report that includes information about this area can be found in Specification Section 00 10 20. Material at this location is not included in the ACM Log, however, it is known to exist between the drop ceiling and plaster ceiling along the length of the hallway. If it will be impacted by the planned renovation/demolition activities, it must be managed accordingly as ACM.

**Special Waste:**

Substrate	Component	Walls				Ceiling	Floor	Response Action	Comments
		N	E	S	W	C	F		
Battery Pack for Emergency Lighting								Removal and Disposal as Special/Universal Waste.	Refer to Contract Documents and architect’s drawings, specifications for scope and extent of work. The Haz Mat survey report that includes information about this area can be found in Specification Section 00 10 20.

**Note:** If the Abatement Contractor discovers material similar to previously identified ACM or LBP during the course of completing renovation and/or demolition activities and that material will be directly impacted during the course of performing any planned renovation and/or demolition activities, it should be treated/managed as ACM or LBP as appropriate. This includes materials discovered in previously inaccessible areas such as beneath or inside walls, in pipe chases, above the ceiling line, etc.

Only LBP described as being in poor or fair condition typically will need to be mitigated or stabilized unless it is directly affected by planned renovation and/or demolition activities.

CPS/Bell School personnel will be responsible for the management of the mercury-containing light bulbs, light ballasts, and select other Hazardous Materials, identified at Bell School. The Abatement Contractor should confirm with PBC and/or the EC which specific Hazardous Materials need to be managed/disposed of.

**ENVIRONMENTAL SCOPE SHEETS  
CHICAGO PUBLIC SCHOOLS (CPS)**

Managing Environmental  
Consultant/Project No.:  
100% Issue Date:  
School:

Environmental Design International inc.  
05530-PS1651D-002  
December 10, 2012  
Alexander Graham Bell Elementary School, 3730 North Oakley Avenue

Room ID/Name:	MDF Room – First Floor
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**LBP Areas:**

Substrate	Component	Walls				Ceiling	Floor	Response Action	Comments
		N	E	S	W	C	F		
Plaster	Wall	X	X	X	X			LBP Mitigation Stabilize Paint, Prepare and Prime as needed for completion for scope of work.	Refer to Contract Documents and architect's drawings, specifications for scope and extent of work. The LBP survey report that includes information about this room can be found in Specification Section 00 10 20. Upper portion of south wall should be mitigated/stabilized if directly impacted by the planned renovation/demolition activities.

**ACM Areas:**

Substrate	Component	Walls				Ceiling	Floor	Response Action	Comments
		N	E	S	W	C	F		
None								Not Applicable	

**Special Waste:**

Substrate	Component	Walls				Ceiling	Floor	Response Action	Comments
		N	E	S	W	C	F		
Mercury Fluorescent Light Bulbs and light ballasts								Removal and Disposal as Special/Universal Waste.	Refer to Contract Documents and architect's drawings, specifications for scope and extent of work. The Haz Mat survey report that includes information about this area can be found in Specification Section 00 10 20. If planned renovation/demolition activities will impact light bulbs and ballasts, that material should be treated as Haz Mat/Universal Waste and addressed accordingly.

**Note:** If the Abatement Contractor discovers material similar to previously identified ACM or LBP during the course of completing renovation and/or demolition activities and that material will be directly impacted during the course of performing any planned renovation and/or demolition activities, it should be treated/managed as ACM or LBP as appropriate. This includes materials discovered in previously inaccessible areas such as beneath or inside walls, in pipe chases, above the ceiling line, etc.

Only LBP described as being in poor or fair condition typically will need to be mitigated or stabilized unless it is directly affected by planned renovation and/or demolition activities.



**ENVIRONMENTAL SCOPE SHEETS  
CHICAGO PUBLIC SCHOOLS (CPS)**

Managing Environmental Consultant/Project No.:	Environmental Design International inc.
100% Issue Date:	05530-PS1651D-002
School:	December 10, 2012
	Alexander Graham Bell Elementary School, 3730 North Oakley Avenue

CPS/Bell School personnel will be responsible for the management of the mercury-containing light bulbs, light ballasts, and select other Hazardous Materials, identified at Bell School. The Abatement Contractor should confirm with PBC and/or the EC which specific Hazardous Materials need to be managed/disposed of.

**ENVIRONMENTAL SCOPE SHEETS  
CHICAGO PUBLIC SCHOOLS (CPS)**

Managing Environmental  
Consultant/Project No.:  
100% Issue Date:  
School:

Environmental Design International inc.  
05530-PS1651D-002  
December 10, 2012  
Alexander Graham Bell Elementary School, 3730 North Oakley Avenue

Room ID/Name:	Room 118 – First Floor
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**LBP Areas:**

Substrate	Component	Walls				Ceiling	Floor	Response Action	Comments
		N	E	S	W	C	F		
Plaster	Wall					X		LBP Mitigation Stabilize Paint, Prepare and Prime as needed for completion for scope of work.	Refer to Contract Documents and architect's drawings, specifications for scope and extent of work. The LBP survey report that includes information about this room can be found in Specification Section 00 10 20. If work related to replacement of above ceiling water lines will impact plaster ceiling, that material should be treated as LBP and addressed accordingly.

**ACM Areas:**

Substrate	Component	Walls				Ceiling	Floor	Response Action	Comments
		N	E	S	W	C	F		
Preformed Pipe Insulation								ACM Removal and Disposal	Refer to Contract Documents and architect's drawings, specifications for scope and extent of work. The ACM survey report that includes information about this room can be found in Specification Section 00 10 20. Material at this location is not included in ACM Log, however, it is known to exist between the drop ceiling and plaster ceiling. If it will be impacted by renovation/ demolition activities, it must be managed accordingly as ACM.

**ENVIRONMENTAL SCOPE SHEETS  
CHICAGO PUBLIC SCHOOLS (CPS)**

Managing Environmental  
Consultant/Project No.:  
100% Issue Date:  
School:

Environmental Design International inc.  
05530-PS1651D-002  
December 10, 2012  
Alexander Graham Bell Elementary School, 3730 North Oakley Avenue

Room ID/Name:	Room 118 – First Floor (continued)
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**Special Waste:**

Substrate	Component	Walls				Ceiling	Floor	Response Action	Comments
		N	E	S	W	C	F		
Mercury Fluorescent Light Bulbs and light ballasts								Removal and Disposal as Special/Universal Waste.	Refer to Contract Documents and architect’s drawings, specifications for scope and extent of work. The Haz Mat survey report that includes information about this area can be found in Specification Section 00 10 20. If planned renovation/demolition activities will impact light bulbs and ballasts, that material should be treated as Haz Mat/Universal Waste and addressed accordingly.

**Note:** If the Abatement Contractor discovers material similar to previously identified ACM or LBP during the course of completing renovation and/or demolition activities and that material will be directly impacted during the course of performing any planned renovation and/or demolition activities, it should be treated/managed as ACM or LBP as appropriate. This includes materials discovered in previously inaccessible areas such as beneath or inside walls, in pipe chases, above the ceiling line, etc.

Only LBP described as being in poor or fair condition typically will need to be mitigated or stabilized unless it is directly affected by planned renovation and/or demolition activities.

CPS/Bell School personnel will be responsible for the management of the mercury-containing light bulbs, light ballasts, and select other Hazardous Materials, identified at Bell School. The Abatement Contractor should confirm with PBC and/or the EC which specific Hazardous Materials need to be managed/disposed of.

**ENVIRONMENTAL SCOPE SHEETS  
CHICAGO PUBLIC SCHOOLS (CPS)**

Managing Environmental  
Consultant/Project No.:  
100% Issue Date:  
School:

Environmental Design International inc.  
05530-PS1651D-002  
December 10, 2012  
Alexander Graham Bell Elementary School, 3730 North Oakley Avenue

Room ID/Name:	Lunchroom, including Kitchen, north and south storage rooms – First Floor
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**LBP Areas:**

Substrate	Component	Walls				Ceiling	Floor	Response Action	Comments
		N	E	S	W	C	F		
Plaster	Wall		X		X	X		LBP Mitigation Stabilize Paint, Prepare and Prime as needed for completion for scope of work.	Refer to Contract Documents and architect's drawings, specifications for scope and extent of work. The LBP survey report that includes information about this room can be found in Specification Section 00 10 20. Upper portion of east and west walls, soffit on east wall and ceilings should only be mitigated/stabilized if directly impacted by the planned renovation/demolition activities. Kitchen is at north end of space and is being converted into the library. If work related to replacement of above ceiling water lines will impact plaster ceiling, the ceiling material should be treated as LBP and addressed accordingly.

**ENVIRONMENTAL SCOPE SHEETS  
CHICAGO PUBLIC SCHOOLS (CPS)**

Managing Environmental  
Consultant/Project No.:  
100% Issue Date:  
School:

Environmental Design International inc.  
05530-PS1651D-002  
December 10, 2012  
Alexander Graham Bell Elementary School, 3730 North Oakley Avenue

Room ID/Name:	Lunchroom, including Kitchen, north and south storage rooms – First Floor (continued)
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**ACM Areas:**

Substrate	Component	Walls				Ceiling	Floor	Response Action	Comments
		N	E	S	W	C	F		
Mastic	Vinyl Floor Tile						X	ACM Removal and Disposal	Refer to Contract Documents and architect's drawings, specifications for scope and extent of work. The ACM survey report that includes information about this room can be found in Specification Section 00 10 20. Remove all floor tile (12" x 12" and 9" x 9") and mastic throughout the space.
Preformed Pipe Insulation								ACM Removal and Disposal.	Refer to Contract Documents and architect's drawings, specifications for scope and extent of work. The ACM survey report that includes information about this room can be found in Specification Section 00 10 20. Material at this location is not included in ACM Log, however, it is known to exist between the drop ceiling and plaster ceiling. If it will be impacted by renovation/demolition activities, it must be managed accordingly as ACM.

**Special Waste:**

Substrate	Component	Walls				Ceiling	Floor	Response Action	Comments
		N	E	S	W	C	F		
Mercury Fluorescent Light Bulbs and light ballasts								Removal and Disposal as Special/Universal Waste.	Refer to Contract Documents and architect's drawings, specifications for scope and extent of work. The Haz Mat survey report that includes information about this area can be found in Specification Section 00 10 20. If planned renovation/demolition activities will impact light bulbs and ballasts, that material should be treated as Haz Mat/Universal Waste and addressed accordingly.

**Note:** If the Abatement Contractor discovers material similar to previously identified ACM or LBP during the course of completing renovation and/or demolition activities and that material will be directly impacted during the course of performing

**ENVIRONMENTAL SCOPE SHEETS  
CHICAGO PUBLIC SCHOOLS (CPS)**

Managing Environmental Consultant/Project No.: Environmental Design International inc.  
05530-PS1651D-002  
100% Issue Date: December 10, 2012  
School: Alexander Graham Bell Elementary School, 3730 North Oakley Avenue

any planned renovation and/or demolition activities, it should be treated/managed as ACM or LBP as appropriate. This includes materials discovered in previously inaccessible areas such as beneath or inside walls, in pipe chases, above the ceiling line, etc.

Only LBP described as being in poor or fair condition typically will need to be mitigated or stabilized unless it is directly affected by planned renovation and/or demolition activities.

CPS/Bell School personnel will be responsible for the management of the mercury-containing light bulbs, light ballasts, and select other Hazardous Materials, identified at Bell School. The Abatement Contractor should confirm with PBC and/or the EC which specific Hazardous Materials need to be managed/disposed of.



**ENVIRONMENTAL SCOPE SHEETS  
CHICAGO PUBLIC SCHOOLS (CPS)**

Managing Environmental  
Consultant/Project No.:  
100% Issue Date:  
School:

Environmental Design International inc.  
05530-PS1651D-002  
December 10, 2012  
Alexander Graham Bell Elementary School, 3730 North Oakley Avenue

Room ID/Name:	Hallway north of Lunchroom/kitchen/Hallway south of Warm Air and Engine and Blower Rooms – First Floor
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**LBP Areas:**

Substrate	Component	Walls				Ceiling	Floor	Response Action	Comments
		N	E	S	W	C	F		
Plaster	Ceiling					X		LBP Mitigation Stabilize Paint, Prepare and Prime as needed for completion for scope of work.	Refer to Contract Documents and architect's drawings, specifications for scope and extent of work. The LPB survey report that includes information about this room can be found in Specification Section 00 10 20. If planned renovation/ demolition activities will impact plaster ceiling, the ceiling material should be treated as LBP and addressed accordingly.

**ACM Areas:**

Substrate	Component	Walls				Ceiling	Floor	Response Action	Comments
		N	E	S	W	C	F		
None								Not Applicable	

**Special Waste:**

Substrate	Component	Walls				Ceiling	Floor	Response Action	Comments
		N	E	S	W	C	F		
None								Not Applicable.	

**Note:** If the Abatement Contractor discovers material similar to previously identified ACM or LBP during the course of completing renovation and/or demolition activities and that material will be directly impacted during the course of performing any planned renovation and/or demolition activities, it should be treated/managed as ACM or LBP as appropriate. This includes materials discovered in previously inaccessible areas such as beneath or inside walls, in pipe chases, above the ceiling line, etc.

Only LBP described as being in poor or fair condition typically will need to be mitigated or stabilized unless it is directly affected by planned renovation and/or demolition activities.

CPS/Bell School personnel will be responsible for the management of the mercury-containing light bulbs, light ballasts, and select other Hazardous Materials, identified at Bell School. The Abatement Contractor should confirm with PBC and/or the EC which specific Hazardous Materials need to be managed/disposed of.

**ENVIRONMENTAL SCOPE SHEETS  
CHICAGO PUBLIC SCHOOLS (CPS)**

Managing Environmental  
Consultant/Project No.:  
100% Issue Date:  
School:

Environmental Design International inc.  
05530-PS1651D-002  
December 10, 2012  
Alexander Graham Bell Elementary School, 3730 North Oakley Avenue

Room ID/Name:	Tank Room and west adjacent Storage Room (south of Boiler Room) – First Floor
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**LBP Areas:**

Substrate	Component	Walls				Ceiling	Floor	Response Action	Comments
		N	E	S	W	C	F		
Plaster	Ceiling					X		LBP Mitigation Stabilize Paint, Prepare and Prime as needed for completion for scope of work.	Refer to Contract Documents and architect's drawings, specifications for scope and extent of work. The LPB survey report that includes information about this room can be found in Specification Section 00 10 20. If planned renovation/ demolition activities will impact plaster ceiling, the ceiling material should be treated as LBP and addressed accordingly.

**ACM Areas:**

Substrate	Component	Walls				Ceiling	Floor	Response Action	Comments
		N	E	S	W	C	F		
None								Not Applicable	

**Special Waste:**

Substrate	Component	Walls				Ceiling	Floor	Response Action	Comments
		N	E	S	W	C	F		
None								Not Applicable	

**Note:** If the Abatement Contractor discovers material similar to previously identified ACM or LBP during the course of completing renovation and/or demolition activities and that material will be directly impacted during the course of performing any planned renovation and/or demolition activities, it should be treated/managed as ACM or LBP as appropriate. This includes materials discovered in previously inaccessible areas such as beneath or inside walls, in pipe chases, above the ceiling line, etc.

Only LBP described as being in poor or fair condition typically will need to be mitigated or stabilized unless it is directly affected by planned renovation and/or demolition activities.

CPS/Bell School personnel will be responsible for the management of the mercury-containing light bulbs, light ballasts, and select other Hazardous Materials, identified at Bell School. The Abatement Contractor should confirm with PBC and/or the EC which specific Hazardous Materials need to be managed/disposed of.

**ENVIRONMENTAL SCOPE SHEETS  
CHICAGO PUBLIC SCHOOLS (CPS)**

Managing Environmental  
Consultant/Project No.:  
100% Issue Date:  
School:

Environmental Design International inc.  
05530-PS1651D-002  
December 10, 2012  
Alexander Graham Bell Elementary School, 3730 North Oakley Avenue

Room ID/Name:	Boiler Room – First Floor
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**LBP Areas:**

Substrate	Component	Walls				Ceiling	Floor	Response Action	Comments
		N	E	S	W	C	F		
Brick, wood, metal, concrete	Miscellaneous							LBP Mitigation Stabilize Paint, Prepare and Prime as needed for completion for scope of work.	Refer to Contract Documents and architect's drawings, specifications for scope and extent of work. The LBP survey report that includes information about this room can be found in Specification Section 00 10 20. No mitigation/stabilization needed for bathroom or pantry unless affected by the planned renovation/demolition activities. If the planned renovation/demolition activities will impact any identified surfaces including the ceiling, that material should be treated as LBP and addressed accordingly.

**ACM Areas:**

Substrate	Component	Walls				Ceiling	Floor	Response Action	Comments
		N	E	S	W	C	F		
None								Not Applicable	

**ENVIRONMENTAL SCOPE SHEETS  
CHICAGO PUBLIC SCHOOLS (CPS)**

Managing Environmental  
Consultant/Project No.:  
100% Issue Date:  
School:

Environmental Design International inc.  
05530-PS1651D-002  
December 10, 2012  
Alexander Graham Bell Elementary School, 3730 North Oakley Avenue

Room ID/Name:	Boiler Room – First Floor (continued)
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**Special Waste:**

Substrate	Component	Walls				Ceiling	Floor	Response Action	Comments
		N	E	S	W	C	F		
Mercury Fluorescent Light Bulbs and light ballasts								Removal and Disposal as Special/Universal Waste.	Refer to Contract Documents and architect’s drawings, specifications for scope and extent of work. The Haz Mat survey report that includes information about this area can be found in Specification Section 00 10 20. Only light bulbs and ballasts impacted by renovation/demolition activities need to be managed. The school’s building engineer maintains a supply of new bulbs and replacement ballasts in the Boiler Room. These should be relocated prior to the start of renovation or demolition activities.

**Note:** If the Abatement Contractor discovers material similar to previously identified ACM or LBP during the course of completing renovation and/or demolition activities and that material will be directly impacted during the course of performing any planned renovation and/or demolition activities, it should be treated/managed as ACM or LBP as appropriate. This includes materials discovered in previously inaccessible areas such as beneath or inside walls, in pipe chases, above the ceiling line, etc.

Only LBP described as being in poor or fair condition typically will need to be mitigated or stabilized unless it is directly affected by planned renovation and/or demolition activities.

CPS/Bell School personnel will be responsible for the management of the mercury-containing light bulbs, light ballasts, and select other Hazardous Materials, identified at Bell School. The Abatement Contractor should confirm with PBC and/or the EC which specific Hazardous Materials need to be managed/disposed of.

**ENVIRONMENTAL SCOPE SHEETS  
CHICAGO PUBLIC SCHOOLS (CPS)**

Managing Environmental  
Consultant/Project No.:  
100% Issue Date:  
School:

Environmental Design International inc.  
05530-PS1651D-002  
December 10, 2012  
Alexander Graham Bell Elementary School, 3730 North Oakley Avenue

Room ID/Name:	Library (Room 106) – First Floor
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**LBP Areas:**

Substrate	Component	Walls				Ceiling	Floor	Response Action	Comments
		N	E	S	W	C	F		
Plaster	Wall	X	X	X	X			LBP Mitigation Stabilize Paint, Prepare and Prime as needed for completion for scope of work.	Refer to Contract Documents and architect's drawings, specifications for scope and extent of work. The LPB survey report that includes information about this room can be found in Specification Section 00 10 20. Upper and lower portions of all walls should be mitigated/stabilized if directly impacted by the planned renovation/demolition activities.
Wood	Ceiling					X		LBP Mitigation Stabilize Paint, Prepare and Prime as needed for completion for scope of work.	Refer to Contract Documents and architect's drawings, specifications for scope and extent of work. The LPB survey report that includes information about this room can be found in Specification Section 00 10 20. Mitigation/stabilization is only necessary if the ceiling will be directly impacted by the planned renovation/demolition activities.

**ACM Areas:**

Substrate	Component	Walls				Ceiling	Floor	Response Action	Comments
		N	E	S	W	C	F		
None								Not Applicable	

**ENVIRONMENTAL SCOPE SHEETS  
CHICAGO PUBLIC SCHOOLS (CPS)**

Managing Environmental  
Consultant/Project No.:  
100% Issue Date:  
School:

Environmental Design International inc.  
05530-PS1651D-002  
December 10, 2012  
Alexander Graham Bell Elementary School, 3730 North Oakley Avenue

Room ID/Name:	Library (Room 106) – First Floor (continued)
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**Special Waste:**

Substrate	Component	Walls				Ceiling	Floor	Response Action	Comments
		N	E	S	W	C	F		
Mercury Fluorescent Light Bulbs and light ballasts								Removal and Disposal as Special/Universal Waste.	Refer to Contract Documents and architect’s drawings, specifications for scope and extent of work. The Haz Mat survey report that includes information about this area can be found in Specification Section 00 10 20. If planned renovation/demolition activities will impact light bulbs and ballasts, that material should be treated as Haz Mat/Universal Waste and addressed accordingly.

**Note:** If the Abatement Contractor discovers material similar to previously identified ACM or LBP during the course of completing renovation and/or demolition activities and that material will be directly impacted during the course of performing any planned renovation and/or demolition activities, it should be treated/managed as ACM or LBP as appropriate. This includes materials discovered in previously inaccessible areas such as beneath or inside walls, in pipe chases, above the ceiling line, etc.

Only LBP described as being in poor or fair condition typically will need to be mitigated or stabilized unless it is directly affected by planned renovation and/or demolition activities.

CPS/Bell School personnel will be responsible for the management of the mercury-containing light bulbs, light ballasts, and select other Hazardous Materials, identified at Bell School. The Abatement Contractor should confirm with PBC and/or the EC which specific Hazardous Materials need to be managed/disposed of.



**ENVIRONMENTAL SCOPE SHEETS  
CHICAGO PUBLIC SCHOOLS (CPS)**

Managing Environmental  
Consultant/Project No.:  
100% Issue Date:  
School:

Environmental Design International inc.  
05530-PS1651D-002  
December 10, 2012  
Alexander Graham Bell Elementary School, 3730 North Oakley Avenue

Room ID/Name:	Girl's/Northwest Bathroom, including entrance vestibule – First Floor
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**LBP Areas:**

Substrate	Component	Walls				Ceiling	Floor	Response Action	Comments
		N	E	S	W	C	F		
Plaster	Wall	X	X	X	X	X		LBP Mitigation Stabilize Paint, Prepare and Prime as needed for completion for scope of work.	Refer to Contract Documents and architect's drawings, specifications for scope and extent of work. The LBP survey report that includes information about this room can be found in Specification Section 00 10 20. Bathroom is targeted for complete renovation, therefore, all material should be treated as LBP and addressed accordingly.

**ACM Areas:**

Substrate	Component	Walls				Ceiling	Floor	Response Action	Comments
		N	E	S	W	C	F		
Mudded Fittings								ACM Removal and Disposal.	Refer to Contract Documents and architect's drawings, specifications for scope and extent of work. The ACM survey report that includes information about this room can be found in Specification Section 00 10 20.
Preformed Pipe Insulation								ACM Removal and Disposal.	Refer to Contract Documents and architect's drawings, specifications for scope and extent of work. The ACM survey report that includes information about this room can be found in Specification Section 00 10 20.

**ENVIRONMENTAL SCOPE SHEETS  
CHICAGO PUBLIC SCHOOLS (CPS)**

Managing Environmental Consultant/Project No.:	Environmental Design International inc.
100% Issue Date:	05530-PS1651D-002
School:	December 10, 2012
	Alexander Graham Bell Elementary School, 3730 North Oakley Avenue

Room ID/Name:	Girl's/Northwest Bathroom, including entrance vestibule – First Floor (continued)
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**Special Waste:**

Substrate	Component	Walls				Ceiling	Floor	Response Action	Comments
		N	E	S	W	C	F		
Mercury Fluorescent Light Bulbs and light ballasts								Removal and Disposal as Special/Universal Waste.	Refer to Contract Documents and architect's drawings, specifications for scope and extent of work. The Haz Mat survey report that includes information about this area can be found in Specification Section 00 10 20. If planned renovation/demolition activities will impact light bulbs and ballasts, that material should be treated as Haz Mat/Universal Waste and addressed accordingly.

**Note:** If the Abatement Contractor discovers material similar to previously identified ACM or LBP during the course of completing renovation and/or demolition activities and that material will be directly impacted during the course of performing any planned renovation and/or demolition activities, it should be treated/managed as ACM or LBP as appropriate. This includes materials discovered in previously inaccessible areas such as beneath or inside walls, in pipe chases, above the ceiling line, etc.

Only LBP described as being in poor or fair condition typically will need to be mitigated or stabilized unless it is directly affected by planned renovation and/or demolition activities.

CPS/Bell School personnel will be responsible for the management of the mercury-containing light bulbs, light ballasts, and select other Hazardous Materials, identified at Bell School. The Abatement Contractor should confirm with PBC and/or the EC which specific Hazardous Materials need to be managed/disposed of.

**ENVIRONMENTAL SCOPE SHEETS  
CHICAGO PUBLIC SCHOOLS (CPS)**

Managing Environmental  
Consultant/Project No.:  
100% Issue Date:  
School:

Environmental Design International inc.  
05530-PS1651D-002  
December 10, 2012  
Alexander Graham Bell Elementary School, 3730 North Oakley Avenue

Room ID/Name:	Office (Room 100) – First Floor
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**LBP Areas:**

Substrate	Component	Walls				Ceiling	Floor	Response Action	Comments
		N	E	S	W	C	F		
Plaster	Wall		X	X	X	X		LBP Mitigation Stabilize Paint, Prepare and Prime as needed for completion for scope of work.	Refer to Contract Documents and architect's drawings, specifications for scope and extent of work. The LBP survey report that includes information about this room can be found in Specification Section 00 10 20. North wall should be only be mitigated/stabilized if directly impacted by the planned renovation/demolition activities.

**ACM Areas:**

Substrate	Component	Walls				Ceiling	Floor	Response Action	Comments
		N	E	S	W	C	F		
None								Not Applicable	

**Special Waste:**

Substrate	Component	Walls				Ceiling	Floor	Response Action	Comments
		N	E	S	W	C	F		
Mercury Fluorescent Light Bulbs and light ballasts								Removal and Disposal as Special/Universal Waste.	Refer to Contract Documents and architect's drawings, specifications for scope and extent of work. The Haz Mat survey report that includes information about this area can be found in Specification Section 00 10 20. If planned renovation/demolition activities will impact light bulbs and ballasts, that material should be treated as Haz Mat/Universal Waste and addressed accordingly.

**Note:** If the Abatement Contractor discovers material similar to previously identified ACM or LBP during the course of completing renovation and/or demolition activities and that material will be directly impacted during the course of performing any planned renovation and/or demolition activities, it should be treated/managed as ACM or LBP as appropriate. This includes materials discovered in previously inaccessible areas such as beneath or inside walls, in pipe chases, above the ceiling line, etc.

Only LBP described as being in poor or fair condition typically will need to be mitigated or stabilized unless it is directly affected by planned renovation and/or demolition activities.

**ENVIRONMENTAL SCOPE SHEETS  
CHICAGO PUBLIC SCHOOLS (CPS)**

Managing Environmental Consultant/Project No.:	Environmental Design International inc.
100% Issue Date:	05530-PS1651D-002
School:	December 10, 2012
	Alexander Graham Bell Elementary School, 3730 North Oakley Avenue

CPS/Bell School personnel will be responsible for the management of the mercury-containing light bulbs, light ballasts, and select other Hazardous Materials, identified at Bell School. The Abatement Contractor should confirm with PBC and/or the EC which specific Hazardous Materials need to be managed/disposed of.

**ENVIRONMENTAL SCOPE SHEETS  
CHICAGO PUBLIC SCHOOLS (CPS)**

Managing Environmental  
Consultant/Project No.:  
100% Issue Date:  
School:

Environmental Design International inc.  
05530-PS1651D-002  
December 10, 2012  
Alexander Graham Bell Elementary School, 3730 North Oakley Avenue

Room ID/Name:	Vestibule B/Hallway north of Auditorium – First Floor
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**LBP Areas:**

Substrate	Component	Walls				Ceiling	Floor	Response Action	Comments
		N	E	S	W	C	F		
Plaster	Wall	X	X	X	X			LBP Mitigation Stabilize Paint, Prepare and Prime as needed for completion for scope of work.	Refer to Contract Documents and architect's drawings, specifications for scope and extent of work. The LBP survey report that includes information about this area can be found in Specification Section 00 10 20. If planned renovation/demolition activities will impact plaster walls, that material should be treated as LBP and addressed accordingly.

**ACM Areas:**

Substrate	Component	Walls				Ceiling	Floor	Response Action	Comments
		N	E	S	W	C	F		
None								Not Applicable	

**Special Waste:**

Substrate	Component	Walls				Ceiling	Floor	Response Action	Comments
		N	E	S	W	C	F		
Mercury Fluorescent Light Bulbs and light ballasts								Removal and Disposal as Special/Universal Waste.	Refer to Contract Documents and architect's drawings, specifications for scope and extent of work. The Haz Mat survey report that includes information about this area can be found in Specification Section 00 10 20. If planned renovation/demolition activities will impact light bulbs and ballasts, that material should be treated as Haz Mat/Universal Waste and addressed accordingly.

**Note:** If the Abatement Contractor discovers material similar to previously identified ACM or LBP during the course of completing renovation and/or demolition activities and that material will be directly impacted during the course of performing any planned renovation and/or demolition activities, it should be treated/managed as ACM or LBP as appropriate. This includes materials discovered in previously inaccessible areas such as beneath or inside walls, in pipe chases, above the ceiling line, etc.

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CHICAGO PUBLIC SCHOOLS (CPS)**

Managing Environmental Consultant/Project No.: Environmental Design International inc.  
100% Issue Date: 05530-PS1651D-002  
December 10, 2012  
School: Alexander Graham Bell Elementary School, 3730 North Oakley Avenue

Only LBP described as being in poor or fair condition typically will need to be mitigated or stabilized unless it is directly affected by planned renovation and/or demolition activities.

CPS/Bell School personnel will be responsible for the management of the mercury-containing light bulbs, light ballasts, and select other Hazardous Materials, identified at Bell School. The Abatement Contractor should confirm with PBC and/or the EC which specific Hazardous Materials need to be managed/disposed of.



**ENVIRONMENTAL SCOPE SHEETS  
CHICAGO PUBLIC SCHOOLS (CPS)**

Managing Environmental  
Consultant/Project No.:  
100% Issue Date:  
School:

Environmental Design International inc.  
05530-PS1651D-002  
December 10, 2012  
Alexander Graham Bell Elementary School, 3730 North Oakley Avenue

Room ID/Name:	Auditorium – First Floor
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**LBP Areas:**

Substrate	Component	Walls				Ceiling	Floor	Response Action	Comments
		N	E	S	W	C	F		
Plaster	Ceiling					X		LBP Mitigation Stabilize Paint, Prepare and Prime as needed for completion for scope of work.	Refer to Contract Documents and architect's drawings, specifications for scope and extent of work. The LBP survey report that includes information about this room can be found in Specification Section 00 10 20. Mitigation/stabilization of plaster ceiling is only needed if planned renovation/demolition activities will impact plaster ceiling. If impacted, the ceiling material should be treated as LBP and addressed accordingly.

**ACM Areas:**

Substrate	Component	Walls				Ceiling	Floor	Response Action	Comments
		N	E	S	W	C	F		
None								Not Applicable	

**Special Waste:**

Substrate	Component	Walls				Ceiling	Floor	Response Action	Comments
		N	E	S	W	C	F		
Mercury Fluorescent Light Bulbs and light ballasts								Removal and Disposal as Special/Universal Waste.	Refer to Contract Documents and architect's drawings, specifications for scope and extent of work. The Haz Mat survey report that includes information about this area can be found in Specification Section 00 10 20. If planned renovation/demolition activities will impact light bulbs and ballasts, that material should be treated as Haz Mat/Universal Waste and addressed accordingly.

**Note:** If the Abatement Contractor discovers material similar to previously identified ACM or LBP during the course of completing renovation and/or demolition activities and that material will be directly impacted during the course of performing any planned renovation and/or demolition activities, it should be treated/managed as ACM or LBP as appropriate. This includes materials discovered in previously inaccessible areas such as beneath or inside walls, in pipe chases, above the ceiling line, etc.

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CHICAGO PUBLIC SCHOOLS (CPS)**

Managing Environmental Consultant/Project No.: Environmental Design International inc.  
100% Issue Date: 05530-PS1651D-002  
December 10, 2012  
School: Alexander Graham Bell Elementary School, 3730 North Oakley Avenue

Only LBP described as being in poor or fair condition typically will need to be mitigated or stabilized unless it is directly affected by planned renovation and/or demolition activities.

CPS/Bell School personnel will be responsible for the management of the mercury-containing light bulbs, light ballasts, and select other Hazardous Materials, identified at Bell School. The Abatement Contractor should confirm with PBC and/or the EC which specific Hazardous Materials need to be managed/disposed of.

**ENVIRONMENTAL SCOPE SHEETS  
CHICAGO PUBLIC SCHOOLS (CPS)**

Managing Environmental  
Consultant/Project No.:  
100% Issue Date:  
School:

Environmental Design International inc.  
05530-PS1651D-002  
December 10, 2012  
Alexander Graham Bell Elementary School, 3730 North Oakley Avenue

Room ID/Name:	Main Hallway – First Floor
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**LBP Areas:**

Substrate	Component	Walls				Ceiling	Floor	Response Action	Comments
		N	E	S	W	C	F		
Plaster	Wall	X	X		X	X		LBP Mitigation Stabilize Paint, Prepare and Prime as needed for completion for scope of work.	Refer to Contract Documents and architect's drawings, specifications for scope and extent of work. The LBP survey report that includes information about this area can be found in Specification Section 00 10 20. If planned renovation/ demolition activities will impact plaster walls or ceiling, that material should be treated as LBP and addressed accordingly. If replacement of Emergency lighting battery packs and Exit signs impact plaster ceiling, the material should be treated as LBP and addressed accordingly.

**ACM Areas:**

Substrate	Component	Walls				Ceiling	Floor	Response Action	Comments
		N	E	S	W	C	F		
Preformed Pipe Insulation								ACM Removal and Disposal.	Refer to Contract Documents and architect's drawings, specifications for scope and extent of work. The ACM survey report that includes information about this area can be found in Specification Section 00 10 20. Material at this location is not included in ACM Log, however, it is known to exist between the drop ceiling and plaster ceiling along the length of the hallway. If planned renovation/demolition activities will impact piping, that material should be treated as ACM and addressed accordingly.

**ENVIRONMENTAL SCOPE SHEETS  
CHICAGO PUBLIC SCHOOLS (CPS)**

Managing Environmental Consultant/Project No.: Environmental Design International inc.  
 05530-PS1651D-002  
 100% Issue Date: December 10, 2012  
 School: Alexander Graham Bell Elementary School, 3730 North Oakley Avenue

Room ID/Name:	Main Hallway – First Floor (continued)
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**Special Waste:**

Substrate	Component	Walls				Ceiling	Floor	Response Action	Comments
		N	E	S	W	C	F		
Battery Pack for Emergency Lighting								Removal and Disposal as Special/Universal Waste.	Refer to Contract Documents and architect’s drawings, specifications for scope and extent of work. The Haz Mat survey report that includes information about this area can be found in Specification Section 00 10 20.

**Note:** If the Abatement Contractor discovers material similar to previously identified ACM or LBP during the course of completing renovation and/or demolition activities and that material will be directly impacted during the course of performing any planned renovation and/or demolition activities, it should be treated/managed as ACM or LBP as appropriate. This includes materials discovered in previously inaccessible areas such as beneath or inside walls, in pipe chases, above the ceiling line, etc.

Only LBP described as being in poor or fair condition typically will need to be mitigated or stabilized unless it is directly affected by planned renovation and/or demolition activities.

CPS/Bell School personnel will be responsible for the management of the mercury-containing light bulbs, light ballasts, and select other Hazardous Materials, identified at Bell School. The Abatement Contractor should confirm with PBC and/or the EC which specific Hazardous Materials need to be managed/disposed of.

**ENVIRONMENTAL SCOPE SHEETS  
CHICAGO PUBLIC SCHOOLS (CPS)**

Managing Environmental  
Consultant/Project No.:  
100% Issue Date:  
School:

Environmental Design International inc.  
05530-PS1651D-002  
December 10, 2012  
Alexander Graham Bell Elementary School, 3730 North Oakley Avenue

Room ID/Name:	Boy's/Southwest Bathroom, including entrance vestibule – Second Floor
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**LBP Areas:**

Substrate	Component	Walls				Ceiling	Floor	Response Action	Comments
		N	E	S	W	C	F		
Plaster	Wall	X	X	X	X	X		LBP Mitigation Stabilize Paint, Prepare and Prime as needed for completion for scope of work.	Refer to Contract Documents and architect's drawings, specifications for scope and extent of work. The LBP survey report that includes information about this room can be found in Specification Section 00 10 20. Bathroom is targeted for complete renovation, therefore, all material should be treated as LBP and addressed accordingly.

**ACM Areas:**

Substrate	Component	Walls				Ceiling	Floor	Response Action	Comments
		N	E	S	W	C	F		
Mudded Fittings								ACM Removal and Disposal	Refer to Contract Documents and architect's drawings, specifications for scope and extent of work. The ACM survey report that includes information about this room can be found in Specification Section 00 10 20.
Preformed Pipe Insulation								ACM Removal and Disposal	Refer to Contract Documents and architect's drawings, specifications for scope and extent of work. The ACM survey report that includes information about this room can be found in Specification Section 00 10 20.

**ENVIRONMENTAL SCOPE SHEETS  
CHICAGO PUBLIC SCHOOLS (CPS)**

Managing Environmental Consultant/Project No.: Environmental Design International inc.  
 05530-PS1651D-002  
 100% Issue Date: December 10, 2012  
 School: Alexander Graham Bell Elementary School, 3730 North Oakley Avenue

Room ID/Name:	Boy's/Southwest Bathroom, including entrance vestibule – Second Floor (continued)
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**Special Waste:**

Substrate	Component	Walls				Ceiling	Floor	Response Action	Comments
		N	E	S	W	C	F		
Mercury Fluorescent Light Bulbs and light ballasts								Removal and Disposal as Special/Universal Waste.	Refer to Contract Documents and architect's drawings, specifications for scope and extent of work. The Haz Mat survey report that includes information about this area can be found in Specification Section 00 10 20. If planned renovation/demolition activities will impact light bulbs and ballasts, that material should be treated as Haz Mat/Universal Waste and addressed accordingly.

**Note:** If the Abatement Contractor discovers material similar to previously identified ACM or LBP during the course of completing renovation and/or demolition activities and that material will be directly impacted during the course of performing any planned renovation and/or demolition activities, it should be treated/managed as ACM or LBP as appropriate. This includes materials discovered in previously inaccessible areas such as beneath or inside walls, in pipe chases, above the ceiling line, etc.

Only LBP described as being in poor or fair condition typically will need to be mitigated or stabilized unless it is directly affected by planned renovation and/or demolition activities.

CPS/Bell School personnel will be responsible for the management of the mercury-containing light bulbs, light ballasts, and select other Hazardous Materials, identified at Bell School. The Abatement Contractor should confirm with PBC and/or the EC which specific Hazardous Materials need to be managed/disposed of.



**ENVIRONMENTAL SCOPE SHEETS  
CHICAGO PUBLIC SCHOOLS (CPS)**

Managing Environmental  
Consultant/Project No.:  
100% Issue Date:  
School:

Environmental Design International inc.  
05530-PS1651D-002  
December 10, 2012  
Alexander Graham Bell Elementary School, 3730 North Oakley Avenue

Room ID/Name:	South End of Main Hallway – Second Floor
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**LBP Areas:**

Substrate	Component	Walls				Ceiling	Floor	Response Action	Comments
		N	E	S	W	C	F		
Plaster	Wall			X	X			LBP Mitigation Stabilize Paint, Prepare and Prime as needed for completion for scope of work.	Refer to Contract Documents and architect's drawings, specifications for scope and extent of work. The LPB survey report that includes information about this area can be found in Specification Section 00 10 20. Lower portion of south and west walls will require mitigation/stabilization if directly impacted by renovation/demolition activities. If replacement of Emergency lighting battery packs and Exit signs impact plaster ceiling, the material should be treated as LBP and addressed accordingly.
Metal	Stair Handrail			X				LBP Mitigation Stabilize Paint, Prepare and Prime as needed for completion for scope of work.	Refer to Contract Documents and architect's drawings, specifications for scope and extent of work. The LPB survey report that includes information about this area can be found in Specification Section 00 10 20. Mitigation/stabilization only needed if the planned renovation/demolition activities will directly affect the stairs.
Metal	Stair Stringer			X				LBP Mitigation Stabilize Paint, Prepare and Prime as needed for completion for scope of work.	Refer to Contract Documents and architect's drawings, specifications for scope and extent of work. The LPB survey report that includes information about this area can be found in Specification Section 00 10 20. Mitigation/stabilization only needed if the planned renovation/demolition activities will directly affect the stairs.

**ENVIRONMENTAL SCOPE SHEETS  
CHICAGO PUBLIC SCHOOLS (CPS)**

Managing Environmental  
Consultant/Project No.:  
100% Issue Date:  
School:

Environmental Design International inc.  
05530-PS1651D-002  
December 10, 2012  
Alexander Graham Bell Elementary School, 3730 North Oakley Avenue

Room ID/Name:	South End of Main Hallway – Second Floor (continued)
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Metal	Newel Post									LBP Mitigation Stabilize Paint, Prepare and Prime as needed for completion for scope of work.	Refer to Contract Documents and architect's drawings, specifications for scope and extent of work. The LPB survey report that includes information about this area can be found in Specification Section 00 10 20. Mitigation/stabilization only needed if the planned renovation/demolition activities will directly affect the stairs.
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**ACM Areas:**

Substrate	Component	Walls				Ceiling	Floor	Response Action	Comments
		N	E	S	W	C	F		
None								Not Applicable	

**Special Waste:**

Substrate	Component	Walls				Ceiling	Floor	Response Action	Comments
		N	E	S	W	C	F		
Battery Pack for Emergency Lighting								Removal and Disposal as Special/Universal Waste.	Refer to Contract Documents and architect's drawings, specifications for scope and extent of work. The Haz Mat survey report that includes information about this area can be found in Specification Section 00 10 20.

**Note:** If the Abatement Contractor discovers material similar to previously identified ACM or LBP during the course of completing renovation and/or demolition activities and that material will be directly impacted during the course of performing any planned renovation and/or demolition activities, it should be treated/managed as ACM or LBP as appropriate. This includes materials discovered in previously inaccessible areas such as beneath or inside walls, in pipe chases, above the ceiling line, etc.

Only LBP described as being in poor or fair condition typically will need to be mitigated or stabilized unless it is directly affected by planned renovation and/or demolition activities.

CPS/Bell School personnel will be responsible for the management of the mercury-containing light bulbs, light ballasts, and select other Hazardous Materials, identified at Bell School. The Abatement Contractor should confirm with PBC and/or the EC which specific Hazardous Materials need to be managed/disposed of.

**ENVIRONMENTAL SCOPE SHEETS  
CHICAGO PUBLIC SCHOOLS (CPS)**

Managing Environmental  
Consultant/Project No.:  
100% Issue Date:  
School:

Environmental Design International inc.  
05530-PS1651D-002  
December 10, 2012  
Alexander Graham Bell Elementary School, 3730 North Oakley Avenue

Room ID/Name:	Room 202 – Second Floor
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**LBP Areas:**

Substrate	Component	Walls				Ceiling	Floor	Response Action	Comments
		N	E	S	W	C	F		
Plaster (closet only)	Wall	X	X	X				LBP Mitigation Stabilize Paint, Prepare and Prime as needed for completion for scope of work.	Refer to Contract Documents and architect's drawings, specifications for scope and extent of work. The LBP survey report that includes information about this room can be found in Specification Section 00 10 20. Mitigation/stabilization only needed if renovation/demolition activities will directly affect the closet.

**ACM Areas:**

Substrate	Component	Walls				Ceiling	Floor	Response Action	Comments
		N	E	S	W	C	F		
None								Not Applicable	

**Special Waste:**

Substrate	Component	Walls				Ceiling	Floor	Response Action	Comments
		N	E	S	W	C	F		
Mercury Fluorescent Light Bulbs and light ballasts								Removal and Disposal as Special/Universal Waste.	Refer to Contract Documents and architect's drawings, specifications for scope and extent of work. The Haz Mat survey report that includes information about this area can be found in Specification Section 00 10 20. If planned renovation/demolition activities will impact light bulbs and ballasts, that material should be treated as Haz Mat/Universal Waste and addressed accordingly.

**Note:** If the Abatement Contractor discovers material similar to previously identified ACM or LBP during the course of completing renovation and/or demolition activities and that material will be directly impacted during the course of performing any planned renovation and/or demolition activities, it should be treated/managed as ACM or LBP as appropriate. This includes materials discovered in previously inaccessible areas such as beneath or inside walls, in pipe chases, above the ceiling line, etc.

Only LBP described as being in poor or fair condition typically will need to be mitigated or stabilized unless it is directly affected by planned renovation and/or demolition activities.

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CPS/Bell School personnel will be responsible for the management of the mercury-containing light bulbs, light ballasts, and select other Hazardous Materials, identified at Bell School. The Abatement Contractor should confirm with PBC and/or the EC which specific Hazardous Materials need to be managed/disposed of.

**ENVIRONMENTAL SCOPE SHEETS  
CHICAGO PUBLIC SCHOOLS (CPS)**

Managing Environmental  
Consultant/Project No.:  
100% Issue Date:  
School:

Environmental Design International inc.  
05530-PS1651D-002  
December 10, 2012  
Alexander Graham Bell Elementary School, 3730 North Oakley Avenue

Room ID/Name:	Girl's/Northwest Bathroom, including entrance vestibule – Second Floor
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**LBP Areas:**

Substrate	Component	Walls				Ceiling	Floor	Response Action	Comments
		N	E	S	W	C	F		
Plaster	Wall	X	X	X	X	X		LBP Mitigation Stabilize Paint, Prepare and Prime as needed for completion for scope of work.	Refer to Contract Documents and architect's drawings, specifications for scope and extent of work. The LBP survey report that includes information about this room can be found in Specification Section 00 10 20. Bathroom is targeted for complete renovation, therefore, all material should be treated as LBP and addressed accordingly.

**ACM Areas:**

Substrate	Component	Walls				Ceiling	Floor	Response Action	Comments
		N	E	S	W	C	F		
Mudded Fittings								ACM Removal and Disposal	Refer to Contract Documents and architect's drawings, specifications for scope and extent of work. The ACM survey report that includes information about this room can be found in Specification Section 00 10 20.
Preformed Pipe Insulation								ACM Removal and Disposal	Refer to Contract Documents and architect's drawings, specifications for scope and extent of work. The ACM survey report that includes information about this room can be found in Specification Section 00 10 20.

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 School: Alexander Graham Bell Elementary School, 3730 North Oakley Avenue

Room ID/Name:	Girl's/Northwest Bathroom, including entrance vestibule – Second Floor (continued)
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**Special Waste:**

Substrate	Component	Walls				Ceiling	Floor	Response Action	Comments
		N	E	S	W	C	F		
Mercury Fluorescent Light Bulbs and light ballasts								Removal and Disposal as Special/Universal Waste.	Refer to Contract Documents and architect's drawings, specifications for scope and extent of work. The Haz Mat survey report that includes information about this area can be found in Specification Section 00 10 20. If planned renovation/demolition activities will impact light bulbs and ballasts, that material should be treated as Haz Mat/Universal Waste and addressed accordingly.

**Note:** If the Abatement Contractor discovers material similar to previously identified ACM or LBP during the course of completing renovation and/or demolition activities and that material will be directly impacted during the course of performing any planned renovation and/or demolition activities, it should be treated/managed as ACM or LBP as appropriate. This includes materials discovered in previously inaccessible areas such as beneath or inside walls, in pipe chases, above the ceiling line, etc.

Only LBP described as being in poor or fair condition typically will need to be mitigated or stabilized unless it is directly affected by planned renovation and/or demolition activities.

CPS/Bell School personnel will be responsible for the management of the mercury-containing light bulbs, light ballasts, and select other Hazardous Materials, identified at Bell School. The Abatement Contractor should confirm with PBC and/or the EC which specific Hazardous Materials need to be managed/disposed of.



**ENVIRONMENTAL SCOPE SHEETS  
CHICAGO PUBLIC SCHOOLS (CPS)**

Managing Environmental  
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05530-PS1651D-002  
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Alexander Graham Bell Elementary School, 3730 North Oakley Avenue

Room ID/Name:	Hallway north of Auditorium Balcony – Second Floor
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**LBP Areas:**

Substrate	Component	Walls				Ceiling	Floor	Response Action	Comments
		N	E	S	W	C	F		
Plaster	Wall	X	X	X	X			LBP Mitigation Stabilize Paint, Prepare and Prime as needed for completion for scope of work.	Refer to Contract Documents and architect's drawings, specifications for scope and extent of work. The LPB survey report that includes information about this area can be found in Specification Section 00 10 20. Walls will require mitigation/stabilization if directly impacted by renovation/demolition activities.
Metal	Stair Riser		X					LBP Mitigation Stabilize Paint, Prepare and Prime as needed for completion for scope of work.	Refer to Contract Documents and architect's drawings, specifications for scope and extent of work. The LPB survey report that includes information about this area can be found in Specification Section 00 10 20. Mitigation/stabilization only needed if the planned renovation/demolition activities will directly affect the stairs.
Metal	Stair Handrail		X					LBP Mitigation Stabilize Paint, Prepare and Prime as needed for completion for scope of work.	Refer to Contract Documents and architect's drawings, specifications for scope and extent of work. The LPB survey report that includes information about this area can be found in Specification Section 00 10 20. Mitigation/stabilization only needed if the planned renovation/demolition activities will directly affect the stairs.

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CHICAGO PUBLIC SCHOOLS (CPS)**

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Alexander Graham Bell Elementary School, 3730 North Oakley Avenue

Room ID/Name:	Hallway north of Auditorium Balcony – Second Floor (continued)
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Metal	Stair Stringer		X					LBP Mitigation Stabilize Paint, Prepare and Prime as needed for completion for scope of work.	Refer to Contract Documents and architect's drawings, specifications for scope and extent of work. The LPB survey report that includes information about this area can be found in Specification Section 00 10 20. Mitigation/stabilization only needed if the planned renovation/demolition activities will directly affect the stairs.
Metal	Newel Post		X					LBP Mitigation Stabilize Paint, Prepare and Prime as needed for completion for scope of work.	Refer to Contract Documents and architect's drawings, specifications for scope and extent of work. The LPB survey report that includes information about this area can be found in Specification Section 00 10 20. Mitigation/stabilization only needed if the planned renovation/demolition activities will directly affect the stairs.
Metal	Door		X					LBP Mitigation Stabilize Paint, Prepare and Prime as needed for completion for scope of work.	Refer to Contract Documents and architect's drawings, specifications for scope and extent of work. The LPB survey report that includes information about this area can be found in Specification Section 00 10 20. Mitigation/stabilization only needed if the planned renovation/demolition activities will directly affect the door.

**ACM Areas:**

Substrate	Component	Walls				Ceiling	Floor	Response Action	Comments
		N	E	S	W	C	F		
None								Not Applicable	

**ENVIRONMENTAL SCOPE SHEETS  
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Consultant/Project No.:  
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December 10, 2012  
Alexander Graham Bell Elementary School, 3730 North Oakley Avenue

Room ID/Name:	Hallway north of Auditorium Balcony – Second Floor (continued)
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**Special Waste:**

Substrate	Component	Walls				Ceiling	Floor	Response Action	Comments
		N	E	S	W	C	F		
Mercury Fluorescent Light Bulbs and light ballasts								Removal and Disposal as Special/Universal Waste.	Refer to Contract Documents and architect’s drawings, specifications for scope and extent of work. The Haz Mat survey report that includes information about this area can be found in Specification Section 00 10 20. If planned renovation/demolition activities will impact light bulbs and ballasts, that material should be treated as Haz Mat/Universal Waste and addressed accordingly.

**Note:** If the Abatement Contractor discovers material similar to previously identified ACM or LBP during the course of completing renovation and/or demolition activities and that material will be directly impacted during the course of performing any planned renovation and/or demolition activities, it should be treated/managed as ACM or LBP as appropriate. This includes materials discovered in previously inaccessible areas such as beneath or inside walls, in pipe chases, above the ceiling line, etc.

Only LBP described as being in poor or fair condition typically will need to be mitigated or stabilized unless it is directly affected by planned renovation and/or demolition activities.

CPS/Bell School personnel will be responsible for the management of the mercury-containing light bulbs, light ballasts, and select other Hazardous Materials, identified at Bell School. The Abatement Contractor should confirm with PBC and/or the EC which specific Hazardous Materials need to be managed/disposed of.

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CHICAGO PUBLIC SCHOOLS (CPS)**

Managing Environmental  
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December 10, 2012  
Alexander Graham Bell Elementary School, 3730 North Oakley Avenue

Room ID/Name:	Auditorium Balcony – Second Floor
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**LBP Areas:**

Substrate	Component	Walls				Ceiling	Floor	Response Action	Comments
		N	E	S	W	C	F		
Plaster	Wall	X	X	X	X	X		LBP Mitigation Stabilize Paint, Prepare and Prime as needed for completion for scope of work.	Refer to Contract Documents and architect's drawings, specifications for scope and extent of work. The LPB survey report that includes information about this room can be found in Specification Section 00 10 20. Mitigation/stabilization is only needed if the planned renovation/demolition activities directly affect the surfaces.
Plaster	Column, decorative wall, ceiling							LBP Mitigation Stabilize Paint, Prepare and Prime as needed for completion for scope of work.	Refer to Contract Documents and architect's drawings, specifications for scope and extent of work. The LPB survey report that includes information about this room can be found in Specification Section 00 10 20. Mitigation/stabilization is only needed if the planned renovation/demolition activities directly affect the surfaces.
Metal	Door							LBP Mitigation Stabilize Paint, Prepare and Prime as needed for completion for scope of work.	Refer to Contract Documents and architect's drawings, specifications for scope and extent of work. The LPB survey report that includes information about this room can be found in Specification Section 00 10 20. Mitigation/stabilization is only needed if the planned renovation/demolition activities directly affect the surfaces.

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Room ID/Name:	Auditorium Balcony – Second Floor (continued)
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Metal	Handrail							LBP Mitigation Stabilize Paint, Prepare and Prime as needed for completion for scope of work.	Refer to Contract Documents and architect's drawings, specifications for scope and extent of work. The LPB survey report that includes information about this room can be found in Specification Section 00 10 20. Handrail is being removed, therefore, no additional action is needed.
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**ACM Areas:**

Substrate	Component	Walls				Ceiling	Floor	Response Action	Comments
		N	E	S	W	C	F		
None								Not Applicable	

**Special Waste:**

Substrate	Component	Walls				Ceiling	Floor	Response Action	Comments
		N	E	S	W	C	F		
Mercury Fluorescent Light Bulbs and light ballasts								Removal and Disposal as Special/Universal Waste.	Refer to Contract Documents and architect's drawings, specifications for scope and extent of work. The Haz Mat survey report that includes information about this area can be found in Specification Section 00 10 20. If planned renovation/demolition activities will impact light bulbs and ballasts, that material should be treated as Haz Mat/Universal Waste and addressed accordingly.

**Note:** If the Abatement Contractor discovers material similar to previously identified ACM or LBP during the course of completing renovation and/or demolition activities and that material will be directly impacted during the course of performing any planned renovation and/or demolition activities, it should be treated/managed as ACM or LBP as appropriate. This includes materials discovered in previously inaccessible areas such as beneath or inside walls, in pipe chases, above the ceiling line, etc.

Only LBP described as being in poor or fair condition typically will need to be mitigated or stabilized unless it is directly affected by planned renovation and/or demolition activities.

CPS/Bell School personnel will be responsible for the management of the mercury-containing light bulbs, light ballasts, and select other Hazardous Materials, identified at Bell School. The Abatement Contractor should confirm with PBC and/or the EC which specific Hazardous Materials need to be managed/disposed of.

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CHICAGO PUBLIC SCHOOLS (CPS)**

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05530-PS1651D-002  
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Alexander Graham Bell Elementary School, 3730 North Oakley Avenue

Room ID/Name:	Hallway south of Auditorium Balcony – Second Floor
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**LBP Areas:**

Substrate	Component	Walls				Ceiling	Floor	Response Action	Comments
		N	E	S	W	C	F		
Plaster	Wall		X	X				LBP Mitigation Stabilize Paint, Prepare and Prime as needed for completion for scope of work.	Refer to Contract Documents and architect's drawings, specifications for scope and extent of work. The LPB survey report that includes information about this area can be found in Specification Section 00 10 20. Walls will require mitigation/stabilization if directly impacted by renovation/demolition activities.
Metal	Stair Riser		X					LBP Mitigation Stabilize Paint, Prepare and Prime as needed for completion for scope of work.	Refer to Contract Documents and architect's drawings, specifications for scope and extent of work. The LPB survey report that includes information about this area can be found in Specification Section 00 10 20. Mitigation/stabilization only needed if the planned renovation/demolition activities will directly affect the stairs.
Metal	Stair Handrail		X					LBP Mitigation Stabilize Paint, Prepare and Prime as needed for completion for scope of work.	Refer to Contract Documents and architect's drawings, specifications for scope and extent of work. The LPB survey report that includes information about this area can be found in Specification Section 00 10 20. Mitigation/stabilization only needed if the planned renovation/demolition activities will directly affect the stairs.



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Alexander Graham Bell Elementary School, 3730 North Oakley Avenue

Room ID/Name:	Hallway south of Auditorium Balcony – Second Floor (continued)
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Metal	Stair Stringer		X					LBP Mitigation Stabilize Paint, Prepare and Prime as needed for completion for scope of work.	Refer to Contract Documents and architect's drawings, specifications for scope and extent of work. The LPB survey report that includes information about this area can be found in Specification Section 00 10 20. Mitigation/stabilization only needed if the planned renovation/demolition activities will directly affect the stairs.
Metal	Newel Post		X					LBP Mitigation Stabilize Paint, Prepare and Prime as needed for completion for scope of work.	Refer to Contract Documents and architect's drawings, specifications for scope and extent of work. The LPB survey report that includes information about this area can be found in Specification Section 00 10 20. Mitigation/stabilization only needed if the planned renovation/demolition activities will directly affect the stairs.
Metal	Door		X					LBP Mitigation Stabilize Paint, Prepare and Prime as needed for completion for scope of work.	Refer to Contract Documents and architect's drawings, specifications for scope and extent of work. The LPB survey report that includes information about this area can be found in Specification Section 00 10 20. Mitigation/stabilization only needed if the planned renovation/demolition activities will directly affect the door.
Wood	Baseboard		X					LBP Mitigation Stabilize Paint, Prepare and Prime as needed for completion for scope of work.	Refer to Contract Documents and architect's drawings, specifications for scope and extent of work. The LPB survey report that includes information about this area can be found in Specification Section 00 10 20. Mitigation/stabilization only needed if the planned renovation/demolition activities will directly affect the baseboard.

**ACM Areas:**

Substrate	Component	Walls				Ceiling	Floor	Response Action	Comments
		N	E	S	W	C	F		
None								Not Applicable	

**ENVIRONMENTAL SCOPE SHEETS  
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Alexander Graham Bell Elementary School, 3730 North Oakley Avenue

Room ID/Name:	Hallway south of Auditorium Balcony – Second Floor (continued)
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**Special Waste:**

Substrate	Component	Walls				Ceiling	Floor	Response Action	Comments
		N	E	S	W	C	F		
Mercury Fluorescent Light Bulbs and light ballasts								Removal and Disposal as Special/Universal Waste.	Refer to Contract Documents and architect’s drawings, specifications for scope and extent of work. The Haz Mat survey report that includes information about this area can be found in Specification Section 00 10 20. If planned renovation/demolition activities will impact light bulbs and ballasts, that material should be treated as Haz Mat/Universal Waste and addressed accordingly.

**Note:** If the Abatement Contractor discovers material similar to previously identified ACM or LBP during the course of completing renovation and/or demolition activities and that material will be directly impacted during the course of performing any planned renovation and/or demolition activities, it should be treated/managed as ACM or LBP as appropriate. This includes materials discovered in previously inaccessible areas such as beneath or inside walls, in pipe chases, above the ceiling line, etc.

Only LBP described as being in poor or fair condition typically will need to be mitigated or stabilized unless it is directly affected by planned renovation and/or demolition activities.

CPS/Bell School personnel will be responsible for the management of the mercury-containing light bulbs, light ballasts, and select other Hazardous Materials, identified at Bell School. The Abatement Contractor should confirm with PBC and/or the EC which specific Hazardous Materials need to be managed/disposed of.

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Alexander Graham Bell Elementary School, 3730 North Oakley Avenue

Room ID/Name:	Main Hallway – Second Floor
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**LBP Areas:**

Substrate	Component	Walls				Ceiling	Floor	Response Action	Comments
		N	E	S	W	C	F		
Plaster	Wall	X	X		X	X		LBP Mitigation Stabilize Paint, Prepare and Prime as needed for completion for scope of work.	Refer to Contract Documents and architect's drawings, specifications for scope and extent of work. The LBP survey report that includes information about this area can be found in Specification Section 00 10 20. If planned renovation/ demolition activities will impact plaster walls or ceiling, that material should be treated as LBP and addressed accordingly. If replacement of Emergency lighting battery packs and Exit signs impact plaster ceiling, the material should be treated as LBP and addressed accordingly.

**ACM Areas:**

Substrate	Component	Walls				Ceiling	Floor	Response Action	Comments
		N	E	S	W	C	F		
Preformed Pipe Insulation								ACM Removal and Disposal.	Refer to Contract Documents and architect's drawings, specifications for scope and extent of work. The ACM survey report that includes information about this area can be found in Specification Section 00 10 20. Material at this location is not included in ACM Log, however, it is known to exist between the drop ceiling and plaster ceiling along the length of the hallway. If planned renovation/demolition activities will impact piping, that material should be treated as ACM and addressed accordingly.

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Room ID/Name:	Main Hallway – Second Floor (continued)
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**Special Waste:**

Substrate	Component	Walls				Ceiling	Floor	Response Action	Comments
		N	E	S	W	C	F		
Battery Pack for Emergency Lighting								Removal and Disposal as Special/Universal Waste.	Refer to Contract Documents and architect’s drawings, specifications for scope and extent of work. The Haz Mat survey report that includes information about this area can be found in Specification Section 00 10 20.

**Note:** If the Abatement Contractor discovers material similar to previously identified ACM or LBP during the course of completing renovation and/or demolition activities and that material will be directly impacted during the course of performing any planned renovation and/or demolition activities, it should be treated/managed as ACM or LBP as appropriate. This includes materials discovered in previously inaccessible areas such as beneath or inside walls, in pipe chases, above the ceiling line, etc.

Only LBP described as being in poor or fair condition typically will need to be mitigated or stabilized unless it is directly affected by planned renovation and/or demolition activities.

CPS/Bell School personnel will be responsible for the management of the mercury-containing light bulbs, light ballasts, and select other Hazardous Materials, identified at Bell School. The Abatement Contractor should confirm with PBC and/or the EC which specific Hazardous Materials need to be managed/disposed of.

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Alexander Graham Bell Elementary School, 3730 North Oakley Avenue

Room ID/Name:	Boy's/Southwest Bathroom, including entrance vestibule – Third Floor
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**LBP Areas:**

Substrate	Component	Walls				Ceiling	Floor	Response Action	Comments
		N	E	S	W	C	F		
Plaster	Wall	X	X	X	X	X		LBP Mitigation Stabilize Paint, Prepare and Prime as needed for completion for scope of work.	Refer to Contract Documents and architect's drawings, specifications for scope and extent of work. The LPB survey report that includes information about this room can be found in Specification Section 00 10 20. For the main bathroom, the North wall should only be mitigated/stabilized if directly impacted by the planned renovation/demolition activities.
Metal	Pipe	X						LBP Mitigation Stabilize Paint, Prepare and Prime as needed for completion for scope of work.	Refer to Contract Documents and architect's drawings, specifications for scope and extent of work. The LPB survey report that includes information about this room can be found in Specification Section 00 10 20.

**ACM Areas:**

Substrate	Component	Walls				Ceiling	Floor	Response Action	Comments
		N	E	S	W	C	F		
Mudded Fittings								ACM Removal and Disposal.	Refer to Contract Documents and architect's drawings, specifications for scope and extent of work. The ACM survey report that includes information about this room can be found in Specification Section 00 10 20.
Preformed Pipe Insulation								ACM Removal and Disposal.	Refer to Contract Documents and architect's drawings, specifications for scope and extent of work. The ACM survey report that includes information about this room can be found in Specification Section 00 10 20.

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100% Issue Date:	December 10, 2012
School:	Alexander Graham Bell Elementary School, 3730 North Oakley Avenue

Room ID/Name:	Boy's/Southwest Bathroom, including entrance vestibule – Third Floor (continued)
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**Special Waste:**

Substrate	Component	Walls				Ceiling	Floor	Response Action	Comments
		N	E	S	W	C	F		
Mercury Fluorescent Light Bulbs and light ballasts								Removal and Disposal as Special/Universal Waste.	Refer to Contract Documents and architect's drawings, specifications for scope and extent of work. The Haz Mat survey report that includes information about this area can be found in Specification Section 00 10 20. If planned renovation/demolition activities will impact light bulbs and ballasts, that material should be treated as Haz Mat/Universal Waste and addressed accordingly.

**Note:** If the Abatement Contractor discovers material similar to previously identified ACM or LBP during the course of completing renovation and/or demolition activities and that material will be directly impacted during the course of performing any planned renovation and/or demolition activities, it should be treated/managed as ACM or LBP as appropriate. This includes materials discovered in previously inaccessible areas such as beneath or inside walls, in pipe chases, above the ceiling line, etc.

Only LBP described as being in poor or fair condition typically will need to be mitigated or stabilized unless it is directly affected by planned renovation and/or demolition activities.

CPS/Bell School personnel will be responsible for the management of the mercury-containing light bulbs, light ballasts, and select other Hazardous Materials, identified at Bell School. The Abatement Contractor should confirm with PBC and/or the EC which specific Hazardous Materials need to be managed/disposed of.



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Room ID/Name:	South End of Main Hallway – Third Floor
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**LBP Areas:**

Substrate	Component	Walls				Ceiling	Floor	Response Action	Comments
		N	E	S	W	C	F		
Plaster	Wall			X	X	X		LBP Mitigation Stabilize Paint, Prepare and Prime as needed for completion for scope of work.	Refer to Contract Documents and architect's drawings, specifications for scope and extent of work. The LPB survey report that includes information about this area can be found in Specification Section 00 10 20. Lower portion of south and west walls will require mitigation/stabilization if directly impacted by renovation/demolition activities. If replacement of Emergency lighting battery packs and Exit signs impact plaster ceiling, the material should be treated as LBP and addressed accordingly.
Metal	Stair Handrail			X				LBP Mitigation Stabilize Paint, Prepare and Prime as needed for completion for scope of work.	Refer to Contract Documents and architect's drawings, specifications for scope and extent of work. The LPB survey report that includes information about this area can be found in Specification Section 00 10 20. Mitigation/stabilization only needed if the planned renovation/demolition activities will directly affect the stairs.

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Room ID/Name:	South End of Main Hallway – Third Floor (continued)
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Metal	Stair Stringer			X				LBP Mitigation Stabilize Paint, Prepare and Prime as needed for completion for scope of work.	Refer to Contract Documents and architect's drawings, specifications for scope and extent of work. The LPB survey report that includes information about this area can be found in Specification Section 00 10 20. Mitigation/stabilization only needed if the planned renovation/demolition activities will directly affect the stairs.
Metal	Newel Post			X				LBP Mitigation Stabilize Paint, Prepare and Prime as needed for completion for scope of work.	Refer to Contract Documents and architect's drawings, specifications for scope and extent of work. The LPB survey report that includes information about this area can be found in Specification Section 00 10 20. Mitigation/stabilization only needed if the planned renovation/demolition activities will directly affect the stairs.

**ACM Areas:**

Substrate	Component	Walls				Ceiling	Floor	Response Action	Comments
		N	E	S	W	C	F		
None								Not Applicable	

**ENVIRONMENTAL SCOPE SHEETS  
CHICAGO PUBLIC SCHOOLS (CPS)**

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Room ID/Name:	South End of Main Hallway – Third Floor (continued)
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**Special Waste:**

Substrate	Component	Walls				Ceiling	Floor	Response Action	Comments
		N	E	S	W	C	F		
Battery Pack for Emergency Lighting								Removal and Disposal as Special/Universal Waste.	Refer to Contract Documents and architect’s drawings, specifications for scope and extent of work. The Haz Mat survey report that includes information about this area can be found in Specification Section 00 10 20.

**Note:** If the Abatement Contractor discovers material similar to previously identified ACM or LBP during the course of completing renovation and/or demolition activities and that material will be directly impacted during the course of performing any planned renovation and/or demolition activities, it should be treated/managed as ACM or LBP as appropriate. This includes materials discovered in previously inaccessible areas such as beneath or inside walls, in pipe chases, above the ceiling line, etc.

Only LBP described as being in poor or fair condition typically will need to be mitigated or stabilized unless it is directly affected by planned renovation and/or demolition activities.

CPS/Bell School personnel will be responsible for the management of the mercury-containing light bulbs, light ballasts, and select other Hazardous Materials, identified at Bell School. The Abatement Contractor should confirm with PBC and/or the EC which specific Hazardous Materials need to be managed/disposed of.

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CHICAGO PUBLIC SCHOOLS (CPS)**

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Room ID/Name:	7 <sup>th</sup> /8 <sup>th</sup> Grade Science Classroom (Room 314B) – Third Floor
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**LBP Areas:**

Substrate	Component	Walls				Ceiling	Floor	Response Action	Comments
		N	E	S	W	C	F		
Plaster	Wall	X	X	X	X	X		LBP Mitigation Stabilize Paint, Prepare and Prime as needed for completion for scope of work.	Refer to Contract Documents and architect's drawings, specifications for scope and extent of work. The LPB survey report that includes information about this room can be found in Specification Section 00 10 20. Mitigation/stabilization of the walls is needed to facilitate the planned painting.
Metal	Vent		X					LBP Mitigation Stabilize Paint, Prepare and Prime as needed for completion for scope of work.	Refer to Contract Documents and architect's drawings, specifications for scope and extent of work. The LPB survey report that includes information about this room can be found in Specification Section 00 10 20. Mitigation/stabilization of the vent is only needed if it will directly be impacted by the planned renovation/demolition activities.

**ACM Areas:**

Substrate	Component	Walls				Ceiling	Floor	Response Action	Comments
		N	E	S	W	C	F		
None								Not Applicable.	

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Room ID/Name:	7 <sup>th</sup> /8 <sup>th</sup> Grade Science Classroom (Room 314B) – Third Floor (continued)
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**Special Waste:**

Substrate	Component	Walls				Ceiling	Floor	Response Action	Comments
		N	E	S	W	C	F		
Mercury Fluorescent Light Bulbs and light ballasts								Removal and Disposal as Special/Universal Waste.	Refer to Contract Documents and architect’s drawings, specifications for scope and extent of work. The Haz Mat survey report that includes information about this area can be found in Specification Section 00 10 20. If planned renovation/demolition activities will impact light bulbs and ballasts, that material should be treated as Haz Mat/Universal Waste and addressed accordingly.
Various laboratory chemicals and other products								Removal and Disposal as Special/Universal Waste.	Refer to Contract Documents and architect's drawings, specifications for scope and extent of work. The Haz Mat survey report that includes information about this room can be found in Specification Section 00 10 20. CPS/Bell School to manage household-type products. Abatement contractor to manage the materials in the small metal Corrosives cabinet near the window.

**Note:** If the Abatement Contractor discovers material similar to previously identified ACM or LBP during the course of completing renovation and/or demolition activities and that material will be directly impacted during the course of performing any planned renovation and/or demolition activities, it should be treated/managed as ACM or LBP as appropriate. This includes materials discovered in previously inaccessible areas such as beneath or inside walls, in pipe chases, above the ceiling line, etc.

Only LBP described as being in poor or fair condition typically will need to be mitigated or stabilized unless it is directly affected by planned renovation and/or demolition activities.

CPS/Bell School personnel will be responsible for the management of the mercury-containing light bulbs, light ballasts, and select other Hazardous Materials, identified at Bell School. The Abatement Contractor should confirm with PBC and/or the EC which specific Hazardous Materials need to be managed/disposed of.

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Room ID/Name:	Girl's/Northwest Bathroom, including entrance vestibule – Third Floor
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**LBP Areas:**

Substrate	Component	Walls				Ceiling	Floor	Response Action	Comments
		N	E	S	W	C	F		
Plaster	Wall	X	X	X	X	X		LBP Mitigation Stabilize Paint, Prepare and Prime as needed for completion for scope of work.	Refer to Contract Documents and architect's drawings, specifications for scope and extent of work. The LPB survey report that includes information about this room can be found in Specification Section 00 10 20. The north wall of the vestibule area should only be mitigated/stabilized if directly impacted by the planned renovation/demolition activities. For the main bathroom, the north wall should only be mitigated/stabilized if directly impacted by the planned renovation/demolition activities.
Metal	Vent		X					LBP Mitigation Stabilize Paint, Prepare and Prime as needed for completion for scope of work.	Refer to Contract Documents and architect's drawings, specifications for scope and extent of work. The LPB survey report that includes information about this room can be found in Specification Section 00 10 20.

**ACM Areas:**

Substrate	Component	Walls				Ceiling	Floor	Response Action	Comments
		N	E	S	W	C	F		
Mudded Fittings								ACM Removal and Disposal.	Refer to Contract Documents and architect's drawings, specifications for scope and extent of work. The ACM survey report that includes information about this room can be found in Specification Section 00 10 20
Preformed Pipe Insulation								ACM Removal and Disposal.	Refer to Contract Documents and architect's drawings, specifications for scope and extent of work. The ACM survey report that includes information about this room can be found in Specification Section 00 10 20.

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Room ID/Name:	Girl's/Northwest Bathroom, including entrance vestibule – Third Floor (continued)
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**Special Waste:**

Substrate	Component	Walls				Ceiling	Floor	Response Action	Comments
		N	E	S	W	C	F		
Mercury Fluorescent Light Bulbs and light ballasts								Removal and Disposal as Special/Universal Waste.	Refer to Contract Documents and architect's drawings, specifications for scope and extent of work. The Haz Mat survey report that includes information about this area can be found in Specification Section 00 10 20. If planned renovation/demolition activities will impact light bulbs and ballasts, that material should be treated as Haz Mat/Universal Waste and addressed accordingly.

**Note:** If the Abatement Contractor discovers material similar to previously identified ACM or LBP during the course of completing renovation and/or demolition activities and that material will be directly impacted during the course of performing any planned renovation and/or demolition activities, it should be treated/managed as ACM or LBP as appropriate. This includes materials discovered in previously inaccessible areas such as beneath or inside walls, in pipe chases, above the ceiling line, etc.

Only LBP described as being in poor or fair condition typically will need to be mitigated or stabilized unless it is directly affected by planned renovation and/or demolition activities.

CPS/Bell School personnel will be responsible for the management of the mercury-containing light bulbs, light ballasts, and select other Hazardous Materials, identified at Bell School. The Abatement Contractor should confirm with PBC and/or the EC which specific Hazardous Materials need to be managed/disposed of.



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Room ID/Name:	Main Hallway – Third Floor
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**LBP Areas:**

Substrate	Component	Walls				Ceiling	Floor	Response Action	Comments
		N	E	S	W	C	F		
Plaster	Wall	X	X		X	X		LBP Mitigation Stabilize Paint, Prepare and Prime as needed for completion for scope of work.	Refer to Contract Documents and architect's drawings, specifications for scope and extent of work. The LBP survey report that includes information about this area can be found in Specification Section 00 10 20. If planned renovation/ demolition activities will impact plaster walls or ceiling, that material should be treated as LBP and addressed accordingly. If replacement of Emergency lighting battery packs and Exit signs impact plaster ceiling, the material should be treated as LBP and addressed accordingly.

**ACM Areas:**

Substrate	Component	Walls				Ceiling	Floor	Response Action	Comments
		N	E	S	W	C	F		
Preformed Pipe Insulation								ACM Removal and Disposal.	Refer to Contract Documents and architect's drawings, specifications for scope and extent of work. The ACM survey report that includes information about this area can be found in Specification Section 00 10 20. Material at this location is not included in ACM Log, however, it is known to exist between the drop ceiling and plaster ceiling along the length of the hallway. If planned renovation/demolition activities will impact piping, that material should be treated as ACM and addressed accordingly.

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CHICAGO PUBLIC SCHOOLS (CPS)**

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Room ID/Name:	Main Hallway – Third Floor (continued)
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**Special Waste:**

Substrate	Component	Walls				Ceiling	Floor	Response Action	Comments
		N	E	S	W	C	F		
Battery Pack for Emergency Lighting								Removal and Disposal as Special/Universal Waste.	Refer to Contract Documents and architect’s drawings, specifications for scope and extent of work. The Haz Mat survey report that includes information about this area can be found in Specification Section 00 10 20.

**Note:** If the Abatement Contractor discovers material similar to previously identified ACM or LBP during the course of completing renovation and/or demolition activities and that material will be directly impacted during the course of performing any planned renovation and/or demolition activities, it should be treated/managed as ACM or LBP as appropriate. This includes materials discovered in previously inaccessible areas such as beneath or inside walls, in pipe chases, above the ceiling line, etc.

Only LBP described as being in poor or fair condition typically will need to be mitigated or stabilized unless it is directly affected by planned renovation and/or demolition activities.

CPS/Bell School personnel will be responsible for the management of the mercury-containing light bulbs, light ballasts, and select other Hazardous Materials, identified at Bell School. The Abatement Contractor should confirm with PBC and/or the EC which specific Hazardous Materials need to be managed/disposed of.

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CHICAGO PUBLIC SCHOOLS (CPS)**

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Room ID/Name:	Music Room (Room 309) – Third Floor
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**LBP Areas:**

Substrate	Component	Walls				Ceiling	Floor	Response Action	Comments
		N	E	S	W	C	F		
Plaster	Wall	X	X	X	X	X		LBP Mitigation Stabilize Paint, Prepare and Prime as needed for completion for scope of work.	Refer to Contract Documents and architect's drawings, specifications for scope and extent of work. The LPB survey report that includes information about this room can be found in Specification Section 00 10 20. Mitigation/stabilization of the walls is needed to facilitate the planned painting as part of the planned renovation/demolition activities.
Metal	Vent		X					LBP Mitigation Stabilize Paint, Prepare and Prime as needed for completion for scope of work.	Refer to Contract Documents and architect's drawings, specifications for scope and extent of work. The LPB survey report that includes information about this room can be found in Specification Section 00 10 20. Mitigation/stabilization is only needed if it will directly be impacted by the planned renovation/demolition activities.

**ACM Areas:**

Substrate	Component	Walls				Ceiling	Floor	Response Action	Comments
		N	E	S	W	C	F		
Mastic	9" x 9" vinyl Floor tile						X	ACM Removal and Disposal.	Refer to Contract Documents and architect's drawings, specifications for scope and extent of work. The ACM survey report that includes information about this room can be found in Specification Section 00 10 20. ACM floor tile located near main door and connecting door to Room 307.

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Room ID/Name:	Music Room (Room 309) – Third Floor (continued)
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**Special Waste:**

Substrate	Component	Walls				Ceiling	Floor	Response Action	Comments
		N	E	S	W	C	F		
Mercury Fluorescent Light Bulbs and light ballasts								Removal and Disposal as Special/Universal Waste.	Refer to Contract Documents and architect’s drawings, specifications for scope and extent of work. The Haz Mat survey report that includes information about this area can be found in Specification Section 00 10 20. If planned renovation/demolition activities will impact light bulbs and ballasts, that material should be treated as Haz Mat/Universal Waste and addressed accordingly.

**Note:** If the Abatement Contractor discovers material similar to previously identified ACM or LBP during the course of completing renovation and/or demolition activities and that material will be directly impacted during the course of performing any planned renovation and/or demolition activities, it should be treated/managed as ACM or LBP as appropriate. This includes materials discovered in previously inaccessible areas such as beneath or inside walls, in pipe chases, above the ceiling line, etc.

Only LBP described as being in poor or fair condition typically will need to be mitigated or stabilized unless it is directly affected by planned renovation and/or demolition activities.

CPS/Bell School personnel will be responsible for the management of the mercury-containing light bulbs, light ballasts, and select other Hazardous Materials, identified at Bell School. The Abatement Contractor should confirm with PBC and/or the EC which specific Hazardous Materials need to be managed/disposed of.

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CHICAGO PUBLIC SCHOOLS (CPS)**

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Room ID/Name:	Gymnasium – Third Floor
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**LBP Areas:**

Substrate	Component	Walls				Ceiling	Floor	Response Action	Comments
		N	E	S	W	C	F		
Plaster	Wall	X	X	X	X	X		LBP Mitigation Stabilize Paint, Prepare and Prime as needed for completion for scope of work.	Refer to Contract Documents and architect's drawings, specifications for scope and extent of work. The LPB survey report that includes information about this room can be found in Specification Section 00 10 20. Mitigation/stabilization is only needed if it will directly be impacted by the planned renovation/demolition activities.
Metal	Rims of basketball hoops	X	X	X				LBP Mitigation Stabilize Paint, Prepare and Prime as needed for completion for scope of work.	Refer to Contract Documents and architect's drawings, specifications for scope and extent of work. The LPB survey report that includes information about this room can be found in Specification Section 00 10 20.

**ACM Areas:**

Substrate	Component	Walls				Ceiling	Floor	Response Action	Comments
		N	E	S	W	C	F		
None								Not Applicable.	

**Special Waste:**

Substrate	Component	Walls				Ceiling	Floor	Response Action	Comments
		N	E	S	W	C	F		
High Intensity Multi-Vapor® light bulbs								Removal and Disposal as Special/Universal Waste.	Refer to Contract Documents and architect's drawings, specifications for scope and extent of work. The Haz Mat survey report that includes information about this area can be found in Specification Section 00 10 20. If planned renovation/demolition activities will impact light bulbs and ballasts, that material should be treated as Haz Mat/Universal Waste and addressed accordingly.

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**Note:** If the Abatement Contractor discovers material similar to previously identified ACM or LBP during the course of completing renovation and/or demolition activities and that material will be directly impacted during the course of performing any planned renovation and/or demolition activities, it should be treated/managed as ACM or LBP as appropriate. This includes materials discovered in previously inaccessible areas such as beneath or inside walls, in pipe chases, above the ceiling line, etc.

Only LBP described as being in poor or fair condition typically will need to be mitigated or stabilized unless it is directly affected by planned renovation and/or demolition activities.

CPS/Bell School personnel will be responsible for the management of the mercury-containing light bulbs, light ballasts, and select other Hazardous Materials, identified at Bell School. The Abatement Contractor should confirm with PBC and/or the EC which specific Hazardous Materials need to be managed/disposed of.

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Room ID/Name:	Roof – Third Floor
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**LBP Areas:**

Substrate	Component	Walls				Ceiling	Floor	Response Action	Comments
		N	E	S	W	C	F		
Metal	Downspout		X					LBP Mitigation Stabilize Paint, Prepare and Prime as needed for completion for scope of work.	Refer to Contract Documents and architect's drawings, specifications for scope and extent of work. The LPB survey report that includes information about this room can be found in Specification Section 00 10 20. Mitigation/stabilization only needed if renovation/ demolition activities will directly affect the downspout.

**ACM Areas:**

Substrate	Component	Walls				Ceiling	Floor	Response Action	Comments
		N	E	S	W	C	F		
Roof Flashing								ACM Removal and Disposal	Refer to Contract Documents and architect's drawings, specifications for scope and extent of work. The ACM survey report that includes information about this room can be found in Specification Section 00 10 20. Abatement only needed if the planned renovation/demolition activities will directly affect the flashing.
Roof Caulk								ACM Removal and Disposal	Refer to Contract Documents and architect's drawings, specifications for scope and extent of work. The ACM survey report that includes information about this room can be found in Specification Section 00 10 20. Abatement only needed if the planned renovation/demolition activities will directly affect the caulk.



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Room ID/Name:	Roof – Third Floor (continued)
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Room ID/Name	Component	N	E	S	W	C	F	Response Action	Comments
Roof Flashing Caulk								ACM Removal and Disposal	Refer to Contract Documents and architect's drawings, specifications for scope and extent of work. The ACM survey report that includes information about this room can be found in Specification Section 00 10 20. Abatement only needed if the planned renovation/demolition activities will directly affect the caulk.
Roof Caulk Patch								ACM Removal and Disposal	Refer to Contract Documents and architect's drawings, specifications for scope and extent of work. The ACM survey report that includes information about this room can be found in Specification Section 00 10 20. Abatement only needed if the planned renovation/demolition activities will directly affect the patch.

**Special Waste:**

Substrate	Component	Walls				Ceiling	Floor	Response Action	Comments
		N	E	S	W	C	F		
None								Not Applicable.	

**Note:** If the Abatement Contractor discovers material similar to previously identified ACM or LBP during the course of completing renovation and/or demolition activities and that material will be directly impacted during the course of performing any planned renovation and/or demolition activities, it should be treated/managed as ACM or LBP as appropriate. This includes materials discovered in previously inaccessible areas such as beneath or inside walls, in pipe chases, above the ceiling line, etc.

Only LBP described as being in poor or fair condition typically will need to be mitigated or stabilized unless it is directly affected by planned renovation and/or demolition activities.

CPS/Bell School personnel will be responsible for the management of the mercury-containing light bulbs, light ballasts, and select other Hazardous Materials, identified at Bell School. The Abatement Contractor should confirm with PBC and/or the EC which specific Hazardous Materials need to be managed/disposed of.

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Room ID/Name:	Rooftop
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**LBP Areas:**

Substrate	Component	Walls				Ceiling	Floor	Response Action	Comments
		N	E	S	W	C	F		
None								Not Applicable	

**ACM Areas:**

Substrate	Component	Walls				Ceiling	Floor	Response Action	Comments
		N	E	S	W	C	F		
Roof Flashing								ACM Removal and Disposal	Refer to Contract Documents and architect's drawings, specifications for scope and extent of work. The ACM survey report that includes information about this room can be found in Specification Section 00 10 20. Abatement only needed if the planned renovation/demolition activities will directly affect the flashing.
Roof Caulk								ACM Removal and Disposal	Refer to Contract Documents and architect's drawings, specifications for scope and extent of work. The ACM survey report that includes information about this room can be found in Specification Section 00 10 20. Abatement only needed if the planned renovation/demolition activities will directly affect the caulk.
Roof Flashing Caulk								ACM Removal and Disposal	Refer to Contract Documents and architect's drawings, specifications for scope and extent of work. The ACM survey report that includes information about this room can be found in Specification Section 00 10 20. Abatement only needed if the planned renovation/demolition activities will directly affect the caulk.

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Room ID/Name:	Rooftop (continued)
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Roof Caulk Patch										ACM Removal and Disposal	Refer to Contract Documents and architect's drawings, specifications for scope and extent of work. The ACM survey report that includes information about this room can be found in Specification Section 00 10 20. Abatement only needed if the planned renovation/demolition activities will directly affect the patch.
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**Special Waste:**

Substrate	Component	Walls				Ceiling	Floor	Response Action	Comments
		N	E	S	W	C	F		
None								Not Applicable	

**Note:** If the Abatement Contractor discovers material similar to previously identified ACM or LBP during the course of completing renovation and/or demolition activities and that material will be directly impacted during the course of performing any planned renovation and/or demolition activities, it should be treated/managed as ACM or LBP as appropriate. This includes materials discovered in previously inaccessible areas such as beneath or inside walls, in pipe chases, above the ceiling line, etc.

Only LBP described as being in poor or fair condition typically will need to be mitigated or stabilized unless it is directly affected by planned renovation and/or demolition activities.

CPS/Bell School personnel will be responsible for the management of the mercury-containing light bulbs, light ballasts, and select other Hazardous Materials, identified at Bell School. The Abatement Contractor should confirm with PBC and/or the EC which specific Hazardous Materials need to be managed/disposed of.

**END OF ENVIRONMENTAL SCOPE SHEETS FOR ALEXANDER GRAHAM BELL ELEMENTARY.**

## SECTION 02 82 15

### ASBESTOS ABATEMENT - EXTERIORS

#### PART 1 - GENERAL

##### 1.1 INTRODUCTION

- A. Exterior building spaces are not covered by Illinois Department of Public Health (IDPH) rules, except for covered hallways or porticos connecting buildings and outdoor mechanical systems which condition indoor air (such as air handling units, air conditioners, cooling towers, etc.), or when interior building spaces are involved.
- B. Roofing, window replacement, exterior transite sheeting, galbestos siding, asbestos-containing paint, caulking, glazing, flashings, cements, or other products installed on the building exterior are subject to Occupational Safety and Health Administration (OSHA) and National Emission Standards for Hazardous Air Pollutants (NESHAP) rules which, in many cases are less rigorous than IDPH requirements. All exterior asbestos abatement activities shall be conducted from the exterior of the building. At no time shall any work activity be staged from the interior of the building. Abatement of roofing materials requires supervision by a competent person that can be employed by the roofing contractor (refer to definition of competent person below). Abatement of these items is specified in this Section. Related paragraphs in the Interior Abatement Section may be referenced or included where relevant.

##### 1.2 DEFINITIONS

- A. In addition to the terms listed below, all definitions in the laws and regulations specified elsewhere in this Section are incorporated by reference, whether or not restated herein.
- B. Abatement Contractor (AC) means the entity responsible for performing the work in this Section and has the training and accreditation to competently perform the work. This entity shall obtain and maintain licenses required for the indoor work in this Section.
- C. Architect of Record (AOR) means the entity that assembles the overall documents and bid package, and approves the work.
- D. Asbestos Abatement Supervisor, hereinafter referred to as Supervisor means any person who supervises asbestos abatement workers. This person must be trained, accredited, and meet OSHA competent person criteria for asbestos abatement.
- E. Board Authorized Representative means the entity responsible for overall project coordination and completion.
- F. Chicago Public Schools (CPS) means the Owner of the property and the authority ordering the work specified herein.
- G. Competent person means one who is capable of identifying existing asbestos hazards in the workplace and selecting the appropriate control strategy for asbestos exposure, who has the authority to take prompt corrective measures to eliminate them, as specified in 29 CFR 1926.32(f): in addition, for roofing materials (considered Class II work) who is specially trained

in a training course which meets the criteria of EPA's Model Accreditation Plan (40 CFR 763) for supervisor, or its equivalent.

- H. Environmental Project Manager (EPM) is the project manager selected by the PBC to perform environmental monitoring and act on behalf of the PBC for CPS or its agents on the project.
- I. General Contractor (GC) means the entity responsible for performing the complete scope of work in the Documents. The GC may elect to self-perform or subcontract out any portion of the work.
- J. HEPA Filter means a High Efficiency Particulate Air filter capable of trapping 99.97% percent of particles greater than 0.3 micrometers in mass median aerodynamic equivalent diameter.
- K. IDPH means the Illinois Department of Public Health.
- L. Environmental Consultant (EC) means the entity with overall responsibility for the environmental aspects of the project, including design, organization, direction, and control as well as investigations, assessments and on-site supervision of project managers.
- M. MSDS means Material Safety Data Sheet, required by OSHA for any chemical in the workplace that that could be expected to cause an exposure to workers during normal use or in emergency situations.
- N. Plasticize means to apply plastic sheeting over surfaces or objects to protect them from contamination or water damage.
- O. PBC means Public Building Commission.
- P. PPE (Personal Protection Equipment) means the protective suits, head and foot covers, gloves, respirators and other items used to protect persons from asbestos or other hazards.
- Q. RCRA means the Resource Conservation and Recovery Act and associated regulations.
- R. TCLP means the Toxicity Characteristic Leaching Procedure as specified in EPA 530/SW-846, Test Methods for Evaluating Solid Waste: Physical/Chemical Methods 3rd edition, November 1986.
- S. Work Area means the area or areas where asbestos abatement is being conducted.

### 1.3 SCOPE OF WORK

- A. In accordance with the Asbestos Containing Material Survey Report included as Appendix ENV 1 of these Project Specifications, the following materials must be abated as asbestos-containing material (ACM) in accordance with all applicable federal, state and local regulations and rules if they are impacted during the course of completing renovation and/or demolition activities related to the Bell School Addition and Renovation project:
  - Roof Flashing;
  - Roof Flashing caulk;

- Roof caulk;
- Roof caulk.

Material locations and quantities should be verified by the contractor. The information provided in the ACM Survey Report included in Specification Section 00 10 20 of these Project Specifications is included for information only. Additionally, based on the use of homogeneous sampling areas (HSAs) during the ACM survey, encountered materials similar to those identified as ACM through sampling and analysis should also be considered to be ACM if encountered during renovation and/or demolition activities.

- B. More specific details regarding room by room abatement are presented in the Scope Sheets included as Appendix A of this Section.
- C. Any suspect ACM that is encountered by the AC that is not mentioned Specification Section 00 10 20 should be assessed, sampled as needed, and abated as ACM if appropriate.
- D. Interior ACM will be presented in Section 02 82 14.

#### 1.4 WORK INCLUDED

- A. The work includes all labor, equipment, materials, and supplies necessary to perform the scope of work in the Documents by the procedures described herein. The abatement contractor, by submitting a bid for the work, represents itself as knowledgeable and expert in the performance of the work, and includes all things necessary to provide a complete and finished job, whether specifically mentioned or not. Related work may be shown in other related documents, prepared by others, if applicable, and as listed below.
  - 1. Division 01 Section "Summary of Work."
  - 2. Division 01 Section "Submittals."
  - 3. Division 01 Section "Project Record Documents."
  - 4. Division 02 Section "Asbestos Abatement - Interior."
  - 5. Division 02 Section "Lead-Based Paint Mitigation/Abatement."
  - 6. Division 02 Section "Hazardous and Universal Waste Management."
  - 7. Division 07 Section "Roofing Removal."
- B. Removal of friable and non-friable asbestos-containing materials listed in the Documents, including isolating the work areas, protection of adjacent areas, cleanup, proper packaging and disposal of wastes, and all other steps necessary to complete the scope of work.
- C. Repair or replacement of damaged surfaces, fixtures, or furnishings to restore them to like new condition to the satisfaction of the Architect or Board Authorized Representative or EC.
- D. When the Documents include lead and asbestos abatement items in the same spaces, typically windows, painted-over transite sheeting, and flashings, the work should be performed in the sequence and combinations that produce the most efficient results, minimize concentrated lead waste volume, and produce the least amount of total waste. That sequence will generally be:
  - 1. Cleanup and removal of lead dust, flakes, chips, peeling paint, and residues most likely to fail a TCLP test.

2. Removal of asbestos materials and cleanup of visible residues.
  3. Removal of lead-bearing architectural components.
  4. Removal of non-friable asbestos items. If both asbestos and lead are on the same components, for example lead paint and asbestos-containing glazing compound, the components may be removed and disposed with both the lead and asbestos-bearing items intact.
  5. Final cleanup and decontamination of the work space. Final air clearance (asbestos) and wipe samples (lead) may be performed concurrently.
  6. When lead and asbestos final decontamination processes are combined, the more stringent cleanup procedures shall apply for both.
  7. Waste disposal.
    - a. Classified waste: loose paint flakes, chips, and dust; lead-specific cleaning supplies; contaminated soil; combined final decontamination supplies; disposable suits, gloves, headcovers, and footcovers; other items that fail a TCLP test.
    - b. Special waste: friable asbestos-containing waste materials and lead-contaminated waste that has passed TCLP or other RCRA tests.
    - c. Construction and demolition (C&D) debris: non-friable asbestos-containing waste materials (such as, but not limited to intact transite, mastics, packing, caulking); lead-bearing architectural components; demolition debris, and other general wastes.
    - d. All asbestos-containing or lead-bearing wastes, regardless of classification, shall be disposed in an IEPA-approved landfill within the State of Illinois to accept asbestos-containing or lead-bearing waste materials.
- E. Compliance with all applicable laws, regulations, standards, and these specifications. In the case of a conflict, the contractor shall comply with the most stringent.
- F. All licenses, accreditations, permits, fees, notifications, reports, or other documents required by law, regulation, this specification, or the Documents.
- G. Provide project closeout documentation to the Environmental Project Manager (EPM) within thirty (30) days after final clearance. This documentation shall include, but is not limited to, submittals specified elsewhere in this Section.

#### 1.5 LAWS, REGULATIONS AND STANDARDS

- A. The following laws, regulations, and standards are incorporated by reference:
1. 29 CFR 1910 - US OSHA General Industry Standards
  2. 29 CFR 1926 - US OSHA Construction Standards
  3. 29 CFR 1926.1101 - US OSHA Asbestos Construction Standards
  4. 40 CFR Part 61 - US EPA National Emissions Standards for Hazardous Air Pollutants (NESHAP), 11/90 revision
  5. 40 CFR Part 763 Subpart E - US EPA Asbestos Model Accreditation Plan (MAP): Appendix C Interim Final Rule



## 1.6 ASSESSMENT, MONITORING, TESTING AND ANALYSIS

- A. The EC will perform inspection, testing and design services prior to the start of work, and during the project, if necessary. The EC will also perform testing, inspection, and monitoring services during the work and upon its completion:
1. Prior to the start of the work, the EC shall
    - a. Identify suspect materials and confirm their asbestos content through review of the school's documentation or by testing;
    - b. Design the project and address any design changes as requested. Approved changes shall be submitted to the IDPH, when necessary.
  2. During the work, the EC shall:
    - a. Observe the work periodically, with sufficient frequency to ensure contractor compliance.
    - b. Collect area air samples in and around the work area, as needed, to verify exposure conditions.
    - c. Stop the work if airborne asbestos concentrations at the work area perimeter exceed 0.01 f/cc. Contractor shall be responsible for taking corrective action to reduce exposure levels and prevent recurrence; cleaning adjacent areas that become contaminated by the asbestos abatement activities.
    - d. Make copies of contractor licenses from the originals.
    - e. Complete design changes that are needed.
  3. Upon completion of the work, the EC shall:
    - a. Visually inspect for visible dust and debris, and verify the full completion of the work.
    - b. Require contractor to re-clean the area or portions of areas until no visible debris remains.
    - c. Perform clearance air sampling at the completion of the work activities, when necessary.
- B. The abatement contractor shall provide OSHA compliance air monitoring to determine exposures to its employees in accordance with OSHA 29 CFR 1926.1101. Frequency of monitoring shall comply with OSHA requirements for the anticipated and actual exposure levels.
1. A written Exposure Assessment with air sampling and analysis conducted 6 months or less prior to the start of the work to determine the requirements for respiratory protection and frequency of OSHA monitoring for each type of activity. The contractor should note that a Negative Exposure Assessment (NEA) may be possible for these tasks.
  2. Analysis may be performed on site.
- C. Credentials required for testing and analysis of PCM air samples:
1. Air sampling shall be conducted by an IDPH licensed Air Sampling Professional.
  2. Accreditation by AIHA or AAR; or
  3. Participation in the Proficiency Analytical Testing (PAT) program.

1.7 SUBMITTALS BY THE CONTRACTOR (SUBMITTED TO AOR AND EC):

- A. The following shall be submitted to the EC no less than 10 days prior to the start of the asbestos abatement work activities.
- B. Ten (10) day NESHAP notification to the Illinois EPA and the Chicago Department of Public Health when the asbestos quantities reach or exceed 260 linear feet or 160 square feet. Two (2) day IDPH notification with a copy to Chicago Department of Public Health for asbestos abatement quantities less than 260 linear feet or 160 square feet.
  - 1. Ten (10) day IEPA Asbestos Notification on revised form, including inspector license number and landfill permit number.
  - 2. Evidence that all abatement contractor employees in the work areas are trained and accredited in accordance with OSHA, IDPH, NESHAP, and EPA requirements:
    - a. Current Annual refresher training certificate.
    - b. Current IDPH asbestos license
    - c. Current physician's written opinion
    - d. Current respirator fit test for negative pressure respirators when respirators are used.
  - 3. Copy of OSHA Exposure Assessment, with air sampling and analysis conducted 6 months or less prior to the start date of the abatement project.
  - 4. OSHA compliance air monitoring records generated during the project.
  - 5. Waste Shipment Records.
  - 6. Worker license and certification log.
  - 7. Material Safety Data Sheets (MSDS) for chemicals used on site.
  - 8. Work Plan and Schedule.
- C. Prior to beginning work, the AC shall submit required notifications to applicable regulatory agencies and receive an Owners Authorization and Notice to Occupants from Chicago Public Schools for buildings where asbestos abatement will take place. The AC shall provide copies of all regulatory notices to the CPS Environmental Services Manager and the EPM within 24 hours of sending such notices to the regulatory authority. The AC shall not begin a project until such notices are provided to the PBC, CPS and the EPM.

**PART 2 - PRODUCTS**

2.1 TOOLS AND EQUIPMENT

- A. All equipment shall at least conform to minimum industry standards:
- B. Equipment:
  - 1. Respirators shall be NIOSH approved for use with lead, asbestos, or other contaminants anticipated in the work.
  - 2. Contractor is fully responsible for complying with OSHA rules for other Safety equipment, such as hard hats, safety harnesses, eye protection, gloves, footwear, and any other safety devices used on the site.

C. Tools:

1. Ladders, scaffolding and all other rigging devices shall be constructed in a safe manor meeting all regulatory and permitting requirements.
2. Power tools such as, but not limited to saws, pneumatic chisels, brushes, sanders, and needle guns shall be equipped with shrouds and HEPA-filtered local exhaust systems to capture released particles. Power tools shall also be grounded using a ground fault Circuit Interrupter (GFI) breaker or outlet.

2.2 MATERIALS

A. Installed materials which become a part of the work such as, but not limited to, encapsulants foam sealants and permanent enclosures shall be of good quality, non-lead-bearing, free of asbestos, and conform to the respective reinstallation specification sections.

1. Contractor shall ensure that encapsulants and sealants used as primers, basecoats, fillers or covering existing materials are compatible with the respective existing or reinstallation materials and their manufacturers' warranties.

B. Abatement materials

1. Poly sheeting for all applications shall be 6 mil nominal thickness.
2. Tape shall be 2 inch or 3 inch duct tape or other waterproof tape suitable for joining poly seams and attaching poly sheeting to surfaces.
3. Spray adhesives shall be non-flammable and free of methylene chloride solvents.
4. Disposal bags shall be 6 mil.
5. Disposable suits, hoods, and foot coverings shall be Tyvek or similar.
6. Solvents shall be compatible with any primers, mastics, adhesives, paints, coatings, or other surfacing materials to be installed following their use.

**PART 3 - EXECUTION**

3.1 EMPLOYEE TRAINING, QUALIFICATION AND MEDICAL SCREENING

A. Supervisors and Workers shall be trained, accredited, and licensed in accordance with IDPH rules and regulations:

1. Contractor shall keep copies of licenses, initial training course certificate, and most recent annual refresher training certificate at the jobsite at all times for all contractor personnel.
2. A Supervisor (competent person) shall be present at the work site at all times when work under this Section is being conducted.

B. Medical Screening. All contractor personnel shall have a current medical examination in accordance with OSHA requirements. Copies of the Physician's Written Opinions shall be kept on site along with a current fit test certificate.

3.2 PERMISSIBLE EXPOSURE LIMITS

A. The OSHA permissible exposure limit (PEL) for worker exposure to airborne fibers is 0.1 f/cc as an 8-hour time-weighted average (TWA).

- B. The OSHA short term excursion limit (STEL) for worker exposure to airborne fibers is 1.0 f/cc for a 30 minute sample.

### 3.3 EXPOSURE ASSESSMENT AND MONITORING

- A. The abatement contractor shall make an assessment of the airborne exposures. Assessment shall conform to OSHA requirements and may be based upon:
  - 1. Initial monitoring of representative workers who the contractor believes are exposed to the greatest airborne concentrations of asbestos, or
  - 2. Past monitoring (within the past 12 months) or objective data for conditions closely resembling the processes, type of material, control methods, work practices and environmental conditions to be used for this Documents, or
  - 3. In the absence of an exposure assessment the contractor shall perform the work in full negative pressure containment with Type C pressure-demand respirator with auxiliary SCBA escape bottle.
- B. The contractor shall perform personal monitoring in accordance with the following requirements:
  - 1. Initially, to establish an exposure assessment when past monitoring or objective data are not available for an initial determination.
  - 2. Daily, if the exposures are, or are expected to be, above the PEL of 0.1 f/cc.
  - 3. Periodically if the exposures are, or are expected to be, below the PEL.
  - 4. Whenever there has been a change of equipment, process, control, personnel, or a new task has been initiated that may affect employee exposures, the exposure assessment shall be updated, and monitoring shall be reinstated if exposures are unknown or are expected to exceed the PEL.
  - 5. Area Monitoring is required at the perimeter of the work area to verify that exposures to adjacent areas are below the PEL.

### 3.4 RESPIRATORY PROTECTION

- A. Respiratory protection shall be worn by all persons potentially exposed to airborne asbestos fibers from the start of the abatement project until air monitoring analysis results prove otherwise.

### 3.5 HYGIENE PRACTICES

- A. Eating, drinking, smoking, chewing gum or tobacco, and applying of cosmetics are not allowed in the work area.
- B. All persons entering the work area shall wear appropriate PPE.
- C. When the use of a Personnel Decontamination Enclosure System is deemed necessary by the EC, the abatement contractor shall follow all entry and exit procedures posted in the Personnel Decontamination Enclosure System.
- D. Personal Protection Equipment (PPE) shall include:
  - 1. Full body disposable suits, headgear, and footwear.

2. Gloves.
  3. Hard hats.
  4. Non-disposable footwear and clothing shall remain in the work area and shall be disposed of as contaminated waste when the job is completed.
  5. Authorized visitors shall be provided with suitable PPE when required in the work area.
  6. PPE is required when exposures are, or are expected to be above the PEL.
- E. A Personnel Decontamination (decon) Facility is required when worker exposures are expected to be above the PEL. The Decontamination unit may be remotely located if not feasible to locate adjacent to the work area.
1. Establish a negative pressure of at least 0.02 inch wc between the dirty equipment room and adjacent spaces, including the clean room. Assume Negative Air Machines (NAM) operate at 80% design capacity.
  2. Provide at least 4 air changes per hour within the decon unit
  3. All personnel shall use a double-suiting procedure for traveling between work areas and decon. Persons shall HEPA-vacuum the exterior of their disposable suits at the entry to the work area, put on a clean suit over the existing suit, and proceed to the decon unit for shower decontamination and change into street clothes.
- F. To exit, persons shall HEPA-vacuum down clothing at the work area entry, and leave the work area. When disposable suits are used, they shall be HEPA-vacuumed, stripped off, and deposited in an asbestos disposal bag. Personnel may then leave the work area.

### 3.6 PROHIBITED ACTIVITIES

- A. Dry removal or dry sweeping, except:
1. During freezing weather. In this case, temperature and weather conditions must be recorded at the start, during, and at the end of the shift.
  2. On roofs with 3:1 slope or greater. In this case, roofing shall be removed in an intact condition, as much as possible.
  3. When equipment damage or other hazard exists. In this case, written permission from IEPA is required prior to performing dry removal.
- B. Use of compressed air for cleaning.
- C. Use of high speed power tools not equipped with a HEPA-filtered local exhaust system.
- D. Eating, drinking, smoking, chewing gum, or applying cosmetics in the work area.
- E. Removing respirators or other PPE in the work area.

### 3.7 WORK AREA ISOLATION AND PREPARATION

- A. General Preparation
1. Post caution signs meeting the specifications of OSHA 29 CFR 1926.1101 (k)(6) at any location and approaches to a location where airborne concentrations of asbestos may exceed ambient background levels.
  2. Secure the work area from entry by unauthorized persons.

B. Exterior Preparation

1. 6 mil plastic sheeting shall be placed over the ground, foundation, or other surfaces below the abatement area.
2. Unauthorized entry shall be prevented by using appropriate barriers, such as warning tape, fencing, or other suitable barriers.
3. Nearby air intakes, grilles, windows, and other openings into the building interior above, below, or beside the work area that could be exposed to released airborne dust shall be closed or otherwise sealed off with poly and tape.
4. All electric power in the work area shall be protected with Ground-Fault Circuit Interrupters.

3.8 ABATEMENT PROCEDURES

A. General Removal Requirements:

1. Asbestos materials shall be wetted and kept wet during removal.
2. ACM shall be bagged or containerized as it is removed. Wastes shall not be dropped or thrown to the ground. Unless the material is carried or passed to the ground by hand, it shall be lowered via covered, dust-tight chute, crane, hoist, or other means that prevent the wastes from being dropped or thrown.
3. Appropriate OSHA protection shall be provided when working from exterior access:
  - a. Scaffolding shall be equipped with handrails and midrails designed to provide fall protection, or full-body safety harnesses shall be worn and tied off to a secure anchor point.
  - b. Workers in manlifts shall wear full body harnesses and tie to the tie-off point provided on the manlift basket whenever the basket is elevated from ground level.
  - c. The contractor shall ensure that scaffolding, manlifts and the workers erecting and using the equipment meet all federal, state and local regulations and requirements including the acquisition of all required permits for the erection and use of such equipment.

B. Window Replacements: Asbestos-containing materials are most likely to be found in exterior caulking and glazing putty. Windows may be removed under this Section if ACM is handled from the building exterior. If ACM materials must be accessed from inside the building or ACM wastes must be transported through the building interior, then IDPH-regulated requirements shall apply at no additional cost to the Owner. Refer to Division 02 Section "Asbestos Abatement - Interiors." For exterior work:

1. Close windows and seal from the inside by covering with 6 mil poly and tape, or by applying tape directly to window joints and seams.
2. Any ACM not required to be disturbed for window removal should be left in place (e.g. window pane glazing).
3. ACM that must be disturbed (e.g. caulking at the edge of the window frame) must be removed completely, including three-dimensional residues.
4. Collect debris and deposit in asbestos waste bags as the work proceeds. Do not allow wastes to accumulate on surfaces.
5. Abate ACM and LBP on all window components to remain in place.

C. Roofing

1. General: Remove ACM roof mastics, cements, underlayments, and flashings in an intact state to the extent feasible. Asbestos-containing shingles may occasionally break even when removed carefully. The fact that otherwise intact roofing materials become separated or broken does not by itself render them non-intact. However, if they become pulverized, reduced to powder or dust, they have become non-intact.
  - a. The contractor shall take care to minimize the amount of roofing material damage, or;
  - b. If the materials are rendered non-intact, the contractor shall employ methods to contain the dust and debris and utilize hygiene practices appropriate for friable (OSHA Class I) ACM, including PPE, decontamination units, and monitoring. Monitoring may include area samples at the work area perimeter to determine that airborne asbestos fibers are not being released in concentrations above the PEL.
2. Built-up roofing and asphalt shingles:
  - a. Power cutting machines shall be equipped with a HEPA-filtered dust collection system and shall be misted during use.
  - b. Dust generated by the cutting operation shall be collected with HEPA vacuums or wet cleaning methods.
3. Rigid roofing materials, such as cement asbestos shingles: remove intact and minimize breakage.

D. Transite, Galbestos sheeting (galvanized metal with a baked-on asbestos paint), Asbestos/Cement pipe, or other rigid panels shall be removed using wet methods.

E. Other

1. Non-LBP paint and other coatings, electric cable insulation or joint coverings, and other miscellaneous materials that are to be removed with the substrate or that can be removed without becoming friable may be removed as intact (OSHA Class II, EPA NESHAP Category I or II non-friable) in accordance with procedures described in General Removal Requirements and Roofing paragraphs above.
2. Non-LBP paint, coatings, and other miscellaneous materials that must be removed from the substrate or that otherwise will become friable must be removed as non-intact (OSHA Class I, EPA NESHAP friable) in accordance with procedures described in General Removal Requirements and Roofing paragraphs above.

3.9 CLEANING AND DECONTAMINATION

- A. All visible accumulations of ACM, debris, tools, and unnecessary equipment shall be removed from the work area.
- B. Protective poly shall be folded in on itself, rolled up, placed in asbestos disposal bags, and disposed as asbestos waste.
- C. Surfaces which have been exposed to friable ACM or its dust shall be HEPA vacuumed



- D. Dry sweeping of surfaces which have been exposed to friable ACM or its dust is not permitted.

### 3.10 FINAL CLEARANCE

- A. Cleaning may be discontinued when there is no visible debris and area air monitoring verifies that exposures are below the PEL. If any area air monitoring analysis results demonstrate results are at or above the PEL, the abatement contractor is responsible for repeating the cleaning as necessary until tests are satisfactory. All expenses associated with the collection and analysis of additional air monitoring tests are the responsibility of the abatement contractor.

### 3.11 WASTE DISPOSAL AND EQUIPMENT LOAD-OUT

- A. Roofing waste may be loaded in bulk into lined enclosed receptacles, such as dumpsters or trailers. Receptacles shall be closeable and lockable to provide security and to prevent air emissions.
- B. Packaged asbestos wastes:
  - 1. Asbestos-containing wastes, including removed ACM and debris, poly, critical barrier materials, suits, respirator filters, vacuum HEPA filters, water filters, and other asbestos-containing items shall be properly packaged for disposal.
  - 2. Use 6 mil plastic bags with gooseneck seal, or other impermeable containers.
  - 3. Wrap large or irregular items in 6 mil poly sheeting and seal with tape.
  - 4. Sharp, jagged, or other items that may puncture poly shall be packaged in rigid impermeable containers such as drums or boxes, or wrapped in burlap or other protective covering before sealing in bags or poly sheeting.
  - 5. Label containers for friable ACM waste:
    - a. OSHA warning label.
    - b. DOT performance-oriented hazardous material label.
    - c. Name and address of generator and abatement location.
- C. Removing items from the work area:
  - 1. Packaged asbestos wastes shall be HEPA-vacuumed before removing from the work area.
- D. Storage of packaged asbestos wastes shall be in a completely enclosed dumpster, or other suitable container that can be secured. The secured area shall be kept locked at all times to prevent unauthorized access.
- E. Shipment of items from the project.
  - 1. Decontaminated tools and equipment may be shipped by normal carrier to warehouse, another jobsite, or other destination.
  - 2. For asbestos wastes:
    - a. Line enclosed shipping container with 6 mil poly prior to loading packaged friable asbestos wastes.
    - b. Post NESHAP placards during loading of friable asbestos wastes.
    - c. Execute the NESHAP-required Waste Shipment Record (WSR) to be signed by the generator, transporter, and landfill. All WSRs shall be returned to the EC within 30 days of shipment.

- d. ACM waste shall be transported from the work site directly to the landfill.
- F. Disposal of packaged asbestos wastes.
  - 1. Only landfills approved and permitted by Illinois for accepting asbestos wastes may be used for disposal.
- G. A punch list walk-through shall be conducted for each cleared work area within two working days of clearance testing by the EC, contractor, school engineer, property advisor, principal, and AOR. All punch list items shall be completed within five working days of walk through.

ATTACHMENT: Appendix A – Environmental Scope Sheets

**END OF SECTION**

**APPENDIX TO 02 82 15**

**ENVIRONMENTAL SCOPE SHEETS**

**ENVIRONMENTAL SCOPE SHEETS  
CHICAGO PUBLIC SCHOOLS (CPS)**

Managing Environmental  
Consultant/Project No.:  
100% Issue Date:  
School:

Environmental Design International inc.  
05530-PS1651D-002  
December 10, 2012  
Alexander Graham Bell Elementary School, 3730 North Oakley Avenue

Room ID/Name:	Boy's/Southwest Bathroom, including entrance vestibule – First Floor
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**LBP Areas:**

Substrate	Component	Walls				Ceiling	Floor	Response Action	Comments
		N	E	S	W	C	F		
Plaster	Wall	X	X	X	X	X		LBP Mitigation Stabilize Paint, Prepare and Prime as needed for completion for scope of work.	Refer to Contract Documents and architect's drawings, specifications for scope and extent of work. The LBP survey report that includes information about this room can be found in Specification Section 00 10 20. Bathroom is targeted for complete renovation, therefore, all material should be treated as LBP and addressed accordingly.

**ACM Areas:**

Substrate	Component	Walls				Ceiling	Floor	Response Action	Comments
		N	E	S	W	C	F		
Mudded Fittings								ACM Removal and Disposal	Refer to Contract Documents and architect's drawings, specifications for scope and extent of work. The ACM survey report that includes information about this room can be found in Specification Section 00 10 20.
Preformed Pipe Insulation								ACM Removal and Disposal	Refer to Contract Documents and architect's drawings, specifications for scope and extent of work. The ACM survey report that includes information about this room can be found in Specification Section 00 10 20.

**ENVIRONMENTAL SCOPE SHEETS  
CHICAGO PUBLIC SCHOOLS (CPS)**

Managing Environmental Consultant/Project No.:	Environmental Design International inc. 05530-PS1651D-002
100% Issue Date:	December 10, 2012
School:	Alexander Graham Bell Elementary School, 3730 North Oakley Avenue

Room ID/Name:	Boy's/Southwest Bathroom, including entrance vestibule – First Floor (continued)
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**Special Waste:**

Substrate	Component	Walls				Ceiling	Floor	Response Action	Comments
		N	E	S	W	C	F		
Mercury Fluorescent Light Bulbs and light ballasts								Removal and Disposal as Special/Universal Waste.	Refer to Contract Documents and architect's drawings, specifications for scope and extent of work. The Haz Mat survey report that includes information about this area can be found in Specification Section 00 10 20. If planned renovation/demolition activities will impact light bulbs and ballasts, that material should be treated as Haz Mat/Universal Waste and addressed accordingly.

**Note:** If the Abatement Contractor discovers material similar to previously identified ACM or LBP during the course of completing renovation and/or demolition activities and that material will be directly impacted during the course of performing any planned renovation and/or demolition activities, it should be treated/managed as ACM or LBP as appropriate. This includes materials discovered in previously inaccessible areas such as beneath or inside walls, in pipe chases, above the ceiling line, etc.

Only LBP described as being in poor or fair condition typically will need to be mitigated or stabilized unless it is directly affected by planned renovation and/or demolition activities.

CPS/Bell School personnel will be responsible for the management of the mercury-containing light bulbs, light ballasts, and select other Hazardous Materials, identified at Bell School. The Abatement Contractor should confirm with PBC and/or the EC which specific Hazardous Materials need to be managed/disposed of.

**ENVIRONMENTAL SCOPE SHEETS  
CHICAGO PUBLIC SCHOOLS (CPS)**

Managing Environmental  
Consultant/Project No.:  
100% Issue Date:  
School:

Environmental Design International inc.  
05530-PS1651D-002  
December 10, 2012  
Alexander Graham Bell Elementary School, 3730 North Oakley Avenue

Room ID/Name:	South End of Main Hallway – First Floor
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**LBP Areas:**

Substrate	Component	Walls				Ceiling	Floor	Response Action	Comments
		N	E	S	W	C	F		
Plaster	Wall			X	X	X		LBP Mitigation Stabilize Paint, Prepare and Prime as needed for completion for scope of work.	Refer to Contract Documents and architect's drawings, specifications for scope and extent of work. The LBP survey report that includes information about this area can be found in Specification Section 00 10 20. Lower portion of south wall and middle and upper portions of West wall require mitigation/stabilization if impacted by the planned renovation/demolition activities. If work related to replacement of above ceiling water lines will impact plaster ceiling, the ceiling material should be treated as LBP and addressed accordingly. If replacement of Emergency lighting battery packs and Exit signs impact plaster ceiling, the material should be treated as LBP and addressed accordingly.
Metal	Stair Handrail			X				LBP Mitigation Stabilize Paint, Prepare and Prime as needed for completion for scope of work.	Refer to Contract Documents and architect's drawings, specifications for scope and extent of work. The LBP survey report that includes information about this area can be found in Specification Section 00 10 20. Mitigation/stabilization is only necessary if the stairs are directly impacted by the planned renovation/demolition activities.
Metal	Stair Stringer			X				LBP Mitigation Stabilize Paint, Prepare and Prime as needed for completion for scope of work.	Refer to Contract Documents and architect's drawings, specifications for scope and extent of work. The LBP survey report that includes information about this area can be found in Specification Section 00 10 20. Mitigation/stabilization is only necessary if the stairs are directly impacted by the planned renovation/demolition activities.

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CHICAGO PUBLIC SCHOOLS (CPS)**

Managing Environmental  
Consultant/Project No.:  
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Environmental Design International inc.  
05530-PS1651D-002  
December 10, 2012  
Alexander Graham Bell Elementary School, 3730 North Oakley Avenue

Room ID/Name:	South End of Main Hallway – First Floor (continued)
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**ACM Areas:**

Substrate	Component	Walls				Ceiling	Floor	Response Action	Comments
		N	E	S	W	C	F		
Preformed Pipe Insulation								ACM Removal and Disposal	Refer to Contract Documents and architect's drawings, specifications for scope and extent of work. The ACM survey report that includes information about this area can be found in Specification Section 00 10 20. Material at this location is not included in the ACM Log, however, it is known to exist between the drop ceiling and plaster ceiling along the length of the hallway. If it will be impacted by the planned renovation/demolition activities, it must be managed accordingly as ACM.

**Special Waste:**

Substrate	Component	Walls				Ceiling	Floor	Response Action	Comments
		N	E	S	W	C	F		
Battery Pack for Emergency Lighting								Removal and Disposal as Special/Universal Waste.	Refer to Contract Documents and architect's drawings, specifications for scope and extent of work. The Haz Mat survey report that includes information about this area can be found in Specification Section 00 10 20.

**Note:** If the Abatement Contractor discovers material similar to previously identified ACM or LBP during the course of completing renovation and/or demolition activities and that material will be directly impacted during the course of performing any planned renovation and/or demolition activities, it should be treated/managed as ACM or LBP as appropriate. This includes materials discovered in previously inaccessible areas such as beneath or inside walls, in pipe chases, above the ceiling line, etc.

Only LBP described as being in poor or fair condition typically will need to be mitigated or stabilized unless it is directly affected by planned renovation and/or demolition activities.

CPS/Bell School personnel will be responsible for the management of the mercury-containing light bulbs, light ballasts, and select other Hazardous Materials, identified at Bell School. The Abatement Contractor should confirm with PBC and/or the EC which specific Hazardous Materials need to be managed/disposed of.



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CHICAGO PUBLIC SCHOOLS (CPS)**

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Alexander Graham Bell Elementary School, 3730 North Oakley Avenue

Room ID/Name:	MDF Room – First Floor
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**LBP Areas:**

Substrate	Component	Walls				Ceiling	Floor	Response Action	Comments
		N	E	S	W	C	F		
Plaster	Wall	X	X	X	X			LBP Mitigation Stabilize Paint, Prepare and Prime as needed for completion for scope of work.	Refer to Contract Documents and architect's drawings, specifications for scope and extent of work. The LBP survey report that includes information about this room can be found in Specification Section 00 10 20. Upper portion of south wall should be mitigated/stabilized if directly impacted by the planned renovation/demolition activities.

**ACM Areas:**

Substrate	Component	Walls				Ceiling	Floor	Response Action	Comments
		N	E	S	W	C	F		
None								Not Applicable	

**Special Waste:**

Substrate	Component	Walls				Ceiling	Floor	Response Action	Comments
		N	E	S	W	C	F		
Mercury Fluorescent Light Bulbs and light ballasts								Removal and Disposal as Special/Universal Waste.	Refer to Contract Documents and architect's drawings, specifications for scope and extent of work. The Haz Mat survey report that includes information about this area can be found in Specification Section 00 10 20. If planned renovation/demolition activities will impact light bulbs and ballasts, that material should be treated as Haz Mat/Universal Waste and addressed accordingly.

**Note:** If the Abatement Contractor discovers material similar to previously identified ACM or LBP during the course of completing renovation and/or demolition activities and that material will be directly impacted during the course of performing any planned renovation and/or demolition activities, it should be treated/managed as ACM or LBP as appropriate. This includes materials discovered in previously inaccessible areas such as beneath or inside walls, in pipe chases, above the ceiling line, etc.

Only LBP described as being in poor or fair condition typically will need to be mitigated or stabilized unless it is directly affected by planned renovation and/or demolition activities.

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CPS/Bell School personnel will be responsible for the management of the mercury-containing light bulbs, light ballasts, and select other Hazardous Materials, identified at Bell School. The Abatement Contractor should confirm with PBC and/or the EC which specific Hazardous Materials need to be managed/disposed of.

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Room ID/Name:	Room 118 – First Floor
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**LBP Areas:**

Substrate	Component	Walls				Ceiling	Floor	Response Action	Comments
		N	E	S	W	C	F		
Plaster	Wall					X		LBP Mitigation Stabilize Paint, Prepare and Prime as needed for completion for scope of work.	Refer to Contract Documents and architect's drawings, specifications for scope and extent of work. The LBP survey report that includes information about this room can be found in Specification Section 00 10 20. If work related to replacement of above ceiling water lines will impact plaster ceiling, that material should be treated as LBP and addressed accordingly.

**ACM Areas:**

Substrate	Component	Walls				Ceiling	Floor	Response Action	Comments
		N	E	S	W	C	F		
Preformed Pipe Insulation								ACM Removal and Disposal	Refer to Contract Documents and architect's drawings, specifications for scope and extent of work. The ACM survey report that includes information about this room can be found in Specification Section 00 10 20. Material at this location is not included in ACM Log, however, it is known to exist between the drop ceiling and plaster ceiling. If it will be impacted by renovation/ demolition activities, it must be managed accordingly as ACM.

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Alexander Graham Bell Elementary School, 3730 North Oakley Avenue

Room ID/Name:	Room 118 – First Floor (continued)
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**Special Waste:**

Substrate	Component	Walls				Ceiling	Floor	Response Action	Comments
		N	E	S	W	C	F		
Mercury Fluorescent Light Bulbs and light ballasts								Removal and Disposal as Special/Universal Waste.	Refer to Contract Documents and architect’s drawings, specifications for scope and extent of work. The Haz Mat survey report that includes information about this area can be found in Specification Section 00 10 20. If planned renovation/demolition activities will impact light bulbs and ballasts, that material should be treated as Haz Mat/Universal Waste and addressed accordingly.

**Note:** If the Abatement Contractor discovers material similar to previously identified ACM or LBP during the course of completing renovation and/or demolition activities and that material will be directly impacted during the course of performing any planned renovation and/or demolition activities, it should be treated/managed as ACM or LBP as appropriate. This includes materials discovered in previously inaccessible areas such as beneath or inside walls, in pipe chases, above the ceiling line, etc.

Only LBP described as being in poor or fair condition typically will need to be mitigated or stabilized unless it is directly affected by planned renovation and/or demolition activities.

CPS/Bell School personnel will be responsible for the management of the mercury-containing light bulbs, light ballasts, and select other Hazardous Materials, identified at Bell School. The Abatement Contractor should confirm with PBC and/or the EC which specific Hazardous Materials need to be managed/disposed of.

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December 10, 2012  
Alexander Graham Bell Elementary School, 3730 North Oakley Avenue

Room ID/Name:	Lunchroom, including Kitchen, north and south storage rooms – First Floor
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**LBP Areas:**

Substrate	Component	Walls				Ceiling	Floor	Response Action	Comments
		N	E	S	W	C	F		
Plaster	Wall		X		X	X		LBP Mitigation Stabilize Paint, Prepare and Prime as needed for completion for scope of work.	Refer to Contract Documents and architect's drawings, specifications for scope and extent of work. The LBP survey report that includes information about this room can be found in Specification Section 00 10 20. Upper portion of east and west walls, soffit on east wall and ceilings should only be mitigated/stabilized if directly impacted by the planned renovation/demolition activities. Kitchen is at north end of space and is being converted into the library. If work related to replacement of above ceiling water lines will impact plaster ceiling, the ceiling material should be treated as LBP and addressed accordingly.

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Room ID/Name:	Lunchroom, including Kitchen, north and south storage rooms – First Floor (continued)
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**ACM Areas:**

Substrate	Component	Walls				Ceiling	Floor	Response Action	Comments
		N	E	S	W	C	F		
Mastic	Vinyl Floor Tile						X	ACM Removal and Disposal	Refer to Contract Documents and architect's drawings, specifications for scope and extent of work. The ACM survey report that includes information about this room can be found in Specification Section 00 10 20. Remove all floor tile (12" x 12" and 9" x 9") and mastic throughout the space.
Preformed Pipe Insulation								ACM Removal and Disposal.	Refer to Contract Documents and architect's drawings, specifications for scope and extent of work. The ACM survey report that includes information about this room can be found in Specification Section 00 10 20. Material at this location is not included in ACM Log, however, it is known to exist between the drop ceiling and plaster ceiling. If it will be impacted by renovation/demolition activities, it must be managed accordingly as ACM.

**Special Waste:**

Substrate	Component	Walls				Ceiling	Floor	Response Action	Comments
		N	E	S	W	C	F		
Mercury Fluorescent Light Bulbs and light ballasts								Removal and Disposal as Special/Universal Waste.	Refer to Contract Documents and architect's drawings, specifications for scope and extent of work. The Haz Mat survey report that includes information about this area can be found in Specification Section 00 10 20. If planned renovation/demolition activities will impact light bulbs and ballasts, that material should be treated as Haz Mat/Universal Waste and addressed accordingly.

**Note:** If the Abatement Contractor discovers material similar to previously identified ACM or LBP during the course of completing renovation and/or demolition activities and that material will be directly impacted during the course of performing

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any planned renovation and/or demolition activities, it should be treated/managed as ACM or LBP as appropriate. This includes materials discovered in previously inaccessible areas such as beneath or inside walls, in pipe chases, above the ceiling line, etc.

Only LBP described as being in poor or fair condition typically will need to be mitigated or stabilized unless it is directly affected by planned renovation and/or demolition activities.

CPS/Bell School personnel will be responsible for the management of the mercury-containing light bulbs, light ballasts, and select other Hazardous Materials, identified at Bell School. The Abatement Contractor should confirm with PBC and/or the EC which specific Hazardous Materials need to be managed/disposed of.



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Room ID/Name:	Hallway north of Lunchroom/kitchen/Hallway south of Warm Air and Engine and Blower Rooms – First Floor
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**LBP Areas:**

Substrate	Component	Walls				Ceiling	Floor	Response Action	Comments
		N	E	S	W	C	F		
Plaster	Ceiling					X		LBP Mitigation Stabilize Paint, Prepare and Prime as needed for completion for scope of work.	Refer to Contract Documents and architect's drawings, specifications for scope and extent of work. The LPB survey report that includes information about this room can be found in Specification Section 00 10 20. If planned renovation/ demolition activities will impact plaster ceiling, the ceiling material should be treated as LBP and addressed accordingly.

**ACM Areas:**

Substrate	Component	Walls				Ceiling	Floor	Response Action	Comments
		N	E	S	W	C	F		
None								Not Applicable	

**Special Waste:**

Substrate	Component	Walls				Ceiling	Floor	Response Action	Comments
		N	E	S	W	C	F		
None								Not Applicable.	

**Note:** If the Abatement Contractor discovers material similar to previously identified ACM or LBP during the course of completing renovation and/or demolition activities and that material will be directly impacted during the course of performing any planned renovation and/or demolition activities, it should be treated/managed as ACM or LBP as appropriate. This includes materials discovered in previously inaccessible areas such as beneath or inside walls, in pipe chases, above the ceiling line, etc.

Only LBP described as being in poor or fair condition typically will need to be mitigated or stabilized unless it is directly affected by planned renovation and/or demolition activities.

CPS/Bell School personnel will be responsible for the management of the mercury-containing light bulbs, light ballasts, and select other Hazardous Materials, identified at Bell School. The Abatement Contractor should confirm with PBC and/or the EC which specific Hazardous Materials need to be managed/disposed of.

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Alexander Graham Bell Elementary School, 3730 North Oakley Avenue

Room ID/Name:	Tank Room and west adjacent Storage Room (south of Boiler Room) – First Floor
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**LBP Areas:**

Substrate	Component	Walls				Ceiling	Floor	Response Action	Comments
		N	E	S	W	C	F		
Plaster	Ceiling					X		LBP Mitigation Stabilize Paint, Prepare and Prime as needed for completion for scope of work.	Refer to Contract Documents and architect's drawings, specifications for scope and extent of work. The LPB survey report that includes information about this room can be found in Specification Section 00 10 20. If planned renovation/ demolition activities will impact plaster ceiling, the ceiling material should be treated as LBP and addressed accordingly.

**ACM Areas:**

Substrate	Component	Walls				Ceiling	Floor	Response Action	Comments
		N	E	S	W	C	F		
None								Not Applicable	

**Special Waste:**

Substrate	Component	Walls				Ceiling	Floor	Response Action	Comments
		N	E	S	W	C	F		
None								Not Applicable	

**Note:** If the Abatement Contractor discovers material similar to previously identified ACM or LBP during the course of completing renovation and/or demolition activities and that material will be directly impacted during the course of performing any planned renovation and/or demolition activities, it should be treated/managed as ACM or LBP as appropriate. This includes materials discovered in previously inaccessible areas such as beneath or inside walls, in pipe chases, above the ceiling line, etc.

Only LBP described as being in poor or fair condition typically will need to be mitigated or stabilized unless it is directly affected by planned renovation and/or demolition activities.

CPS/Bell School personnel will be responsible for the management of the mercury-containing light bulbs, light ballasts, and select other Hazardous Materials, identified at Bell School. The Abatement Contractor should confirm with PBC and/or the EC which specific Hazardous Materials need to be managed/disposed of.

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Room ID/Name:	Boiler Room – First Floor
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**LBP Areas:**

Substrate	Component	Walls				Ceiling	Floor	Response Action	Comments
		N	E	S	W	C	F		
Brick, wood, metal, concrete	Miscellaneous							LBP Mitigation Stabilize Paint, Prepare and Prime as needed for completion for scope of work.	Refer to Contract Documents and architect's drawings, specifications for scope and extent of work. The LBP survey report that includes information about this room can be found in Specification Section 00 10 20. No mitigation/stabilization needed for bathroom or pantry unless affected by the planned renovation/demolition activities. If the planned renovation/demolition activities will impact any identified surfaces including the ceiling, that material should be treated as LBP and addressed accordingly.

**ACM Areas:**

Substrate	Component	Walls				Ceiling	Floor	Response Action	Comments
		N	E	S	W	C	F		
None								Not Applicable	

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Room ID/Name:	Boiler Room – First Floor (continued)
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**Special Waste:**

Substrate	Component	Walls				Ceiling	Floor	Response Action	Comments
		N	E	S	W	C	F		
Mercury Fluorescent Light Bulbs and light ballasts								Removal and Disposal as Special/Universal Waste.	Refer to Contract Documents and architect’s drawings, specifications for scope and extent of work. The Haz Mat survey report that includes information about this area can be found in Specification Section 00 10 20. Only light bulbs and ballasts impacted by renovation/demolition activities need to be managed. The school’s building engineer maintains a supply of new bulbs and replacement ballasts in the Boiler Room. These should be relocated prior to the start of renovation or demolition activities.

**Note:** If the Abatement Contractor discovers material similar to previously identified ACM or LBP during the course of completing renovation and/or demolition activities and that material will be directly impacted during the course of performing any planned renovation and/or demolition activities, it should be treated/managed as ACM or LBP as appropriate. This includes materials discovered in previously inaccessible areas such as beneath or inside walls, in pipe chases, above the ceiling line, etc.

Only LBP described as being in poor or fair condition typically will need to be mitigated or stabilized unless it is directly affected by planned renovation and/or demolition activities.

CPS/Bell School personnel will be responsible for the management of the mercury-containing light bulbs, light ballasts, and select other Hazardous Materials, identified at Bell School. The Abatement Contractor should confirm with PBC and/or the EC which specific Hazardous Materials need to be managed/disposed of.

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Room ID/Name:	Library (Room 106) – First Floor
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**LBP Areas:**

Substrate	Component	Walls				Ceiling	Floor	Response Action	Comments
		N	E	S	W	C	F		
Plaster	Wall	X	X	X	X			LBP Mitigation Stabilize Paint, Prepare and Prime as needed for completion for scope of work.	Refer to Contract Documents and architect's drawings, specifications for scope and extent of work. The LPB survey report that includes information about this room can be found in Specification Section 00 10 20. Upper and lower portions of all walls should be mitigated/stabilized if directly impacted by the planned renovation/demolition activities.
Wood	Ceiling					X		LBP Mitigation Stabilize Paint, Prepare and Prime as needed for completion for scope of work.	Refer to Contract Documents and architect's drawings, specifications for scope and extent of work. The LPB survey report that includes information about this room can be found in Specification Section 00 10 20. Mitigation/stabilization is only necessary if the ceiling will be directly impacted by the planned renovation/demolition activities.

**ACM Areas:**

Substrate	Component	Walls				Ceiling	Floor	Response Action	Comments
		N	E	S	W	C	F		
None								Not Applicable	

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Room ID/Name:	Library (Room 106) – First Floor (continued)
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**Special Waste:**

Substrate	Component	Walls				Ceiling	Floor	Response Action	Comments
		N	E	S	W	C	F		
Mercury Fluorescent Light Bulbs and light ballasts								Removal and Disposal as Special/Universal Waste.	Refer to Contract Documents and architect’s drawings, specifications for scope and extent of work. The Haz Mat survey report that includes information about this area can be found in Specification Section 00 10 20. If planned renovation/demolition activities will impact light bulbs and ballasts, that material should be treated as Haz Mat/Universal Waste and addressed accordingly.

**Note:** If the Abatement Contractor discovers material similar to previously identified ACM or LBP during the course of completing renovation and/or demolition activities and that material will be directly impacted during the course of performing any planned renovation and/or demolition activities, it should be treated/managed as ACM or LBP as appropriate. This includes materials discovered in previously inaccessible areas such as beneath or inside walls, in pipe chases, above the ceiling line, etc.

Only LBP described as being in poor or fair condition typically will need to be mitigated or stabilized unless it is directly affected by planned renovation and/or demolition activities.

CPS/Bell School personnel will be responsible for the management of the mercury-containing light bulbs, light ballasts, and select other Hazardous Materials, identified at Bell School. The Abatement Contractor should confirm with PBC and/or the EC which specific Hazardous Materials need to be managed/disposed of.

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Room ID/Name:	Girl's/Northwest Bathroom, including entrance vestibule – First Floor
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**LBP Areas:**

Substrate	Component	Walls				Ceiling	Floor	Response Action	Comments
		N	E	S	W	C	F		
Plaster	Wall	X	X	X	X	X		LBP Mitigation Stabilize Paint, Prepare and Prime as needed for completion for scope of work.	Refer to Contract Documents and architect's drawings, specifications for scope and extent of work. The LBP survey report that includes information about this room can be found in Specification Section 00 10 20. Bathroom is targeted for complete renovation, therefore, all material should be treated as LBP and addressed accordingly.

**ACM Areas:**

Substrate	Component	Walls				Ceiling	Floor	Response Action	Comments
		N	E	S	W	C	F		
Mudded Fittings								ACM Removal and Disposal.	Refer to Contract Documents and architect's drawings, specifications for scope and extent of work. The ACM survey report that includes information about this room can be found in Specification Section 00 10 20.
Preformed Pipe Insulation								ACM Removal and Disposal.	Refer to Contract Documents and architect's drawings, specifications for scope and extent of work. The ACM survey report that includes information about this room can be found in Specification Section 00 10 20.



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100% Issue Date:	December 10, 2012
School:	Alexander Graham Bell Elementary School, 3730 North Oakley Avenue

Room ID/Name:	Girl's/Northwest Bathroom, including entrance vestibule – First Floor (continued)
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**Special Waste:**

Substrate	Component	Walls				Ceiling	Floor	Response Action	Comments
		N	E	S	W	C	F		
Mercury Fluorescent Light Bulbs and light ballasts								Removal and Disposal as Special/Universal Waste.	Refer to Contract Documents and architect's drawings, specifications for scope and extent of work. The Haz Mat survey report that includes information about this area can be found in Specification Section 00 10 20. If planned renovation/demolition activities will impact light bulbs and ballasts, that material should be treated as Haz Mat/Universal Waste and addressed accordingly.

**Note:** If the Abatement Contractor discovers material similar to previously identified ACM or LBP during the course of completing renovation and/or demolition activities and that material will be directly impacted during the course of performing any planned renovation and/or demolition activities, it should be treated/managed as ACM or LBP as appropriate. This includes materials discovered in previously inaccessible areas such as beneath or inside walls, in pipe chases, above the ceiling line, etc.

Only LBP described as being in poor or fair condition typically will need to be mitigated or stabilized unless it is directly affected by planned renovation and/or demolition activities.

CPS/Bell School personnel will be responsible for the management of the mercury-containing light bulbs, light ballasts, and select other Hazardous Materials, identified at Bell School. The Abatement Contractor should confirm with PBC and/or the EC which specific Hazardous Materials need to be managed/disposed of.

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Room ID/Name:	Office (Room 100) – First Floor
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**LBP Areas:**

Substrate	Component	Walls				Ceiling	Floor	Response Action	Comments
		N	E	S	W	C	F		
Plaster	Wall		X	X	X	X		LBP Mitigation Stabilize Paint, Prepare and Prime as needed for completion for scope of work.	Refer to Contract Documents and architect's drawings, specifications for scope and extent of work. The LBP survey report that includes information about this room can be found in Specification Section 00 10 20. North wall should be only be mitigated/stabilized if directly impacted by the planned renovation/demolition activities.

**ACM Areas:**

Substrate	Component	Walls				Ceiling	Floor	Response Action	Comments
		N	E	S	W	C	F		
None								Not Applicable	

**Special Waste:**

Substrate	Component	Walls				Ceiling	Floor	Response Action	Comments
		N	E	S	W	C	F		
Mercury Fluorescent Light Bulbs and light ballasts								Removal and Disposal as Special/Universal Waste.	Refer to Contract Documents and architect's drawings, specifications for scope and extent of work. The Haz Mat survey report that includes information about this area can be found in Specification Section 00 10 20. If planned renovation/demolition activities will impact light bulbs and ballasts, that material should be treated as Haz Mat/Universal Waste and addressed accordingly.

**Note:** If the Abatement Contractor discovers material similar to previously identified ACM or LBP during the course of completing renovation and/or demolition activities and that material will be directly impacted during the course of performing any planned renovation and/or demolition activities, it should be treated/managed as ACM or LBP as appropriate. This includes materials discovered in previously inaccessible areas such as beneath or inside walls, in pipe chases, above the ceiling line, etc.

Only LBP described as being in poor or fair condition typically will need to be mitigated or stabilized unless it is directly affected by planned renovation and/or demolition activities.

**ENVIRONMENTAL SCOPE SHEETS  
CHICAGO PUBLIC SCHOOLS (CPS)**

Managing Environmental Consultant/Project No.:	Environmental Design International inc.
100% Issue Date:	05530-PS1651D-002
School:	December 10, 2012
	Alexander Graham Bell Elementary School, 3730 North Oakley Avenue

CPS/Bell School personnel will be responsible for the management of the mercury-containing light bulbs, light ballasts, and select other Hazardous Materials, identified at Bell School. The Abatement Contractor should confirm with PBC and/or the EC which specific Hazardous Materials need to be managed/disposed of.

**ENVIRONMENTAL SCOPE SHEETS  
CHICAGO PUBLIC SCHOOLS (CPS)**

Managing Environmental  
Consultant/Project No.:  
100% Issue Date:  
School:

Environmental Design International inc.  
05530-PS1651D-002  
December 10, 2012  
Alexander Graham Bell Elementary School, 3730 North Oakley Avenue

Room ID/Name:	Vestibule B/Hallway north of Auditorium – First Floor
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**LBP Areas:**

Substrate	Component	Walls				Ceiling	Floor	Response Action	Comments
		N	E	S	W	C	F		
Plaster	Wall	X	X	X	X			LBP Mitigation Stabilize Paint, Prepare and Prime as needed for completion for scope of work.	Refer to Contract Documents and architect's drawings, specifications for scope and extent of work. The LBP survey report that includes information about this area can be found in Specification Section 00 10 20. If planned renovation/demolition activities will impact plaster walls, that material should be treated as LBP and addressed accordingly.

**ACM Areas:**

Substrate	Component	Walls				Ceiling	Floor	Response Action	Comments
		N	E	S	W	C	F		
None								Not Applicable	

**Special Waste:**

Substrate	Component	Walls				Ceiling	Floor	Response Action	Comments
		N	E	S	W	C	F		
Mercury Fluorescent Light Bulbs and light ballasts								Removal and Disposal as Special/Universal Waste.	Refer to Contract Documents and architect's drawings, specifications for scope and extent of work. The Haz Mat survey report that includes information about this area can be found in Specification Section 00 10 20. If planned renovation/demolition activities will impact light bulbs and ballasts, that material should be treated as Haz Mat/Universal Waste and addressed accordingly.

**Note:** If the Abatement Contractor discovers material similar to previously identified ACM or LBP during the course of completing renovation and/or demolition activities and that material will be directly impacted during the course of performing any planned renovation and/or demolition activities, it should be treated/managed as ACM or LBP as appropriate. This includes materials discovered in previously inaccessible areas such as beneath or inside walls, in pipe chases, above the ceiling line, etc.

**ENVIRONMENTAL SCOPE SHEETS  
CHICAGO PUBLIC SCHOOLS (CPS)**

Managing Environmental Consultant/Project No.: Environmental Design International inc.  
100% Issue Date: 05530-PS1651D-002  
December 10, 2012  
School: Alexander Graham Bell Elementary School, 3730 North Oakley Avenue

Only LBP described as being in poor or fair condition typically will need to be mitigated or stabilized unless it is directly affected by planned renovation and/or demolition activities.

CPS/Bell School personnel will be responsible for the management of the mercury-containing light bulbs, light ballasts, and select other Hazardous Materials, identified at Bell School. The Abatement Contractor should confirm with PBC and/or the EC which specific Hazardous Materials need to be managed/disposed of.

**ENVIRONMENTAL SCOPE SHEETS  
CHICAGO PUBLIC SCHOOLS (CPS)**

Managing Environmental  
Consultant/Project No.:  
100% Issue Date:  
School:

Environmental Design International inc.  
05530-PS1651D-002  
December 10, 2012  
Alexander Graham Bell Elementary School, 3730 North Oakley Avenue

Room ID/Name:	Auditorium – First Floor
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**LBP Areas:**

Substrate	Component	Walls				Ceiling	Floor	Response Action	Comments
		N	E	S	W	C	F		
Plaster	Ceiling					X			Refer to Contract Documents and architect's drawings, specifications for scope and extent of work. The LBP survey report that includes information about this room can be found in Specification Section 00 10 20. Mitigation/stabilization of plaster ceiling is only needed if planned renovation/demolition activities will impact plaster ceiling. If impacted, the ceiling material should be treated as LBP and addressed accordingly.

**ACM Areas:**

Substrate	Component	Walls				Ceiling	Floor	Response Action	Comments
		N	E	S	W	C	F		
None								Not Applicable	

**Special Waste:**

Substrate	Component	Walls				Ceiling	Floor	Response Action	Comments
		N	E	S	W	C	F		
Mercury Fluorescent Light Bulbs and light ballasts								Removal and Disposal as Special/Universal Waste.	Refer to Contract Documents and architect's drawings, specifications for scope and extent of work. The Haz Mat survey report that includes information about this area can be found in Specification Section 00 10 20. If planned renovation/demolition activities will impact light bulbs and ballasts, that material should be treated as Haz Mat/Universal Waste and addressed accordingly.

**Note:** If the Abatement Contractor discovers material similar to previously identified ACM or LBP during the course of completing renovation and/or demolition activities and that material will be directly impacted during the course of performing any planned renovation and/or demolition activities, it should be treated/managed as ACM or LBP as appropriate. This includes materials discovered in previously inaccessible areas such as beneath or inside walls, in pipe chases, above the ceiling line, etc.

**ENVIRONMENTAL SCOPE SHEETS  
CHICAGO PUBLIC SCHOOLS (CPS)**

Managing Environmental Consultant/Project No.: Environmental Design International inc.  
100% Issue Date: 05530-PS1651D-002  
December 10, 2012  
School: Alexander Graham Bell Elementary School, 3730 North Oakley Avenue

Only LBP described as being in poor or fair condition typically will need to be mitigated or stabilized unless it is directly affected by planned renovation and/or demolition activities.

CPS/Bell School personnel will be responsible for the management of the mercury-containing light bulbs, light ballasts, and select other Hazardous Materials, identified at Bell School. The Abatement Contractor should confirm with PBC and/or the EC which specific Hazardous Materials need to be managed/disposed of.



**ENVIRONMENTAL SCOPE SHEETS  
CHICAGO PUBLIC SCHOOLS (CPS)**

Managing Environmental  
Consultant/Project No.:  
100% Issue Date:  
School:

Environmental Design International inc.  
05530-PS1651D-002  
December 10, 2012  
Alexander Graham Bell Elementary School, 3730 North Oakley Avenue

Room ID/Name:	Main Hallway – First Floor
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**LBP Areas:**

Substrate	Component	Walls				Ceiling	Floor	Response Action	Comments
		N	E	S	W	C	F		
Plaster	Wall	X	X		X	X		LBP Mitigation Stabilize Paint, Prepare and Prime as needed for completion for scope of work.	Refer to Contract Documents and architect's drawings, specifications for scope and extent of work. The LBP survey report that includes information about this area can be found in Specification Section 00 10 20. If planned renovation/ demolition activities will impact plaster walls or ceiling, that material should be treated as LBP and addressed accordingly. If replacement of Emergency lighting battery packs and Exit signs impact plaster ceiling, the material should be treated as LBP and addressed accordingly.

**ACM Areas:**

Substrate	Component	Walls				Ceiling	Floor	Response Action	Comments
		N	E	S	W	C	F		
Preformed Pipe Insulation								ACM Removal and Disposal.	Refer to Contract Documents and architect's drawings, specifications for scope and extent of work. The ACM survey report that includes information about this area can be found in Specification Section 00 10 20. Material at this location is not included in ACM Log, however, it is known to exist between the drop ceiling and plaster ceiling along the length of the hallway. If planned renovation/demolition activities will impact piping, that material should be treated as ACM and addressed accordingly.

**ENVIRONMENTAL SCOPE SHEETS  
CHICAGO PUBLIC SCHOOLS (CPS)**

Managing Environmental Consultant/Project No.: Environmental Design International inc.  
 05530-PS1651D-002  
 100% Issue Date: December 10, 2012  
 School: Alexander Graham Bell Elementary School, 3730 North Oakley Avenue

Room ID/Name:	Main Hallway – First Floor (continued)
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**Special Waste:**

Substrate	Component	Walls				Ceiling	Floor	Response Action	Comments
		N	E	S	W	C	F		
Battery Pack for Emergency Lighting								Removal and Disposal as Special/Universal Waste.	Refer to Contract Documents and architect’s drawings, specifications for scope and extent of work. The Haz Mat survey report that includes information about this area can be found in Specification Section 00 10 20.

**Note:** If the Abatement Contractor discovers material similar to previously identified ACM or LBP during the course of completing renovation and/or demolition activities and that material will be directly impacted during the course of performing any planned renovation and/or demolition activities, it should be treated/managed as ACM or LBP as appropriate. This includes materials discovered in previously inaccessible areas such as beneath or inside walls, in pipe chases, above the ceiling line, etc.

Only LBP described as being in poor or fair condition typically will need to be mitigated or stabilized unless it is directly affected by planned renovation and/or demolition activities.

CPS/Bell School personnel will be responsible for the management of the mercury-containing light bulbs, light ballasts, and select other Hazardous Materials, identified at Bell School. The Abatement Contractor should confirm with PBC and/or the EC which specific Hazardous Materials need to be managed/disposed of.

**ENVIRONMENTAL SCOPE SHEETS  
CHICAGO PUBLIC SCHOOLS (CPS)**

Managing Environmental  
Consultant/Project No.:  
100% Issue Date:  
School:

Environmental Design International inc.  
05530-PS1651D-002  
December 10, 2012  
Alexander Graham Bell Elementary School, 3730 North Oakley Avenue

Room ID/Name:	Boy's/Southwest Bathroom, including entrance vestibule – Second Floor
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**LBP Areas:**

Substrate	Component	Walls				Ceiling	Floor	Response Action	Comments
		N	E	S	W	C	F		
Plaster	Wall	X	X	X	X	X		LBP Mitigation Stabilize Paint, Prepare and Prime as needed for completion for scope of work.	Refer to Contract Documents and architect's drawings, specifications for scope and extent of work. The LBP survey report that includes information about this room can be found in Specification Section 00 10 20. Bathroom is targeted for complete renovation, therefore, all material should be treated as LBP and addressed accordingly.

**ACM Areas:**

Substrate	Component	Walls				Ceiling	Floor	Response Action	Comments
		N	E	S	W	C	F		
Mudded Fittings								ACM Removal and Disposal	Refer to Contract Documents and architect's drawings, specifications for scope and extent of work. The ACM survey report that includes information about this room can be found in Specification Section 00 10 20.
Preformed Pipe Insulation								ACM Removal and Disposal	Refer to Contract Documents and architect's drawings, specifications for scope and extent of work. The ACM survey report that includes information about this room can be found in Specification Section 00 10 20.

**ENVIRONMENTAL SCOPE SHEETS  
CHICAGO PUBLIC SCHOOLS (CPS)**

Managing Environmental Consultant/Project No.: Environmental Design International inc.  
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 100% Issue Date: December 10, 2012  
 School: Alexander Graham Bell Elementary School, 3730 North Oakley Avenue

Room ID/Name:	Boy's/Southwest Bathroom, including entrance vestibule – Second Floor (continued)
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**Special Waste:**

Substrate	Component	Walls				Ceiling	Floor	Response Action	Comments
		N	E	S	W	C	F		
Mercury Fluorescent Light Bulbs and light ballasts								Removal and Disposal as Special/Universal Waste.	Refer to Contract Documents and architect's drawings, specifications for scope and extent of work. The Haz Mat survey report that includes information about this area can be found in Specification Section 00 10 20. If planned renovation/demolition activities will impact light bulbs and ballasts, that material should be treated as Haz Mat/Universal Waste and addressed accordingly.

**Note:** If the Abatement Contractor discovers material similar to previously identified ACM or LBP during the course of completing renovation and/or demolition activities and that material will be directly impacted during the course of performing any planned renovation and/or demolition activities, it should be treated/managed as ACM or LBP as appropriate. This includes materials discovered in previously inaccessible areas such as beneath or inside walls, in pipe chases, above the ceiling line, etc.

Only LBP described as being in poor or fair condition typically will need to be mitigated or stabilized unless it is directly affected by planned renovation and/or demolition activities.

CPS/Bell School personnel will be responsible for the management of the mercury-containing light bulbs, light ballasts, and select other Hazardous Materials, identified at Bell School. The Abatement Contractor should confirm with PBC and/or the EC which specific Hazardous Materials need to be managed/disposed of.

**ENVIRONMENTAL SCOPE SHEETS  
CHICAGO PUBLIC SCHOOLS (CPS)**

Managing Environmental  
Consultant/Project No.:  
100% Issue Date:  
School:

Environmental Design International inc.  
05530-PS1651D-002  
December 10, 2012  
Alexander Graham Bell Elementary School, 3730 North Oakley Avenue

Room ID/Name:	South End of Main Hallway – Second Floor
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**LBP Areas:**

Substrate	Component	Walls				Ceiling	Floor	Response Action	Comments
		N	E	S	W	C	F		
Plaster	Wall			X	X			LBP Mitigation Stabilize Paint, Prepare and Prime as needed for completion for scope of work.	Refer to Contract Documents and architect's drawings, specifications for scope and extent of work. The LPB survey report that includes information about this area can be found in Specification Section 00 10 20. Lower portion of south and west walls will require mitigation/stabilization if directly impacted by renovation/demolition activities. If replacement of Emergency lighting battery packs and Exit signs impact plaster ceiling, the material should be treated as LBP and addressed accordingly.
Metal	Stair Handrail			X				LBP Mitigation Stabilize Paint, Prepare and Prime as needed for completion for scope of work.	Refer to Contract Documents and architect's drawings, specifications for scope and extent of work. The LPB survey report that includes information about this area can be found in Specification Section 00 10 20. Mitigation/stabilization only needed if the planned renovation/demolition activities will directly affect the stairs.
Metal	Stair Stringer			X				LBP Mitigation Stabilize Paint, Prepare and Prime as needed for completion for scope of work.	Refer to Contract Documents and architect's drawings, specifications for scope and extent of work. The LPB survey report that includes information about this area can be found in Specification Section 00 10 20. Mitigation/stabilization only needed if the planned renovation/demolition activities will directly affect the stairs.

**ENVIRONMENTAL SCOPE SHEETS  
CHICAGO PUBLIC SCHOOLS (CPS)**

Managing Environmental  
Consultant/Project No.:  
100% Issue Date:  
School:

Environmental Design International inc.  
05530-PS1651D-002  
December 10, 2012  
Alexander Graham Bell Elementary School, 3730 North Oakley Avenue

Room ID/Name:	South End of Main Hallway – Second Floor (continued)
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Metal	Newel Post									LBP Mitigation Stabilize Paint, Prepare and Prime as needed for completion for scope of work.	Refer to Contract Documents and architect's drawings, specifications for scope and extent of work. The LPB survey report that includes information about this area can be found in Specification Section 00 10 20. Mitigation/stabilization only needed if the planned renovation/demolition activities will directly affect the stairs.
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**ACM Areas:**

Substrate	Component	Walls				Ceiling	Floor	Response Action	Comments
		N	E	S	W	C	F		
None								Not Applicable	

**Special Waste:**

Substrate	Component	Walls				Ceiling	Floor	Response Action	Comments
		N	E	S	W	C	F		
Battery Pack for Emergency Lighting								Removal and Disposal as Special/Universal Waste.	Refer to Contract Documents and architect's drawings, specifications for scope and extent of work. The Haz Mat survey report that includes information about this area can be found in Specification Section 00 10 20.

**Note:** If the Abatement Contractor discovers material similar to previously identified ACM or LBP during the course of completing renovation and/or demolition activities and that material will be directly impacted during the course of performing any planned renovation and/or demolition activities, it should be treated/managed as ACM or LBP as appropriate. This includes materials discovered in previously inaccessible areas such as beneath or inside walls, in pipe chases, above the ceiling line, etc.

Only LBP described as being in poor or fair condition typically will need to be mitigated or stabilized unless it is directly affected by planned renovation and/or demolition activities.

CPS/Bell School personnel will be responsible for the management of the mercury-containing light bulbs, light ballasts, and select other Hazardous Materials, identified at Bell School. The Abatement Contractor should confirm with PBC and/or the EC which specific Hazardous Materials need to be managed/disposed of.

**ENVIRONMENTAL SCOPE SHEETS  
CHICAGO PUBLIC SCHOOLS (CPS)**

Managing Environmental  
Consultant/Project No.:  
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School:

Environmental Design International inc.  
05530-PS1651D-002  
December 10, 2012  
Alexander Graham Bell Elementary School, 3730 North Oakley Avenue

Room ID/Name:	Room 202 – Second Floor
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**LBP Areas:**

Substrate	Component	Walls				Ceiling	Floor	Response Action	Comments
		N	E	S	W	C	F		
Plaster (closet only)	Wall	X	X	X				LBP Mitigation Stabilize Paint, Prepare and Prime as needed for completion for scope of work.	Refer to Contract Documents and architect's drawings, specifications for scope and extent of work. The LBP survey report that includes information about this room can be found in Specification Section 00 10 20. Mitigation/stabilization only needed if renovation/demolition activities will directly affect the closet.

**ACM Areas:**

Substrate	Component	Walls				Ceiling	Floor	Response Action	Comments
		N	E	S	W	C	F		
None								Not Applicable	

**Special Waste:**

Substrate	Component	Walls				Ceiling	Floor	Response Action	Comments
		N	E	S	W	C	F		
Mercury Fluorescent Light Bulbs and light ballasts								Removal and Disposal as Special/Universal Waste.	Refer to Contract Documents and architect's drawings, specifications for scope and extent of work. The Haz Mat survey report that includes information about this area can be found in Specification Section 00 10 20. If planned renovation/demolition activities will impact light bulbs and ballasts, that material should be treated as Haz Mat/Universal Waste and addressed accordingly.

**Note:** If the Abatement Contractor discovers material similar to previously identified ACM or LBP during the course of completing renovation and/or demolition activities and that material will be directly impacted during the course of performing any planned renovation and/or demolition activities, it should be treated/managed as ACM or LBP as appropriate. This includes materials discovered in previously inaccessible areas such as beneath or inside walls, in pipe chases, above the ceiling line, etc.

Only LBP described as being in poor or fair condition typically will need to be mitigated or stabilized unless it is directly affected by planned renovation and/or demolition activities.



**ENVIRONMENTAL SCOPE SHEETS  
CHICAGO PUBLIC SCHOOLS (CPS)**

Managing Environmental Consultant/Project No.:	Environmental Design International inc.
100% Issue Date:	05530-PS1651D-002
School:	December 10, 2012
	Alexander Graham Bell Elementary School, 3730 North Oakley Avenue

CPS/Bell School personnel will be responsible for the management of the mercury-containing light bulbs, light ballasts, and select other Hazardous Materials, identified at Bell School. The Abatement Contractor should confirm with PBC and/or the EC which specific Hazardous Materials need to be managed/disposed of.

**ENVIRONMENTAL SCOPE SHEETS  
CHICAGO PUBLIC SCHOOLS (CPS)**

Managing Environmental  
Consultant/Project No.:  
100% Issue Date:  
School:

Environmental Design International inc.  
05530-PS1651D-002  
December 10, 2012  
Alexander Graham Bell Elementary School, 3730 North Oakley Avenue

Room ID/Name:	Girl's/Northwest Bathroom, including entrance vestibule – Second Floor
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**LBP Areas:**

Substrate	Component	Walls				Ceiling	Floor	Response Action	Comments
		N	E	S	W	C	F		
Plaster	Wall	X	X	X	X	X		LBP Mitigation Stabilize Paint, Prepare and Prime as needed for completion for scope of work.	Refer to Contract Documents and architect's drawings, specifications for scope and extent of work. The LBP survey report that includes information about this room can be found in Specification Section 00 10 20. Bathroom is targeted for complete renovation, therefore, all material should be treated as LBP and addressed accordingly.

**ACM Areas:**

Substrate	Component	Walls				Ceiling	Floor	Response Action	Comments
		N	E	S	W	C	F		
Mudded Fittings								ACM Removal and Disposal	Refer to Contract Documents and architect's drawings, specifications for scope and extent of work. The ACM survey report that includes information about this room can be found in Specification Section 00 10 20.
Preformed Pipe Insulation								ACM Removal and Disposal	Refer to Contract Documents and architect's drawings, specifications for scope and extent of work. The ACM survey report that includes information about this room can be found in Specification Section 00 10 20.

**ENVIRONMENTAL SCOPE SHEETS  
CHICAGO PUBLIC SCHOOLS (CPS)**

Managing Environmental Consultant/Project No.:	Environmental Design International inc. 05530-PS1651D-002
100% Issue Date:	December 10, 2012
School:	Alexander Graham Bell Elementary School, 3730 North Oakley Avenue

Room ID/Name:	Girl's/Northwest Bathroom, including entrance vestibule – Second Floor (continued)
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**Special Waste:**

Substrate	Component	Walls				Ceiling	Floor	Response Action	Comments
		N	E	S	W	C	F		
Mercury Fluorescent Light Bulbs and light ballasts								Removal and Disposal as Special/Universal Waste.	Refer to Contract Documents and architect's drawings, specifications for scope and extent of work. The Haz Mat survey report that includes information about this area can be found in Specification Section 00 10 20. If planned renovation/demolition activities will impact light bulbs and ballasts, that material should be treated as Haz Mat/Universal Waste and addressed accordingly.

**Note:** If the Abatement Contractor discovers material similar to previously identified ACM or LBP during the course of completing renovation and/or demolition activities and that material will be directly impacted during the course of performing any planned renovation and/or demolition activities, it should be treated/managed as ACM or LBP as appropriate. This includes materials discovered in previously inaccessible areas such as beneath or inside walls, in pipe chases, above the ceiling line, etc.

Only LBP described as being in poor or fair condition typically will need to be mitigated or stabilized unless it is directly affected by planned renovation and/or demolition activities.

CPS/Bell School personnel will be responsible for the management of the mercury-containing light bulbs, light ballasts, and select other Hazardous Materials, identified at Bell School. The Abatement Contractor should confirm with PBC and/or the EC which specific Hazardous Materials need to be managed/disposed of.

**ENVIRONMENTAL SCOPE SHEETS  
CHICAGO PUBLIC SCHOOLS (CPS)**

Managing Environmental  
Consultant/Project No.:  
100% Issue Date:  
School:

Environmental Design International inc.  
05530-PS1651D-002  
December 10, 2012  
Alexander Graham Bell Elementary School, 3730 North Oakley Avenue

Room ID/Name:	Hallway north of Auditorium Balcony – Second Floor
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**LBP Areas:**

Substrate	Component	Walls				Ceiling	Floor	Response Action	Comments
		N	E	S	W	C	F		
Plaster	Wall	X	X	X	X			LBP Mitigation Stabilize Paint, Prepare and Prime as needed for completion for scope of work.	Refer to Contract Documents and architect's drawings, specifications for scope and extent of work. The LPB survey report that includes information about this area can be found in Specification Section 00 10 20. Walls will require mitigation/stabilization if directly impacted by renovation/demolition activities.
Metal	Stair Riser		X					LBP Mitigation Stabilize Paint, Prepare and Prime as needed for completion for scope of work.	Refer to Contract Documents and architect's drawings, specifications for scope and extent of work. The LPB survey report that includes information about this area can be found in Specification Section 00 10 20. Mitigation/stabilization only needed if the planned renovation/demolition activities will directly affect the stairs.
Metal	Stair Handrail		X					LBP Mitigation Stabilize Paint, Prepare and Prime as needed for completion for scope of work.	Refer to Contract Documents and architect's drawings, specifications for scope and extent of work. The LPB survey report that includes information about this area can be found in Specification Section 00 10 20. Mitigation/stabilization only needed if the planned renovation/demolition activities will directly affect the stairs.

**ENVIRONMENTAL SCOPE SHEETS  
CHICAGO PUBLIC SCHOOLS (CPS)**

Managing Environmental  
Consultant/Project No.:  
100% Issue Date:  
School:

Environmental Design International inc.  
05530-PS1651D-002  
December 10, 2012  
Alexander Graham Bell Elementary School, 3730 North Oakley Avenue

Room ID/Name:	Hallway north of Auditorium Balcony – Second Floor (continued)
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Metal	Stair Stringer		X					LBP Mitigation Stabilize Paint, Prepare and Prime as needed for completion for scope of work.	Refer to Contract Documents and architect's drawings, specifications for scope and extent of work. The LPB survey report that includes information about this area can be found in Specification Section 00 10 20. Mitigation/stabilization only needed if the planned renovation/demolition activities will directly affect the stairs.
Metal	Newel Post		X					LBP Mitigation Stabilize Paint, Prepare and Prime as needed for completion for scope of work.	Refer to Contract Documents and architect's drawings, specifications for scope and extent of work. The LPB survey report that includes information about this area can be found in Specification Section 00 10 20. Mitigation/stabilization only needed if the planned renovation/demolition activities will directly affect the stairs.
Metal	Door		X					LBP Mitigation Stabilize Paint, Prepare and Prime as needed for completion for scope of work.	Refer to Contract Documents and architect's drawings, specifications for scope and extent of work. The LPB survey report that includes information about this area can be found in Specification Section 00 10 20. Mitigation/stabilization only needed if the planned renovation/demolition activities will directly affect the door.

**ACM Areas:**

Substrate	Component	Walls				Ceiling	Floor	Response Action	Comments
		N	E	S	W	C	F		
None								Not Applicable	

**ENVIRONMENTAL SCOPE SHEETS  
CHICAGO PUBLIC SCHOOLS (CPS)**

Managing Environmental  
Consultant/Project No.:  
100% Issue Date:  
School:

Environmental Design International inc.  
05530-PS1651D-002  
December 10, 2012  
Alexander Graham Bell Elementary School, 3730 North Oakley Avenue

Room ID/Name:	Hallway north of Auditorium Balcony – Second Floor (continued)
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**Special Waste:**

Substrate	Component	Walls				Ceiling	Floor	Response Action	Comments
		N	E	S	W	C	F		
Mercury Fluorescent Light Bulbs and light ballasts								Removal and Disposal as Special/Universal Waste.	Refer to Contract Documents and architect’s drawings, specifications for scope and extent of work. The Haz Mat survey report that includes information about this area can be found in Specification Section 00 10 20. If planned renovation/demolition activities will impact light bulbs and ballasts, that material should be treated as Haz Mat/Universal Waste and addressed accordingly.

**Note:** If the Abatement Contractor discovers material similar to previously identified ACM or LBP during the course of completing renovation and/or demolition activities and that material will be directly impacted during the course of performing any planned renovation and/or demolition activities, it should be treated/managed as ACM or LBP as appropriate. This includes materials discovered in previously inaccessible areas such as beneath or inside walls, in pipe chases, above the ceiling line, etc.

Only LBP described as being in poor or fair condition typically will need to be mitigated or stabilized unless it is directly affected by planned renovation and/or demolition activities.

CPS/Bell School personnel will be responsible for the management of the mercury-containing light bulbs, light ballasts, and select other Hazardous Materials, identified at Bell School. The Abatement Contractor should confirm with PBC and/or the EC which specific Hazardous Materials need to be managed/disposed of.

**ENVIRONMENTAL SCOPE SHEETS  
CHICAGO PUBLIC SCHOOLS (CPS)**

Managing Environmental  
Consultant/Project No.:  
100% Issue Date:  
School:

Environmental Design International inc.  
05530-PS1651D-002  
December 10, 2012  
Alexander Graham Bell Elementary School, 3730 North Oakley Avenue

Room ID/Name:	Auditorium Balcony – Second Floor
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**LBP Areas:**

Substrate	Component	Walls				Ceiling	Floor	Response Action	Comments
		N	E	S	W	C	F		
Plaster	Wall	X	X	X	X	X		LBP Mitigation Stabilize Paint, Prepare and Prime as needed for completion for scope of work.	Refer to Contract Documents and architect's drawings, specifications for scope and extent of work. The LPB survey report that includes information about this room can be found in Specification Section 00 10 20. Mitigation/stabilization is only needed if the planned renovation/demolition activities directly affect the surfaces.
Plaster	Column, decorative wall, ceiling							LBP Mitigation Stabilize Paint, Prepare and Prime as needed for completion for scope of work.	Refer to Contract Documents and architect's drawings, specifications for scope and extent of work. The LPB survey report that includes information about this room can be found in Specification Section 00 10 20. Mitigation/stabilization is only needed if the planned renovation/demolition activities directly affect the surfaces.
Metal	Door							LBP Mitigation Stabilize Paint, Prepare and Prime as needed for completion for scope of work.	Refer to Contract Documents and architect's drawings, specifications for scope and extent of work. The LPB survey report that includes information about this room can be found in Specification Section 00 10 20. Mitigation/stabilization is only needed if the planned renovation/demolition activities directly affect the surfaces.



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05530-PS1651D-002  
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Alexander Graham Bell Elementary School, 3730 North Oakley Avenue

Room ID/Name:	Auditorium Balcony – Second Floor (continued)
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Metal	Handrail								LBP Mitigation Stabilize Paint, Prepare and Prime as needed for completion for scope of work.	Refer to Contract Documents and architect's drawings, specifications for scope and extent of work. The LPB survey report that includes information about this room can be found in Specification Section 00 10 20. Handrail is being removed, therefore, no additional action is needed.
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**ACM Areas:**

Substrate	Component	Walls				Ceiling	Floor	Response Action	Comments
		N	E	S	W	C	F		
None								Not Applicable	

**Special Waste:**

Substrate	Component	Walls				Ceiling	Floor	Response Action	Comments
		N	E	S	W	C	F		
Mercury Fluorescent Light Bulbs and light ballasts								Removal and Disposal as Special/Universal Waste.	Refer to Contract Documents and architect's drawings, specifications for scope and extent of work. The Haz Mat survey report that includes information about this area can be found in Specification Section 00 10 20. If planned renovation/demolition activities will impact light bulbs and ballasts, that material should be treated as Haz Mat/Universal Waste and addressed accordingly.

**Note:** If the Abatement Contractor discovers material similar to previously identified ACM or LBP during the course of completing renovation and/or demolition activities and that material will be directly impacted during the course of performing any planned renovation and/or demolition activities, it should be treated/managed as ACM or LBP as appropriate. This includes materials discovered in previously inaccessible areas such as beneath or inside walls, in pipe chases, above the ceiling line, etc.

Only LBP described as being in poor or fair condition typically will need to be mitigated or stabilized unless it is directly affected by planned renovation and/or demolition activities.

CPS/Bell School personnel will be responsible for the management of the mercury-containing light bulbs, light ballasts, and select other Hazardous Materials, identified at Bell School. The Abatement Contractor should confirm with PBC and/or the EC which specific Hazardous Materials need to be managed/disposed of.

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Alexander Graham Bell Elementary School, 3730 North Oakley Avenue

Room ID/Name:	Hallway south of Auditorium Balcony – Second Floor
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**LBP Areas:**

Substrate	Component	Walls				Ceiling	Floor	Response Action	Comments
		N	E	S	W	C	F		
Plaster	Wall		X	X				LBP Mitigation Stabilize Paint, Prepare and Prime as needed for completion for scope of work.	Refer to Contract Documents and architect's drawings, specifications for scope and extent of work. The LPB survey report that includes information about this area can be found in Specification Section 00 10 20. Walls will require mitigation/stabilization if directly impacted by renovation/demolition activities.
Metal	Stair Riser		X					LBP Mitigation Stabilize Paint, Prepare and Prime as needed for completion for scope of work.	Refer to Contract Documents and architect's drawings, specifications for scope and extent of work. The LPB survey report that includes information about this area can be found in Specification Section 00 10 20. Mitigation/stabilization only needed if the planned renovation/demolition activities will directly affect the stairs.
Metal	Stair Handrail		X					LBP Mitigation Stabilize Paint, Prepare and Prime as needed for completion for scope of work.	Refer to Contract Documents and architect's drawings, specifications for scope and extent of work. The LPB survey report that includes information about this area can be found in Specification Section 00 10 20. Mitigation/stabilization only needed if the planned renovation/demolition activities will directly affect the stairs.

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Room ID/Name:	Hallway south of Auditorium Balcony – Second Floor (continued)
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Metal	Stair Stringer		X					LBP Mitigation Stabilize Paint, Prepare and Prime as needed for completion for scope of work.	Refer to Contract Documents and architect's drawings, specifications for scope and extent of work. The LPB survey report that includes information about this area can be found in Specification Section 00 10 20. Mitigation/stabilization only needed if the planned renovation/demolition activities will directly affect the stairs.
Metal	Newel Post		X					LBP Mitigation Stabilize Paint, Prepare and Prime as needed for completion for scope of work.	Refer to Contract Documents and architect's drawings, specifications for scope and extent of work. The LPB survey report that includes information about this area can be found in Specification Section 00 10 20. Mitigation/stabilization only needed if the planned renovation/demolition activities will directly affect the stairs.
Metal	Door		X					LBP Mitigation Stabilize Paint, Prepare and Prime as needed for completion for scope of work.	Refer to Contract Documents and architect's drawings, specifications for scope and extent of work. The LPB survey report that includes information about this area can be found in Specification Section 00 10 20. Mitigation/stabilization only needed if the planned renovation/demolition activities will directly affect the door.
Wood	Baseboard		X					LBP Mitigation Stabilize Paint, Prepare and Prime as needed for completion for scope of work.	Refer to Contract Documents and architect's drawings, specifications for scope and extent of work. The LPB survey report that includes information about this area can be found in Specification Section 00 10 20. Mitigation/stabilization only needed if the planned renovation/demolition activities will directly affect the baseboard.

**ACM Areas:**

Substrate	Component	Walls				Ceiling	Floor	Response Action	Comments
		N	E	S	W	C	F		
None								Not Applicable	

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Room ID/Name:	Hallway south of Auditorium Balcony – Second Floor (continued)
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**Special Waste:**

Substrate	Component	Walls				Ceiling	Floor	Response Action	Comments
		N	E	S	W	C	F		
Mercury Fluorescent Light Bulbs and light ballasts								Removal and Disposal as Special/Universal Waste.	Refer to Contract Documents and architect’s drawings, specifications for scope and extent of work. The Haz Mat survey report that includes information about this area can be found in Specification Section 00 10 20. If planned renovation/demolition activities will impact light bulbs and ballasts, that material should be treated as Haz Mat/Universal Waste and addressed accordingly.

**Note:** If the Abatement Contractor discovers material similar to previously identified ACM or LBP during the course of completing renovation and/or demolition activities and that material will be directly impacted during the course of performing any planned renovation and/or demolition activities, it should be treated/managed as ACM or LBP as appropriate. This includes materials discovered in previously inaccessible areas such as beneath or inside walls, in pipe chases, above the ceiling line, etc.

Only LBP described as being in poor or fair condition typically will need to be mitigated or stabilized unless it is directly affected by planned renovation and/or demolition activities.

CPS/Bell School personnel will be responsible for the management of the mercury-containing light bulbs, light ballasts, and select other Hazardous Materials, identified at Bell School. The Abatement Contractor should confirm with PBC and/or the EC which specific Hazardous Materials need to be managed/disposed of.

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Room ID/Name:	Main Hallway – Second Floor
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**LBP Areas:**

Substrate	Component	Walls				Ceiling	Floor	Response Action	Comments
		N	E	S	W	C	F		
Plaster	Wall	X	X		X	X		LBP Mitigation Stabilize Paint, Prepare and Prime as needed for completion for scope of work.	Refer to Contract Documents and architect's drawings, specifications for scope and extent of work. The LBP survey report that includes information about this area can be found in Specification Section 00 10 20. If planned renovation/ demolition activities will impact plaster walls or ceiling, that material should be treated as LBP and addressed accordingly. If replacement of Emergency lighting battery packs and Exit signs impact plaster ceiling, the material should be treated as LBP and addressed accordingly.

**ACM Areas:**

Substrate	Component	Walls				Ceiling	Floor	Response Action	Comments
		N	E	S	W	C	F		
Preformed Pipe Insulation								ACM Removal and Disposal.	Refer to Contract Documents and architect's drawings, specifications for scope and extent of work. The ACM survey report that includes information about this area can be found in Specification Section 00 10 20. Material at this location is not included in ACM Log, however, it is known to exist between the drop ceiling and plaster ceiling along the length of the hallway. If planned renovation/demolition activities will impact piping, that material should be treated as ACM and addressed accordingly.

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Room ID/Name:	Main Hallway – Second Floor (continued)
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**Special Waste:**

Substrate	Component	Walls				Ceiling	Floor	Response Action	Comments
		N	E	S	W	C	F		
Battery Pack for Emergency Lighting								Removal and Disposal as Special/Universal Waste.	Refer to Contract Documents and architect’s drawings, specifications for scope and extent of work. The Haz Mat survey report that includes information about this area can be found in Specification Section 00 10 20.

**Note:** If the Abatement Contractor discovers material similar to previously identified ACM or LBP during the course of completing renovation and/or demolition activities and that material will be directly impacted during the course of performing any planned renovation and/or demolition activities, it should be treated/managed as ACM or LBP as appropriate. This includes materials discovered in previously inaccessible areas such as beneath or inside walls, in pipe chases, above the ceiling line, etc.

Only LBP described as being in poor or fair condition typically will need to be mitigated or stabilized unless it is directly affected by planned renovation and/or demolition activities.

CPS/Bell School personnel will be responsible for the management of the mercury-containing light bulbs, light ballasts, and select other Hazardous Materials, identified at Bell School. The Abatement Contractor should confirm with PBC and/or the EC which specific Hazardous Materials need to be managed/disposed of.

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Alexander Graham Bell Elementary School, 3730 North Oakley Avenue

Room ID/Name:	Boy's/Southwest Bathroom, including entrance vestibule – Third Floor
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**LBP Areas:**

Substrate	Component	Walls				Ceiling	Floor	Response Action	Comments
		N	E	S	W	C	F		
Plaster	Wall	X	X	X	X	X		LBP Mitigation Stabilize Paint, Prepare and Prime as needed for completion for scope of work.	Refer to Contract Documents and architect's drawings, specifications for scope and extent of work. The LPB survey report that includes information about this room can be found in Specification Section 00 10 20. For the main bathroom, the North wall should only be mitigated/stabilized if directly impacted by the planned renovation/demolition activities.
Metal	Pipe	X						LBP Mitigation Stabilize Paint, Prepare and Prime as needed for completion for scope of work.	Refer to Contract Documents and architect's drawings, specifications for scope and extent of work. The LPB survey report that includes information about this room can be found in Specification Section 00 10 20.

**ACM Areas:**

Substrate	Component	Walls				Ceiling	Floor	Response Action	Comments
		N	E	S	W	C	F		
Mudded Fittings								ACM Removal and Disposal.	Refer to Contract Documents and architect's drawings, specifications for scope and extent of work. The ACM survey report that includes information about this room can be found in Specification Section 00 10 20.
Preformed Pipe Insulation								ACM Removal and Disposal.	Refer to Contract Documents and architect's drawings, specifications for scope and extent of work. The ACM survey report that includes information about this room can be found in Specification Section 00 10 20.

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School:	Alexander Graham Bell Elementary School, 3730 North Oakley Avenue

Room ID/Name:	Boy's/Southwest Bathroom, including entrance vestibule – Third Floor (continued)
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**Special Waste:**

Substrate	Component	Walls				Ceiling	Floor	Response Action	Comments
		N	E	S	W	C	F		
Mercury Fluorescent Light Bulbs and light ballasts								Removal and Disposal as Special/Universal Waste.	Refer to Contract Documents and architect's drawings, specifications for scope and extent of work. The Haz Mat survey report that includes information about this area can be found in Specification Section 00 10 20. If planned renovation/demolition activities will impact light bulbs and ballasts, that material should be treated as Haz Mat/Universal Waste and addressed accordingly.

**Note:** If the Abatement Contractor discovers material similar to previously identified ACM or LBP during the course of completing renovation and/or demolition activities and that material will be directly impacted during the course of performing any planned renovation and/or demolition activities, it should be treated/managed as ACM or LBP as appropriate. This includes materials discovered in previously inaccessible areas such as beneath or inside walls, in pipe chases, above the ceiling line, etc.

Only LBP described as being in poor or fair condition typically will need to be mitigated or stabilized unless it is directly affected by planned renovation and/or demolition activities.

CPS/Bell School personnel will be responsible for the management of the mercury-containing light bulbs, light ballasts, and select other Hazardous Materials, identified at Bell School. The Abatement Contractor should confirm with PBC and/or the EC which specific Hazardous Materials need to be managed/disposed of.



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December 10, 2012  
Alexander Graham Bell Elementary School, 3730 North Oakley Avenue

Room ID/Name:	South End of Main Hallway – Third Floor
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**LBP Areas:**

Substrate	Component	Walls				Ceiling	Floor	Response Action	Comments
		N	E	S	W	C	F		
Plaster	Wall			X	X	X		LBP Mitigation Stabilize Paint, Prepare and Prime as needed for completion for scope of work.	Refer to Contract Documents and architect's drawings, specifications for scope and extent of work. The LPB survey report that includes information about this area can be found in Specification Section 00 10 20. Lower portion of south and west walls will require mitigation/stabilization if directly impacted by renovation/demolition activities. If replacement of Emergency lighting battery packs and Exit signs impact plaster ceiling, the material should be treated as LBP and addressed accordingly.
Metal	Stair Handrail			X				LBP Mitigation Stabilize Paint, Prepare and Prime as needed for completion for scope of work.	Refer to Contract Documents and architect's drawings, specifications for scope and extent of work. The LPB survey report that includes information about this area can be found in Specification Section 00 10 20. Mitigation/stabilization only needed if the planned renovation/demolition activities will directly affect the stairs.

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Room ID/Name:	South End of Main Hallway – Third Floor (continued)
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Metal	Stair Stringer			X				LBP Mitigation Stabilize Paint, Prepare and Prime as needed for completion for scope of work.	Refer to Contract Documents and architect's drawings, specifications for scope and extent of work. The LPB survey report that includes information about this area can be found in Specification Section 00 10 20. Mitigation/stabilization only needed if the planned renovation/demolition activities will directly affect the stairs.
Metal	Newel Post			X				LBP Mitigation Stabilize Paint, Prepare and Prime as needed for completion for scope of work.	Refer to Contract Documents and architect's drawings, specifications for scope and extent of work. The LPB survey report that includes information about this area can be found in Specification Section 00 10 20. Mitigation/stabilization only needed if the planned renovation/demolition activities will directly affect the stairs.

**ACM Areas:**

Substrate	Component	Walls				Ceiling	Floor	Response Action	Comments
		N	E	S	W	C	F		
None								Not Applicable	

**ENVIRONMENTAL SCOPE SHEETS  
CHICAGO PUBLIC SCHOOLS (CPS)**

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 School: Alexander Graham Bell Elementary School, 3730 North Oakley Avenue

Room ID/Name:	South End of Main Hallway – Third Floor (continued)
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**Special Waste:**

Substrate	Component	Walls				Ceiling	Floor	Response Action	Comments
		N	E	S	W	C	F		
Battery Pack for Emergency Lighting								Removal and Disposal as Special/Universal Waste.	Refer to Contract Documents and architect’s drawings, specifications for scope and extent of work. The Haz Mat survey report that includes information about this area can be found in Specification Section 00 10 20.

**Note:** If the Abatement Contractor discovers material similar to previously identified ACM or LBP during the course of completing renovation and/or demolition activities and that material will be directly impacted during the course of performing any planned renovation and/or demolition activities, it should be treated/managed as ACM or LBP as appropriate. This includes materials discovered in previously inaccessible areas such as beneath or inside walls, in pipe chases, above the ceiling line, etc.

Only LBP described as being in poor or fair condition typically will need to be mitigated or stabilized unless it is directly affected by planned renovation and/or demolition activities.

CPS/Bell School personnel will be responsible for the management of the mercury-containing light bulbs, light ballasts, and select other Hazardous Materials, identified at Bell School. The Abatement Contractor should confirm with PBC and/or the EC which specific Hazardous Materials need to be managed/disposed of.

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Alexander Graham Bell Elementary School, 3730 North Oakley Avenue

Room ID/Name:	7 <sup>th</sup> /8 <sup>th</sup> Grade Science Classroom (Room 314B) – Third Floor
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**LBP Areas:**

Substrate	Component	Walls				Ceiling	Floor	Response Action	Comments
		N	E	S	W	C	F		
Plaster	Wall	X	X	X	X	X		LBP Mitigation Stabilize Paint, Prepare and Prime as needed for completion for scope of work.	Refer to Contract Documents and architect's drawings, specifications for scope and extent of work. The LPB survey report that includes information about this room can be found in Specification Section 00 10 20. Mitigation/stabilization of the walls is needed to facilitate the planned painting.
Metal	Vent		X					LBP Mitigation Stabilize Paint, Prepare and Prime as needed for completion for scope of work.	Refer to Contract Documents and architect's drawings, specifications for scope and extent of work. The LPB survey report that includes information about this room can be found in Specification Section 00 10 20. Mitigation/stabilization of the vent is only needed if it will directly be impacted by the planned renovation/demolition activities.

**ACM Areas:**

Substrate	Component	Walls				Ceiling	Floor	Response Action	Comments
		N	E	S	W	C	F		
None								Not Applicable.	

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Alexander Graham Bell Elementary School, 3730 North Oakley Avenue

Room ID/Name:	7 <sup>th</sup> /8 <sup>th</sup> Grade Science Classroom (Room 314B) – Third Floor (continued)
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**Special Waste:**

Substrate	Component	Walls				Ceiling	Floor	Response Action	Comments
		N	E	S	W	C	F		
Mercury Fluorescent Light Bulbs and light ballasts								Removal and Disposal as Special/Universal Waste.	Refer to Contract Documents and architect’s drawings, specifications for scope and extent of work. The Haz Mat survey report that includes information about this area can be found in Specification Section 00 10 20. If planned renovation/demolition activities will impact light bulbs and ballasts, that material should be treated as Haz Mat/Universal Waste and addressed accordingly.
Various laboratory chemicals and other products								Removal and Disposal as Special/Universal Waste.	Refer to Contract Documents and architect's drawings, specifications for scope and extent of work. The Haz Mat survey report that includes information about this room can be found in Specification Section 00 10 20. CPS/Bell School to manage household-type products. Abatement contractor to manage the materials in the small metal Corrosives cabinet near the window.

**Note:** If the Abatement Contractor discovers material similar to previously identified ACM or LBP during the course of completing renovation and/or demolition activities and that material will be directly impacted during the course of performing any planned renovation and/or demolition activities, it should be treated/managed as ACM or LBP as appropriate. This includes materials discovered in previously inaccessible areas such as beneath or inside walls, in pipe chases, above the ceiling line, etc.

Only LBP described as being in poor or fair condition typically will need to be mitigated or stabilized unless it is directly affected by planned renovation and/or demolition activities.

CPS/Bell School personnel will be responsible for the management of the mercury-containing light bulbs, light ballasts, and select other Hazardous Materials, identified at Bell School. The Abatement Contractor should confirm with PBC and/or the EC which specific Hazardous Materials need to be managed/disposed of.

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Room ID/Name:	Girl's/Northwest Bathroom, including entrance vestibule – Third Floor
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**LBP Areas:**

Substrate	Component	Walls				Ceiling	Floor	Response Action	Comments
		N	E	S	W	C	F		
Plaster	Wall	X	X	X	X	X		LBP Mitigation Stabilize Paint, Prepare and Prime as needed for completion for scope of work.	Refer to Contract Documents and architect's drawings, specifications for scope and extent of work. The LPB survey report that includes information about this room can be found in Specification Section 00 10 20. The north wall of the vestibule area should only be mitigated/stabilized if directly impacted by the planned renovation/demolition activities. For the main bathroom, the north wall should only be mitigated/stabilized if directly impacted by the planned renovation/demolition activities.
Metal	Vent		X					LBP Mitigation Stabilize Paint, Prepare and Prime as needed for completion for scope of work.	Refer to Contract Documents and architect's drawings, specifications for scope and extent of work. The LPB survey report that includes information about this room can be found in Specification Section 00 10 20.

**ACM Areas:**

Substrate	Component	Walls				Ceiling	Floor	Response Action	Comments
		N	E	S	W	C	F		
Mudded Fittings								ACM Removal and Disposal.	Refer to Contract Documents and architect's drawings, specifications for scope and extent of work. The ACM survey report that includes information about this room can be found in Specification Section 00 10 20
Preformed Pipe Insulation								ACM Removal and Disposal.	Refer to Contract Documents and architect's drawings, specifications for scope and extent of work. The ACM survey report that includes information about this room can be found in Specification Section 00 10 20.

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Room ID/Name:	Girl's/Northwest Bathroom, including entrance vestibule – Third Floor (continued)
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**Special Waste:**

Substrate	Component	Walls				Ceiling	Floor	Response Action	Comments
		N	E	S	W	C	F		
Mercury Fluorescent Light Bulbs and light ballasts								Removal and Disposal as Special/Universal Waste.	Refer to Contract Documents and architect's drawings, specifications for scope and extent of work. The Haz Mat survey report that includes information about this area can be found in Specification Section 00 10 20. If planned renovation/demolition activities will impact light bulbs and ballasts, that material should be treated as Haz Mat/Universal Waste and addressed accordingly.

**Note:** If the Abatement Contractor discovers material similar to previously identified ACM or LBP during the course of completing renovation and/or demolition activities and that material will be directly impacted during the course of performing any planned renovation and/or demolition activities, it should be treated/managed as ACM or LBP as appropriate. This includes materials discovered in previously inaccessible areas such as beneath or inside walls, in pipe chases, above the ceiling line, etc.

Only LBP described as being in poor or fair condition typically will need to be mitigated or stabilized unless it is directly affected by planned renovation and/or demolition activities.

CPS/Bell School personnel will be responsible for the management of the mercury-containing light bulbs, light ballasts, and select other Hazardous Materials, identified at Bell School. The Abatement Contractor should confirm with PBC and/or the EC which specific Hazardous Materials need to be managed/disposed of.

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Room ID/Name:	Main Hallway – Third Floor
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**LBP Areas:**

Substrate	Component	Walls				Ceiling	Floor	Response Action	Comments
		N	E	S	W	C	F		
Plaster	Wall	X	X		X	X		LBP Mitigation Stabilize Paint, Prepare and Prime as needed for completion for scope of work.	Refer to Contract Documents and architect's drawings, specifications for scope and extent of work. The LBP survey report that includes information about this area can be found in Specification Section 00 10 20. If planned renovation/ demolition activities will impact plaster walls or ceiling, that material should be treated as LBP and addressed accordingly. If replacement of Emergency lighting battery packs and Exit signs impact plaster ceiling, the material should be treated as LBP and addressed accordingly.

**ACM Areas:**

Substrate	Component	Walls				Ceiling	Floor	Response Action	Comments
		N	E	S	W	C	F		
Preformed Pipe Insulation								ACM Removal and Disposal.	Refer to Contract Documents and architect's drawings, specifications for scope and extent of work. The ACM survey report that includes information about this area can be found in Specification Section 00 10 20. Material at this location is not included in ACM Log, however, it is known to exist between the drop ceiling and plaster ceiling along the length of the hallway. If planned renovation/demolition activities will impact piping, that material should be treated as ACM and addressed accordingly.



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Room ID/Name:	Main Hallway – Third Floor (continued)
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**Special Waste:**

Substrate	Component	Walls				Ceiling	Floor	Response Action	Comments
		N	E	S	W	C	F		
Battery Pack for Emergency Lighting								Removal and Disposal as Special/Universal Waste.	Refer to Contract Documents and architect’s drawings, specifications for scope and extent of work. The Haz Mat survey report that includes information about this area can be found in Specification Section 00 10 20.

**Note:** If the Abatement Contractor discovers material similar to previously identified ACM or LBP during the course of completing renovation and/or demolition activities and that material will be directly impacted during the course of performing any planned renovation and/or demolition activities, it should be treated/managed as ACM or LBP as appropriate. This includes materials discovered in previously inaccessible areas such as beneath or inside walls, in pipe chases, above the ceiling line, etc.

Only LBP described as being in poor or fair condition typically will need to be mitigated or stabilized unless it is directly affected by planned renovation and/or demolition activities.

CPS/Bell School personnel will be responsible for the management of the mercury-containing light bulbs, light ballasts, and select other Hazardous Materials, identified at Bell School. The Abatement Contractor should confirm with PBC and/or the EC which specific Hazardous Materials need to be managed/disposed of.

**ENVIRONMENTAL SCOPE SHEETS  
CHICAGO PUBLIC SCHOOLS (CPS)**

Managing Environmental  
Consultant/Project No.:  
100% Issue Date:  
School:

Environmental Design International inc.  
05530-PS1651D-002  
December 10, 2012  
Alexander Graham Bell Elementary School, 3730 North Oakley Avenue

Room ID/Name:	Music Room (Room 309) – Third Floor
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**LBP Areas:**

Substrate	Component	Walls				Ceiling	Floor	Response Action	Comments
		N	E	S	W	C	F		
Plaster	Wall	X	X	X	X	X		LBP Mitigation Stabilize Paint, Prepare and Prime as needed for completion for scope of work.	Refer to Contract Documents and architect's drawings, specifications for scope and extent of work. The LPB survey report that includes information about this room can be found in Specification Section 00 10 20. Mitigation/stabilization of the walls is needed to facilitate the planned painting as part of the planned renovation/demolition activities.
Metal	Vent		X					LBP Mitigation Stabilize Paint, Prepare and Prime as needed for completion for scope of work.	Refer to Contract Documents and architect's drawings, specifications for scope and extent of work. The LPB survey report that includes information about this room can be found in Specification Section 00 10 20. Mitigation/stabilization is only needed if it will directly be impacted by the planned renovation/demolition activities.

**ACM Areas:**

Substrate	Component	Walls				Ceiling	Floor	Response Action	Comments
		N	E	S	W	C	F		
Mastic	9" x 9" vinyl Floor tile						X	ACM Removal and Disposal.	Refer to Contract Documents and architect's drawings, specifications for scope and extent of work. The ACM survey report that includes information about this room can be found in Specification Section 00 10 20. ACM floor tile located near main door and connecting door to Room 307.

**ENVIRONMENTAL SCOPE SHEETS  
CHICAGO PUBLIC SCHOOLS (CPS)**

Managing Environmental  
Consultant/Project No.:  
100% Issue Date:  
School:

Environmental Design International inc.  
05530-PS1651D-002  
December 10, 2012  
Alexander Graham Bell Elementary School, 3730 North Oakley Avenue

Room ID/Name:	Music Room (Room 309) – Third Floor (continued)
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**Special Waste:**

Substrate	Component	Walls				Ceiling	Floor	Response Action	Comments
		N	E	S	W	C	F		
Mercury Fluorescent Light Bulbs and light ballasts								Removal and Disposal as Special/Universal Waste.	Refer to Contract Documents and architect’s drawings, specifications for scope and extent of work. The Haz Mat survey report that includes information about this area can be found in Specification Section 00 10 20. If planned renovation/demolition activities will impact light bulbs and ballasts, that material should be treated as Haz Mat/Universal Waste and addressed accordingly.

**Note:** If the Abatement Contractor discovers material similar to previously identified ACM or LBP during the course of completing renovation and/or demolition activities and that material will be directly impacted during the course of performing any planned renovation and/or demolition activities, it should be treated/managed as ACM or LBP as appropriate. This includes materials discovered in previously inaccessible areas such as beneath or inside walls, in pipe chases, above the ceiling line, etc.

Only LBP described as being in poor or fair condition typically will need to be mitigated or stabilized unless it is directly affected by planned renovation and/or demolition activities.

CPS/Bell School personnel will be responsible for the management of the mercury-containing light bulbs, light ballasts, and select other Hazardous Materials, identified at Bell School. The Abatement Contractor should confirm with PBC and/or the EC which specific Hazardous Materials need to be managed/disposed of.

**ENVIRONMENTAL SCOPE SHEETS  
CHICAGO PUBLIC SCHOOLS (CPS)**

Managing Environmental  
Consultant/Project No.:  
100% Issue Date:  
School:

Environmental Design International inc.  
05530-PS1651D-002  
December 10, 2012  
Alexander Graham Bell Elementary School, 3730 North Oakley Avenue

Room ID/Name:	Gymnasium – Third Floor
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**LBP Areas:**

Substrate	Component	Walls				Ceiling	Floor	Response Action	Comments
		N	E	S	W	C	F		
Plaster	Wall	X	X	X	X	X		LBP Mitigation Stabilize Paint, Prepare and Prime as needed for completion for scope of work.	Refer to Contract Documents and architect's drawings, specifications for scope and extent of work. The LPB survey report that includes information about this room can be found in Specification Section 00 10 20. Mitigation/stabilization is only needed if it will directly be impacted by the planned renovation/demolition activities.
Metal	Rims of basketball hoops	X	X	X				LBP Mitigation Stabilize Paint, Prepare and Prime as needed for completion for scope of work.	Refer to Contract Documents and architect's drawings, specifications for scope and extent of work. The LPB survey report that includes information about this room can be found in Specification Section 00 10 20.

**ACM Areas:**

Substrate	Component	Walls				Ceiling	Floor	Response Action	Comments
		N	E	S	W	C	F		
None								Not Applicable.	

**Special Waste:**

Substrate	Component	Walls				Ceiling	Floor	Response Action	Comments
		N	E	S	W	C	F		
High Intensity Multi-Vapor® light bulbs								Removal and Disposal as Special/Universal Waste.	Refer to Contract Documents and architect's drawings, specifications for scope and extent of work. The Haz Mat survey report that includes information about this area can be found in Specification Section 00 10 20. If planned renovation/demolition activities will impact light bulbs and ballasts, that material should be treated as Haz Mat/Universal Waste and addressed accordingly.

**ENVIRONMENTAL SCOPE SHEETS  
CHICAGO PUBLIC SCHOOLS (CPS)**

Managing Environmental Consultant/Project No.: Environmental Design International inc.  
100% Issue Date: 05530-PS1651D-002  
December 10, 2012  
School: Alexander Graham Bell Elementary School, 3730 North Oakley Avenue

**Note:** If the Abatement Contractor discovers material similar to previously identified ACM or LBP during the course of completing renovation and/or demolition activities and that material will be directly impacted during the course of performing any planned renovation and/or demolition activities, it should be treated/managed as ACM or LBP as appropriate. This includes materials discovered in previously inaccessible areas such as beneath or inside walls, in pipe chases, above the ceiling line, etc.

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**ENVIRONMENTAL SCOPE SHEETS  
CHICAGO PUBLIC SCHOOLS (CPS)**

Managing Environmental  
Consultant/Project No.:  
100% Issue Date:  
School:

Environmental Design International inc.  
05530-PS1651D-002  
December 10, 2012  
Alexander Graham Bell Elementary School, 3730 North Oakley Avenue

Room ID/Name:	Roof – Third Floor
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**LBP Areas:**

Substrate	Component	Walls				Ceiling	Floor	Response Action	Comments
		N	E	S	W	C	F		
Metal	Downspout		X					LBP Mitigation Stabilize Paint, Prepare and Prime as needed for completion for scope of work.	Refer to Contract Documents and architect's drawings, specifications for scope and extent of work. The LPB survey report that includes information about this room can be found in Specification Section 00 10 20. Mitigation/stabilization only needed if renovation/ demolition activities will directly affect the downspout.

**ACM Areas:**

Substrate	Component	Walls				Ceiling	Floor	Response Action	Comments
		N	E	S	W	C	F		
Roof Flashing								ACM Removal and Disposal	Refer to Contract Documents and architect's drawings, specifications for scope and extent of work. The ACM survey report that includes information about this room can be found in Specification Section 00 10 20. Abatement only needed if the planned renovation/demolition activities will directly affect the flashing.
Roof Caulk								ACM Removal and Disposal	Refer to Contract Documents and architect's drawings, specifications for scope and extent of work. The ACM survey report that includes information about this room can be found in Specification Section 00 10 20. Abatement only needed if the planned renovation/demolition activities will directly affect the caulk.

**ENVIRONMENTAL SCOPE SHEETS  
CHICAGO PUBLIC SCHOOLS (CPS)**

Managing Environmental  
Consultant/Project No.:  
100% Issue Date:  
School:

Environmental Design International inc.  
05530-PS1651D-002  
December 10, 2012  
Alexander Graham Bell Elementary School, 3730 North Oakley Avenue

Room ID/Name:	Roof – Third Floor (continued)
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Room ID/Name	Component	N	E	S	W	Ceiling	Floor	Response Action	Comments
Roof Flashing Caulk								ACM Removal and Disposal	Refer to Contract Documents and architect's drawings, specifications for scope and extent of work. The ACM survey report that includes information about this room can be found in Specification Section 00 10 20. Abatement only needed if the planned renovation/demolition activities will directly affect the caulk.
Roof Caulk Patch								ACM Removal and Disposal	Refer to Contract Documents and architect's drawings, specifications for scope and extent of work. The ACM survey report that includes information about this room can be found in Specification Section 00 10 20. Abatement only needed if the planned renovation/demolition activities will directly affect the patch.

**Special Waste:**

Substrate	Component	Walls				Ceiling	Floor	Response Action	Comments
		N	E	S	W	C	F		
None								Not Applicable.	

**Note:** If the Abatement Contractor discovers material similar to previously identified ACM or LBP during the course of completing renovation and/or demolition activities and that material will be directly impacted during the course of performing any planned renovation and/or demolition activities, it should be treated/managed as ACM or LBP as appropriate. This includes materials discovered in previously inaccessible areas such as beneath or inside walls, in pipe chases, above the ceiling line, etc.

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**ENVIRONMENTAL SCOPE SHEETS  
CHICAGO PUBLIC SCHOOLS (CPS)**

Managing Environmental  
Consultant/Project No.:  
100% Issue Date:  
School:

Environmental Design International inc.  
05530-PS1651D-002  
December 10, 2012  
Alexander Graham Bell Elementary School, 3730 North Oakley Avenue

Room ID/Name:	Rooftop
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**LBP Areas:**

Substrate	Component	Walls				Ceiling	Floor	Response Action	Comments
		N	E	S	W	C	F		
None								Not Applicable	

**ACM Areas:**

Substrate	Component	Walls				Ceiling	Floor	Response Action	Comments
		N	E	S	W	C	F		
Roof Flashing								ACM Removal and Disposal	Refer to Contract Documents and architect's drawings, specifications for scope and extent of work. The ACM survey report that includes information about this room can be found in Specification Section 00 10 20. Abatement only needed if the planned renovation/demolition activities will directly affect the flashing.
Roof Caulk								ACM Removal and Disposal	Refer to Contract Documents and architect's drawings, specifications for scope and extent of work. The ACM survey report that includes information about this room can be found in Specification Section 00 10 20. Abatement only needed if the planned renovation/demolition activities will directly affect the caulk.
Roof Flashing Caulk								ACM Removal and Disposal	Refer to Contract Documents and architect's drawings, specifications for scope and extent of work. The ACM survey report that includes information about this room can be found in Specification Section 00 10 20. Abatement only needed if the planned renovation/demolition activities will directly affect the caulk.



**ENVIRONMENTAL SCOPE SHEETS  
CHICAGO PUBLIC SCHOOLS (CPS)**

Managing Environmental  
Consultant/Project No.:  
100% Issue Date:  
School:

Environmental Design International inc.  
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December 10, 2012  
Alexander Graham Bell Elementary School, 3730 North Oakley Avenue

Room ID/Name:	Rooftop (continued)
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Roof Caulk Patch										ACM Removal and Disposal	Refer to Contract Documents and architect's drawings, specifications for scope and extent of work. The ACM survey report that includes information about this room can be found in Specification Section 00 10 20. Abatement only needed if the planned renovation/demolition activities will directly affect the patch.
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**Special Waste:**

Substrate	Component	Walls				Ceiling	Floor	Response Action	Comments
		N	E	S	W	C	F		
None								Not Applicable	

**Note:** If the Abatement Contractor discovers material similar to previously identified ACM or LBP during the course of completing renovation and/or demolition activities and that material will be directly impacted during the course of performing any planned renovation and/or demolition activities, it should be treated/managed as ACM or LBP as appropriate. This includes materials discovered in previously inaccessible areas such as beneath or inside walls, in pipe chases, above the ceiling line, etc.

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**END OF ENVIRONMENTAL SCOPE SHEETS FOR ALEXANDER GRAHAM BELL ELEMENTARY.**

## SECTION 02 83 19.13

### LEAD-BASED PAINT MITIGATION/ABATEMENT

#### PART 1 - GENERAL

##### 1.1 INTRODUCTION

- A. The Illinois Department of Public Health (IDPH) regulations apply to all facilities occupied by children 6 years old or younger. The Chicago Department of Public Health inspects for, and regulates, lead contamination in all Chicago school facilities. Mitigation and/or abatement of all interior and exterior lead-bearing substances are covered by these specifications.

##### 1.2 DEFINITIONS:

- A. In addition to the terms listed below, all definitions in the laws and regulations specified elsewhere in this Section are incorporated by reference, whether or not restated herein.
- B. Abatement means the work area preparation, complete removal of lead-bearing substances, and cleanup of surrounding work area to prescribed levels of decontamination.
- C. Abatement Contractor (AC) means the entity responsible for performing the work in this Section, with the training and accreditation to competently perform the work. This entity shall obtain and maintain any licenses required for the work in this Section.
- D. Architect of Record (AOR) means the entity that assembles the overall documents and bid package, and approves the work.
- E. Board Authorized Representative means the entity responsible for overall project coordination and completion.
- F. CDPH means the Chicago Department of Public Health.
- G. Environmental Consultant (EC) means the entity with overall responsibility for the environmental aspects of the project, including design, organization, direction, oversight and control as well as investigations, assessments, and supervision of project manager.
- H. Environmental Project Manager (EPM) is the person selected by the EC to perform environmental monitoring and act on behalf of the CPS or its agents on the project.
- I. General Contractor (GC) means the entity responsible for performing the complete scope of work in the Documents. The GC may elect to self-perform or subcontract out any portion of the work. If the GC acts as the AC, it must have the same credentials, training, accreditations and licenses required by the AC.
- J. HEPA Filter means a High Efficiency Particulate Air filter capable of trapping 99.97% percent of particles greater than 0.3 micrometers in mass median aerodynamic equivalent diameter.
- K. IDPH means the Illinois Department of Public Health.

- L. Lead Abatement Contractor/Supervisor, hereinafter referred to as “supervisor” means any person who supervises lead abatement workers. This person must be trained, accredited, and licensed as required, and must also meet OSHA “competent person” criteria for lead abatement.
- M. Lead-Based Paint means paints or coatings that are lead bearing substances as defined by IDPH regulations referenced in Laws, Regulations and Standards specified elsewhere in this Section.
- N. Lead Bearing Soil means soil containing an amount of lead in excess of applicable guidelines.
- O. Lead Bearing Substance means any dust on surfaces or furniture or other non-permanent items and any paint or other surface coating material as defined by IDPH regulations referenced in Laws, Regulations and Standards specified elsewhere in this Section.
- P. Mitigation means work area preparation to repair lead-bearing substances to an intact state so that the lead bearing substance does not pose an immediate health hazard.
- Q. MSDS means Material Safety Data Sheet, required by OSHA for any chemical in the workplace that that could be expected to cause an exposure to workers during normal use or in emergency situations.
- R. OSHA means the federal Occupational Health and Safety Administration
- S. Plasticize means to apply plastic sheeting over surfaces or objects to protect them from contamination or water damage.
- T. RCRA means the Resource Conservation and Recovery Act and associated regulations as referenced in Laws, Regulations and Standards specified elsewhere in this Section.
- U. TCLP means the Toxicity Characteristic Leaching Procedure as specified in EPA 530/SW-846, Test Methods for Evaluating Solid Waste: Physical/Chemical Methods 3rd edition, November 1986
- V. Wet Cleaning means cleaning all surfaces with a phosphate-free lead dissolving detergent.
- W. Work Area means areas where lead mitigation and/or abatement activities are conducted.
- X. Work Site means the room or rooms undergoing lead mitigation and/or abatement activities. All closets/book rooms/coat hanger rooms/vestibules/washrooms within a room are considered part of the work site in which mitigation and/or abatement work has been identified on the drawings, whether or not they are numbered separately.

### 1.3 WORK INCLUDED

- A. The work includes all labor, equipment, materials, and supplies necessary to perform the Scope of Work in the Documents by the procedures described herein. The contractor, by submitting a bid for the work, represents itself as knowledgeable and expert in the performance of the work, and includes all things usually and customarily necessary to provide a complete and finished job, whether specifically mentioned or not. Related work may be shown in other related documents prepared by others, if applicable and as listed below:

1. Division 01 Section "Summary of Work."

2. Division 01 Section "Submittals."
  3. Division 01 Section "Project Record Documents."
  4. Division 02 Section "Asbestos Abatement - Interior."
  5. Division 02 Section "Asbestos Abatement - Exterior."
  6. Division 02 Section "Hazardous and Universal Waste Management."
  7. Division 09 Section "Painting."
  8. Division 09 Section "Renovation Painting."
  9. Division 09 Section "Surface Preparation for Renovation Painting."
- B. Clean-up of lead-bearing dust, flakes, and residues; mitigation and/or abatement of paint, architectural components, substrates, or other lead-bearing items listed in the Documents including pre-cleaning, moving of furnishings, establishing regulated areas, isolating the work areas, protection of adjacent surfaces, containment when required, cleanup and decontamination to the specified clearance levels, proper packaging and disposal of wastes, and all other steps necessary to complete the scope of work.
- C. Repair or replacement of damaged surfaces, fixtures, or furnishings to restore them to their pre-existing condition to the satisfaction of the Board Authorized Representative, EC and school engineer.
- D. When the Documents include lead and asbestos abatement items in the same spaces, they should be performed in the sequence and combinations that produce the most efficient results and the least amount of total waste. That sequence will generally be:
1. Cleanup and removal of failed or delaminated friable asbestos-containing debris, if any.
  2. Cleanup of lead dust, flakes, chips, and residues. If these lead wastes are mixed with asbestos debris, they must be disposed together as regulated lead waste or asbestos waste depending on TCLP results.
  3. Removal of friable asbestos materials and cleanup of visible residues.
  4. Removal of architectural components with lead-based paint still adhered, such as wood trim, doors, plaster, drywall, window frames, etc.
  5. Removal of non-friable asbestos materials from the exterior. If both asbestos and lead are on the same components, for example lead paint and asbestos-containing glazing compound, the components may be removed and disposed as construction debris as long as both the lead- and asbestos-bearing materials remain intact.
  6. Removal of lead-based paint, coatings, or surfacing material.
  7. Final cleanup and decontamination of the work space. Final air clearance (asbestos) and wipe samples (lead) may be performed concurrently.
  8. When lead and asbestos work is combined, the more stringent regulations and procedures shall apply for both.
  9. Waste disposal.
    - a. Classified waste: loose paint flakes, chips, and dust; lead cleaning and decontamination supplies; combined final decontamination supplies; contaminated soil; disposable suits, gloves, head covers, and foot covers; respirator, vacuum, or negative air machine filters; or other items likely to fail a TCLP or RCRA test.
    - b. Special waste: asbestos-containing waste materials and lead-contaminated waste that has passed TCLP or other RCRA tests.

- c. Construction and demolition (C&D) debris: lead-bearing architectural components; cleaned poly sheeting from lead projects; concrete and lumber without tile or mastic attached, demolition debris, and other general wastes.
  - d. All asbestos-containing or lead-bearing wastes shall be disposed in a facility permitted to accept asbestos-containing or lead-bearing waste materials.
- E. Compliance with all applicable laws, regulations, standards, and these specifications. In the case of a conflict, the contractor shall comply with the most stringent.
- F. All licenses, accreditations, permits, notifications, reports, or other documents required by law, regulation, this specification, or the Documents.

#### 1.4 SCOPE OF WORK:

- A. HUD regulation establishes that material with greater than 1.0 mg/cm<sup>2</sup> or 0.5% by weight is considered lead-based paint (LBP). Based on Niton X-ray fluorescence (XRF) readings taken at Bell School, the following materials will need to be mitigated or abated as LBP if they are impacted during the course of completing renovation and/or demolition activities related to the Bell School Addition and Renovation project:
- On the first floor,
    - the walls and ceiling of the lunchroom, the library (Room 106), the Boy's and Girl's bathrooms, Classroom 112 and the office (Room 100);
    - the walls of the main hallway, and the hallways to the north and south of the Auditorium;
    - the ceiling of the Auditorium;
    - the south wall of the MDF room; and
    - the walls and stair components at the south end of the main hallway;
  - On the second floor,
    - the walls and ceiling of the Auditorium Balcony and the Boy's and Girl's bathrooms;
    - the decorative features of the Auditorium Balcony;
    - the walls of the main hallway; and
    - the walls and stair components at the south end of the main hallway, the hallways to the north and south of the Auditorium Balcony;
  - On the third floor,
    - the walls and ceiling of the Boy's and Girl's bathrooms, Room 309, Room 314A, Room 314B, and the Gymnasium;
    - the metal rims of the basketball hoops in the Gymnasium; and
    - the walls of the main hallway and the stairwells near Rooms 305 and 307;
  - On the third floor roof, the metal downspout near the roof access way; and
  - The north fence.

Material locations and quantities should be verified by the contractor. The information provided in the LBP Survey Report included in Specification Section 00 10 20 of these Project Specifications is included for information only. Additionally, based on the use of

representative sampling areas (RSAs) during the LBP survey, encountered surface materials similar to those identified as LBP by the Niton XRF should also be considered to be LBP if encountered during renovation and/or demolition activities.

- B. More specific details regarding room by room mitigation and/or abatement are presented in the Scope Sheets included as Appendix A of this Section.
- C. If other suspect LBP is encountered by the AC during renovation/demolition activities, those materials must be assessed and then managed appropriately.

## 1.5 LAWS, REGULATIONS, AND STANDARDS

- A. PBC contractors shall maintain compliance with all applicable current laws, regulations, and standards including, but not limited to those listed below which are incorporated by reference:
  - 1. 410 ILCS 45: Illinois Lead Poisoning Prevention Act
  - 2. 7-4-110 & 7-4-120: Municipal Code of the City of Chicago
  - 3. 77IAC845: Illinois Lead Poisoning Prevention Code (Revision 8/1/2000)
  - 4. 29 CFR 1910: US OSHA General Industry Standards
  - 5. 29 CFR 1926: US OSHA Construction Standards
  - 6. HUD Guidelines: Lead Based Paint: Interim Guidelines for Hazard Identification and Abatement in Public and Indian Housing, except Chapter Seven (1995); Chapter 7 of the Guidelines, Lead Based Paint Inspection (Revised, 1997)
  - 7. 40 CFR Part 61: US EPA National Emissions Standards for Hazardous Air Pollutants (NESHAP)
  - 8. 40 CFR Part 261: Identification and Listing of Hazardous Waste (Resource Conservation and Recovery Act, RCRA)
- B. Regulatory changes shall be incorporated into this specification on their effective date. Contractors shall reflect these changes into ongoing projects without any additional notice or cost to the PBC or Chicago Public Schools.

## 1.6 ASSESSMENT, MONITORING, TESTING, AND ANALYSIS

- A. The EC will perform inspection, testing, and monitoring services during the work and upon its completion:
  - 1. Testing of coatings, soils, dust, and debris to determine the presence of lead or other hazardous substances.
  - 2. Area air monitoring during the work to determine the airborne concentrations of lead inside and outside of the work area. The EPM shall stop the work if airborne lead concentrations outside the work area exceed the OSHA Action Level of 30 micrograms per cubic meter of air ( $\mu\text{g}/\text{m}^3$ ) as an 8-hour time-weighted average. The work may re-start when the source of lead release has been identified and resolved, and corrective measures have been instituted to prevent recurrence.

B. The Abatement Contractor shall perform:

1. An Exposure Assessment prior to the start of the work to determine the requirements for respiratory protection and frequency of OSHA monitoring for each type of activity.
2. Perform OSHA compliance air monitoring to determine exposures to its employees in accordance with Laws, Regulations and Standards specified elsewhere in this Section.

C. Credentials required for analysis of lead:

1. Accreditation by AIHA or AALA; or
2. Participation in the Environmental Lead Proficiency Analytical Testing (ELPAT) program or Environmental Lead Laboratory Accreditation Program (ELLAP); or
3. Participation in the Proficiency in Analytical Testing (PAT) for metals analysis.

## 1.7 SUBMITTALS

A. The Abatement Contractor (AC) shall submit the following information to the EPM:

1. Written notification to Illinois Department of Public Health
2. Written Notification to CDPH.
3. Evidence that all contractor employees in the work areas are licensed, trained and accredited in accordance with OSHA, NESHAP, and EPA MAP requirements:
  - a. Current refresher training certificate.
  - b. Current IDPH lead license
  - c. Current physician's written opinion
  - d. Current respirator fit test data.
4. Copy of OSHA Exposure Assessment, if available.
5. OSHA compliance air monitoring records generated during the project.
6. Waste Shipment Records.
7. Worker license and certification log.
8. Material Safety Data Sheets (MSDS) for chemicals used on site.
9. Work Plan and Schedule.
10. Laboratory or analyst credentials and proficiency certificates for contractor samples.

B. Prior to beginning work, the AC shall submit required notifications to applicable regulatory agencies and receive an Owners Authorization and Notice to Occupants from Chicago Public Schools for buildings where lead mitigation and/or abatement will take place. The AC shall provide copies of all regulatory notices to the CPS Environmental Services Manager and the EPM within 24 hours of sending such notices to the regulatory authority. The AC shall not begin a project until such notices are provided to PBC, CPS and the EPM.

## 1.8 RECORDKEEPING

A. AC shall retain records for 6 years:

1. Name and address of the contractor who performed the project.
2. Location of the project.
3. Summary of mitigation and/or abatement techniques used.
4. Location of the disposal site for lead-based substances removed from the work site.

5. Starting and completion dates of the lead mitigation and/or abatement project.

## **PART 2 - PRODUCTS**

### **2.1 TOOLS AND EQUIPMENT:**

- A. All equipment shall at least conform to minimum industry standards.
- B. Equipment:
  1. Negative Air Machines shall provide HEPA filtration and conform to ANSI Z9.2 fabrication criteria.
  2. The AC should ensure that respirators are NIOSH approved for use with lead, asbestos, or other contaminants anticipated in the work.
  3. Contractor is fully responsible for complying with OSHA rules for other Safety equipment, such as hard hats, safety harnesses, eye protection, gloves, footwear, and any other safety devices used on the site.
- C. Tools:
  1. Shovels and scoops shall be suitable for use in a plasticized containment. Plastic or rubber models are preferred, but metal shovels are acceptable when used with care to prevent damage to poly sheeting and permanent surfaces. Appropriate tape may be applied to the leading edges to aid in poly damage prevention.
  2. Scrapers, wire and bristle brushes, utility knives and other hand tools shall be of good quality and suitable for the intended uses. The contractor shall keep an ample supply on hand for the completion of the work.
  3. Power tools such as, but not limited to saws, pneumatic chisels, brushes, sanders, and needle guns shall be equipped with shrouds and HEPA-filtered local exhaust systems to capture released particles.

### **2.2 MATERIALS**

- A. Installed materials which become a part of the work such as, but not limited to, primers, paints, surfacing compounds, and other surface coverings or finishes shall be new unless specified otherwise, of good quality, non-lead-bearing, and shall conform to the respective reinstallation specification sections.
- B. Mitigation and/or abatement materials
  1. Poly sheeting for all applications shall be 6 mil nominal thickness for all applications.
  2. Tape shall be 2" or 3" tape suitable for joining poly seams and attaching poly sheeting to surfaces.
  3. Spray adhesives shall be non-flammable and free of methylene chloride solvents.
  4. Chemicals used for LBP removal and cleanup shall be free of methylene chloride solvents. The chemicals shall be low-odor and free of volatile compounds.
  5. Disposal bags shall be 6 mil where used for single-bagging, and minimum 4 mil where used for double-bagging.
  6. Disposable suits, hoods, and foot coverings shall be TYVEK or similar.



7. Solvents shall be compatible with any primers, paints, coatings, or other surfacing materials to be installed following their use.
8. Cleaning solutions shall cause lead to chelate, precipitate, or otherwise effectively release lead from surfaces. Cleaning solutions shall not leave residue on surfaces to be painted.

### **PART 3 - EXECUTION**

#### **3.1 EMPLOYEE TRAINING, QUALIFICATION AND MEDICAL SCREENING**

- A. Supervisors and Workers shall be trained, accredited, and licensed in accordance with IDPH rules.
  1. Contractor shall keep current, up-to-date copies of licenses at the job site at all times.
  2. A licensed supervisor (competent person) shall be present at the work site at all times when work under this Section is being conducted.
- B. Medical Screening shall be instituted for contractor's employees in accordance with regulations referenced in Laws, Regulations and Standards specified elsewhere in this Section. Medical certificates shall be current.

#### **3.2 PERMISSIBLE LIMITS**

- A. Permissible Limits of lead in lead bearing substances. Substances with lead content below the following levels are not regulated and are not subject to the requirements of this Section:
  1. 5,000 parts per million (ppm), or 0.5% lead by weight in any substance. However, note that OSHA regulations apply to any operation that releases lead into the air in concentrations in excess of the action level of  $30 \mu\text{g}/\text{m}^3$  (see Permissible Exposure Limits for contractor employees below), and the CDPH shall require remedial action when dust contains greater than  $40 \mu\text{g}/\text{sf}$  (see sub-paragraph below) of surface area. Actions such as sandblasting, dry sanding, or other dry aggressive abrasive disturbances can generate lead concentrations greater than either of these limits on substances with lower lead contents and, in such instances, shall be required to adhere to this specification, regardless of substance lead content.
  2. 400 micrograms per gram ( $\mu\text{g}/\text{g}$ ) of soil in high contact play areas.
  3. 400 micrograms per gram ( $\mu\text{g}/\text{g}$ ) of soil in other areas.
  4. 40 micrograms per square foot ( $\mu\text{g}/\text{sf}$ ) of surface area of dust on interior floors.
  5. 200 micrograms per square foot ( $\mu\text{g}/\text{sf}$ ) of surface area of dust on other surfaces.
- B. Permissible Exposure Limits for contractor employees:
  1. No person shall be exposed to a lead concentration in excess the regulations referenced in Laws, Regulations and Standards specified elsewhere in this Section.
  2. Where exposures exceed regulated levels, medical monitoring shall be instituted by the AC in accordance with the regulations referenced in Laws, Regulations and Standards specified elsewhere in this Section.

### 3.3 EXPOSURE ASSESSMENT AND MONITORING

- A. The AC shall make an assessment of the exposures expected by the tasks to be used for the scope of work listed in the Documents. Assessment may be based upon:
1. Initial monitoring of representative workers who the contractor believes are exposed to the greatest airborne concentrations of lead, or
  2. Past monitoring (within the past 12 months) or objective data for conditions closely resembling the processes, type of material, control methods, work practices and environmental conditions to be used for this Documents, or
  3. In the absence of an exposure assessment or monitoring, the contractor shall assume the following exposure conditions:
    - a.  $\leq 400 \mu\text{g}/\text{m}^3$  for manual demolition of lead-bearing substances (i.e., drywall, other architectural components), manual scraping, manual sanding, heat gun use, and power tool cleaning with dust collection systems, or any other task where there is reason to believe an employee may be exposed to airborne lead.
    - b.  $\leq 2,500 \mu\text{g}/\text{m}^3$  for lead burning, rivet busting, power tool cleaning without dust collection systems, cleanup of dry spent abrasives, or movement or removal of abrasive blasting enclosures.
    - c.  $> 2,500 \mu\text{g}/\text{m}^3$  for abrasive blasting, welding, cutting, and torch burning.
- B. The contractor shall perform personal monitoring in accordance with the regulations referenced in Laws, Regulations and Standards specified elsewhere in this Section.
- C. The contractor may be required to perform air monitoring outside the work area if there is observance of contamination escape from the work area (such as dust accumulation), or evidence of failure of control methods to contain the release of airborne lead particles.

### 3.4 RESPIRATORY PROTECTION

- A. Respiratory protection shall be worn in accordance with all applicable regulations referenced in Laws, Regulations and Standards specified elsewhere in this Section.

### 3.5 HYGIENE PRACTICES

- A. Eating, drinking, smoking, and applying of cosmetics are not allowed in the work site or area.
- B. A changing area and shower shall be provided for changing into and removing personal protective clothing, and for showering or washing before leaving the work area. Any person leaving the work site or work area shall rinse his or her mouth with potable water and wash hands and face thoroughly before eating drinking, or smoking. A portable lavatory facility, potable water supply, or portable decontamination unit shall be provided by the contractor for the washing of face and hands before any mitigation and/or abatement activities are started. School lavatory facilities shall not be used.
- C. Equipment decontamination procedures shall be employed to prevent the spread of lead contamination. Disposable items shall not be reused and shall be disposed of properly.
- D. Personal Protection Equipment (PPE) shall include:

1. Full body suits with hoods and shoe covers. Tyvek or similar disposable suits may be worn only once, and must be disposed in accordance with the Waste Disposal Section.
2. Appropriate PPE shall be used as required by regulations referenced in Laws, Regulations and Standards specified elsewhere in this Section and established industry practice.

### 3.6 PROHIBITED ACTIVITIES

#### A. The following methods shall not be permitted:

1. open flame burning
2. dry-sanding
3. uncontained hydro-blasting or sandblasting
4. use of methylene chloride
5. dry-scraping

### 3.7 WORK AREA ISOLATION AND PREPARATION

#### A. General Preparation

1. Post caution signs at all entrances and exits to the work area in accordance with OSHA rules:
  - a. at least 20" x 14"
  - b. date and location of the lead mitigation and/or abatement project
  - c. Wording at least 2" high stating, "Caution, Lead Hazard, Do Not Remain in Work Area Unless Authorized"
2. Secure the work area from entry by children, pregnant women, school staff or other unauthorized persons.
3. Close off the work site from other portions of the building by closing doors tightly, taping shut when necessary, or with 6 mil poly z-flap curtains over doorways or entrances to the work site.
4. At work area exit, provide walk-off pan, wet towel, or other means to prevent tracking lead contamination to other parts of the facility. A protective liner that is watertight shall be placed under the walk-off pan, wet towel, to prevent damage to the underlying surface.

#### B. Interior Preparation

1. Furniture, personal items, and other moveable objects in the work site shall be protected with 6 mil poly sheeting and sealed with tape, or moved from the work site and stored in a location designated by the EC. Items shall be cleaned before being moved to another area to prevent cross-contamination.
2. Turn off all forced air ventilation and seal exhaust and intake points in the worksite.
3. Turn off electrical circuits in the work area to isolate them from contact. Provide temporary power equipped with Ground-Fault Circuit Interrupter (GFCI) devices to prevent electric hazards in the wet working environments. Power cords must be in good condition, not spliced, not more than 100 feet long, and shall be suspended off the floor and out of workers' way to protect the cords from damage. Cords must not be fastened with staples, hung from nails, or suspended with wire.

4. Seal the opening seams of all food storage units, such as cabinets or refrigerators, or cover with poly sheeting taped securely in place.
5. Cover all objects that cannot be moved, such as radiators, stoves, cabinets, built-in furniture, bookcases, or other stationary items with 6 mil plastic sheeting taped securely in place.
6. If required by the scope of work, remove all carpeting from the work site. Lightly mist with water prior to removal to prevent lead dust exposure. Carpeting shall be professionally cleaned or replaced, if required by scope of work.
7. Cover and protect floors in the work site with 6 mil plastic sheeting, sealed with tape. Additional protection may be required to protect flooring materials from potential damages resulting from the mitigation and/or abatement processes. All additional protection shall be provided as needed to ensure that all building surfaces will be adequately protected during the mitigation and/or abatement processes and be included in the base bid.
8. Establish a negative pressure system to prevent contaminated air from escaping from the work site to uncontaminated areas, and consisting of:
  - a. Negative air machines (NAMs) exhausted from the work site, and vented to the outside of the building whenever possible.
  - b. Provide sufficient number of NAMs to provide a negative pressure of 0.02" wc between the work area and adjacent spaces, and 4 air changes per hour. Assume NAMs operate at 80% of design capacity. At least one backup NAM shall be available per work site.
  - c. The negative air system shall remain in continuous operation until cleanup and clearance is achieved.

C. Exterior Preparation

1. 6 mil plastic sheeting shall be placed over the ground, foundation, or other surfaces adjacent to or below the mitigation and/or abatement area.
2. Close or otherwise seal windows, grilles, intakes, or other nearby openings (above, below, or beside) that could be exposed to airborne dust from the work.
3. Sheeting shall extend out from the foundation 3 feet per story to be abated, with a minimum of 5 feet and a maximum of 20 feet. This sheeting shall remain in place until completion of final cleaning.
4. Sheeting shall be secured at the foundation and along all edges and seams.
5. When liquid waste is produced by any mitigation and/or abatement method used, the edges of the plastic sheeting shall be raised a sufficient distance to contain the liquid waste.

3.8 LEAD MITIGATION

Lead mitigation may be used as an interim method for repairs to lead-bearing surfaces to stabilize, secure, or cover them.

- A. Work area preparation shall comply with requirements specified in Part 3 of this Section.

- B. All loose paint, coatings, or coverings that contain lead or are applied to a lead-bearing surface shall be moistened and carefully scraped from surfaces back to where materials are solidly adhered.
  - 1. Lead-based paint mitigation practices shall be compatible with, and shall produce surfaces that are in conformance with Section 099103 of these documents, "Surface Preparation for Renovation Painting.
  - 2. Where called out in the documents, scraped areas shall be smoothed out by feathering or by filling with a surfacing compound.
  - 3. Where called out in the documents, areas from which paint has been removed shall be coated with a primer, such as "KILZ" or similar or as specified in the installation specifications, which shall be compatible with the new paint, coating or surfacing material to be re-applied.
  - 4. Areas to be repainted, the new paint, coating, or covering shall be compatible with the existing paint and primer, or shall have a surfacing treatment, sizing, bonding agent, or primer recommended by the paint, coating, or covering manufacturer to assure a proper and lasting bond with the substrate surface.
  
- C. Any nearby surfaces that have accumulated dust shall be cleaned by damp mopping with a cleaning solution.

### 3.9 LEAD ABATEMENT

- A. General.
  - 1. Unless otherwise specified in the Documents, lead-bearing substances listed in the Documents shall be removed by methods that minimize the generation of dust or debris.
  - 2. Lead-based paint abatement practices shall be compatible with, and shall produce surfaces that are in conformance with Division 09 Sections "Painting", "Surface Preparation for Renovation Painting" and "Renovation Painting."
  - 3. Where existing lead-bearing substances may be disturbed by the installation of new work, they shall be removed sufficiently to prevent such disturbances.
  - 4. Following any window dismantlement activity in the work area, the abatement contractor shall wet scrape the loose paint off the exposed window lintel and prepare, seal, prime and paint the lintel surface. If the lintel is to be replaced as required by the architect, the abatement contractor shall only remove all the loose paint and not repaint the lintel surface.
  - 5. Where disturbances of lead-bearing substances produce dust, the dust must be assumed to contain lead until tested and proven otherwise. Dust suppression methods, such as misting with water and HEPA vacuums shall be used.
  - 6. Movement of lead-bearing wastes through unsecured school areas:
    - a. Wastes shall be contained in 6 mil impermeable (i.e. poly) bags.
    - b. Architectural components and other debris shall be wrapped in 6 mil plastic sheeting and sealed with tape.
    - c. Load-out only during non-school hours.
    - d. Dust and debris shall not be tracked or spilled outside the work site. In the event of spillage or tracking, contractor shall HEPA vacuum visible debris and wet wipe all affected areas with a non-TSP lead-dissolving detergent solution.

B. Interior Abatement methods may include:

1. Removal and replacement of the component or surface.
2. Wet scraping of lead-bearing material.
3. Heat gun with operating temperatures not to exceed 700° F.
4. Nonflammable chemical strippers shall not contain methylene chloride. This method is generally used with unique, irreplaceable, architecturally, or historically significant components. Chemical strippers shall be compatible with new paints, coverings, or coatings to be installed.
5. Sander, needle gun, chipper, scarifier, or other mechanical paint removal system. All such power tools shall be equipped with a HEPA vacuum collection system.
6. Enclosure with a durable material or coating that does not readily tear or peel, such as but not limited to, gypsum board; fiberglass mats; canvas-backed vinyl wall coverings; high pressure, laminated plastic sheet, such as Formica®, tile, vinyl flooring, paneling, plastic, metal, or wood. Enclosures shall only be used when specified in the Documents.

C. Exterior abatement methods may include:

1. All methods listed under Interior Abatement
2. Vacuum-blasting
3. Contained hydro-blasting or sandblasting
4. When vacuum-blasting or contained hydro-blasting is used, window interiors shall be sealed with 6 mil plastic sheeting and secured with waterproof tape. All seals shall be checked every two (2) hours to assure integrity. Leaks shall be repaired immediately.
5. Window replacement:
  - a. The room interior shall be sealed off and protected from dust entry. If windows are removed from the inside, the room must be fully protected in accordance with Work Area Isolation and Preparation “Interior Preparation” and “Exterior Preparation” specified elsewhere in Part 3. When windows are removed from the outside, protection must be in accordance Work Area Isolation and Preparation “Exterior Preparation” specified elsewhere in Part 3, including at least a seal over the wall immediately inside the window work area. In either case, the Abatement Contractor is responsible for preventing lead dust contamination of interior spaces.
  - b. Damaged lead-based paint must be removed from the wood window frame parts that will remain, both on the inside and on the outside. EC will direct the AC whether to abate or mitigate undamaged lead-based paint from wood window frames or frame parts on a case by case basis.
  - c. Metal window replacements: The contractor is cautioned that high concentrations of lead dust and asbestos containing caulk have been found behind the window frame caps installed over the original lead-based painted frames during previous window replacements. Although a lead license is not required for non-LBP metal window removal, contractor must assume that he or she may encounter concentrated lead dust. When removing these caps, the room interior shall be protected in accordance with Work Area Isolation and Preparation “Interior Preparation” specified elsewhere in Part 3.

D. Soil Removal or Remediation:

1. Identify and eliminate the source of lead contamination if possible, to prevent re-contamination of remediated soil.
2. Dust generation shall be held to a minimum and dust suppression methods shall be performed, such as misting with water during handling.
3. Monitoring of airborne dust shall be performed by the EC and shall not exceed acceptable levels.
4. Soil that is stockpiled prior to disposal shall be:
  - a. placed on a layer of impermeable plastic;
  - b. kept moist to avoid dust generation; and
  - c. covered with impermeable plastic which is secured to the ground.
5. Soil shall be subjected to a TCLP test to determine waste classification.
6. Contaminated soil shall be transported to disposal facility in sealed containers or covered vehicles. Care shall be taken to prevent tracking of contaminated soil off-site by vehicular or foot traffic.

E. Demolition. Structural demolition of buildings does not require removal of lead-bearing substances or lead-licensed contractors or workers. However, the following minimum requirements must be observed to prevent spread of lead contamination:

1. Close windows and seal doors of adjacent or nearby structures. Cover air intakes or other openings on facing walls or roof areas where dust could enter.
2. Mist the demolition activities with water to suppress dust release.
3. Do not spread debris outside the immediate demolition area.
4. Do not allow foot or other traffic through the demolition area that may spread lead-bearing dust to other building areas.
5. Pulverized painted components may generate lead dust that may require TCLP testing and waste characterization prior to disposal.

3.10 CLEANING AND DECONTAMINATION

A. Interior Cleaning includes any furniture, cabinets, or other item that was located in the work area during the lead-based paint mitigation and/or abatement activities.

1. Properly containerize and remove all lead wastes from the work site.
2. HEPA vacuum all surfaces including woodwork, walls, windows, window wells, and floors.
3. Wet clean all surfaces with a cleaning solution.
4. Allow all surfaces to dry and HEPA vacuum any remaining visible residue.

B. Exterior Cleaning.

1. Recover all visible debris from exterior areas.
2. HEPA vacuum surfaces that have been abated, paying particular attention to horizontal surfaces, such as window sills, wells, mullions, ledges, etc., both in the abated area and on nearby windows and surfaces.

### 3.11 FINAL CLEARANCE

- A. A lead mitigation and/or abatement work area shall be complete if lead dust levels on horizontal interior surfaces are below 40 micrograms per square foot ( $\mu\text{g}/\text{sf}$ ) on floors or 200 micrograms per square foot ( $\mu\text{g}/\text{sf}$ ) on other surfaces. At least 3 wipe samples per contained work area shall be collected from floors, window sills, countertops, tops of cabinets, or other representative surfaces.
- B. The contractor shall restore the work area to usable condition including reconnection of electrical, water and HVAC services, removal of barriers and contractor equipment, waste removal and disposal and returning furniture removed as required by Work Area Isolation and Preparation specified elsewhere in Part 3.

### 3.12 WASTE DISPOSAL

- A. All plaster, paint chips, lead dust, cleaning supplies, HEPA filters, vacuum contents and filters, disposable suits, and other concentrated lead-bearing waste shall be packed in at least two 6 mil plastic bags.
  - 1. Dispose of concentrated lead wastes separately from architectural components.
  - 2. Subject concentrated wastes to TCLP test to determine waste classification.
  - 3. Prepare a Waste Shipment Record, to be signed by the generator, shipper, and disposal site; to be returned to the generator within 45 days. IEPA and USEPA Generator I.D. numbers shall be provided by CSA Environmental Program staff.
- B. Architectural components, other items to which lead-based paint remains adhered, and cleaned plastic sheeting may be disposed of as common construction and demolition debris. Components shall be wrapped in 6 mil plastic sheeting and sealed with tape. Components shall be transported after school hours if carried through the building.
- C. All lead-bearing wastes shall be stored in covered, locked containers until transported off-site.
- D. Remove lead waste from the work site in accordance with RCRA and special waste disposal requirements.
- E. Transport all non-hazardous wastes in covered vehicles to an IEPA-approved landfill located within the State of Illinois.
- F. Transport all hazardous wastes in covered vehicles to a hazardous waste landfill permitted to accept lead wastes.
- G. Wastes from the site shall not be mixed with wastes from other sites.

ATTACHMENT: Appendix A – Environmental Scope Sheets

**END OF SECTION**



**APPENDIX A**

**ENVIRONMENTAL SCOPE SHEETS**

**ENVIRONMENTAL SCOPE SHEETS  
CHICAGO PUBLIC SCHOOLS (CPS)**

Managing Environmental  
Consultant/Project No.:  
100% Issue Date:  
School:

Environmental Design International inc.  
05530-PS1651D-002  
December 10, 2012  
Alexander Graham Bell Elementary School, 3730 North Oakley Avenue

Room ID/Name:	Boy's/Southwest Bathroom, including entrance vestibule – First Floor
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**LBP Areas:**

Substrate	Component	Walls				Ceiling	Floor	Response Action	Comments
		N	E	S	W	C	F		
Plaster	Wall	X	X	X	X	X		LBP Mitigation Stabilize Paint, Prepare and Prime as needed for completion for scope of work.	Refer to Contract Documents and architect's drawings, specifications for scope and extent of work. The LBP survey report that includes information about this room can be found in Specification Section 00 10 20. Bathroom is targeted for complete renovation, therefore, all material should be treated as LBP and addressed accordingly.

**ACM Areas:**

Substrate	Component	Walls				Ceiling	Floor	Response Action	Comments
		N	E	S	W	C	F		
Mudded Fittings								ACM Removal and Disposal	Refer to Contract Documents and architect's drawings, specifications for scope and extent of work. The ACM survey report that includes information about this room can be found in Specification Section 00 10 20.
Preformed Pipe Insulation								ACM Removal and Disposal	Refer to Contract Documents and architect's drawings, specifications for scope and extent of work. The ACM survey report that includes information about this room can be found in Specification Section 00 10 20.

**ENVIRONMENTAL SCOPE SHEETS  
CHICAGO PUBLIC SCHOOLS (CPS)**

Managing Environmental Consultant/Project No.:	Environmental Design International inc. 05530-PS1651D-002
100% Issue Date:	December 10, 2012
School:	Alexander Graham Bell Elementary School, 3730 North Oakley Avenue

Room ID/Name:	Boy's/Southwest Bathroom, including entrance vestibule – First Floor (continued)
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**Special Waste:**

Substrate	Component	Walls				Ceiling	Floor	Response Action	Comments
		N	E	S	W	C	F		
Mercury Fluorescent Light Bulbs and light ballasts								Removal and Disposal as Special/Universal Waste.	Refer to Contract Documents and architect's drawings, specifications for scope and extent of work. The Haz Mat survey report that includes information about this area can be found in Specification Section 00 10 20. If planned renovation/demolition activities will impact light bulbs and ballasts, that material should be treated as Haz Mat/Universal Waste and addressed accordingly.

**Note:** If the Abatement Contractor discovers material similar to previously identified ACM or LBP during the course of completing renovation and/or demolition activities and that material will be directly impacted during the course of performing any planned renovation and/or demolition activities, it should be treated/managed as ACM or LBP as appropriate. This includes materials discovered in previously inaccessible areas such as beneath or inside walls, in pipe chases, above the ceiling line, etc.

Only LBP described as being in poor or fair condition typically will need to be mitigated or stabilized unless it is directly affected by planned renovation and/or demolition activities.

CPS/Bell School personnel will be responsible for the management of the mercury-containing light bulbs, light ballasts, and select other Hazardous Materials, identified at Bell School. The Abatement Contractor should confirm with PBC and/or the EC which specific Hazardous Materials need to be managed/disposed of.

**ENVIRONMENTAL SCOPE SHEETS  
CHICAGO PUBLIC SCHOOLS (CPS)**

Managing Environmental  
Consultant/Project No.:  
100% Issue Date:  
School:

Environmental Design International inc.  
05530-PS1651D-002  
December 10, 2012  
Alexander Graham Bell Elementary School, 3730 North Oakley Avenue

Room ID/Name:	South End of Main Hallway – First Floor
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**LBP Areas:**

Substrate	Component	Walls				Ceiling	Floor	Response Action	Comments
		N	E	S	W	C	F		
Plaster	Wall			X	X	X		LBP Mitigation Stabilize Paint, Prepare and Prime as needed for completion for scope of work.	Refer to Contract Documents and architect's drawings, specifications for scope and extent of work. The LBP survey report that includes information about this area can be found in Specification Section 00 10 20. Lower portion of south wall and middle and upper portions of West wall require mitigation/stabilization if impacted by the planned renovation/demolition activities. If work related to replacement of above ceiling water lines will impact plaster ceiling, the ceiling material should be treated as LBP and addressed accordingly. If replacement of Emergency lighting battery packs and Exit signs impact plaster ceiling, the material should be treated as LBP and addressed accordingly.
Metal	Stair Handrail			X				LBP Mitigation Stabilize Paint, Prepare and Prime as needed for completion for scope of work.	Refer to Contract Documents and architect's drawings, specifications for scope and extent of work. The LBP survey report that includes information about this area can be found in Specification Section 00 10 20. Mitigation/stabilization is only necessary if the stairs are directly impacted by the planned renovation/demolition activities.
Metal	Stair Stringer			X				LBP Mitigation Stabilize Paint, Prepare and Prime as needed for completion for scope of work.	Refer to Contract Documents and architect's drawings, specifications for scope and extent of work. The LBP survey report that includes information about this area can be found in Specification Section 00 10 20. Mitigation/stabilization is only necessary if the stairs are directly impacted by the planned renovation/demolition activities.

**ENVIRONMENTAL SCOPE SHEETS  
CHICAGO PUBLIC SCHOOLS (CPS)**

Managing Environmental  
Consultant/Project No.:  
100% Issue Date:  
School:

Environmental Design International inc.  
05530-PS1651D-002  
December 10, 2012  
Alexander Graham Bell Elementary School, 3730 North Oakley Avenue

Room ID/Name:	South End of Main Hallway – First Floor (continued)
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**ACM Areas:**

Substrate	Component	Walls				Ceiling	Floor	Response Action	Comments
		N	E	S	W	C	F		
Preformed Pipe Insulation								ACM Removal and Disposal	Refer to Contract Documents and architect's drawings, specifications for scope and extent of work. The ACM survey report that includes information about this area can be found in Specification Section 00 10 20. Material at this location is not included in the ACM Log, however, it is known to exist between the drop ceiling and plaster ceiling along the length of the hallway. If it will be impacted by the planned renovation/demolition activities, it must be managed accordingly as ACM.

**Special Waste:**

Substrate	Component	Walls				Ceiling	Floor	Response Action	Comments
		N	E	S	W	C	F		
Battery Pack for Emergency Lighting								Removal and Disposal as Special/Universal Waste.	Refer to Contract Documents and architect's drawings, specifications for scope and extent of work. The Haz Mat survey report that includes information about this area can be found in Specification Section 00 10 20.

**Note:** If the Abatement Contractor discovers material similar to previously identified ACM or LBP during the course of completing renovation and/or demolition activities and that material will be directly impacted during the course of performing any planned renovation and/or demolition activities, it should be treated/managed as ACM or LBP as appropriate. This includes materials discovered in previously inaccessible areas such as beneath or inside walls, in pipe chases, above the ceiling line, etc.

Only LBP described as being in poor or fair condition typically will need to be mitigated or stabilized unless it is directly affected by planned renovation and/or demolition activities.

CPS/Bell School personnel will be responsible for the management of the mercury-containing light bulbs, light ballasts, and select other Hazardous Materials, identified at Bell School. The Abatement Contractor should confirm with PBC and/or the EC which specific Hazardous Materials need to be managed/disposed of.

**ENVIRONMENTAL SCOPE SHEETS  
CHICAGO PUBLIC SCHOOLS (CPS)**

Managing Environmental  
Consultant/Project No.:  
100% Issue Date:  
School:

Environmental Design International inc.  
05530-PS1651D-002  
December 10, 2012  
Alexander Graham Bell Elementary School, 3730 North Oakley Avenue

Room ID/Name:	MDF Room – First Floor
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**LBP Areas:**

Substrate	Component	Walls				Ceiling	Floor	Response Action	Comments
		N	E	S	W	C	F		
Plaster	Wall	X	X	X	X			LBP Mitigation Stabilize Paint, Prepare and Prime as needed for completion for scope of work.	Refer to Contract Documents and architect's drawings, specifications for scope and extent of work. The LBP survey report that includes information about this room can be found in Specification Section 00 10 20. Upper portion of south wall should be mitigated/stabilized if directly impacted by the planned renovation/demolition activities.

**ACM Areas:**

Substrate	Component	Walls				Ceiling	Floor	Response Action	Comments
		N	E	S	W	C	F		
None								Not Applicable	

**Special Waste:**

Substrate	Component	Walls				Ceiling	Floor	Response Action	Comments
		N	E	S	W	C	F		
Mercury Fluorescent Light Bulbs and light ballasts								Removal and Disposal as Special/Universal Waste.	Refer to Contract Documents and architect's drawings, specifications for scope and extent of work. The Haz Mat survey report that includes information about this area can be found in Specification Section 00 10 20. If planned renovation/demolition activities will impact light bulbs and ballasts, that material should be treated as Haz Mat/Universal Waste and addressed accordingly.

**Note:** If the Abatement Contractor discovers material similar to previously identified ACM or LBP during the course of completing renovation and/or demolition activities and that material will be directly impacted during the course of performing any planned renovation and/or demolition activities, it should be treated/managed as ACM or LBP as appropriate. This includes materials discovered in previously inaccessible areas such as beneath or inside walls, in pipe chases, above the ceiling line, etc.

Only LBP described as being in poor or fair condition typically will need to be mitigated or stabilized unless it is directly affected by planned renovation and/or demolition activities.

**ENVIRONMENTAL SCOPE SHEETS  
CHICAGO PUBLIC SCHOOLS (CPS)**

Managing Environmental Consultant/Project No.:	Environmental Design International inc.
100% Issue Date:	05530-PS1651D-002
School:	December 10, 2012
	Alexander Graham Bell Elementary School, 3730 North Oakley Avenue

CPS/Bell School personnel will be responsible for the management of the mercury-containing light bulbs, light ballasts, and select other Hazardous Materials, identified at Bell School. The Abatement Contractor should confirm with PBC and/or the EC which specific Hazardous Materials need to be managed/disposed of.

**ENVIRONMENTAL SCOPE SHEETS  
CHICAGO PUBLIC SCHOOLS (CPS)**

Managing Environmental  
Consultant/Project No.:  
100% Issue Date:  
School:

Environmental Design International inc.  
05530-PS1651D-002  
December 10, 2012  
Alexander Graham Bell Elementary School, 3730 North Oakley Avenue

Room ID/Name:	Room 118 – First Floor
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**LBP Areas:**

Substrate	Component	Walls				Ceiling	Floor	Response Action	Comments
		N	E	S	W	C	F		
Plaster	Wall					X		LBP Mitigation Stabilize Paint, Prepare and Prime as needed for completion for scope of work.	Refer to Contract Documents and architect's drawings, specifications for scope and extent of work. The LBP survey report that includes information about this room can be found in Specification Section 00 10 20. If work related to replacement of above ceiling water lines will impact plaster ceiling, that material should be treated as LBP and addressed accordingly.

**ACM Areas:**

Substrate	Component	Walls				Ceiling	Floor	Response Action	Comments
		N	E	S	W	C	F		
Preformed Pipe Insulation								ACM Removal and Disposal	Refer to Contract Documents and architect's drawings, specifications for scope and extent of work. The ACM survey report that includes information about this room can be found in Specification Section 00 10 20. Material at this location is not included in ACM Log, however, it is known to exist between the drop ceiling and plaster ceiling. If it will be impacted by renovation/ demolition activities, it must be managed accordingly as ACM.



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Room ID/Name:	Room 118 – First Floor (continued)
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**Special Waste:**

Substrate	Component	Walls				Ceiling	Floor	Response Action	Comments
		N	E	S	W	C	F		
Mercury Fluorescent Light Bulbs and light ballasts								Removal and Disposal as Special/Universal Waste.	Refer to Contract Documents and architect’s drawings, specifications for scope and extent of work. The Haz Mat survey report that includes information about this area can be found in Specification Section 00 10 20. If planned renovation/demolition activities will impact light bulbs and ballasts, that material should be treated as Haz Mat/Universal Waste and addressed accordingly.

**Note:** If the Abatement Contractor discovers material similar to previously identified ACM or LBP during the course of completing renovation and/or demolition activities and that material will be directly impacted during the course of performing any planned renovation and/or demolition activities, it should be treated/managed as ACM or LBP as appropriate. This includes materials discovered in previously inaccessible areas such as beneath or inside walls, in pipe chases, above the ceiling line, etc.

Only LBP described as being in poor or fair condition typically will need to be mitigated or stabilized unless it is directly affected by planned renovation and/or demolition activities.

CPS/Bell School personnel will be responsible for the management of the mercury-containing light bulbs, light ballasts, and select other Hazardous Materials, identified at Bell School. The Abatement Contractor should confirm with PBC and/or the EC which specific Hazardous Materials need to be managed/disposed of.

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Alexander Graham Bell Elementary School, 3730 North Oakley Avenue

Room ID/Name:	Lunchroom, including Kitchen, north and south storage rooms – First Floor
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**LBP Areas:**

Substrate	Component	Walls				Ceiling	Floor	Response Action	Comments
		N	E	S	W	C	F		
Plaster	Wall		X		X	X		LBP Mitigation Stabilize Paint, Prepare and Prime as needed for completion for scope of work.	Refer to Contract Documents and architect's drawings, specifications for scope and extent of work. The LBP survey report that includes information about this room can be found in Specification Section 00 10 20. Upper portion of east and west walls, soffit on east wall and ceilings should only be mitigated/stabilized if directly impacted by the planned renovation/demolition activities. Kitchen is at north end of space and is being converted into the library. If work related to replacement of above ceiling water lines will impact plaster ceiling, the ceiling material should be treated as LBP and addressed accordingly.

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Room ID/Name:	Lunchroom, including Kitchen, north and south storage rooms – First Floor (continued)
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**ACM Areas:**

Substrate	Component	Walls				Ceiling	Floor	Response Action	Comments
		N	E	S	W	C	F		
Mastic	Vinyl Floor Tile						X	ACM Removal and Disposal	Refer to Contract Documents and architect's drawings, specifications for scope and extent of work. The ACM survey report that includes information about this room can be found in Specification Section 00 10 20. Remove all floor tile (12" x 12" and 9" x 9") and mastic throughout the space.
Preformed Pipe Insulation								ACM Removal and Disposal.	Refer to Contract Documents and architect's drawings, specifications for scope and extent of work. The ACM survey report that includes information about this room can be found in Specification Section 00 10 20. Material at this location is not included in ACM Log, however, it is known to exist between the drop ceiling and plaster ceiling. If it will be impacted by renovation/demolition activities, it must be managed accordingly as ACM.

**Special Waste:**

Substrate	Component	Walls				Ceiling	Floor	Response Action	Comments
		N	E	S	W	C	F		
Mercury Fluorescent Light Bulbs and light ballasts								Removal and Disposal as Special/Universal Waste.	Refer to Contract Documents and architect's drawings, specifications for scope and extent of work. The Haz Mat survey report that includes information about this area can be found in Specification Section 00 10 20. If planned renovation/demolition activities will impact light bulbs and ballasts, that material should be treated as Haz Mat/Universal Waste and addressed accordingly.

**Note:** If the Abatement Contractor discovers material similar to previously identified ACM or LBP during the course of completing renovation and/or demolition activities and that material will be directly impacted during the course of performing

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any planned renovation and/or demolition activities, it should be treated/managed as ACM or LBP as appropriate. This includes materials discovered in previously inaccessible areas such as beneath or inside walls, in pipe chases, above the ceiling line, etc.

Only LBP described as being in poor or fair condition typically will need to be mitigated or stabilized unless it is directly affected by planned renovation and/or demolition activities.

CPS/Bell School personnel will be responsible for the management of the mercury-containing light bulbs, light ballasts, and select other Hazardous Materials, identified at Bell School. The Abatement Contractor should confirm with PBC and/or the EC which specific Hazardous Materials need to be managed/disposed of.

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Room ID/Name:	Hallway north of Lunchroom/kitchen/Hallway south of Warm Air and Engine and Blower Rooms – First Floor
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**LBP Areas:**

Substrate	Component	Walls				Ceiling	Floor	Response Action	Comments
		N	E	S	W	C	F		
Plaster	Ceiling					X		LBP Mitigation Stabilize Paint, Prepare and Prime as needed for completion for scope of work.	Refer to Contract Documents and architect's drawings, specifications for scope and extent of work. The LPB survey report that includes information about this room can be found in Specification Section 00 10 20. If planned renovation/ demolition activities will impact plaster ceiling, the ceiling material should be treated as LBP and addressed accordingly.

**ACM Areas:**

Substrate	Component	Walls				Ceiling	Floor	Response Action	Comments
		N	E	S	W	C	F		
None								Not Applicable	

**Special Waste:**

Substrate	Component	Walls				Ceiling	Floor	Response Action	Comments
		N	E	S	W	C	F		
None								Not Applicable.	

**Note:** If the Abatement Contractor discovers material similar to previously identified ACM or LBP during the course of completing renovation and/or demolition activities and that material will be directly impacted during the course of performing any planned renovation and/or demolition activities, it should be treated/managed as ACM or LBP as appropriate. This includes materials discovered in previously inaccessible areas such as beneath or inside walls, in pipe chases, above the ceiling line, etc.

Only LBP described as being in poor or fair condition typically will need to be mitigated or stabilized unless it is directly affected by planned renovation and/or demolition activities.

CPS/Bell School personnel will be responsible for the management of the mercury-containing light bulbs, light ballasts, and select other Hazardous Materials, identified at Bell School. The Abatement Contractor should confirm with PBC and/or the EC which specific Hazardous Materials need to be managed/disposed of.

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Alexander Graham Bell Elementary School, 3730 North Oakley Avenue

Room ID/Name:	Tank Room and west adjacent Storage Room (south of Boiler Room) – First Floor
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**LBP Areas:**

Substrate	Component	Walls				Ceiling	Floor	Response Action	Comments
		N	E	S	W	C	F		
Plaster	Ceiling					X		LBP Mitigation Stabilize Paint, Prepare and Prime as needed for completion for scope of work.	Refer to Contract Documents and architect's drawings, specifications for scope and extent of work. The LPB survey report that includes information about this room can be found in Specification Section 00 10 20. If planned renovation/ demolition activities will impact plaster ceiling, the ceiling material should be treated as LBP and addressed accordingly.

**ACM Areas:**

Substrate	Component	Walls				Ceiling	Floor	Response Action	Comments
		N	E	S	W	C	F		
None								Not Applicable	

**Special Waste:**

Substrate	Component	Walls				Ceiling	Floor	Response Action	Comments
		N	E	S	W	C	F		
None								Not Applicable	

**Note:** If the Abatement Contractor discovers material similar to previously identified ACM or LBP during the course of completing renovation and/or demolition activities and that material will be directly impacted during the course of performing any planned renovation and/or demolition activities, it should be treated/managed as ACM or LBP as appropriate. This includes materials discovered in previously inaccessible areas such as beneath or inside walls, in pipe chases, above the ceiling line, etc.

Only LBP described as being in poor or fair condition typically will need to be mitigated or stabilized unless it is directly affected by planned renovation and/or demolition activities.

CPS/Bell School personnel will be responsible for the management of the mercury-containing light bulbs, light ballasts, and select other Hazardous Materials, identified at Bell School. The Abatement Contractor should confirm with PBC and/or the EC which specific Hazardous Materials need to be managed/disposed of.

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Room ID/Name:	Boiler Room – First Floor
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**LBP Areas:**

Substrate	Component	Walls				Ceiling	Floor	Response Action	Comments
		N	E	S	W	C	F		
Brick, wood, metal, concrete	Miscellaneous							LBP Mitigation Stabilize Paint, Prepare and Prime as needed for completion for scope of work.	Refer to Contract Documents and architect's drawings, specifications for scope and extent of work. The LBP survey report that includes information about this room can be found in Specification Section 00 10 20. No mitigation/stabilization needed for bathroom or pantry unless affected by the planned renovation/demolition activities. If the planned renovation/demolition activities will impact any identified surfaces including the ceiling, that material should be treated as LBP and addressed accordingly.

**ACM Areas:**

Substrate	Component	Walls				Ceiling	Floor	Response Action	Comments
		N	E	S	W	C	F		
None								Not Applicable	

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Room ID/Name:	Boiler Room – First Floor (continued)
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**Special Waste:**

Substrate	Component	Walls				Ceiling	Floor	Response Action	Comments
		N	E	S	W	C	F		
Mercury Fluorescent Light Bulbs and light ballasts								Removal and Disposal as Special/Universal Waste.	Refer to Contract Documents and architect’s drawings, specifications for scope and extent of work. The Haz Mat survey report that includes information about this area can be found in Specification Section 00 10 20. Only light bulbs and ballasts impacted by renovation/demolition activities need to be managed. The school’s building engineer maintains a supply of new bulbs and replacement ballasts in the Boiler Room. These should be relocated prior to the start of renovation or demolition activities.

**Note:** If the Abatement Contractor discovers material similar to previously identified ACM or LBP during the course of completing renovation and/or demolition activities and that material will be directly impacted during the course of performing any planned renovation and/or demolition activities, it should be treated/managed as ACM or LBP as appropriate. This includes materials discovered in previously inaccessible areas such as beneath or inside walls, in pipe chases, above the ceiling line, etc.

Only LBP described as being in poor or fair condition typically will need to be mitigated or stabilized unless it is directly affected by planned renovation and/or demolition activities.

CPS/Bell School personnel will be responsible for the management of the mercury-containing light bulbs, light ballasts, and select other Hazardous Materials, identified at Bell School. The Abatement Contractor should confirm with PBC and/or the EC which specific Hazardous Materials need to be managed/disposed of.



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Room ID/Name:	Library (Room 106) – First Floor
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**LBP Areas:**

Substrate	Component	Walls				Ceiling	Floor	Response Action	Comments
		N	E	S	W	C	F		
Plaster	Wall	X	X	X	X			LBP Mitigation Stabilize Paint, Prepare and Prime as needed for completion for scope of work.	Refer to Contract Documents and architect's drawings, specifications for scope and extent of work. The LPB survey report that includes information about this room can be found in Specification Section 00 10 20. Upper and lower portions of all walls should be mitigated/stabilized if directly impacted by the planned renovation/demolition activities.
Wood	Ceiling					X		LBP Mitigation Stabilize Paint, Prepare and Prime as needed for completion for scope of work.	Refer to Contract Documents and architect's drawings, specifications for scope and extent of work. The LPB survey report that includes information about this room can be found in Specification Section 00 10 20. Mitigation/stabilization is only necessary if the ceiling will be directly impacted by the planned renovation/demolition activities.

**ACM Areas:**

Substrate	Component	Walls				Ceiling	Floor	Response Action	Comments
		N	E	S	W	C	F		
None								Not Applicable	

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Room ID/Name:	Library (Room 106) – First Floor (continued)
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**Special Waste:**

Substrate	Component	Walls				Ceiling	Floor	Response Action	Comments
		N	E	S	W	C	F		
Mercury Fluorescent Light Bulbs and light ballasts								Removal and Disposal as Special/Universal Waste.	Refer to Contract Documents and architect’s drawings, specifications for scope and extent of work. The Haz Mat survey report that includes information about this area can be found in Specification Section 00 10 20. If planned renovation/demolition activities will impact light bulbs and ballasts, that material should be treated as Haz Mat/Universal Waste and addressed accordingly.

**Note:** If the Abatement Contractor discovers material similar to previously identified ACM or LBP during the course of completing renovation and/or demolition activities and that material will be directly impacted during the course of performing any planned renovation and/or demolition activities, it should be treated/managed as ACM or LBP as appropriate. This includes materials discovered in previously inaccessible areas such as beneath or inside walls, in pipe chases, above the ceiling line, etc.

Only LBP described as being in poor or fair condition typically will need to be mitigated or stabilized unless it is directly affected by planned renovation and/or demolition activities.

CPS/Bell School personnel will be responsible for the management of the mercury-containing light bulbs, light ballasts, and select other Hazardous Materials, identified at Bell School. The Abatement Contractor should confirm with PBC and/or the EC which specific Hazardous Materials need to be managed/disposed of.

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Alexander Graham Bell Elementary School, 3730 North Oakley Avenue

Room ID/Name:	Girl's/Northwest Bathroom, including entrance vestibule – First Floor
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**LBP Areas:**

Substrate	Component	Walls				Ceiling	Floor	Response Action	Comments
		N	E	S	W	C	F		
Plaster	Wall	X	X	X	X	X		LBP Mitigation Stabilize Paint, Prepare and Prime as needed for completion for scope of work.	Refer to Contract Documents and architect's drawings, specifications for scope and extent of work. The LBP survey report that includes information about this room can be found in Specification Section 00 10 20. Bathroom is targeted for complete renovation, therefore, all material should be treated as LBP and addressed accordingly.

**ACM Areas:**

Substrate	Component	Walls				Ceiling	Floor	Response Action	Comments
		N	E	S	W	C	F		
Mudded Fittings								ACM Removal and Disposal.	Refer to Contract Documents and architect's drawings, specifications for scope and extent of work. The ACM survey report that includes information about this room can be found in Specification Section 00 10 20.
Preformed Pipe Insulation								ACM Removal and Disposal.	Refer to Contract Documents and architect's drawings, specifications for scope and extent of work. The ACM survey report that includes information about this room can be found in Specification Section 00 10 20.

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Room ID/Name:	Girl's/Northwest Bathroom, including entrance vestibule – First Floor (continued)
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**Special Waste:**

Substrate	Component	Walls				Ceiling	Floor	Response Action	Comments
		N	E	S	W	C	F		
Mercury Fluorescent Light Bulbs and light ballasts								Removal and Disposal as Special/Universal Waste.	Refer to Contract Documents and architect's drawings, specifications for scope and extent of work. The Haz Mat survey report that includes information about this area can be found in Specification Section 00 10 20. If planned renovation/demolition activities will impact light bulbs and ballasts, that material should be treated as Haz Mat/Universal Waste and addressed accordingly.

**Note:** If the Abatement Contractor discovers material similar to previously identified ACM or LBP during the course of completing renovation and/or demolition activities and that material will be directly impacted during the course of performing any planned renovation and/or demolition activities, it should be treated/managed as ACM or LBP as appropriate. This includes materials discovered in previously inaccessible areas such as beneath or inside walls, in pipe chases, above the ceiling line, etc.

Only LBP described as being in poor or fair condition typically will need to be mitigated or stabilized unless it is directly affected by planned renovation and/or demolition activities.

CPS/Bell School personnel will be responsible for the management of the mercury-containing light bulbs, light ballasts, and select other Hazardous Materials, identified at Bell School. The Abatement Contractor should confirm with PBC and/or the EC which specific Hazardous Materials need to be managed/disposed of.

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Room ID/Name:	Office (Room 100) – First Floor
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**LBP Areas:**

Substrate	Component	Walls				Ceiling	Floor	Response Action	Comments
		N	E	S	W	C	F		
Plaster	Wall		X	X	X	X		LBP Mitigation Stabilize Paint, Prepare and Prime as needed for completion for scope of work.	Refer to Contract Documents and architect's drawings, specifications for scope and extent of work. The LBP survey report that includes information about this room can be found in Specification Section 00 10 20. North wall should be only be mitigated/stabilized if directly impacted by the planned renovation/demolition activities.

**ACM Areas:**

Substrate	Component	Walls				Ceiling	Floor	Response Action	Comments
		N	E	S	W	C	F		
None								Not Applicable	

**Special Waste:**

Substrate	Component	Walls				Ceiling	Floor	Response Action	Comments
		N	E	S	W	C	F		
Mercury Fluorescent Light Bulbs and light ballasts								Removal and Disposal as Special/Universal Waste.	Refer to Contract Documents and architect's drawings, specifications for scope and extent of work. The Haz Mat survey report that includes information about this area can be found in Specification Section 00 10 20. If planned renovation/demolition activities will impact light bulbs and ballasts, that material should be treated as Haz Mat/Universal Waste and addressed accordingly.

**Note:** If the Abatement Contractor discovers material similar to previously identified ACM or LBP during the course of completing renovation and/or demolition activities and that material will be directly impacted during the course of performing any planned renovation and/or demolition activities, it should be treated/managed as ACM or LBP as appropriate. This includes materials discovered in previously inaccessible areas such as beneath or inside walls, in pipe chases, above the ceiling line, etc.

Only LBP described as being in poor or fair condition typically will need to be mitigated or stabilized unless it is directly affected by planned renovation and/or demolition activities.

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CPS/Bell School personnel will be responsible for the management of the mercury-containing light bulbs, light ballasts, and select other Hazardous Materials, identified at Bell School. The Abatement Contractor should confirm with PBC and/or the EC which specific Hazardous Materials need to be managed/disposed of.

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Room ID/Name:	Vestibule B/Hallway north of Auditorium – First Floor
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**LBP Areas:**

Substrate	Component	Walls				Ceiling	Floor	Response Action	Comments
		N	E	S	W	C	F		
Plaster	Wall	X	X	X	X			LBP Mitigation Stabilize Paint, Prepare and Prime as needed for completion for scope of work.	Refer to Contract Documents and architect's drawings, specifications for scope and extent of work. The LBP survey report that includes information about this area can be found in Specification Section 00 10 20. If planned renovation/demolition activities will impact plaster walls, that material should be treated as LBP and addressed accordingly.

**ACM Areas:**

Substrate	Component	Walls				Ceiling	Floor	Response Action	Comments
		N	E	S	W	C	F		
None								Not Applicable	

**Special Waste:**

Substrate	Component	Walls				Ceiling	Floor	Response Action	Comments
		N	E	S	W	C	F		
Mercury Fluorescent Light Bulbs and light ballasts								Removal and Disposal as Special/Universal Waste.	Refer to Contract Documents and architect's drawings, specifications for scope and extent of work. The Haz Mat survey report that includes information about this area can be found in Specification Section 00 10 20. If planned renovation/demolition activities will impact light bulbs and ballasts, that material should be treated as Haz Mat/Universal Waste and addressed accordingly.

**Note:** If the Abatement Contractor discovers material similar to previously identified ACM or LBP during the course of completing renovation and/or demolition activities and that material will be directly impacted during the course of performing any planned renovation and/or demolition activities, it should be treated/managed as ACM or LBP as appropriate. This includes materials discovered in previously inaccessible areas such as beneath or inside walls, in pipe chases, above the ceiling line, etc.

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Only LBP described as being in poor or fair condition typically will need to be mitigated or stabilized unless it is directly affected by planned renovation and/or demolition activities.

CPS/Bell School personnel will be responsible for the management of the mercury-containing light bulbs, light ballasts, and select other Hazardous Materials, identified at Bell School. The Abatement Contractor should confirm with PBC and/or the EC which specific Hazardous Materials need to be managed/disposed of.



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Room ID/Name:	Auditorium – First Floor
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**LBP Areas:**

Substrate	Component	Walls				Ceiling	Floor	Response Action	Comments
		N	E	S	W	C	F		
Plaster	Ceiling					X		LBP Mitigation Stabilize Paint, Prepare and Prime as needed for completion for scope of work.	Refer to Contract Documents and architect's drawings, specifications for scope and extent of work. The LBP survey report that includes information about this room can be found in Specification Section 00 10 20. Mitigation/stabilization of plaster ceiling is only needed if planned renovation/demolition activities will impact plaster ceiling. If impacted, the ceiling material should be treated as LBP and addressed accordingly.

**ACM Areas:**

Substrate	Component	Walls				Ceiling	Floor	Response Action	Comments
		N	E	S	W	C	F		
None								Not Applicable	

**Special Waste:**

Substrate	Component	Walls				Ceiling	Floor	Response Action	Comments
		N	E	S	W	C	F		
Mercury Fluorescent Light Bulbs and light ballasts								Removal and Disposal as Special/Universal Waste.	Refer to Contract Documents and architect's drawings, specifications for scope and extent of work. The Haz Mat survey report that includes information about this area can be found in Specification Section 00 10 20. If planned renovation/demolition activities will impact light bulbs and ballasts, that material should be treated as Haz Mat/Universal Waste and addressed accordingly.

**Note:** If the Abatement Contractor discovers material similar to previously identified ACM or LBP during the course of completing renovation and/or demolition activities and that material will be directly impacted during the course of performing any planned renovation and/or demolition activities, it should be treated/managed as ACM or LBP as appropriate. This includes materials discovered in previously inaccessible areas such as beneath or inside walls, in pipe chases, above the ceiling line, etc.

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Only LBP described as being in poor or fair condition typically will need to be mitigated or stabilized unless it is directly affected by planned renovation and/or demolition activities.

CPS/Bell School personnel will be responsible for the management of the mercury-containing light bulbs, light ballasts, and select other Hazardous Materials, identified at Bell School. The Abatement Contractor should confirm with PBC and/or the EC which specific Hazardous Materials need to be managed/disposed of.

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Room ID/Name:	Main Hallway – First Floor
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**LBP Areas:**

Substrate	Component	Walls				Ceiling	Floor	Response Action	Comments
		N	E	S	W	C	F		
Plaster	Wall	X	X		X	X		LBP Mitigation Stabilize Paint, Prepare and Prime as needed for completion for scope of work.	Refer to Contract Documents and architect's drawings, specifications for scope and extent of work. The LBP survey report that includes information about this area can be found in Specification Section 00 10 20. If planned renovation/ demolition activities will impact plaster walls or ceiling, that material should be treated as LBP and addressed accordingly. If replacement of Emergency lighting battery packs and Exit signs impact plaster ceiling, the material should be treated as LBP and addressed accordingly.

**ACM Areas:**

Substrate	Component	Walls				Ceiling	Floor	Response Action	Comments
		N	E	S	W	C	F		
Preformed Pipe Insulation								ACM Removal and Disposal.	Refer to Contract Documents and architect's drawings, specifications for scope and extent of work. The ACM survey report that includes information about this area can be found in Specification Section 00 10 20. Material at this location is not included in ACM Log, however, it is known to exist between the drop ceiling and plaster ceiling along the length of the hallway. If planned renovation/demolition activities will impact piping, that material should be treated as ACM and addressed accordingly.

**ENVIRONMENTAL SCOPE SHEETS  
CHICAGO PUBLIC SCHOOLS (CPS)**

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 100% Issue Date: December 10, 2012  
 School: Alexander Graham Bell Elementary School, 3730 North Oakley Avenue

Room ID/Name:	Main Hallway – First Floor (continued)
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**Special Waste:**

Substrate	Component	Walls				Ceiling	Floor	Response Action	Comments
		N	E	S	W	C	F		
Battery Pack for Emergency Lighting								Removal and Disposal as Special/Universal Waste.	Refer to Contract Documents and architect’s drawings, specifications for scope and extent of work. The Haz Mat survey report that includes information about this area can be found in Specification Section 00 10 20.

**Note:** If the Abatement Contractor discovers material similar to previously identified ACM or LBP during the course of completing renovation and/or demolition activities and that material will be directly impacted during the course of performing any planned renovation and/or demolition activities, it should be treated/managed as ACM or LBP as appropriate. This includes materials discovered in previously inaccessible areas such as beneath or inside walls, in pipe chases, above the ceiling line, etc.

Only LBP described as being in poor or fair condition typically will need to be mitigated or stabilized unless it is directly affected by planned renovation and/or demolition activities.

CPS/Bell School personnel will be responsible for the management of the mercury-containing light bulbs, light ballasts, and select other Hazardous Materials, identified at Bell School. The Abatement Contractor should confirm with PBC and/or the EC which specific Hazardous Materials need to be managed/disposed of.

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CHICAGO PUBLIC SCHOOLS (CPS)**

Managing Environmental  
Consultant/Project No.:  
100% Issue Date:  
School:

Environmental Design International inc.  
05530-PS1651D-002  
December 10, 2012  
Alexander Graham Bell Elementary School, 3730 North Oakley Avenue

Room ID/Name:	Boy's/Southwest Bathroom, including entrance vestibule – Second Floor
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**LBP Areas:**

Substrate	Component	Walls				Ceiling	Floor	Response Action	Comments
		N	E	S	W	C	F		
Plaster	Wall	X	X	X	X	X		LBP Mitigation Stabilize Paint, Prepare and Prime as needed for completion for scope of work.	Refer to Contract Documents and architect's drawings, specifications for scope and extent of work. The LBP survey report that includes information about this room can be found in Specification Section 00 10 20. Bathroom is targeted for complete renovation, therefore, all material should be treated as LBP and addressed accordingly.

**ACM Areas:**

Substrate	Component	Walls				Ceiling	Floor	Response Action	Comments
		N	E	S	W	C	F		
Mudded Fittings								ACM Removal and Disposal	Refer to Contract Documents and architect's drawings, specifications for scope and extent of work. The ACM survey report that includes information about this room can be found in Specification Section 00 10 20.
Preformed Pipe Insulation								ACM Removal and Disposal	Refer to Contract Documents and architect's drawings, specifications for scope and extent of work. The ACM survey report that includes information about this room can be found in Specification Section 00 10 20.

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Room ID/Name:	Boy's/Southwest Bathroom, including entrance vestibule – Second Floor (continued)
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**Special Waste:**

Substrate	Component	Walls				Ceiling	Floor	Response Action	Comments
		N	E	S	W	C	F		
Mercury Fluorescent Light Bulbs and light ballasts								Removal and Disposal as Special/Universal Waste.	Refer to Contract Documents and architect's drawings, specifications for scope and extent of work. The Haz Mat survey report that includes information about this area can be found in Specification Section 00 10 20. If planned renovation/demolition activities will impact light bulbs and ballasts, that material should be treated as Haz Mat/Universal Waste and addressed accordingly.

**Note:** If the Abatement Contractor discovers material similar to previously identified ACM or LBP during the course of completing renovation and/or demolition activities and that material will be directly impacted during the course of performing any planned renovation and/or demolition activities, it should be treated/managed as ACM or LBP as appropriate. This includes materials discovered in previously inaccessible areas such as beneath or inside walls, in pipe chases, above the ceiling line, etc.

Only LBP described as being in poor or fair condition typically will need to be mitigated or stabilized unless it is directly affected by planned renovation and/or demolition activities.

CPS/Bell School personnel will be responsible for the management of the mercury-containing light bulbs, light ballasts, and select other Hazardous Materials, identified at Bell School. The Abatement Contractor should confirm with PBC and/or the EC which specific Hazardous Materials need to be managed/disposed of.

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December 10, 2012  
Alexander Graham Bell Elementary School, 3730 North Oakley Avenue

Room ID/Name:	South End of Main Hallway – Second Floor
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**LBP Areas:**

Substrate	Component	Walls				Ceiling	Floor	Response Action	Comments
		N	E	S	W	C	F		
Plaster	Wall			X	X			LBP Mitigation Stabilize Paint, Prepare and Prime as needed for completion for scope of work.	Refer to Contract Documents and architect's drawings, specifications for scope and extent of work. The LPB survey report that includes information about this area can be found in Specification Section 00 10 20. Lower portion of south and west walls will require mitigation/stabilization if directly impacted by renovation/demolition activities. If replacement of Emergency lighting battery packs and Exit signs impact plaster ceiling, the material should be treated as LBP and addressed accordingly.
Metal	Stair Handrail			X				LBP Mitigation Stabilize Paint, Prepare and Prime as needed for completion for scope of work.	Refer to Contract Documents and architect's drawings, specifications for scope and extent of work. The LPB survey report that includes information about this area can be found in Specification Section 00 10 20. Mitigation/stabilization only needed if the planned renovation/demolition activities will directly affect the stairs.
Metal	Stair Stringer			X				LBP Mitigation Stabilize Paint, Prepare and Prime as needed for completion for scope of work.	Refer to Contract Documents and architect's drawings, specifications for scope and extent of work. The LPB survey report that includes information about this area can be found in Specification Section 00 10 20. Mitigation/stabilization only needed if the planned renovation/demolition activities will directly affect the stairs.





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Alexander Graham Bell Elementary School, 3730 North Oakley Avenue

Room ID/Name:	Room 202 – Second Floor
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**LBP Areas:**

Substrate	Component	Walls				Ceiling	Floor	Response Action	Comments
		N	E	S	W	C	F		
Plaster (closet only)	Wall	X	X	X				LBP Mitigation Stabilize Paint, Prepare and Prime as needed for completion for scope of work.	Refer to Contract Documents and architect's drawings, specifications for scope and extent of work. The LBP survey report that includes information about this room can be found in Specification Section 00 10 20. Mitigation/stabilization only needed if renovation/demolition activities will directly affect the closet.

**ACM Areas:**

Substrate	Component	Walls				Ceiling	Floor	Response Action	Comments
		N	E	S	W	C	F		
None								Not Applicable	

**Special Waste:**

Substrate	Component	Walls				Ceiling	Floor	Response Action	Comments
		N	E	S	W	C	F		
Mercury Fluorescent Light Bulbs and light ballasts								Removal and Disposal as Special/Universal Waste.	Refer to Contract Documents and architect's drawings, specifications for scope and extent of work. The Haz Mat survey report that includes information about this area can be found in Specification Section 00 10 20. If planned renovation/demolition activities will impact light bulbs and ballasts, that material should be treated as Haz Mat/Universal Waste and addressed accordingly.

**Note:** If the Abatement Contractor discovers material similar to previously identified ACM or LBP during the course of completing renovation and/or demolition activities and that material will be directly impacted during the course of performing any planned renovation and/or demolition activities, it should be treated/managed as ACM or LBP as appropriate. This includes materials discovered in previously inaccessible areas such as beneath or inside walls, in pipe chases, above the ceiling line, etc.

Only LBP described as being in poor or fair condition typically will need to be mitigated or stabilized unless it is directly affected by planned renovation and/or demolition activities.

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CPS/Bell School personnel will be responsible for the management of the mercury-containing light bulbs, light ballasts, and select other Hazardous Materials, identified at Bell School. The Abatement Contractor should confirm with PBC and/or the EC which specific Hazardous Materials need to be managed/disposed of.

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Room ID/Name:	Girl's/Northwest Bathroom, including entrance vestibule – Second Floor
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**LBP Areas:**

Substrate	Component	Walls				Ceiling	Floor	Response Action	Comments
		N	E	S	W	C	F		
Plaster	Wall	X	X	X	X	X		LBP Mitigation Stabilize Paint, Prepare and Prime as needed for completion for scope of work.	Refer to Contract Documents and architect's drawings, specifications for scope and extent of work. The LBP survey report that includes information about this room can be found in Specification Section 00 10 20. Bathroom is targeted for complete renovation, therefore, all material should be treated as LBP and addressed accordingly.

**ACM Areas:**

Substrate	Component	Walls				Ceiling	Floor	Response Action	Comments
		N	E	S	W	C	F		
Mudded Fittings								ACM Removal and Disposal	Refer to Contract Documents and architect's drawings, specifications for scope and extent of work. The ACM survey report that includes information about this room can be found in Specification Section 00 10 20.
Preformed Pipe Insulation								ACM Removal and Disposal	Refer to Contract Documents and architect's drawings, specifications for scope and extent of work. The ACM survey report that includes information about this room can be found in Specification Section 00 10 20.

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School:	Alexander Graham Bell Elementary School, 3730 North Oakley Avenue

Room ID/Name:	Girl's/Northwest Bathroom, including entrance vestibule – Second Floor (continued)
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**Special Waste:**

Substrate	Component	Walls				Ceiling	Floor	Response Action	Comments
		N	E	S	W	C	F		
Mercury Fluorescent Light Bulbs and light ballasts								Removal and Disposal as Special/Universal Waste.	Refer to Contract Documents and architect's drawings, specifications for scope and extent of work. The Haz Mat survey report that includes information about this area can be found in Specification Section 00 10 20. If planned renovation/demolition activities will impact light bulbs and ballasts, that material should be treated as Haz Mat/Universal Waste and addressed accordingly.

**Note:** If the Abatement Contractor discovers material similar to previously identified ACM or LBP during the course of completing renovation and/or demolition activities and that material will be directly impacted during the course of performing any planned renovation and/or demolition activities, it should be treated/managed as ACM or LBP as appropriate. This includes materials discovered in previously inaccessible areas such as beneath or inside walls, in pipe chases, above the ceiling line, etc.

Only LBP described as being in poor or fair condition typically will need to be mitigated or stabilized unless it is directly affected by planned renovation and/or demolition activities.

CPS/Bell School personnel will be responsible for the management of the mercury-containing light bulbs, light ballasts, and select other Hazardous Materials, identified at Bell School. The Abatement Contractor should confirm with PBC and/or the EC which specific Hazardous Materials need to be managed/disposed of.

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Room ID/Name:	Hallway north of Auditorium Balcony – Second Floor
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**LBP Areas:**

Substrate	Component	Walls				Ceiling	Floor	Response Action	Comments
		N	E	S	W	C	F		
Plaster	Wall	X	X	X	X			LBP Mitigation Stabilize Paint, Prepare and Prime as needed for completion for scope of work.	Refer to Contract Documents and architect's drawings, specifications for scope and extent of work. The LPB survey report that includes information about this area can be found in Specification Section 00 10 20. Walls will require mitigation/stabilization if directly impacted by renovation/demolition activities.
Metal	Stair Riser		X					LBP Mitigation Stabilize Paint, Prepare and Prime as needed for completion for scope of work.	Refer to Contract Documents and architect's drawings, specifications for scope and extent of work. The LPB survey report that includes information about this area can be found in Specification Section 00 10 20. Mitigation/stabilization only needed if the planned renovation/demolition activities will directly affect the stairs.
Metal	Stair Handrail		X					LBP Mitigation Stabilize Paint, Prepare and Prime as needed for completion for scope of work.	Refer to Contract Documents and architect's drawings, specifications for scope and extent of work. The LPB survey report that includes information about this area can be found in Specification Section 00 10 20. Mitigation/stabilization only needed if the planned renovation/demolition activities will directly affect the stairs.

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Room ID/Name:	Hallway north of Auditorium Balcony – Second Floor (continued)
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Metal	Stair Stringer		X					LBP Mitigation Stabilize Paint, Prepare and Prime as needed for completion for scope of work.	Refer to Contract Documents and architect's drawings, specifications for scope and extent of work. The LPB survey report that includes information about this area can be found in Specification Section 00 10 20. Mitigation/stabilization only needed if the planned renovation/demolition activities will directly affect the stairs.
Metal	Newel Post		X					LBP Mitigation Stabilize Paint, Prepare and Prime as needed for completion for scope of work.	Refer to Contract Documents and architect's drawings, specifications for scope and extent of work. The LPB survey report that includes information about this area can be found in Specification Section 00 10 20. Mitigation/stabilization only needed if the planned renovation/demolition activities will directly affect the stairs.
Metal	Door		X					LBP Mitigation Stabilize Paint, Prepare and Prime as needed for completion for scope of work.	Refer to Contract Documents and architect's drawings, specifications for scope and extent of work. The LPB survey report that includes information about this area can be found in Specification Section 00 10 20. Mitigation/stabilization only needed if the planned renovation/demolition activities will directly affect the door.

**ACM Areas:**

Substrate	Component	Walls				Ceiling	Floor	Response Action	Comments
		N	E	S	W	C	F		
None								Not Applicable	

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Room ID/Name:	Hallway north of Auditorium Balcony – Second Floor (continued)
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**Special Waste:**

Substrate	Component	Walls				Ceiling	Floor	Response Action	Comments
		N	E	S	W	C	F		
Mercury Fluorescent Light Bulbs and light ballasts								Removal and Disposal as Special/Universal Waste.	Refer to Contract Documents and architect’s drawings, specifications for scope and extent of work. The Haz Mat survey report that includes information about this area can be found in Specification Section 00 10 20. If planned renovation/demolition activities will impact light bulbs and ballasts, that material should be treated as Haz Mat/Universal Waste and addressed accordingly.

**Note:** If the Abatement Contractor discovers material similar to previously identified ACM or LBP during the course of completing renovation and/or demolition activities and that material will be directly impacted during the course of performing any planned renovation and/or demolition activities, it should be treated/managed as ACM or LBP as appropriate. This includes materials discovered in previously inaccessible areas such as beneath or inside walls, in pipe chases, above the ceiling line, etc.

Only LBP described as being in poor or fair condition typically will need to be mitigated or stabilized unless it is directly affected by planned renovation and/or demolition activities.

CPS/Bell School personnel will be responsible for the management of the mercury-containing light bulbs, light ballasts, and select other Hazardous Materials, identified at Bell School. The Abatement Contractor should confirm with PBC and/or the EC which specific Hazardous Materials need to be managed/disposed of.

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Room ID/Name:	Auditorium Balcony – Second Floor
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**LBP Areas:**

Substrate	Component	Walls				Ceiling	Floor	Response Action	Comments
		N	E	S	W	C	F		
Plaster	Wall	X	X	X	X	X		LBP Mitigation Stabilize Paint, Prepare and Prime as needed for completion for scope of work.	Refer to Contract Documents and architect's drawings, specifications for scope and extent of work. The LPB survey report that includes information about this room can be found in Specification Section 00 10 20. Mitigation/stabilization is only needed if the planned renovation/demolition activities directly affect the surfaces.
Plaster	Column, decorative wall, ceiling							LBP Mitigation Stabilize Paint, Prepare and Prime as needed for completion for scope of work.	Refer to Contract Documents and architect's drawings, specifications for scope and extent of work. The LPB survey report that includes information about this room can be found in Specification Section 00 10 20. Mitigation/stabilization is only needed if the planned renovation/demolition activities directly affect the surfaces.
Metal	Door							LBP Mitigation Stabilize Paint, Prepare and Prime as needed for completion for scope of work.	Refer to Contract Documents and architect's drawings, specifications for scope and extent of work. The LPB survey report that includes information about this room can be found in Specification Section 00 10 20. Mitigation/stabilization is only needed if the planned renovation/demolition activities directly affect the surfaces.



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Room ID/Name:	Auditorium Balcony – Second Floor (continued)
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Metal	Handrail							LBP Mitigation Stabilize Paint, Prepare and Prime as needed for completion for scope of work.	Refer to Contract Documents and architect's drawings, specifications for scope and extent of work. The LPB survey report that includes information about this room can be found in Specification Section 00 10 20. Handrail is being removed, therefore, no additional action is needed.
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**ACM Areas:**

Substrate	Component	Walls				Ceiling	Floor	Response Action	Comments
		N	E	S	W	C	F		
None								Not Applicable	

**Special Waste:**

Substrate	Component	Walls				Ceiling	Floor	Response Action	Comments
		N	E	S	W	C	F		
Mercury Fluorescent Light Bulbs and light ballasts								Removal and Disposal as Special/Universal Waste.	Refer to Contract Documents and architect's drawings, specifications for scope and extent of work. The Haz Mat survey report that includes information about this area can be found in Specification Section 00 10 20. If planned renovation/demolition activities will impact light bulbs and ballasts, that material should be treated as Haz Mat/Universal Waste and addressed accordingly.

**Note:** If the Abatement Contractor discovers material similar to previously identified ACM or LBP during the course of completing renovation and/or demolition activities and that material will be directly impacted during the course of performing any planned renovation and/or demolition activities, it should be treated/managed as ACM or LBP as appropriate. This includes materials discovered in previously inaccessible areas such as beneath or inside walls, in pipe chases, above the ceiling line, etc.

Only LBP described as being in poor or fair condition typically will need to be mitigated or stabilized unless it is directly affected by planned renovation and/or demolition activities.

CPS/Bell School personnel will be responsible for the management of the mercury-containing light bulbs, light ballasts, and select other Hazardous Materials, identified at Bell School. The Abatement Contractor should confirm with PBC and/or the EC which specific Hazardous Materials need to be managed/disposed of.

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Room ID/Name:	Hallway south of Auditorium Balcony – Second Floor
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**LBP Areas:**

Substrate	Component	Walls				Ceiling	Floor	Response Action	Comments
		N	E	S	W	C	F		
Plaster	Wall		X	X				LBP Mitigation Stabilize Paint, Prepare and Prime as needed for completion for scope of work.	Refer to Contract Documents and architect's drawings, specifications for scope and extent of work. The LPB survey report that includes information about this area can be found in Specification Section 00 10 20. Walls will require mitigation/stabilization if directly impacted by renovation/demolition activities.
Metal	Stair Riser		X					LBP Mitigation Stabilize Paint, Prepare and Prime as needed for completion for scope of work.	Refer to Contract Documents and architect's drawings, specifications for scope and extent of work. The LPB survey report that includes information about this area can be found in Specification Section 00 10 20. Mitigation/stabilization only needed if the planned renovation/demolition activities will directly affect the stairs.
Metal	Stair Handrail		X					LBP Mitigation Stabilize Paint, Prepare and Prime as needed for completion for scope of work.	Refer to Contract Documents and architect's drawings, specifications for scope and extent of work. The LPB survey report that includes information about this area can be found in Specification Section 00 10 20. Mitigation/stabilization only needed if the planned renovation/demolition activities will directly affect the stairs.

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Room ID/Name:	Hallway south of Auditorium Balcony – Second Floor (continued)
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Metal	Stair Stringer		X					LBP Mitigation Stabilize Paint, Prepare and Prime as needed for completion for scope of work.	Refer to Contract Documents and architect's drawings, specifications for scope and extent of work. The LPB survey report that includes information about this area can be found in Specification Section 00 10 20. Mitigation/stabilization only needed if the planned renovation/demolition activities will directly affect the stairs.
Metal	Newel Post		X					LBP Mitigation Stabilize Paint, Prepare and Prime as needed for completion for scope of work.	Refer to Contract Documents and architect's drawings, specifications for scope and extent of work. The LPB survey report that includes information about this area can be found in Specification Section 00 10 20. Mitigation/stabilization only needed if the planned renovation/demolition activities will directly affect the stairs.
Metal	Door		X					LBP Mitigation Stabilize Paint, Prepare and Prime as needed for completion for scope of work.	Refer to Contract Documents and architect's drawings, specifications for scope and extent of work. The LPB survey report that includes information about this area can be found in Specification Section 00 10 20. Mitigation/stabilization only needed if the planned renovation/demolition activities will directly affect the door.
Wood	Baseboard		X					LBP Mitigation Stabilize Paint, Prepare and Prime as needed for completion for scope of work.	Refer to Contract Documents and architect's drawings, specifications for scope and extent of work. The LPB survey report that includes information about this area can be found in Specification Section 00 10 20. Mitigation/stabilization only needed if the planned renovation/demolition activities will directly affect the baseboard.

**ACM Areas:**

Substrate	Component	Walls				Ceiling	Floor	Response Action	Comments
		N	E	S	W	C	F		
None								Not Applicable	

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Room ID/Name:	Hallway south of Auditorium Balcony – Second Floor (continued)
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**Special Waste:**

Substrate	Component	Walls				Ceiling	Floor	Response Action	Comments
		N	E	S	W	C	F		
Mercury Fluorescent Light Bulbs and light ballasts								Removal and Disposal as Special/Universal Waste.	Refer to Contract Documents and architect’s drawings, specifications for scope and extent of work. The Haz Mat survey report that includes information about this area can be found in Specification Section 00 10 20. If planned renovation/demolition activities will impact light bulbs and ballasts, that material should be treated as Haz Mat/Universal Waste and addressed accordingly.

**Note:** If the Abatement Contractor discovers material similar to previously identified ACM or LBP during the course of completing renovation and/or demolition activities and that material will be directly impacted during the course of performing any planned renovation and/or demolition activities, it should be treated/managed as ACM or LBP as appropriate. This includes materials discovered in previously inaccessible areas such as beneath or inside walls, in pipe chases, above the ceiling line, etc.

Only LBP described as being in poor or fair condition typically will need to be mitigated or stabilized unless it is directly affected by planned renovation and/or demolition activities.

CPS/Bell School personnel will be responsible for the management of the mercury-containing light bulbs, light ballasts, and select other Hazardous Materials, identified at Bell School. The Abatement Contractor should confirm with PBC and/or the EC which specific Hazardous Materials need to be managed/disposed of.

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Room ID/Name:	Main Hallway – Second Floor
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**LBP Areas:**

Substrate	Component	Walls				Ceiling	Floor	Response Action	Comments
		N	E	S	W	C	F		
Plaster	Wall	X	X		X	X		LBP Mitigation Stabilize Paint, Prepare and Prime as needed for completion for scope of work.	Refer to Contract Documents and architect's drawings, specifications for scope and extent of work. The LBP survey report that includes information about this area can be found in Specification Section 00 10 20. If planned renovation/ demolition activities will impact plaster walls or ceiling, that material should be treated as LBP and addressed accordingly. If replacement of Emergency lighting battery packs and Exit signs impact plaster ceiling, the material should be treated as LBP and addressed accordingly.

**ACM Areas:**

Substrate	Component	Walls				Ceiling	Floor	Response Action	Comments
		N	E	S	W	C	F		
Preformed Pipe Insulation								ACM Removal and Disposal.	Refer to Contract Documents and architect's drawings, specifications for scope and extent of work. The ACM survey report that includes information about this area can be found in Specification Section 00 10 20. Material at this location is not included in ACM Log, however, it is known to exist between the drop ceiling and plaster ceiling along the length of the hallway. If planned renovation/demolition activities will impact piping, that material should be treated as ACM and addressed accordingly.

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CHICAGO PUBLIC SCHOOLS (CPS)**

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 School: Alexander Graham Bell Elementary School, 3730 North Oakley Avenue

Room ID/Name:	Main Hallway – Second Floor (continued)
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**Special Waste:**

Substrate	Component	Walls				Ceiling	Floor	Response Action	Comments
		N	E	S	W	C	F		
Battery Pack for Emergency Lighting								Removal and Disposal as Special/Universal Waste.	Refer to Contract Documents and architect’s drawings, specifications for scope and extent of work. The Haz Mat survey report that includes information about this area can be found in Specification Section 00 10 20.

**Note:** If the Abatement Contractor discovers material similar to previously identified ACM or LBP during the course of completing renovation and/or demolition activities and that material will be directly impacted during the course of performing any planned renovation and/or demolition activities, it should be treated/managed as ACM or LBP as appropriate. This includes materials discovered in previously inaccessible areas such as beneath or inside walls, in pipe chases, above the ceiling line, etc.

Only LBP described as being in poor or fair condition typically will need to be mitigated or stabilized unless it is directly affected by planned renovation and/or demolition activities.

CPS/Bell School personnel will be responsible for the management of the mercury-containing light bulbs, light ballasts, and select other Hazardous Materials, identified at Bell School. The Abatement Contractor should confirm with PBC and/or the EC which specific Hazardous Materials need to be managed/disposed of.

**ENVIRONMENTAL SCOPE SHEETS  
CHICAGO PUBLIC SCHOOLS (CPS)**

Managing Environmental  
Consultant/Project No.:  
100% Issue Date:  
School:

Environmental Design International inc.  
05530-PS1651D-002  
December 10, 2012  
Alexander Graham Bell Elementary School, 3730 North Oakley Avenue

Room ID/Name:	Boy's/Southwest Bathroom, including entrance vestibule – Third Floor
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**LBP Areas:**

Substrate	Component	Walls				Ceiling	Floor	Response Action	Comments
		N	E	S	W	C	F		
Plaster	Wall	X	X	X	X	X		LBP Mitigation Stabilize Paint, Prepare and Prime as needed for completion for scope of work.	Refer to Contract Documents and architect's drawings, specifications for scope and extent of work. The LPB survey report that includes information about this room can be found in Specification Section 00 10 20. For the main bathroom, the North wall should only be mitigated/stabilized if directly impacted by the planned renovation/demolition activities.
Metal	Pipe	X						LBP Mitigation Stabilize Paint, Prepare and Prime as needed for completion for scope of work.	Refer to Contract Documents and architect's drawings, specifications for scope and extent of work. The LPB survey report that includes information about this room can be found in Specification Section 00 10 20.

**ACM Areas:**

Substrate	Component	Walls				Ceiling	Floor	Response Action	Comments
		N	E	S	W	C	F		
Mudded Fittings								ACM Removal and Disposal.	Refer to Contract Documents and architect's drawings, specifications for scope and extent of work. The ACM survey report that includes information about this room can be found in Specification Section 00 10 20.
Preformed Pipe Insulation								ACM Removal and Disposal.	Refer to Contract Documents and architect's drawings, specifications for scope and extent of work. The ACM survey report that includes information about this room can be found in Specification Section 00 10 20.

**ENVIRONMENTAL SCOPE SHEETS  
CHICAGO PUBLIC SCHOOLS (CPS)**

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	Alexander Graham Bell Elementary School, 3730 North Oakley Avenue

Room ID/Name:	Boy's/Southwest Bathroom, including entrance vestibule – Third Floor (continued)
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**Special Waste:**

Substrate	Component	Walls				Ceiling	Floor	Response Action	Comments
		N	E	S	W	C	F		
Mercury Fluorescent Light Bulbs and light ballasts								Removal and Disposal as Special/Universal Waste.	Refer to Contract Documents and architect's drawings, specifications for scope and extent of work. The Haz Mat survey report that includes information about this area can be found in Specification Section 00 10 20. If planned renovation/demolition activities will impact light bulbs and ballasts, that material should be treated as Haz Mat/Universal Waste and addressed accordingly.

**Note:** If the Abatement Contractor discovers material similar to previously identified ACM or LBP during the course of completing renovation and/or demolition activities and that material will be directly impacted during the course of performing any planned renovation and/or demolition activities, it should be treated/managed as ACM or LBP as appropriate. This includes materials discovered in previously inaccessible areas such as beneath or inside walls, in pipe chases, above the ceiling line, etc.

Only LBP described as being in poor or fair condition typically will need to be mitigated or stabilized unless it is directly affected by planned renovation and/or demolition activities.

CPS/Bell School personnel will be responsible for the management of the mercury-containing light bulbs, light ballasts, and select other Hazardous Materials, identified at Bell School. The Abatement Contractor should confirm with PBC and/or the EC which specific Hazardous Materials need to be managed/disposed of.



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December 10, 2012  
Alexander Graham Bell Elementary School, 3730 North Oakley Avenue

Room ID/Name:	South End of Main Hallway – Third Floor
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**LBP Areas:**

Substrate	Component	Walls				Ceiling	Floor	Response Action	Comments
		N	E	S	W	C	F		
Plaster	Wall			X	X	X		LBP Mitigation Stabilize Paint, Prepare and Prime as needed for completion for scope of work.	Refer to Contract Documents and architect's drawings, specifications for scope and extent of work. The LPB survey report that includes information about this area can be found in Specification Section 00 10 20. Lower portion of south and west walls will require mitigation/stabilization if directly impacted by renovation/demolition activities. If replacement of Emergency lighting battery packs and Exit signs impact plaster ceiling, the material should be treated as LBP and addressed accordingly.
Metal	Stair Handrail			X				LBP Mitigation Stabilize Paint, Prepare and Prime as needed for completion for scope of work.	Refer to Contract Documents and architect's drawings, specifications for scope and extent of work. The LPB survey report that includes information about this area can be found in Specification Section 00 10 20. Mitigation/stabilization only needed if the planned renovation/demolition activities will directly affect the stairs.

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Room ID/Name:	South End of Main Hallway – Third Floor (continued)
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Metal	Stair Stringer			X				LBP Mitigation Stabilize Paint, Prepare and Prime as needed for completion for scope of work.	Refer to Contract Documents and architect's drawings, specifications for scope and extent of work. The LPB survey report that includes information about this area can be found in Specification Section 00 10 20. Mitigation/stabilization only needed if the planned renovation/demolition activities will directly affect the stairs.
Metal	Newel Post			X				LBP Mitigation Stabilize Paint, Prepare and Prime as needed for completion for scope of work.	Refer to Contract Documents and architect's drawings, specifications for scope and extent of work. The LPB survey report that includes information about this area can be found in Specification Section 00 10 20. Mitigation/stabilization only needed if the planned renovation/demolition activities will directly affect the stairs.

**ACM Areas:**

Substrate	Component	Walls				Ceiling	Floor	Response Action	Comments
		N	E	S	W	C	F		
None								Not Applicable	

**ENVIRONMENTAL SCOPE SHEETS  
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 School: Alexander Graham Bell Elementary School, 3730 North Oakley Avenue

Room ID/Name:	South End of Main Hallway – Third Floor (continued)
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**Special Waste:**

Substrate	Component	Walls				Ceiling	Floor	Response Action	Comments
		N	E	S	W	C	F		
Battery Pack for Emergency Lighting								Removal and Disposal as Special/Universal Waste.	Refer to Contract Documents and architect’s drawings, specifications for scope and extent of work. The Haz Mat survey report that includes information about this area can be found in Specification Section 00 10 20.

**Note:** If the Abatement Contractor discovers material similar to previously identified ACM or LBP during the course of completing renovation and/or demolition activities and that material will be directly impacted during the course of performing any planned renovation and/or demolition activities, it should be treated/managed as ACM or LBP as appropriate. This includes materials discovered in previously inaccessible areas such as beneath or inside walls, in pipe chases, above the ceiling line, etc.

Only LBP described as being in poor or fair condition typically will need to be mitigated or stabilized unless it is directly affected by planned renovation and/or demolition activities.

CPS/Bell School personnel will be responsible for the management of the mercury-containing light bulbs, light ballasts, and select other Hazardous Materials, identified at Bell School. The Abatement Contractor should confirm with PBC and/or the EC which specific Hazardous Materials need to be managed/disposed of.

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December 10, 2012  
Alexander Graham Bell Elementary School, 3730 North Oakley Avenue

Room ID/Name:	7 <sup>th</sup> /8 <sup>th</sup> Grade Science Classroom (Room 314B) – Third Floor
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**LBP Areas:**

Substrate	Component	Walls				Ceiling	Floor	Response Action	Comments
		N	E	S	W	C	F		
Plaster	Wall	X	X	X	X	X		LBP Mitigation Stabilize Paint, Prepare and Prime as needed for completion for scope of work.	Refer to Contract Documents and architect's drawings, specifications for scope and extent of work. The LPB survey report that includes information about this room can be found in Specification Section 00 10 20. Mitigation/stabilization of the walls is needed to facilitate the planned painting.
Metal	Vent		X					LBP Mitigation Stabilize Paint, Prepare and Prime as needed for completion for scope of work.	Refer to Contract Documents and architect's drawings, specifications for scope and extent of work. The LPB survey report that includes information about this room can be found in Specification Section 00 10 20. Mitigation/stabilization of the vent is only needed if it will directly be impacted by the planned renovation/demolition activities.

**ACM Areas:**

Substrate	Component	Walls				Ceiling	Floor	Response Action	Comments
		N	E	S	W	C	F		
None								Not Applicable.	

**ENVIRONMENTAL SCOPE SHEETS  
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Consultant/Project No.:  
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Alexander Graham Bell Elementary School, 3730 North Oakley Avenue

Room ID/Name:	7 <sup>th</sup> /8 <sup>th</sup> Grade Science Classroom (Room 314B) – Third Floor (continued)
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**Special Waste:**

Substrate	Component	Walls				Ceiling	Floor	Response Action	Comments
		N	E	S	W	C	F		
Mercury Fluorescent Light Bulbs and light ballasts								Removal and Disposal as Special/Universal Waste.	Refer to Contract Documents and architect’s drawings, specifications for scope and extent of work. The Haz Mat survey report that includes information about this area can be found in Specification Section 00 10 20. If planned renovation/demolition activities will impact light bulbs and ballasts, that material should be treated as Haz Mat/Universal Waste and addressed accordingly.
Various laboratory chemicals and other products								Removal and Disposal as Special/Universal Waste.	Refer to Contract Documents and architect's drawings, specifications for scope and extent of work. The Haz Mat survey report that includes information about this room can be found in Specification Section 00 10 20. CPS/Bell School to manage household-type products. Abatement contractor to manage the materials in the small metal Corrosives cabinet near the window.

**Note:** If the Abatement Contractor discovers material similar to previously identified ACM or LBP during the course of completing renovation and/or demolition activities and that material will be directly impacted during the course of performing any planned renovation and/or demolition activities, it should be treated/managed as ACM or LBP as appropriate. This includes materials discovered in previously inaccessible areas such as beneath or inside walls, in pipe chases, above the ceiling line, etc.

Only LBP described as being in poor or fair condition typically will need to be mitigated or stabilized unless it is directly affected by planned renovation and/or demolition activities.

CPS/Bell School personnel will be responsible for the management of the mercury-containing light bulbs, light ballasts, and select other Hazardous Materials, identified at Bell School. The Abatement Contractor should confirm with PBC and/or the EC which specific Hazardous Materials need to be managed/disposed of.

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Alexander Graham Bell Elementary School, 3730 North Oakley Avenue

Room ID/Name:	Girl's/Northwest Bathroom, including entrance vestibule – Third Floor
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**LBP Areas:**

Substrate	Component	Walls				Ceiling	Floor	Response Action	Comments
		N	E	S	W	C	F		
Plaster	Wall	X	X	X	X	X		LBP Mitigation Stabilize Paint, Prepare and Prime as needed for completion for scope of work.	Refer to Contract Documents and architect's drawings, specifications for scope and extent of work. The LPB survey report that includes information about this room can be found in Specification Section 00 10 20. The north wall of the vestibule area should only be mitigated/stabilized if directly impacted by the planned renovation/demolition activities. For the main bathroom, the north wall should only be mitigated/stabilized if directly impacted by the planned renovation/demolition activities.
Metal	Vent		X					LBP Mitigation Stabilize Paint, Prepare and Prime as needed for completion for scope of work.	Refer to Contract Documents and architect's drawings, specifications for scope and extent of work. The LPB survey report that includes information about this room can be found in Specification Section 00 10 20.

**ACM Areas:**

Substrate	Component	Walls				Ceiling	Floor	Response Action	Comments
		N	E	S	W	C	F		
Mudded Fittings								ACM Removal and Disposal.	Refer to Contract Documents and architect's drawings, specifications for scope and extent of work. The ACM survey report that includes information about this room can be found in Specification Section 00 10 20
Preformed Pipe Insulation								ACM Removal and Disposal.	Refer to Contract Documents and architect's drawings, specifications for scope and extent of work. The ACM survey report that includes information about this room can be found in Specification Section 00 10 20.

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Room ID/Name:	Girl's/Northwest Bathroom, including entrance vestibule – Third Floor (continued)
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**Special Waste:**

Substrate	Component	Walls				Ceiling	Floor	Response Action	Comments
		N	E	S	W	C	F		
Mercury Fluorescent Light Bulbs and light ballasts								Removal and Disposal as Special/Universal Waste.	Refer to Contract Documents and architect's drawings, specifications for scope and extent of work. The Haz Mat survey report that includes information about this area can be found in Specification Section 00 10 20. If planned renovation/demolition activities will impact light bulbs and ballasts, that material should be treated as Haz Mat/Universal Waste and addressed accordingly.

**Note:** If the Abatement Contractor discovers material similar to previously identified ACM or LBP during the course of completing renovation and/or demolition activities and that material will be directly impacted during the course of performing any planned renovation and/or demolition activities, it should be treated/managed as ACM or LBP as appropriate. This includes materials discovered in previously inaccessible areas such as beneath or inside walls, in pipe chases, above the ceiling line, etc.

Only LBP described as being in poor or fair condition typically will need to be mitigated or stabilized unless it is directly affected by planned renovation and/or demolition activities.

CPS/Bell School personnel will be responsible for the management of the mercury-containing light bulbs, light ballasts, and select other Hazardous Materials, identified at Bell School. The Abatement Contractor should confirm with PBC and/or the EC which specific Hazardous Materials need to be managed/disposed of.

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Room ID/Name:	Main Hallway – Third Floor
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**LBP Areas:**

Substrate	Component	Walls				Ceiling	Floor	Response Action	Comments
		N	E	S	W	C	F		
Plaster	Wall	X	X		X	X		LBP Mitigation Stabilize Paint, Prepare and Prime as needed for completion for scope of work.	Refer to Contract Documents and architect's drawings, specifications for scope and extent of work. The LBP survey report that includes information about this area can be found in Specification Section 00 10 20. If planned renovation/ demolition activities will impact plaster walls or ceiling, that material should be treated as LBP and addressed accordingly. If replacement of Emergency lighting battery packs and Exit signs impact plaster ceiling, the material should be treated as LBP and addressed accordingly.

**ACM Areas:**

Substrate	Component	Walls				Ceiling	Floor	Response Action	Comments
		N	E	S	W	C	F		
Preformed Pipe Insulation								ACM Removal and Disposal.	Refer to Contract Documents and architect's drawings, specifications for scope and extent of work. The ACM survey report that includes information about this area can be found in Specification Section 00 10 20. Material at this location is not included in ACM Log, however, it is known to exist between the drop ceiling and plaster ceiling along the length of the hallway. If planned renovation/demolition activities will impact piping, that material should be treated as ACM and addressed accordingly.



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	Alexander Graham Bell Elementary School, 3730 North Oakley Avenue

Room ID/Name:	Main Hallway – Third Floor (continued)
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**Special Waste:**

Substrate	Component	Walls				Ceiling	Floor	Response Action	Comments
		N	E	S	W	C	F		
Battery Pack for Emergency Lighting								Removal and Disposal as Special/Universal Waste.	Refer to Contract Documents and architect’s drawings, specifications for scope and extent of work. The Haz Mat survey report that includes information about this area can be found in Specification Section 00 10 20.

**Note:** If the Abatement Contractor discovers material similar to previously identified ACM or LBP during the course of completing renovation and/or demolition activities and that material will be directly impacted during the course of performing any planned renovation and/or demolition activities, it should be treated/managed as ACM or LBP as appropriate. This includes materials discovered in previously inaccessible areas such as beneath or inside walls, in pipe chases, above the ceiling line, etc.

Only LBP described as being in poor or fair condition typically will need to be mitigated or stabilized unless it is directly affected by planned renovation and/or demolition activities.

CPS/Bell School personnel will be responsible for the management of the mercury-containing light bulbs, light ballasts, and select other Hazardous Materials, identified at Bell School. The Abatement Contractor should confirm with PBC and/or the EC which specific Hazardous Materials need to be managed/disposed of.

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CHICAGO PUBLIC SCHOOLS (CPS)**

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Alexander Graham Bell Elementary School, 3730 North Oakley Avenue

Room ID/Name:	Music Room (Room 309) – Third Floor
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**LBP Areas:**

Substrate	Component	Walls				Ceiling	Floor	Response Action	Comments
		N	E	S	W	C	F		
Plaster	Wall	X	X	X	X	X		LBP Mitigation Stabilize Paint, Prepare and Prime as needed for completion for scope of work.	Refer to Contract Documents and architect's drawings, specifications for scope and extent of work. The LPB survey report that includes information about this room can be found in Specification Section 00 10 20. Mitigation/stabilization of the walls is needed to facilitate the planned painting as part of the planned renovation/demolition activities.
Metal	Vent		X					LBP Mitigation Stabilize Paint, Prepare and Prime as needed for completion for scope of work.	Refer to Contract Documents and architect's drawings, specifications for scope and extent of work. The LPB survey report that includes information about this room can be found in Specification Section 00 10 20. Mitigation/stabilization is only needed if it will directly be impacted by the planned renovation/demolition activities.

**ACM Areas:**

Substrate	Component	Walls				Ceiling	Floor	Response Action	Comments
		N	E	S	W	C	F		
Mastic	9" x 9" vinyl Floor tile						X	ACM Removal and Disposal.	Refer to Contract Documents and architect's drawings, specifications for scope and extent of work. The ACM survey report that includes information about this room can be found in Specification Section 00 10 20. ACM floor tile located near main door and connecting door to Room 307.

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Room ID/Name:	Music Room (Room 309) – Third Floor (continued)
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**Special Waste:**

Substrate	Component	Walls				Ceiling	Floor	Response Action	Comments
		N	E	S	W	C	F		
Mercury Fluorescent Light Bulbs and light ballasts								Removal and Disposal as Special/Universal Waste.	Refer to Contract Documents and architect’s drawings, specifications for scope and extent of work. The Haz Mat survey report that includes information about this area can be found in Specification Section 00 10 20. If planned renovation/demolition activities will impact light bulbs and ballasts, that material should be treated as Haz Mat/Universal Waste and addressed accordingly.

**Note:** If the Abatement Contractor discovers material similar to previously identified ACM or LBP during the course of completing renovation and/or demolition activities and that material will be directly impacted during the course of performing any planned renovation and/or demolition activities, it should be treated/managed as ACM or LBP as appropriate. This includes materials discovered in previously inaccessible areas such as beneath or inside walls, in pipe chases, above the ceiling line, etc.

Only LBP described as being in poor or fair condition typically will need to be mitigated or stabilized unless it is directly affected by planned renovation and/or demolition activities.

CPS/Bell School personnel will be responsible for the management of the mercury-containing light bulbs, light ballasts, and select other Hazardous Materials, identified at Bell School. The Abatement Contractor should confirm with PBC and/or the EC which specific Hazardous Materials need to be managed/disposed of.

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Room ID/Name:	Gymnasium – Third Floor
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**LBP Areas:**

Substrate	Component	Walls				Ceiling	Floor	Response Action	Comments
		N	E	S	W	C	F		
Plaster	Wall	X	X	X	X	X		LBP Mitigation Stabilize Paint, Prepare and Prime as needed for completion for scope of work.	Refer to Contract Documents and architect's drawings, specifications for scope and extent of work. The LPB survey report that includes information about this room can be found in Specification Section 00 10 20. Mitigation/stabilization is only needed if it will directly be impacted by the planned renovation/demolition activities.
Metal	Rims of basketball hoops	X	X	X				LBP Mitigation Stabilize Paint, Prepare and Prime as needed for completion for scope of work.	Refer to Contract Documents and architect's drawings, specifications for scope and extent of work. The LPB survey report that includes information about this room can be found in Specification Section 00 10 20.

**ACM Areas:**

Substrate	Component	Walls				Ceiling	Floor	Response Action	Comments
		N	E	S	W	C	F		
None								Not Applicable.	

**Special Waste:**

Substrate	Component	Walls				Ceiling	Floor	Response Action	Comments
		N	E	S	W	C	F		
High Intensity Multi-Vapor® light bulbs								Removal and Disposal as Special/Universal Waste.	Refer to Contract Documents and architect's drawings, specifications for scope and extent of work. The Haz Mat survey report that includes information about this area can be found in Specification Section 00 10 20. If planned renovation/demolition activities will impact light bulbs and ballasts, that material should be treated as Haz Mat/Universal Waste and addressed accordingly.

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**Note:** If the Abatement Contractor discovers material similar to previously identified ACM or LBP during the course of completing renovation and/or demolition activities and that material will be directly impacted during the course of performing any planned renovation and/or demolition activities, it should be treated/managed as ACM or LBP as appropriate. This includes materials discovered in previously inaccessible areas such as beneath or inside walls, in pipe chases, above the ceiling line, etc.

Only LBP described as being in poor or fair condition typically will need to be mitigated or stabilized unless it is directly affected by planned renovation and/or demolition activities.

CPS/Bell School personnel will be responsible for the management of the mercury-containing light bulbs, light ballasts, and select other Hazardous Materials, identified at Bell School. The Abatement Contractor should confirm with PBC and/or the EC which specific Hazardous Materials need to be managed/disposed of.

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Room ID/Name:	Roof – Third Floor
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**LBP Areas:**

Substrate	Component	Walls				Ceiling	Floor	Response Action	Comments
		N	E	S	W	C	F		
Metal	Downspout		X					LBP Mitigation Stabilize Paint, Prepare and Prime as needed for completion for scope of work.	Refer to Contract Documents and architect's drawings, specifications for scope and extent of work. The LPB survey report that includes information about this room can be found in Specification Section 00 10 20. Mitigation/stabilization only needed if renovation/ demolition activities will directly affect the downspout.

**ACM Areas:**

Substrate	Component	Walls				Ceiling	Floor	Response Action	Comments
		N	E	S	W	C	F		
Roof Flashing								ACM Removal and Disposal	Refer to Contract Documents and architect's drawings, specifications for scope and extent of work. The ACM survey report that includes information about this room can be found in Specification Section 00 10 20. Abatement only needed if the planned renovation/demolition activities will directly affect the flashing.
Roof Caulk								ACM Removal and Disposal	Refer to Contract Documents and architect's drawings, specifications for scope and extent of work. The ACM survey report that includes information about this room can be found in Specification Section 00 10 20. Abatement only needed if the planned renovation/demolition activities will directly affect the caulk.

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Room ID/Name:	Roof – Third Floor (continued)
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Room ID/Name	Component	N	E	S	W	C	F	Response Action	Comments
Roof Flashing Caulk								ACM Removal and Disposal	Refer to Contract Documents and architect's drawings, specifications for scope and extent of work. The ACM survey report that includes information about this room can be found in Specification Section 00 10 20. Abatement only needed if the planned renovation/demolition activities will directly affect the caulk.
Roof Caulk Patch								ACM Removal and Disposal	Refer to Contract Documents and architect's drawings, specifications for scope and extent of work. The ACM survey report that includes information about this room can be found in Specification Section 00 10 20. Abatement only needed if the planned renovation/demolition activities will directly affect the patch.

**Special Waste:**

Substrate	Component	Walls				Ceiling	Floor	Response Action	Comments
		N	E	S	W	C	F		
None								Not Applicable.	

**Note:** If the Abatement Contractor discovers material similar to previously identified ACM or LBP during the course of completing renovation and/or demolition activities and that material will be directly impacted during the course of performing any planned renovation and/or demolition activities, it should be treated/managed as ACM or LBP as appropriate. This includes materials discovered in previously inaccessible areas such as beneath or inside walls, in pipe chases, above the ceiling line, etc.

Only LBP described as being in poor or fair condition typically will need to be mitigated or stabilized unless it is directly affected by planned renovation and/or demolition activities.

CPS/Bell School personnel will be responsible for the management of the mercury-containing light bulbs, light ballasts, and select other Hazardous Materials, identified at Bell School. The Abatement Contractor should confirm with PBC and/or the EC which specific Hazardous Materials need to be managed/disposed of.

**ENVIRONMENTAL SCOPE SHEETS  
CHICAGO PUBLIC SCHOOLS (CPS)**

Managing Environmental  
Consultant/Project No.:  
100% Issue Date:  
School:

Environmental Design International inc.  
05530-PS1651D-002  
December 10, 2012  
Alexander Graham Bell Elementary School, 3730 North Oakley Avenue

Room ID/Name:	Rooftop
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**LBP Areas:**

Substrate	Component	Walls				Ceiling	Floor	Response Action	Comments
		N	E	S	W	C	F		
None								Not Applicable	

**ACM Areas:**

Substrate	Component	Walls				Ceiling	Floor	Response Action	Comments
		N	E	S	W	C	F		
Roof Flashing								ACM Removal and Disposal	Refer to Contract Documents and architect's drawings, specifications for scope and extent of work. The ACM survey report that includes information about this room can be found in Specification Section 00 10 20. Abatement only needed if the planned renovation/demolition activities will directly affect the flashing.
Roof Caulk								ACM Removal and Disposal	Refer to Contract Documents and architect's drawings, specifications for scope and extent of work. The ACM survey report that includes information about this room can be found in Specification Section 00 10 20. Abatement only needed if the planned renovation/demolition activities will directly affect the caulk.
Roof Flashing Caulk								ACM Removal and Disposal	Refer to Contract Documents and architect's drawings, specifications for scope and extent of work. The ACM survey report that includes information about this room can be found in Specification Section 00 10 20. Abatement only needed if the planned renovation/demolition activities will directly affect the caulk.



**ENVIRONMENTAL SCOPE SHEETS  
CHICAGO PUBLIC SCHOOLS (CPS)**

Managing Environmental  
Consultant/Project No.:  
100% Issue Date:  
School:

Environmental Design International inc.  
05530-PS1651D-002  
December 10, 2012  
Alexander Graham Bell Elementary School, 3730 North Oakley Avenue

Room ID/Name:	Rooftop (continued)
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Roof Caulk Patch										ACM Removal and Disposal	Refer to Contract Documents and architect's drawings, specifications for scope and extent of work. The ACM survey report that includes information about this room can be found in Specification Section 00 10 20. Abatement only needed if the planned renovation/demolition activities will directly affect the patch.
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**Special Waste:**

Substrate	Component	Walls				Ceiling	Floor	Response Action	Comments
		N	E	S	W	C	F		
None								Not Applicable	

**Note:** If the Abatement Contractor discovers material similar to previously identified ACM or LBP during the course of completing renovation and/or demolition activities and that material will be directly impacted during the course of performing any planned renovation and/or demolition activities, it should be treated/managed as ACM or LBP as appropriate. This includes materials discovered in previously inaccessible areas such as beneath or inside walls, in pipe chases, above the ceiling line, etc.

Only LBP described as being in poor or fair condition typically will need to be mitigated or stabilized unless it is directly affected by planned renovation and/or demolition activities.

CPS/Bell School personnel will be responsible for the management of the mercury-containing light bulbs, light ballasts, and select other Hazardous Materials, identified at Bell School. The Abatement Contractor should confirm with PBC and/or the EC which specific Hazardous Materials need to be managed/disposed of.

**END OF ENVIRONMENTAL SCOPE SHEETS FOR ALEXANDER GRAHAM BELL ELEMENTARY.**

## SECTION 02 86 13

### HAZARDOUS AND UNIVERSAL WASTE MANAGEMENT

#### PART 1 - GENERAL

##### 1.1 SUMMARY

- A. Related Documents: All terms and conditions of the Contract apply to this Section.
- B. Description of Work:
  - 1. This Section describes the segregation, packaging, labeling, transport, and disposal and/or recycling of waste materials generated by demolition/renovation activities and the subsequent shipment of properly packaged and labeled waste materials to open, permitted and Owner-approved disposal sites.
  - 2. The Contractor's Work includes work area preparation; sampling and analysis; on-site handling; supervision of all Work; preparation of reports; protection of on-site persons, utilities and property; and payment of all transport and disposal/recycling fees.

##### 1.2 REFERENCES

- A. General Applicability of Codes and Regulations:

Except to the extent that more explicit or more stringent requirements are written directly into the Contract Documents, all applicable codes and regulations have the same force and effect (and are made a part of the Contract Documents by reference) as if copied directly into the Contract Documents, or as if published copies are bound herewith.
- B. Contractor Responsibility
  - 1. The Contractor shall assume full responsibility and liability for the compliance with all applicable federal, state, and local regulations pertaining to hazardous, special and universal waste management and disposal/recycling.
  - 2. Notice shall be provided to the Owner a minimum of 2 working days prior to the removal of any hazardous, special or universal waste and/or recycled hazardous, special or universal waste from the site.
  - 3. Notice will be provided to the Owner within 4 hours of any environmental problems, complaints, fines, citations or issues by any government body or regulatory agency pertaining to hazardous, special or universal waste management and disposal. Written confirmation will be provided to the Owner within 48 hours of the incident that indicates that all problems and issues have been satisfactory addressed.

C. Federal Requirements:

1. Federal requirements which govern the management, hauling and disposal of hazardous, special and universal waste/recycled material include but are not limited to the following:

a. DOT: U. S. Department of Transportation, including but not limited to the following:

- i. Hazardous Substances, Title 49, Part 171 and 172 of the Code of Federal Regulations.
- ii. Hazardous Material Regulations, General Awareness and Training Requirements for Handlers, Loaders and Drivers, Title 49, Parts 171-180 of the Code of Federal Regulations.
- iii. Hazardous Material Regulations, Editorial and Technical Revisions, Title 49, Parts 171-180 of the Code of Federal Regulations.

b. EPA: U. S. Environmental Protection Agency (EPA), including but not limited to the following:

- i. Management of Hazardous Wastes Resource Conservation and Recovery Act (RCRA), Title 40, Parts 260-299 of the Code of Federal Regulations.
- ii. Polychlorinated Biphenyls (PCBs) Manufacturing, Processing, Distribution In Commerce, and Use Prohibitions, Title 40, Parts 761, of the Code of Federal Regulations.
- iii. Protection of Stratospheric Ozone, Title 40, Part 82 of the Code of Federal Regulations.
- iv. Comprehensive Environmental Response, Compensation and Liability Act (CERCLA), Title 42, Section 103.
- v. Universal Waste Rule, Title 40, Part 273 of the Code of Federal Regulations.

c. LABOR: Occupational Safety and Health Administration, including but not limited to:

- i. Occupational Safety and Health Guidelines, Respiratory Protection, Title 29, Part 1910.134.
- ii. Occupational Safety and Health Guidelines, Occupational Safety and Health Standards, Lead, Title 29, Part 1910.1025.
- iii. Occupational Safety and Health Guidelines, Occupational Safety and Health Standards, Hazard Communication, Title 29, Part 1910.1200.
- iv. Safety and Health Guidelines for Construction, Title 29, Part 1926 of the Code of Federal Regulations.

D. State Requirements: Abide by all state requirements which govern the management, hauling and disposal of hazardous, special and universal waste/recycled material. In Illinois, this includes, but is not limited to the following:

1. Title 35 of the Illinois Administration Code (IAC), including but not limited to the following:
  - a. Wastestream Authorization, IAC Chapter I, Subpart b, Part 709.
  - b. Hazardous Waste Management Systems: General, IAC Chapter I, Subchapter c, Part 720.
  - c. Identification & Listing of Hazardous Waste, IAC Chapter I, Subchapter c, Part 721.
  - d. Standards Applicable to Generators of Hazardous Waste, IAC Chapter I, Subchapter c, Part 722.
  - e. Standards Applicable to Transporters of Hazardous Waste, IAC Chapter I, Subchapter c, Part 723.
  - f. Standards Applicable to Treaters, Storers, and Disposers of Hazardous Waste, IAC Chapter I, Subchapter c, Part 724.
  - g. Interim Status Standards of Hazardous Waste Treaters, Storers, and Disposers, IAC Chapter I, Subchapter c, Part 725.
  - h. Standards for the Management of Specific Hazardous Waste and Specific Types of Hazardous Waste Management Facilities, IAC Chapter I, Subpart c, Part 726.
  - i. Land Disposal Restrictions, IAC Chapter I, Subchapter c, Part 728.
  - j. Universal Waste Management, IAC Chapter I, Subchapter d, Part 733.
  - k. Solid Waste, IAC Chapter I, Subchapter i, Part 807.
  - l. Special Waste Classifications, IAC Chapter I, Subchapter i, Part 808.
  - m. Special Waste Hauling, IAC Chapter I, Subchapter i, Part 809.
  - n. Standards for New Solid Waste Landfills, IAC Chapter I, Subchapter i, Part 811.
  - o. Procedural Requirements for Permitted Landfills, IAC Chapter I, Subchapter i, Part 813.
  - p. Standards for Existing Landfills and Units, IAC Chapter I, Subchapter g, Part 814.
  - q. Standards for Management of Used Oil, IAC Chapter I, Subchapter e, Part 739.
  
- E. Local Requirements: Abide by all local requirements as outlines within the Municipal Code of the City of Chicago which governs the management, hauling, and disposal of hazardous, special and universal waste/recycled material.

### 1.3 DEFINITIONS

- A. Capacitor: A device for accumulating and holding a charge of electricity and consisting of conducting surfaces separated by dielectric fluid.
  
- B. Chemical Waste Landfill: an open and approved landfill, permitted under 35 IAC Subtitle G Part 814 at which protection against risk of injury to health or the environment from migration of PCBs to land, water or the atmosphere is provided from PCBs and PCB items deposited therein by locating, engineering, and operating the landfill as specified in 40 CFR 1761.75.
  
- C. Disposal: Intentionally or accidentally to discard, throw away or otherwise complete or terminate the useful life of PCBs and PCB items. Disposal includes spills, leaks, and other uncontrolled discharges of PCBs as well as actions related to containing, transporting, destroying, degrading, decontaminating, or confining PCBs and PCB items.

- D. CFR: The Code of Federal Regulations is the basic component of the Federal Register publication system. The CFR is a codification of the regulations of the various Federal Agencies.
- E. Component: All removable parts/materials which make up ballasts, bulbs, batteries, and other electrical equipment, a percentage of which can be recycled.
- F. Container: Any portable device, in which material is sorted, transported, treated, disposed of, or otherwise handled.
- G. Disposal Facility: A facility or part of a facility at which hazardous waste is intentionally placed into or on any land or water, and at which waste will remain after closure.
- H. EPA Identification: The unique number assigned by the EPA to each generator or transporter of hazardous waste, and each treatment, storage or disposal facility.
- I. Fluorescent light ballast: A device that electrically controls fluorescent light fixtures and that includes a capacitor containing 0.1 kg or less of dielectric.
- J. Leak - or leaking: Any instance in which PCB Article, PCB Container, or PCB Equipment has any PCBs on any portion of its external surface.
- K. Facility: All contiguous land, structures, other appurtenances, and improvements on the land, used for treating, storing or disposing of hazardous waste. A facility may consist of several treatment, storage, or disposal operational units, e.g. one or more landfills, surface impoundments, or a combination of them.
- L. On-site: Within the boundaries of a contiguous property unit.
- M. Landfill: an open and permitted disposal facility or part of a facility where hazardous and special wastes are placed in or on land, and which is not a land treatment facility, a surface impoundment, or a combination of them.
- N. Manifest: The shipping document, EPA form 7710-53, used for identifying the quantity, composition, origin, routing, and destination of hazardous waste during its transportation from the point of generation to the point of treatment, storage or disposal.
- O. Polychlorinated Biphenyls (PCBs): Any chemical substance that is limited to the biphenyl molecule that has been chlorinated to varying degrees or any combination of substances which contains such substance.
- P. PCB Article Container: Any package, can, bottle, bag, barrel, drum, tank, or other device that contains PCB Articles or PCB Equipment, and whose surface(s) has not been in direct contact with PCBs.
- Q. PCB Container: Any package, can bottle, bag, barrel, drum, tank, or other device that contains PCBs or PCB Articles and whose surface(s) has been in direct contact with PCBs.
- R. PCB Item: Any PCB Article, PCB Article Container, PCB Container, or PCB Equipment, that deliberately or unintentionally contains or has as a part of it any PCB or PCBs.

- S. Recover Refrigerant: To remove refrigerant in any condition from an appliance without necessarily testing or processing it in any way.
- T. Recycle Refrigerant: To extract refrigerant from an appliance and clean refrigerant for reuse without meeting all of the requirements for reclamation. In general, recycled refrigerant is refrigerant that is cleaned using oil separation and single or multiple passes through devices such as replaceable-core filter-driers, which reduce moisture, acidity, and particulate matter.
- U. Reclaim Refrigerant: To reprocess refrigerant to at least the purity specified in Air-Conditioning and Refrigeration Institute (ARI) Standard 700-1988, "Specification for Fluorocarbon refrigerants", and to verify this purity using the analytical methodology prescribed in the standard. In general reclamation involves the use of processes or procedures available only at the processing or manufacturing facility.
- V. Storage: The holding of hazardous waste for a temporary period, at the end of which the hazardous waste is treated, destroyed, disposed of or stored elsewhere.
- W. Toxic Characteristic Leaching Procedure (TCLP): A laboratory test method to determine the mobility of both organic and inorganic compounds present in liquid, solid, and multiphase wastes performed in accordance with test methods required under 40 CFR Part 261 and 268.
- X. Transporter: Any person engaged in the off-site transportation of special waste and/or hazardous waste within the United States, by air, rail, highway or water, if such transportation requires a manifest under 40 CFR Part 262.

#### 1.4 QUALITY ASSURANCE

- A. Work outlined in this Section must be performed by a qualified Contractor, with a minimum of 10 years experience, who is thoroughly familiar with working with regulated waste materials of similar size and scope, the Contractor must be familiar with and capable of complying with all federal, state, and local regulatory requirements pertaining to waste handling.
- B. Medical Examinations: The Contractor shall provide workers with a comprehensive medical examination as required by 29 CFR 1910.134 and 29 CFR 1926.62. The examination will not be required if adequate records show that employees have been examined as required within the last year. The Contractor shall institute a medical surveillance program for all employees who are or may be exposed above the action level for more than 30 days per year.

#### 1.5 WORK INCLUDED

- A. The work includes all labor, equipment, materials, and supplies necessary to perform the Scope of Work in the Documents by the procedures described herein. The contractor, by submitting a bid for the work, represents itself as knowledgeable and expert in the performance of the work, and includes all things usually and customarily necessary to provide a complete and finished job, whether specifically mentioned or not. Related work may be shown in other related documents prepared by others, if applicable and as listed below:

1. Division 01 Section "Summary of Work."

2. Division 01 Section "Submittals."
  3. Division 01 Section "Project Record Documents."
  4. Division 02 Section "Asbestos Abatement - Interior."
  5. Division 02 Section "Asbestos Abatement - Exterior."
  6. Division 02 Section "Lead-Based Paint Mitigation/Abatement."
- B. Compliance with all applicable laws, regulations, standards, and these specifications. In the case of a conflict, the contractor shall comply with the most stringent.
- C. Contractor is required to fully comply with IDPH rules and these specifications unless a variance is granted by IDPH. Any variances obtained by the EC will be listed in the Documents.
- D. All licenses, accreditations, permits, fees, notifications, reports, or other documents required by law, regulation, this specification, or the Documents.
- E. Provide project closeout documentation to the APM within thirty (30) days after final clearance. This documentation shall include, but is not limited to, submittals specified elsewhere in this Section.

#### 1.6 SCOPE OF WORK

- A. The known and suspected hazardous materials and universal wastes identified during the inventory that need to be managed as part of the planned renovation and demolition activities were:
- Battery packs for Emergency Lighting stations along the main hallways (all three floors);
  - Light bulbs and ballast in most rooms throughout the building (all three floors); and
  - Various laboratory chemicals in Room 314B.

Material locations and quantities should be verified by the contractor. The information provided in the ACM Survey Report included in Specification Section 00 10 20 of these Project Specifications is included for information only. Additionally, encountered materials similar to those identified as Haz Mat and Universal Wastes by the survey should also be considered to be Haz Mat and Universal Wastes if encountered during renovation and/or demolition activities. However, it should be noted that some of the material identified in the Haz Mat and Universal Wastes Survey report will be retained by Alexander Graham Bell Elementary School (Bell School) for future use/reuse or management. Among these materials are the light bulbs and light ballasts present in different locations throughout the Bell School building, laboratory chemicals identified by Bell School personnel, and miscellaneous cleaning and other retail products. As much as practical/possible, these materials will be identified/labeled accordingly by school personnel.

- B. More specific details regarding room by room abatement are presented in the Scope Sheets included as Appendix A of this Section.
- C. If other suspect Haz Mat and Universal Wastes are encountered by the AC during abatement activities, those materials must be assessed and then managed appropriately after consulting with PBC.

#### 1.7 SUBMITTALS

- A. Before start of any hazardous waste removal Work, the Contractor must submit a Hazardous Waste Management Plan to the Owner fifteen (15) days prior to the start of Work.

- B. During the work, the Contractor must submit the following to the Owner, with ten (10) days of activity, off-site removal, or completion of work if duration is less:
1. TCLP test results, as required to characterize waste paint chip debris for segregation and packaging purposes prior to transport from the site.
  2. Submit copies of all executed manifests and disposal site receipts and waste quantities within ten (10) days to the Owner.
  3. Receipts for all recycled materials accepted at authorized recycling facilities. The receipts will include the number of components recycled as well as the amount of materials recycled and/or disposed.
  4. Documents for the removal, handling, recycling or disposal of CFC Refrigerant/Reclamation.
  5. Daily Reports – list names of active workers for each day, work starting and stopping times, visitors to the site, and description of Work accomplished.
- C. Submittal Review
1. Review of submittals or any comments made do not relieve the Contractor from compliance with the requirements of the contract specifications and drawings. The purpose of this check is to review for general conformance with the design concept of the project and general compliance with the information given in the Contract Documents.
  2. The Contractor must not begin any Work applicable to this section until all required submittals have been reviewed and accepted by the Owner.

## 1.8 HAZARDOUS WASTE PLAN REQUIREMENTS

- A. The Contractor must prepare a Hazardous Waste Plan designating appropriate procedures and equipment for performing the Work. The Hazardous Waste Plan must address the proper management/handling and disposal/recycling of wastes generated during Work activities. The Contractor's Hazardous Waste Plan for this project must include as a minimum the items listed below:
1. List of Hazardous Waste Equipment
    - a. A description of the proposed equipment to be used during the removal, handling, temporary storage and transport of hazardous materials related to the Work.
  2. Hazardous Material Handling procedures including a description of the method of transportation and storage of each type of hazardous material, for movement on and off site. Contractor shall provide a description of procedures for on-site characterization of chemicals for consolidation prior to disposal/recycling. The plan will include the following documentation for each transporter:



- a. A copy of state and local special waste and/or hazardous waste hauler licenses for each transporter must be provided in the Plan.
  - b. U.S. EPA Identification Number of waste hauler.
  - c. Current list of all transporting vehicles to be used including:
    - i. Vehicles make, model and year.
    - ii. Serial number for each vehicle.
    - iii. Vehicle license number.
    - iv. Number of axels.
    - v. Weight capacity of vehicle.
  - d. A list of all licensed qualified truck drivers. Drivers should be able to provide their drivers license upon request.
  - e. Instances where rail haulers are being used, copies of all applicable permits and licenses for the load on/off site location(s) and/or transfer location(s) will be provided.
3. Contractor shall provide the following documentation for each disposal/recycling facility:
- a. Name and address of waste disposal facility where hazardous waste materials are to be disposed including:
    - i) Contact person and telephone number.
    - ii) Copy of state license and permit.
    - iii) Disposal facility permits.
  - b. A signed statement from an authorized representative of the recycling or disposal facility stating the percentage of recycled materials for each of the components including the estimated percentage pertaining to each component which has no recycling value.
4. Safety Precautions - Personnel
- a. List safety equipment and clothing to be used per OSHA regulations.
  - b. A description of emergency procedures to be followed in case of physical contact, ingestion, inhalation, etc.
5. Emergency Spills
- a. A description of methods to be used for containment.
  - b. A description of methods to be used for collection and disposal.
  - c. A description of methods and materials to be used to restore areas harmed by emergency spills.
6. Lead-containing Paint Management
- a. A description of the work procedures that will be utilized to minimize the generation of airborne lead into the environment.
7. In addition, the Plan will provide:
- a. Specimen copy of Uniform Hazardous Waste Manifest form.
  - b. Copy of EPA "Notice of Hazardous Waste Activity" form.

- c. Copy of forms and permits required by federal, state, and local agencies.
- d. Sample of disposal label(s) to be used.

## **PART 2 - PRODUCTS**

### **2.1 EQUIPMENT/MATERIALS**

- A. Disposal Bags: Provide 6 mil (0.15 mm) thick leak-tight polyethylene bags.
- B. DOT Hazardous Waste Disposal Drums: Provide DOT 17-H Open -Top Drums (55-gallon) in accordance with DOT title 49 CFR Parts 173, 177, 178, and 179.
- C. Fiberboard Drums, cylindrical containers manufactured from sturdy fiberboard will be utilized for storage transportation of electrical equipment.
- D. PCB containing ballasts shall be place in 55-gallon drums with vermiculite packing. The drums will be sealed, and labeled as containing hazardous PCB waste. The label shall also include the name and address of the parcel. However, if ballasts are damaged they shall be stored prior to disposal in accordance with 40 CFR 761.65.
- E. DOT Hazardous Waste Labels: in accordance with DOT regulations Title 49 CFR parts 173, 177, 178, and 179.
- F. Corrugated "Gaylord" Boxes with the use of a liner will be used to store and transport bulk materials which will be kept on pallets during storage and transportation.
- G. Materials to be used to restore areas harmed by emergency spills.
- H. Safety equipment and associated clothing to be used.
- I. Hazardous material manifests and other related forms required by state and local agencies.
- J. Utilize equipment to recover refrigerant that is appropriate for the following:
  - 1. Type of system encountered
  - 2. Refrigerant type
  - 3. Achieving IEPA-mandated vacuum levels

## **PART 3 - EXECUTION**

### **3.1 GENERAL REQUIREMENTS**

- A. The Contractor shall train each employee performing Work prior to the time of initial job assignment in accordance with applicable regulations.
- B. Respiratory Protection Program:

1. The Contractor shall furnish each employee required to wear a negative pressure respirator or other appropriate type with a respirator fit test at the time of initial fitting and at least every 6 months thereafter if required by 29 CFR 1910.1025.
  2. The Contractor shall establish and implement a respiratory protection program as required by 29 CFR 1910.134 and 29 CFR 1926.62.
- C. Hazard Communication Program: Establish and implement a Hazard Communication Program as required by 29 CFR 1910.1200.
  - D. Post warning signs at entry points to hazardous Work area, as necessary.
  - E. Segregate, package, label, transport and dispose of Hazardous Waste in accordance with DOT, EPA, state, and local regulations.
  - F. Scheduling/Sequencing of the demolition and/or abatement is to be coordinated by the Contractor.
  - G. Extreme care shall be used to prevent leakage of chemicals, liquid wastes, refrigerant, etc. during removal processes.
  - H. Do not mix potentially hazardous waste streams or different refrigerants in the same recovery vessel. Where feasible, separate each type of hazardous waste from other types of hazardous wastes and construction waste.
  - I. All electrical circuits shall be de-energized and locked out prior to removal of ballasts. Contractor shall provide temporary lighting as needed.
  - J. The Contractor shall identify the location and Commissionership of all on-site transformers. The contents from each transformer shall be characterized for PCB content by the Contractor for proper disposal.
  - K. Contractor shall determine location and type of each radiological waste. Contractor shall make all arrangements from the proper decommissioning of equipment and disposal of related materials.

### 3.2 HAZARDOUS WASTE DESIGNATION

- A. Where not otherwise designated by the Owner as hazardous waste, characterize applicable suspect waste products by conducting representative TCLP testing and referencing 40 CFR Part 261.
- B. Work shall include characterization and proper disposal of any soot contained within boilers, incinerators, or stacks; maintenance fluids within heating/cooling equipment; hazardous chemicals; storage tanks; or lead content of paint present.
- C. Fluids from transformers, electrical equipment, hydraulic equipment, etc. shall be characterized for PCB content per 40 CFR Part 761.

- D. Representative sampling of waste products will be in accordance with EPA Document SW 846.
- E. TCLP test analysis will be performed in accordance with EPA Method 1311.
- F. Radiological Wastes shall be classified in accordance with the NRC operating agreement.

### 3.3 HAZARDOUS WASTE

- A. The following waste products are designated by the Owner as non-salvageable and as Hazardous Waste Types:
  - 1. Waste Type A: PCB waste.
    - a. PCB-containing ballasts from fluorescent light fixtures.
    - b. PCB-containing electrical transformers and switch gears.
    - c. PCB-containing hydraulic fluid, which can be found within but not limited to the following equipment:
      - i. Hydraulic-lift elevators
      - ii. Hydraulic trash compactors
      - iii. Hydraulic loading dock lifts
  - 2. Waste Type B: Mercury-containing waste.
    - a. Thermostats with mercury switches. Individually bagged mercury-containing thermostats.
    - b. Fluorescent and mercury-vapor lamps/bulbs.
    - c. Thermometers.
    - d. Gauges and regulators (including those found in waste medical equipment).
    - e. Elemental mercury.
  - 3. Waste Type C: Medical Waste.
    - a. Used and unused sharps.
    - b. Contents of bio-hazard waste containers, including drums and bins.
    - c. Surplus medical supplies.
    - d. Contents of medical devices, such as dialysis machines, ventilators.
    - e. Human and animal pathological wastes including tissue samples stored on slides and preserved and unpreserved specimens.
  - 4. Waste Type D: Chemical Wastes.
    - a. Cleaning chemicals such as bleach, ammonia, carpet cleaner, etc.
    - b. Laboratory chemicals such as xylenes, benzene, acetic acid, dyes, formaldehyde, etc.
    - c. Boiler and water treatment chemicals.
    - d. Developing chemicals associated with the processing of x-rays and other photographic images, both used and virgin product.
    - e. Unused medicine.

- f. Building maintenance chemicals such as paint, adhesives, glazing compound, caulk compound, roofing materials, concrete binder, resurfacing compounds, etc.
  - g. Equipment maintenance chemicals such as lubricants, solvents, and oils.
  - h. Fuels, such as gasoline, No. 2 Fuel Oil, and diesel fuel.
  - i. Equipment and vessels containing chemicals, such as fire extinguishers, gas cylinders, batteries, and film developing equipment.
5. Waste Type E: Refrigerants and CFCs
- a. Refrigerators and freezers.
  - b. Air Conditioning units.
  - c. Cryogenic Supplies.
  - d. Bulk storage of refrigerants.
6. Waste Type F: Equipment
- a. Mechanical equipment, such as compressors, generators, compressors, water conditioning vessels, motors, etc.
  - b. Electrical equipment such as televisions, computers, monitors, current controllers, etc.
  - c. Medical equipment such as vital signs monitors, incubators, crash carts, MRIs, ultrasounds, ventilators, dialysis machines, etc.
7. Waste Type G: Radiological Waste
- a. Drummed Radioactive waste.
  - b. Equipment that uses a radioactive source including x-rays, mammograms, CAT scans, electron microscopes, scintillation spectrometers, etc.
  - c. Smoke detectors.
8. Waste Type H: Lead-containing waste.
- a. Lead paint (liquid or containerized paint wastes).
  - b. Lead-contaminated wastes (paint chips, loose debris, etc.).
9. Waste Type I: Other
- a. Drums of hazardous waste generated prior to the start of the contract.
  - b. Wastes accumulated in Crock Pots.
  - c. Lab trap drain wastes.
  - d. Soot encountered in stacks, incinerators, or associated equipment.

### 3.4 HAZARDOUS WASTE PACKAGING AND LABELING

- A. Package each segregated Hazardous Waste Type in containers for offsite removal and disposal/recycle. **IMPORTANT: Do Not Mix Waste Streams.**
  - 1. Waste Types A, B, C and I, as applicable.

- a. Package in DOT 17-H Open-Top Drums polyethylene disposal bag liners in accordance with 49 CFR Parts 171-180.
  - b. Fill to capacity only with waste.
  - c. Install gasket on lid, apply lock ring, and seal.
  - d. Apply Hazardous Waste Label to drum side.
  - e. Enter required DOT shipping data per applicable regulations.
  - f. Adjacent to each label, enter the date indicating when waste was first placed in each drum.
2. Waste Type D – Chemical Wastes
- a. Package other wastes as applicable in accordance with Hazardous Wastes Resource Conservation and Recovery Act (RCRA), Title 40, Parts 260-299 of the Code of Federal Regulations. Overpack drums shall be required as necessary to complete Work.
3. Waste Type E – Refrigerants and CFCs
- a. Reference Section 3.8 for details.
4. Waste Type F – Equipment
- a. Package all equipment in closable and lockable containers for off-site removal. Ensure that all liquids, gases or other regulated materials are removed from equipment, as applicable, prior to placement in containers. Comply with all DOT regulations for each type of equipment.
5. Waste Type G – Radiological Wastes
- a. All radiological equipment shall be packaged and shipped in accordance with 32 IAC 341 regulations.
6. Waste Type H – Lead-containing Wastes
- a. Handle, store, transport, and dispose lead or lead-contaminated waste in accordance with 40 CFR 260, 40 CFR 261, 40 CFR 262, 40 CFR 263, 40 CFR 264, and 40 CFR 265.
  - b. Comply with land disposal restriction notification requirements as required by 40 CFR 268.
  - c. Non-hazardous waste may be disposed of as demolition debris (general refuse).
  - d. Submit results of TCLP testing to the Owner prior to disposal.
- B. Sealed and Labeled Containers: maintain all containers in a continuously sealed condition after they have been sealed.
1. Do not reopen sealed containers

2. Do not place additional waste in sealed containers.

### 3.5 TEMPORARY STORAGE

- A. Partially filled containers of hazardous waste may be stored at the Work site for intermittent packaging provided that the following conditions are met:
  1. Each container is properly labeled when it is first placed in service, including the date;
  2. Each container remains closed at all times except when compatible waste types are added;
  3. Each Work site must be secured and/or attended at all times; and
  4. When moved from site to site, each container remains within the geographic boundaries of the facility without moving nor crossing public access highways; and
  5. **UNDER NO CIRCUMSTANCES WILL THE ACCUMULATED WASTE REMAIN ON SITE BEYOND NINETY (90) DAYS FROM THE DAY THAT ACCUMULATION IN THE CONTAINER WAS INITIATED.**

### 3.6 REMOVAL OF HAZARDOUS WASTES

- A. Immediately seal containers of hazardous waste as each the container is filled. Remove containers of hazardous waste from the Work site within forty-eight (48) hours of being filled.
- B. Transporting filled containers from the Work site to an approved disposal site or recycling center utilizing licensed hauler.
- C. All fluorescent light ballasts shall be removed. Those labeled "NO PCBs" shall be packaged separately from those which indicate PCB or do not indicate PCB condition.
- D. Subject to the Owner's approval, the Contractor shall arrange with the electric utility provider for the removal of transformers which are owned by the utility provider from the site.
- E. Subject to the Owner's approval, the contractor shall remove and dispose of all transformers which are not owned by the electric utility provider.
- F. Continuously maintain custody of all hazardous material generated at the Work site including security, short-term storage, transportation and disposition until custody is transferred to an approved disposal site or recycling center.
- G. Do not remove, or cause to be removed, hazardous waste from the Property without a legally executed Uniform Hazardous Waste manifest.
- H. At completion of hauling and disposal of each load, submit copy of waste manifest, chain of custody form, and landfill receipt to the Owner.

### 3.7 RECYCLING AND RECOVERY

- A. Turn over waste which contains materials for which recovery and/or recycling is possible to an approved recycling center. Materials subject to recycling include, but are not limited to:
1. Fluorescent light tubes.
  2. Lead acid batteries.
  3. Combustible lead-based painted building components and lead-based paint chips.
  4. Televisions and computers.
  5. Ethylene Glycol or other related fluids found within cooling systems.
  6. Mechanical and medical equipment.
  7. Non-PCB-containing oils.
  8. Fuel.
  9. Maintenance chemicals.
  10. Gas cylinders and fire extinguishers.
  11. Lead Shielding Materials.

### 3.8 STORAGE & TRANSPORTATION OF REFRIGERANTS/CFCs

- A. Use proper storage vessel when recovering refrigerants.
1. IDOT containers meeting the ARI standard.
  2. Container working pressure rating must comply with IDOT requirements (49 CFR).
    - a. For Refrigerant HCFC-22: Minimum working pressure rating of 260 psig.
    - b. For Refrigerant CFC-11 (Low-Pressure Refrigerants): Drums of steel construction and designated as 17C or 17E.
  3. Open top and plastic drums shall not be used.
  4. Previously filled, disposable cylinders shall not be used to store or transport recovered refrigerants.
- B. All recovery vessels shall be visually inspected by the Contractor prior to filling. The Contractor shall inspect and provide the following upon request:
1. Verification of proper IDOT specification.
  2. Pressure rating verification.



3. Current hydrostatic test date.
  4. Cylinder shall be free of surface dents and imperfections.
- C. Provide required labeling for recovery vessel.
- D. Return all refrigerant to reclamation facilities to be reprocessed to ARI 700 1988 Standards or dispose in an approved facility.
- E. The Contractor shall provide the Owner with required documents for CFC Refrigerant/Reclamation within ten (10) days.

### 3.9 REMOVAL OF NON-HAZARDOUS WASTE MATERIAL

- A. Transport and legally dispose of non-hazardous waste products, materials, residues and refuse at a location not on City's property.
- B. Non-hazardous waste products, materials, residues and refuse include, but are not necessarily limited to:
1. Materials which are determined to be non-hazardous wastes through objective sampling in accordance with EPA Document SW-846 and laboratory analysis in accordance with EPA Method 1311.
  2. Emptied hazardous material containers: containers holding a material with constituents listed on the MSDS as hazardous.
    - a. When a container is emptied of its hazardous contents by pouring or scraping so that less than one inch of material remains in the bottom of the container, the container is considered "empty" and is not in itself a hazardous waste.
    - b. Emptied hazardous material containers may be disposed of as construction debris waste (i.e. non-hazardous).
  3. Personal protective clothing and safety equipment with de minimis or trace contamination.
- C. Keep premises in a clean and orderly condition during performance of all Work.
- D. Place non-hazardous construction debris wastes in secure containers for local landfill disposal on a daily basis.

**PART 4 – MEASUREMENT AND PAYMENT**

- 4.1 BASE CONTRACT PRICE – All work specified in this Section shall be included in the Base Contract Price, except as noted below.

ATTACHMENT: Appendix A – Environmental Scope Sheets

**END OF SECTION 02 86 13**

**APPENDIX A**

**ENVIRONMENTAL SCOPE SHEETS**

**ENVIRONMENTAL SCOPE SHEETS  
CHICAGO PUBLIC SCHOOLS (CPS)**

Managing Environmental  
Consultant/Project No.:  
100% Issue Date:  
School:

Environmental Design International inc.  
05530-PS1651D-002  
December 10, 2012  
Alexander Graham Bell Elementary School, 3730 North Oakley Avenue

Room ID/Name:	Boy's/Southwest Bathroom, including entrance vestibule – First Floor
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**LBP Areas:**

Substrate	Component	Walls				Ceiling	Floor	Response Action	Comments
		N	E	S	W	C	F		
Plaster	Wall	X	X	X	X	X		LBP Mitigation Stabilize Paint, Prepare and Prime as needed for completion for scope of work.	Refer to Contract Documents and architect's drawings, specifications for scope and extent of work. The LBP survey report that includes information about this room can be found in Specification Section 00 10 20. Bathroom is targeted for complete renovation, therefore, all material should be treated as LBP and addressed accordingly.

**ACM Areas:**

Substrate	Component	Walls				Ceiling	Floor	Response Action	Comments
		N	E	S	W	C	F		
Mudded Fittings								ACM Removal and Disposal	Refer to Contract Documents and architect's drawings, specifications for scope and extent of work. The ACM survey report that includes information about this room can be found in Specification Section 00 10 20.
Preformed Pipe Insulation								ACM Removal and Disposal	Refer to Contract Documents and architect's drawings, specifications for scope and extent of work. The ACM survey report that includes information about this room can be found in Specification Section 00 10 20.

**ENVIRONMENTAL SCOPE SHEETS  
CHICAGO PUBLIC SCHOOLS (CPS)**

Managing Environmental Consultant/Project No.: Environmental Design International inc.  
 05530-PS1651D-002  
 100% Issue Date: December 10, 2012  
 School: Alexander Graham Bell Elementary School, 3730 North Oakley Avenue

Room ID/Name:	Boy's/Southwest Bathroom, including entrance vestibule – First Floor (continued)
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**Special Waste:**

Substrate	Component	Walls				Ceiling	Floor	Response Action	Comments
		N	E	S	W	C	F		
Mercury Fluorescent Light Bulbs and light ballasts								Removal and Disposal as Special/Universal Waste.	Refer to Contract Documents and architect's drawings, specifications for scope and extent of work. The Haz Mat survey report that includes information about this area can be found in Specification Section 00 10 20. If planned renovation/demolition activities will impact light bulbs and ballasts, that material should be treated as Haz Mat/Universal Waste and addressed accordingly.

**Note:** If the Abatement Contractor discovers material similar to previously identified ACM or LBP during the course of completing renovation and/or demolition activities and that material will be directly impacted during the course of performing any planned renovation and/or demolition activities, it should be treated/managed as ACM or LBP as appropriate. This includes materials discovered in previously inaccessible areas such as beneath or inside walls, in pipe chases, above the ceiling line, etc.

Only LBP described as being in poor or fair condition typically will need to be mitigated or stabilized unless it is directly affected by planned renovation and/or demolition activities.

CPS/Bell School personnel will be responsible for the management of the mercury-containing light bulbs, light ballasts, and select other Hazardous Materials, identified at Bell School. The Abatement Contractor should confirm with PBC and/or the EC which specific Hazardous Materials need to be managed/disposed of.

**ENVIRONMENTAL SCOPE SHEETS  
CHICAGO PUBLIC SCHOOLS (CPS)**

Managing Environmental  
Consultant/Project No.:  
100% Issue Date:  
School:

Environmental Design International inc.  
05530-PS1651D-002  
December 10, 2012  
Alexander Graham Bell Elementary School, 3730 North Oakley Avenue

Room ID/Name:	South End of Main Hallway – First Floor
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**LBP Areas:**

Substrate	Component	Walls				Ceiling	Floor	Response Action	Comments
		N	E	S	W	C	F		
Plaster	Wall			X	X	X		LBP Mitigation Stabilize Paint, Prepare and Prime as needed for completion for scope of work.	Refer to Contract Documents and architect's drawings, specifications for scope and extent of work. The LBP survey report that includes information about this area can be found in Specification Section 00 10 20. Lower portion of south wall and middle and upper portions of West wall require mitigation/stabilization if impacted by the planned renovation/demolition activities. If work related to replacement of above ceiling water lines will impact plaster ceiling, the ceiling material should be treated as LBP and addressed accordingly. If replacement of Emergency lighting battery packs and Exit signs impact plaster ceiling, the material should be treated as LBP and addressed accordingly.
Metal	Stair Handrail			X				LBP Mitigation Stabilize Paint, Prepare and Prime as needed for completion for scope of work.	Refer to Contract Documents and architect's drawings, specifications for scope and extent of work. The LBP survey report that includes information about this area can be found in Specification Section 00 10 20. Mitigation/stabilization is only necessary if the stairs are directly impacted by the planned renovation/demolition activities.
Metal	Stair Stringer			X				LBP Mitigation Stabilize Paint, Prepare and Prime as needed for completion for scope of work.	Refer to Contract Documents and architect's drawings, specifications for scope and extent of work. The LBP survey report that includes information about this area can be found in Specification Section 00 10 20. Mitigation/stabilization is only necessary if the stairs are directly impacted by the planned renovation/demolition activities.

**ENVIRONMENTAL SCOPE SHEETS  
CHICAGO PUBLIC SCHOOLS (CPS)**

Managing Environmental  
Consultant/Project No.:  
100% Issue Date:  
School:

Environmental Design International inc.  
05530-PS1651D-002  
December 10, 2012  
Alexander Graham Bell Elementary School, 3730 North Oakley Avenue

Room ID/Name:	South End of Main Hallway – First Floor (continued)
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**ACM Areas:**

Substrate	Component	Walls				Ceiling	Floor	Response Action	Comments
		N	E	S	W	C	F		
Preformed Pipe Insulation								ACM Removal and Disposal	Refer to Contract Documents and architect's drawings, specifications for scope and extent of work. The ACM survey report that includes information about this area can be found in Specification Section 00 10 20. Material at this location is not included in the ACM Log, however, it is known to exist between the drop ceiling and plaster ceiling along the length of the hallway. If it will be impacted by the planned renovation/demolition activities, it must be managed accordingly as ACM.

**Special Waste:**

Substrate	Component	Walls				Ceiling	Floor	Response Action	Comments
		N	E	S	W	C	F		
Battery Pack for Emergency Lighting								Removal and Disposal as Special/Universal Waste.	Refer to Contract Documents and architect's drawings, specifications for scope and extent of work. The Haz Mat survey report that includes information about this area can be found in Specification Section 00 10 20.

**Note:** If the Abatement Contractor discovers material similar to previously identified ACM or LBP during the course of completing renovation and/or demolition activities and that material will be directly impacted during the course of performing any planned renovation and/or demolition activities, it should be treated/managed as ACM or LBP as appropriate. This includes materials discovered in previously inaccessible areas such as beneath or inside walls, in pipe chases, above the ceiling line, etc.

Only LBP described as being in poor or fair condition typically will need to be mitigated or stabilized unless it is directly affected by planned renovation and/or demolition activities.

CPS/Bell School personnel will be responsible for the management of the mercury-containing light bulbs, light ballasts, and select other Hazardous Materials, identified at Bell School. The Abatement Contractor should confirm with PBC and/or the EC which specific Hazardous Materials need to be managed/disposed of.

**ENVIRONMENTAL SCOPE SHEETS  
CHICAGO PUBLIC SCHOOLS (CPS)**

Managing Environmental  
Consultant/Project No.:  
100% Issue Date:  
School:

Environmental Design International inc.  
05530-PS1651D-002  
December 10, 2012  
Alexander Graham Bell Elementary School, 3730 North Oakley Avenue

Room ID/Name:	MDF Room – First Floor
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**LBP Areas:**

Substrate	Component	Walls				Ceiling	Floor	Response Action	Comments
		N	E	S	W	C	F		
Plaster	Wall	X	X	X	X			LBP Mitigation Stabilize Paint, Prepare and Prime as needed for completion for scope of work.	Refer to Contract Documents and architect's drawings, specifications for scope and extent of work. The LBP survey report that includes information about this room can be found in Specification Section 00 10 20. Upper portion of south wall should be mitigated/stabilized if directly impacted by the planned renovation/demolition activities.

**ACM Areas:**

Substrate	Component	Walls				Ceiling	Floor	Response Action	Comments
		N	E	S	W	C	F		
None								Not Applicable	

**Special Waste:**

Substrate	Component	Walls				Ceiling	Floor	Response Action	Comments
		N	E	S	W	C	F		
Mercury Fluorescent Light Bulbs and light ballasts								Removal and Disposal as Special/Universal Waste.	Refer to Contract Documents and architect's drawings, specifications for scope and extent of work. The Haz Mat survey report that includes information about this area can be found in Specification Section 00 10 20. If planned renovation/demolition activities will impact light bulbs and ballasts, that material should be treated as Haz Mat/Universal Waste and addressed accordingly.

**Note:** If the Abatement Contractor discovers material similar to previously identified ACM or LBP during the course of completing renovation and/or demolition activities and that material will be directly impacted during the course of performing any planned renovation and/or demolition activities, it should be treated/managed as ACM or LBP as appropriate. This includes materials discovered in previously inaccessible areas such as beneath or inside walls, in pipe chases, above the ceiling line, etc.

Only LBP described as being in poor or fair condition typically will need to be mitigated or stabilized unless it is directly affected by planned renovation and/or demolition activities.



**ENVIRONMENTAL SCOPE SHEETS  
CHICAGO PUBLIC SCHOOLS (CPS)**

Managing Environmental Consultant/Project No.:	Environmental Design International inc.
100% Issue Date:	05530-PS1651D-002
School:	December 10, 2012
	Alexander Graham Bell Elementary School, 3730 North Oakley Avenue

CPS/Bell School personnel will be responsible for the management of the mercury-containing light bulbs, light ballasts, and select other Hazardous Materials, identified at Bell School. The Abatement Contractor should confirm with PBC and/or the EC which specific Hazardous Materials need to be managed/disposed of.

**ENVIRONMENTAL SCOPE SHEETS  
CHICAGO PUBLIC SCHOOLS (CPS)**

Managing Environmental  
Consultant/Project No.:  
100% Issue Date:  
School:

Environmental Design International inc.  
05530-PS1651D-002  
December 10, 2012  
Alexander Graham Bell Elementary School, 3730 North Oakley Avenue

Room ID/Name:	Room 118 – First Floor
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**LBP Areas:**

Substrate	Component	Walls				Ceiling	Floor	Response Action	Comments
		N	E	S	W	C	F		
Plaster	Wall					X			Refer to Contract Documents and architect's drawings, specifications for scope and extent of work. The LBP survey report that includes information about this room can be found in Specification Section 00 10 20. If work related to replacement of above ceiling water lines will impact plaster ceiling, that material should be treated as LBP and addressed accordingly.

**ACM Areas:**

Substrate	Component	Walls				Ceiling	Floor	Response Action	Comments
		N	E	S	W	C	F		
Preformed Pipe Insulation									Refer to Contract Documents and architect's drawings, specifications for scope and extent of work. The ACM survey report that includes information about this room can be found in Specification Section 00 10 20. Material at this location is not included in ACM Log, however, it is known to exist between the drop ceiling and plaster ceiling. If it will be impacted by renovation/ demolition activities, it must be managed accordingly as ACM.

**ENVIRONMENTAL SCOPE SHEETS  
CHICAGO PUBLIC SCHOOLS (CPS)**

Managing Environmental  
Consultant/Project No.:  
100% Issue Date:  
School:

Environmental Design International inc.  
05530-PS1651D-002  
December 10, 2012  
Alexander Graham Bell Elementary School, 3730 North Oakley Avenue

Room ID/Name:	Room 118 – First Floor (continued)
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**Special Waste:**

Substrate	Component	Walls				Ceiling	Floor	Response Action	Comments
		N	E	S	W	C	F		
Mercury Fluorescent Light Bulbs and light ballasts								Removal and Disposal as Special/Universal Waste.	Refer to Contract Documents and architect’s drawings, specifications for scope and extent of work. The Haz Mat survey report that includes information about this area can be found in Specification Section 00 10 20. If planned renovation/demolition activities will impact light bulbs and ballasts, that material should be treated as Haz Mat/Universal Waste and addressed accordingly.

**Note:** If the Abatement Contractor discovers material similar to previously identified ACM or LBP during the course of completing renovation and/or demolition activities and that material will be directly impacted during the course of performing any planned renovation and/or demolition activities, it should be treated/managed as ACM or LBP as appropriate. This includes materials discovered in previously inaccessible areas such as beneath or inside walls, in pipe chases, above the ceiling line, etc.

Only LBP described as being in poor or fair condition typically will need to be mitigated or stabilized unless it is directly affected by planned renovation and/or demolition activities.

CPS/Bell School personnel will be responsible for the management of the mercury-containing light bulbs, light ballasts, and select other Hazardous Materials, identified at Bell School. The Abatement Contractor should confirm with PBC and/or the EC which specific Hazardous Materials need to be managed/disposed of.

**ENVIRONMENTAL SCOPE SHEETS  
CHICAGO PUBLIC SCHOOLS (CPS)**

Managing Environmental  
Consultant/Project No.:  
100% Issue Date:  
School:

Environmental Design International inc.  
05530-PS1651D-002  
December 10, 2012  
Alexander Graham Bell Elementary School, 3730 North Oakley Avenue

Room ID/Name:	Lunchroom, including Kitchen, north and south storage rooms – First Floor
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**LBP Areas:**

Substrate	Component	Walls				Ceiling	Floor	Response Action	Comments
		N	E	S	W	C	F		
Plaster	Wall		X		X	X		LBP Mitigation Stabilize Paint, Prepare and Prime as needed for completion for scope of work.	Refer to Contract Documents and architect's drawings, specifications for scope and extent of work. The LBP survey report that includes information about this room can be found in Specification Section 00 10 20. Upper portion of east and west walls, soffit on east wall and ceilings should only be mitigated/stabilized if directly impacted by the planned renovation/demolition activities. Kitchen is at north end of space and is being converted into the library. If work related to replacement of above ceiling water lines will impact plaster ceiling, the ceiling material should be treated as LBP and addressed accordingly.

**ENVIRONMENTAL SCOPE SHEETS  
CHICAGO PUBLIC SCHOOLS (CPS)**

Managing Environmental  
Consultant/Project No.:  
100% Issue Date:  
School:

Environmental Design International inc.  
05530-PS1651D-002  
December 10, 2012  
Alexander Graham Bell Elementary School, 3730 North Oakley Avenue

Room ID/Name:	Lunchroom, including Kitchen, north and south storage rooms – First Floor (continued)
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**ACM Areas:**

Substrate	Component	Walls				Ceiling	Floor	Response Action	Comments
		N	E	S	W	C	F		
Mastic	Vinyl Floor Tile						X	ACM Removal and Disposal	Refer to Contract Documents and architect's drawings, specifications for scope and extent of work. The ACM survey report that includes information about this room can be found in Specification Section 00 10 20. Remove all floor tile (12" x 12" and 9" x 9") and mastic throughout the space.
Preformed Pipe Insulation								ACM Removal and Disposal.	Refer to Contract Documents and architect's drawings, specifications for scope and extent of work. The ACM survey report that includes information about this room can be found in Specification Section 00 10 20. Material at this location is not included in ACM Log, however, it is known to exist between the drop ceiling and plaster ceiling. If it will be impacted by renovation/demolition activities, it must be managed accordingly as ACM.

**Special Waste:**

Substrate	Component	Walls				Ceiling	Floor	Response Action	Comments
		N	E	S	W	C	F		
Mercury Fluorescent Light Bulbs and light ballasts								Removal and Disposal as Special/Universal Waste.	Refer to Contract Documents and architect's drawings, specifications for scope and extent of work. The Haz Mat survey report that includes information about this area can be found in Specification Section 00 10 20. If planned renovation/demolition activities will impact light bulbs and ballasts, that material should be treated as Haz Mat/Universal Waste and addressed accordingly.

**Note:** If the Abatement Contractor discovers material similar to previously identified ACM or LBP during the course of completing renovation and/or demolition activities and that material will be directly impacted during the course of performing

**ENVIRONMENTAL SCOPE SHEETS  
CHICAGO PUBLIC SCHOOLS (CPS)**

Managing Environmental Consultant/Project No.: Environmental Design International inc.  
05530-PS1651D-002  
100% Issue Date: December 10, 2012  
School: Alexander Graham Bell Elementary School, 3730 North Oakley Avenue

any planned renovation and/or demolition activities, it should be treated/managed as ACM or LBP as appropriate. This includes materials discovered in previously inaccessible areas such as beneath or inside walls, in pipe chases, above the ceiling line, etc.

Only LBP described as being in poor or fair condition typically will need to be mitigated or stabilized unless it is directly affected by planned renovation and/or demolition activities.

CPS/Bell School personnel will be responsible for the management of the mercury-containing light bulbs, light ballasts, and select other Hazardous Materials, identified at Bell School. The Abatement Contractor should confirm with PBC and/or the EC which specific Hazardous Materials need to be managed/disposed of.

**ENVIRONMENTAL SCOPE SHEETS  
CHICAGO PUBLIC SCHOOLS (CPS)**

Managing Environmental  
Consultant/Project No.:  
100% Issue Date:  
School:

Environmental Design International inc.  
05530-PS1651D-002  
December 10, 2012  
Alexander Graham Bell Elementary School, 3730 North Oakley Avenue

Room ID/Name:	Hallway north of Lunchroom/kitchen/Hallway south of Warm Air and Engine and Blower Rooms – First Floor
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**LBP Areas:**

Substrate	Component	Walls				Ceiling	Floor	Response Action	Comments
		N	E	S	W	C	F		
Plaster	Ceiling					X		LBP Mitigation Stabilize Paint, Prepare and Prime as needed for completion for scope of work.	Refer to Contract Documents and architect's drawings, specifications for scope and extent of work. The LPB survey report that includes information about this room can be found in Specification Section 00 10 20. If planned renovation/ demolition activities will impact plaster ceiling, the ceiling material should be treated as LBP and addressed accordingly.

**ACM Areas:**

Substrate	Component	Walls				Ceiling	Floor	Response Action	Comments
		N	E	S	W	C	F		
None								Not Applicable	

**Special Waste:**

Substrate	Component	Walls				Ceiling	Floor	Response Action	Comments
		N	E	S	W	C	F		
None								Not Applicable.	

**Note:** If the Abatement Contractor discovers material similar to previously identified ACM or LBP during the course of completing renovation and/or demolition activities and that material will be directly impacted during the course of performing any planned renovation and/or demolition activities, it should be treated/managed as ACM or LBP as appropriate. This includes materials discovered in previously inaccessible areas such as beneath or inside walls, in pipe chases, above the ceiling line, etc.

Only LBP described as being in poor or fair condition typically will need to be mitigated or stabilized unless it is directly affected by planned renovation and/or demolition activities.

CPS/Bell School personnel will be responsible for the management of the mercury-containing light bulbs, light ballasts, and select other Hazardous Materials, identified at Bell School. The Abatement Contractor should confirm with PBC and/or the EC which specific Hazardous Materials need to be managed/disposed of.

**ENVIRONMENTAL SCOPE SHEETS  
CHICAGO PUBLIC SCHOOLS (CPS)**

Managing Environmental  
Consultant/Project No.:  
100% Issue Date:  
School:

Environmental Design International inc.  
05530-PS1651D-002  
December 10, 2012  
Alexander Graham Bell Elementary School, 3730 North Oakley Avenue

Room ID/Name:	Tank Room and west adjacent Storage Room (south of Boiler Room) – First Floor
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**LBP Areas:**

Substrate	Component	Walls				Ceiling	Floor	Response Action	Comments
		N	E	S	W	C	F		
Plaster	Ceiling					X		LBP Mitigation Stabilize Paint, Prepare and Prime as needed for completion for scope of work.	Refer to Contract Documents and architect's drawings, specifications for scope and extent of work. The LPB survey report that includes information about this room can be found in Specification Section 00 10 20. If planned renovation/ demolition activities will impact plaster ceiling, the ceiling material should be treated as LBP and addressed accordingly.

**ACM Areas:**

Substrate	Component	Walls				Ceiling	Floor	Response Action	Comments
		N	E	S	W	C	F		
None								Not Applicable	

**Special Waste:**

Substrate	Component	Walls				Ceiling	Floor	Response Action	Comments
		N	E	S	W	C	F		
None								Not Applicable	

**Note:** If the Abatement Contractor discovers material similar to previously identified ACM or LBP during the course of completing renovation and/or demolition activities and that material will be directly impacted during the course of performing any planned renovation and/or demolition activities, it should be treated/managed as ACM or LBP as appropriate. This includes materials discovered in previously inaccessible areas such as beneath or inside walls, in pipe chases, above the ceiling line, etc.

Only LBP described as being in poor or fair condition typically will need to be mitigated or stabilized unless it is directly affected by planned renovation and/or demolition activities.

CPS/Bell School personnel will be responsible for the management of the mercury-containing light bulbs, light ballasts, and select other Hazardous Materials, identified at Bell School. The Abatement Contractor should confirm with PBC and/or the EC which specific Hazardous Materials need to be managed/disposed of.



**ENVIRONMENTAL SCOPE SHEETS  
CHICAGO PUBLIC SCHOOLS (CPS)**

Managing Environmental  
Consultant/Project No.:  
100% Issue Date:  
School:

Environmental Design International inc.  
05530-PS1651D-002  
December 10, 2012  
Alexander Graham Bell Elementary School, 3730 North Oakley Avenue

Room ID/Name:	Boiler Room – First Floor
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**LBP Areas:**

Substrate	Component	Walls				Ceiling	Floor	Response Action	Comments
		N	E	S	W	C	F		
Brick, wood, metal, concrete	Miscellaneous							LBP Mitigation Stabilize Paint, Prepare and Prime as needed for completion for scope of work.	Refer to Contract Documents and architect's drawings, specifications for scope and extent of work. The LBP survey report that includes information about this room can be found in Specification Section 00 10 20. No mitigation/stabilization needed for bathroom or pantry unless affected by the planned renovation/demolition activities. If the planned renovation/demolition activities will impact any identified surfaces including the ceiling, that material should be treated as LBP and addressed accordingly.

**ACM Areas:**

Substrate	Component	Walls				Ceiling	Floor	Response Action	Comments
		N	E	S	W	C	F		
None								Not Applicable	

**ENVIRONMENTAL SCOPE SHEETS  
CHICAGO PUBLIC SCHOOLS (CPS)**

Managing Environmental  
Consultant/Project No.:  
100% Issue Date:  
School:

Environmental Design International inc.  
05530-PS1651D-002  
December 10, 2012  
Alexander Graham Bell Elementary School, 3730 North Oakley Avenue

Room ID/Name:	Boiler Room – First Floor (continued)
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**Special Waste:**

Substrate	Component	Walls				Ceiling	Floor	Response Action	Comments
		N	E	S	W	C	F		
Mercury Fluorescent Light Bulbs and light ballasts								Removal and Disposal as Special/Universal Waste.	Refer to Contract Documents and architect’s drawings, specifications for scope and extent of work. The Haz Mat survey report that includes information about this area can be found in Specification Section 00 10 20. Only light bulbs and ballasts impacted by renovation/demolition activities need to be managed. The school’s building engineer maintains a supply of new bulbs and replacement ballasts in the Boiler Room. These should be relocated prior to the start of renovation or demolition activities.

**Note:** If the Abatement Contractor discovers material similar to previously identified ACM or LBP during the course of completing renovation and/or demolition activities and that material will be directly impacted during the course of performing any planned renovation and/or demolition activities, it should be treated/managed as ACM or LBP as appropriate. This includes materials discovered in previously inaccessible areas such as beneath or inside walls, in pipe chases, above the ceiling line, etc.

Only LBP described as being in poor or fair condition typically will need to be mitigated or stabilized unless it is directly affected by planned renovation and/or demolition activities.

CPS/Bell School personnel will be responsible for the management of the mercury-containing light bulbs, light ballasts, and select other Hazardous Materials, identified at Bell School. The Abatement Contractor should confirm with PBC and/or the EC which specific Hazardous Materials need to be managed/disposed of.

**ENVIRONMENTAL SCOPE SHEETS  
CHICAGO PUBLIC SCHOOLS (CPS)**

Managing Environmental  
Consultant/Project No.:  
100% Issue Date:  
School:

Environmental Design International inc.  
05530-PS1651D-002  
December 10, 2012  
Alexander Graham Bell Elementary School, 3730 North Oakley Avenue

Room ID/Name:	Library (Room 106) – First Floor
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**LBP Areas:**

Substrate	Component	Walls				Ceiling	Floor	Response Action	Comments
		N	E	S	W	C	F		
Plaster	Wall	X	X	X	X			LBP Mitigation Stabilize Paint, Prepare and Prime as needed for completion for scope of work.	Refer to Contract Documents and architect's drawings, specifications for scope and extent of work. The LPB survey report that includes information about this room can be found in Specification Section 00 10 20. Upper and lower portions of all walls should be mitigated/stabilized if directly impacted by the planned renovation/demolition activities.
Wood	Ceiling					X		LBP Mitigation Stabilize Paint, Prepare and Prime as needed for completion for scope of work.	Refer to Contract Documents and architect's drawings, specifications for scope and extent of work. The LPB survey report that includes information about this room can be found in Specification Section 00 10 20. Mitigation/stabilization is only necessary if the ceiling will be directly impacted by the planned renovation/demolition activities.

**ACM Areas:**

Substrate	Component	Walls				Ceiling	Floor	Response Action	Comments
		N	E	S	W	C	F		
None								Not Applicable	

**ENVIRONMENTAL SCOPE SHEETS  
CHICAGO PUBLIC SCHOOLS (CPS)**

Managing Environmental  
Consultant/Project No.:  
100% Issue Date:  
School:

Environmental Design International inc.  
05530-PS1651D-002  
December 10, 2012  
Alexander Graham Bell Elementary School, 3730 North Oakley Avenue

Room ID/Name:	Library (Room 106) – First Floor (continued)
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**Special Waste:**

Substrate	Component	Walls				Ceiling	Floor	Response Action	Comments
		N	E	S	W	C	F		
Mercury Fluorescent Light Bulbs and light ballasts								Removal and Disposal as Special/Universal Waste.	Refer to Contract Documents and architect’s drawings, specifications for scope and extent of work. The Haz Mat survey report that includes information about this area can be found in Specification Section 00 10 20. If planned renovation/demolition activities will impact light bulbs and ballasts, that material should be treated as Haz Mat/Universal Waste and addressed accordingly.

**Note:** If the Abatement Contractor discovers material similar to previously identified ACM or LBP during the course of completing renovation and/or demolition activities and that material will be directly impacted during the course of performing any planned renovation and/or demolition activities, it should be treated/managed as ACM or LBP as appropriate. This includes materials discovered in previously inaccessible areas such as beneath or inside walls, in pipe chases, above the ceiling line, etc.

Only LBP described as being in poor or fair condition typically will need to be mitigated or stabilized unless it is directly affected by planned renovation and/or demolition activities.

CPS/Bell School personnel will be responsible for the management of the mercury-containing light bulbs, light ballasts, and select other Hazardous Materials, identified at Bell School. The Abatement Contractor should confirm with PBC and/or the EC which specific Hazardous Materials need to be managed/disposed of.

**ENVIRONMENTAL SCOPE SHEETS  
CHICAGO PUBLIC SCHOOLS (CPS)**

Managing Environmental  
Consultant/Project No.:  
100% Issue Date:  
School:

Environmental Design International inc.  
05530-PS1651D-002  
December 10, 2012  
Alexander Graham Bell Elementary School, 3730 North Oakley Avenue

Room ID/Name:	Girl's/Northwest Bathroom, including entrance vestibule – First Floor
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**LBP Areas:**

Substrate	Component	Walls				Ceiling	Floor	Response Action	Comments
		N	E	S	W	C	F		
Plaster	Wall	X	X	X	X	X		LBP Mitigation Stabilize Paint, Prepare and Prime as needed for completion for scope of work.	Refer to Contract Documents and architect's drawings, specifications for scope and extent of work. The LBP survey report that includes information about this room can be found in Specification Section 00 10 20. Bathroom is targeted for complete renovation, therefore, all material should be treated as LBP and addressed accordingly.

**ACM Areas:**

Substrate	Component	Walls				Ceiling	Floor	Response Action	Comments
		N	E	S	W	C	F		
Mudded Fittings								ACM Removal and Disposal.	Refer to Contract Documents and architect's drawings, specifications for scope and extent of work. The ACM survey report that includes information about this room can be found in Specification Section 00 10 20.
Preformed Pipe Insulation								ACM Removal and Disposal.	Refer to Contract Documents and architect's drawings, specifications for scope and extent of work. The ACM survey report that includes information about this room can be found in Specification Section 00 10 20.

**ENVIRONMENTAL SCOPE SHEETS  
CHICAGO PUBLIC SCHOOLS (CPS)**

Managing Environmental  
Consultant/Project No.:  
100% Issue Date:  
School:

Environmental Design International inc.  
05530-PS1651D-002  
December 10, 2012  
Alexander Graham Bell Elementary School, 3730 North Oakley Avenue

Room ID/Name:	Girl's/Northwest Bathroom, including entrance vestibule – First Floor (continued)
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**Special Waste:**

Substrate	Component	Walls				Ceiling	Floor	Response Action	Comments
		N	E	S	W	C	F		
Mercury Fluorescent Light Bulbs and light ballasts								Removal and Disposal as Special/Universal Waste.	Refer to Contract Documents and architect's drawings, specifications for scope and extent of work. The Haz Mat survey report that includes information about this area can be found in Specification Section 00 10 20. If planned renovation/demolition activities will impact light bulbs and ballasts, that material should be treated as Haz Mat/Universal Waste and addressed accordingly.

**Note:** If the Abatement Contractor discovers material similar to previously identified ACM or LBP during the course of completing renovation and/or demolition activities and that material will be directly impacted during the course of performing any planned renovation and/or demolition activities, it should be treated/managed as ACM or LBP as appropriate. This includes materials discovered in previously inaccessible areas such as beneath or inside walls, in pipe chases, above the ceiling line, etc.

Only LBP described as being in poor or fair condition typically will need to be mitigated or stabilized unless it is directly affected by planned renovation and/or demolition activities.

CPS/Bell School personnel will be responsible for the management of the mercury-containing light bulbs, light ballasts, and select other Hazardous Materials, identified at Bell School. The Abatement Contractor should confirm with PBC and/or the EC which specific Hazardous Materials need to be managed/disposed of.

**ENVIRONMENTAL SCOPE SHEETS  
CHICAGO PUBLIC SCHOOLS (CPS)**

Managing Environmental  
Consultant/Project No.:  
100% Issue Date:  
School:

Environmental Design International inc.  
05530-PS1651D-002  
December 10, 2012  
Alexander Graham Bell Elementary School, 3730 North Oakley Avenue

Room ID/Name:	Office (Room 100) – First Floor
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**LBP Areas:**

Substrate	Component	Walls				Ceiling	Floor	Response Action	Comments
		N	E	S	W	C	F		
Plaster	Wall		X	X	X	X		LBP Mitigation Stabilize Paint, Prepare and Prime as needed for completion for scope of work.	Refer to Contract Documents and architect's drawings, specifications for scope and extent of work. The LBP survey report that includes information about this room can be found in Specification Section 00 10 20. North wall should be only be mitigated/stabilized if directly impacted by the planned renovation/demolition activities.

**ACM Areas:**

Substrate	Component	Walls				Ceiling	Floor	Response Action	Comments
		N	E	S	W	C	F		
None								Not Applicable	

**Special Waste:**

Substrate	Component	Walls				Ceiling	Floor	Response Action	Comments
		N	E	S	W	C	F		
Mercury Fluorescent Light Bulbs and light ballasts								Removal and Disposal as Special/Universal Waste.	Refer to Contract Documents and architect's drawings, specifications for scope and extent of work. The Haz Mat survey report that includes information about this area can be found in Specification Section 00 10 20. If planned renovation/demolition activities will impact light bulbs and ballasts, that material should be treated as Haz Mat/Universal Waste and addressed accordingly.

**Note:** If the Abatement Contractor discovers material similar to previously identified ACM or LBP during the course of completing renovation and/or demolition activities and that material will be directly impacted during the course of performing any planned renovation and/or demolition activities, it should be treated/managed as ACM or LBP as appropriate. This includes materials discovered in previously inaccessible areas such as beneath or inside walls, in pipe chases, above the ceiling line, etc.

Only LBP described as being in poor or fair condition typically will need to be mitigated or stabilized unless it is directly affected by planned renovation and/or demolition activities.

**ENVIRONMENTAL SCOPE SHEETS  
CHICAGO PUBLIC SCHOOLS (CPS)**

Managing Environmental Consultant/Project No.:	Environmental Design International inc.
100% Issue Date:	05530-PS1651D-002
School:	December 10, 2012
	Alexander Graham Bell Elementary School, 3730 North Oakley Avenue

CPS/Bell School personnel will be responsible for the management of the mercury-containing light bulbs, light ballasts, and select other Hazardous Materials, identified at Bell School. The Abatement Contractor should confirm with PBC and/or the EC which specific Hazardous Materials need to be managed/disposed of.



**ENVIRONMENTAL SCOPE SHEETS  
CHICAGO PUBLIC SCHOOLS (CPS)**

Managing Environmental  
Consultant/Project No.:  
100% Issue Date:  
School:

Environmental Design International inc.  
05530-PS1651D-002  
December 10, 2012  
Alexander Graham Bell Elementary School, 3730 North Oakley Avenue

Room ID/Name:	Vestibule B/Hallway north of Auditorium – First Floor
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**LBP Areas:**

Substrate	Component	Walls				Ceiling	Floor	Response Action	Comments
		N	E	S	W	C	F		
Plaster	Wall	X	X	X	X			LBP Mitigation Stabilize Paint, Prepare and Prime as needed for completion for scope of work.	Refer to Contract Documents and architect's drawings, specifications for scope and extent of work. The LBP survey report that includes information about this area can be found in Specification Section 00 10 20. If planned renovation/demolition activities will impact plaster walls, that material should be treated as LBP and addressed accordingly.

**ACM Areas:**

Substrate	Component	Walls				Ceiling	Floor	Response Action	Comments
		N	E	S	W	C	F		
None								Not Applicable	

**Special Waste:**

Substrate	Component	Walls				Ceiling	Floor	Response Action	Comments
		N	E	S	W	C	F		
Mercury Fluorescent Light Bulbs and light ballasts								Removal and Disposal as Special/Universal Waste.	Refer to Contract Documents and architect's drawings, specifications for scope and extent of work. The Haz Mat survey report that includes information about this area can be found in Specification Section 00 10 20. If planned renovation/demolition activities will impact light bulbs and ballasts, that material should be treated as Haz Mat/Universal Waste and addressed accordingly.

**Note:** If the Abatement Contractor discovers material similar to previously identified ACM or LBP during the course of completing renovation and/or demolition activities and that material will be directly impacted during the course of performing any planned renovation and/or demolition activities, it should be treated/managed as ACM or LBP as appropriate. This includes materials discovered in previously inaccessible areas such as beneath or inside walls, in pipe chases, above the ceiling line, etc.

**ENVIRONMENTAL SCOPE SHEETS  
CHICAGO PUBLIC SCHOOLS (CPS)**

Managing Environmental Consultant/Project No.: Environmental Design International inc.  
100% Issue Date: 05530-PS1651D-002  
December 10, 2012  
School: Alexander Graham Bell Elementary School, 3730 North Oakley Avenue

Only LBP described as being in poor or fair condition typically will need to be mitigated or stabilized unless it is directly affected by planned renovation and/or demolition activities.

CPS/Bell School personnel will be responsible for the management of the mercury-containing light bulbs, light ballasts, and select other Hazardous Materials, identified at Bell School. The Abatement Contractor should confirm with PBC and/or the EC which specific Hazardous Materials need to be managed/disposed of.

**ENVIRONMENTAL SCOPE SHEETS  
CHICAGO PUBLIC SCHOOLS (CPS)**

Managing Environmental  
Consultant/Project No.:  
100% Issue Date:  
School:

Environmental Design International inc.  
05530-PS1651D-002  
December 10, 2012  
Alexander Graham Bell Elementary School, 3730 North Oakley Avenue

Room ID/Name:	Auditorium – First Floor
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**LBP Areas:**

Substrate	Component	Walls				Ceiling	Floor	Response Action	Comments
		N	E	S	W	C	F		
Plaster	Ceiling					X			Refer to Contract Documents and architect's drawings, specifications for scope and extent of work. The LBP survey report that includes information about this room can be found in Specification Section 00 10 20. Mitigation/stabilization of plaster ceiling is only needed if planned renovation/demolition activities will impact plaster ceiling. If impacted, the ceiling material should be treated as LBP and addressed accordingly.

**ACM Areas:**

Substrate	Component	Walls				Ceiling	Floor	Response Action	Comments
		N	E	S	W	C	F		
None								Not Applicable	

**Special Waste:**

Substrate	Component	Walls				Ceiling	Floor	Response Action	Comments
		N	E	S	W	C	F		
Mercury Fluorescent Light Bulbs and light ballasts								Removal and Disposal as Special/Universal Waste.	Refer to Contract Documents and architect's drawings, specifications for scope and extent of work. The Haz Mat survey report that includes information about this area can be found in Specification Section 00 10 20. If planned renovation/demolition activities will impact light bulbs and ballasts, that material should be treated as Haz Mat/Universal Waste and addressed accordingly.

**Note:** If the Abatement Contractor discovers material similar to previously identified ACM or LBP during the course of completing renovation and/or demolition activities and that material will be directly impacted during the course of performing any planned renovation and/or demolition activities, it should be treated/managed as ACM or LBP as appropriate. This includes materials discovered in previously inaccessible areas such as beneath or inside walls, in pipe chases, above the ceiling line, etc.

**ENVIRONMENTAL SCOPE SHEETS  
CHICAGO PUBLIC SCHOOLS (CPS)**

Managing Environmental Consultant/Project No.: Environmental Design International inc.  
100% Issue Date: 05530-PS1651D-002  
December 10, 2012  
School: Alexander Graham Bell Elementary School, 3730 North Oakley Avenue

Only LBP described as being in poor or fair condition typically will need to be mitigated or stabilized unless it is directly affected by planned renovation and/or demolition activities.

CPS/Bell School personnel will be responsible for the management of the mercury-containing light bulbs, light ballasts, and select other Hazardous Materials, identified at Bell School. The Abatement Contractor should confirm with PBC and/or the EC which specific Hazardous Materials need to be managed/disposed of.

**ENVIRONMENTAL SCOPE SHEETS  
CHICAGO PUBLIC SCHOOLS (CPS)**

Managing Environmental  
Consultant/Project No.:  
100% Issue Date:  
School:

Environmental Design International inc.  
05530-PS1651D-002  
December 10, 2012  
Alexander Graham Bell Elementary School, 3730 North Oakley Avenue

Room ID/Name:	Main Hallway – First Floor
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**LBP Areas:**

Substrate	Component	Walls				Ceiling	Floor	Response Action	Comments
		N	E	S	W	C	F		
Plaster	Wall	X	X		X	X		LBP Mitigation Stabilize Paint, Prepare and Prime as needed for completion for scope of work.	Refer to Contract Documents and architect's drawings, specifications for scope and extent of work. The LBP survey report that includes information about this area can be found in Specification Section 00 10 20. If planned renovation/ demolition activities will impact plaster walls or ceiling, that material should be treated as LBP and addressed accordingly. If replacement of Emergency lighting battery packs and Exit signs impact plaster ceiling, the material should be treated as LBP and addressed accordingly.

**ACM Areas:**

Substrate	Component	Walls				Ceiling	Floor	Response Action	Comments
		N	E	S	W	C	F		
Preformed Pipe Insulation								ACM Removal and Disposal.	Refer to Contract Documents and architect's drawings, specifications for scope and extent of work. The ACM survey report that includes information about this area can be found in Specification Section 00 10 20. Material at this location is not included in ACM Log, however, it is known to exist between the drop ceiling and plaster ceiling along the length of the hallway. If planned renovation/demolition activities will impact piping, that material should be treated as ACM and addressed accordingly.

**ENVIRONMENTAL SCOPE SHEETS  
CHICAGO PUBLIC SCHOOLS (CPS)**

Managing Environmental Consultant/Project No.: Environmental Design International inc.  
 05530-PS1651D-002  
 100% Issue Date: December 10, 2012  
 School: Alexander Graham Bell Elementary School, 3730 North Oakley Avenue

Room ID/Name:	Main Hallway – First Floor (continued)
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**Special Waste:**

Substrate	Component	Walls				Ceiling	Floor	Response Action	Comments
		N	E	S	W	C	F		
Battery Pack for Emergency Lighting								Removal and Disposal as Special/Universal Waste.	Refer to Contract Documents and architect’s drawings, specifications for scope and extent of work. The Haz Mat survey report that includes information about this area can be found in Specification Section 00 10 20.

**Note:** If the Abatement Contractor discovers material similar to previously identified ACM or LBP during the course of completing renovation and/or demolition activities and that material will be directly impacted during the course of performing any planned renovation and/or demolition activities, it should be treated/managed as ACM or LBP as appropriate. This includes materials discovered in previously inaccessible areas such as beneath or inside walls, in pipe chases, above the ceiling line, etc.

Only LBP described as being in poor or fair condition typically will need to be mitigated or stabilized unless it is directly affected by planned renovation and/or demolition activities.

CPS/Bell School personnel will be responsible for the management of the mercury-containing light bulbs, light ballasts, and select other Hazardous Materials, identified at Bell School. The Abatement Contractor should confirm with PBC and/or the EC which specific Hazardous Materials need to be managed/disposed of.

**ENVIRONMENTAL SCOPE SHEETS  
CHICAGO PUBLIC SCHOOLS (CPS)**

Managing Environmental  
Consultant/Project No.:  
100% Issue Date:  
School:

Environmental Design International inc.  
05530-PS1651D-002  
December 10, 2012  
Alexander Graham Bell Elementary School, 3730 North Oakley Avenue

Room ID/Name:	Boy's/Southwest Bathroom, including entrance vestibule – Second Floor
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**LBP Areas:**

Substrate	Component	Walls				Ceiling	Floor	Response Action	Comments
		N	E	S	W	C	F		
Plaster	Wall	X	X	X	X	X		LBP Mitigation Stabilize Paint, Prepare and Prime as needed for completion for scope of work.	Refer to Contract Documents and architect's drawings, specifications for scope and extent of work. The LBP survey report that includes information about this room can be found in Specification Section 00 10 20. Bathroom is targeted for complete renovation, therefore, all material should be treated as LBP and addressed accordingly.

**ACM Areas:**

Substrate	Component	Walls				Ceiling	Floor	Response Action	Comments
		N	E	S	W	C	F		
Mudded Fittings								ACM Removal and Disposal	Refer to Contract Documents and architect's drawings, specifications for scope and extent of work. The ACM survey report that includes information about this room can be found in Specification Section 00 10 20.
Preformed Pipe Insulation								ACM Removal and Disposal	Refer to Contract Documents and architect's drawings, specifications for scope and extent of work. The ACM survey report that includes information about this room can be found in Specification Section 00 10 20.

**ENVIRONMENTAL SCOPE SHEETS  
CHICAGO PUBLIC SCHOOLS (CPS)**

Managing Environmental Consultant/Project No.: Environmental Design International inc.  
 05530-PS1651D-002  
 100% Issue Date: December 10, 2012  
 School: Alexander Graham Bell Elementary School, 3730 North Oakley Avenue

Room ID/Name:	Boy's/Southwest Bathroom, including entrance vestibule – Second Floor (continued)
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**Special Waste:**

Substrate	Component	Walls				Ceiling	Floor	Response Action	Comments
		N	E	S	W	C	F		
Mercury Fluorescent Light Bulbs and light ballasts								Removal and Disposal as Special/Universal Waste.	Refer to Contract Documents and architect's drawings, specifications for scope and extent of work. The Haz Mat survey report that includes information about this area can be found in Specification Section 00 10 20. If planned renovation/demolition activities will impact light bulbs and ballasts, that material should be treated as Haz Mat/Universal Waste and addressed accordingly.

**Note:** If the Abatement Contractor discovers material similar to previously identified ACM or LBP during the course of completing renovation and/or demolition activities and that material will be directly impacted during the course of performing any planned renovation and/or demolition activities, it should be treated/managed as ACM or LBP as appropriate. This includes materials discovered in previously inaccessible areas such as beneath or inside walls, in pipe chases, above the ceiling line, etc.

Only LBP described as being in poor or fair condition typically will need to be mitigated or stabilized unless it is directly affected by planned renovation and/or demolition activities.

CPS/Bell School personnel will be responsible for the management of the mercury-containing light bulbs, light ballasts, and select other Hazardous Materials, identified at Bell School. The Abatement Contractor should confirm with PBC and/or the EC which specific Hazardous Materials need to be managed/disposed of.



**ENVIRONMENTAL SCOPE SHEETS  
CHICAGO PUBLIC SCHOOLS (CPS)**

Managing Environmental  
Consultant/Project No.:  
100% Issue Date:  
School:

Environmental Design International inc.  
05530-PS1651D-002  
December 10, 2012  
Alexander Graham Bell Elementary School, 3730 North Oakley Avenue

Room ID/Name:	South End of Main Hallway – Second Floor
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**LBP Areas:**

Substrate	Component	Walls				Ceiling	Floor	Response Action	Comments
		N	E	S	W	C	F		
Plaster	Wall			X	X			LBP Mitigation Stabilize Paint, Prepare and Prime as needed for completion for scope of work.	Refer to Contract Documents and architect's drawings, specifications for scope and extent of work. The LPB survey report that includes information about this area can be found in Specification Section 00 10 20. Lower portion of south and west walls will require mitigation/stabilization if directly impacted by renovation/demolition activities. If replacement of Emergency lighting battery packs and Exit signs impact plaster ceiling, the material should be treated as LBP and addressed accordingly.
Metal	Stair Handrail			X				LBP Mitigation Stabilize Paint, Prepare and Prime as needed for completion for scope of work.	Refer to Contract Documents and architect's drawings, specifications for scope and extent of work. The LPB survey report that includes information about this area can be found in Specification Section 00 10 20. Mitigation/stabilization only needed if the planned renovation/demolition activities will directly affect the stairs.
Metal	Stair Stringer			X				LBP Mitigation Stabilize Paint, Prepare and Prime as needed for completion for scope of work.	Refer to Contract Documents and architect's drawings, specifications for scope and extent of work. The LPB survey report that includes information about this area can be found in Specification Section 00 10 20. Mitigation/stabilization only needed if the planned renovation/demolition activities will directly affect the stairs.



**ENVIRONMENTAL SCOPE SHEETS  
CHICAGO PUBLIC SCHOOLS (CPS)**

Managing Environmental  
Consultant/Project No.:  
100% Issue Date:  
School:

Environmental Design International inc.  
05530-PS1651D-002  
December 10, 2012  
Alexander Graham Bell Elementary School, 3730 North Oakley Avenue

Room ID/Name:	Room 202 – Second Floor
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**LBP Areas:**

Substrate	Component	Walls				Ceiling	Floor	Response Action	Comments
		N	E	S	W	C	F		
Plaster (closet only)	Wall	X	X	X				LBP Mitigation Stabilize Paint, Prepare and Prime as needed for completion for scope of work.	Refer to Contract Documents and architect's drawings, specifications for scope and extent of work. The LBP survey report that includes information about this room can be found in Specification Section 00 10 20. Mitigation/stabilization only needed if renovation/demolition activities will directly affect the closet.

**ACM Areas:**

Substrate	Component	Walls				Ceiling	Floor	Response Action	Comments
		N	E	S	W	C	F		
None								Not Applicable	

**Special Waste:**

Substrate	Component	Walls				Ceiling	Floor	Response Action	Comments
		N	E	S	W	C	F		
Mercury Fluorescent Light Bulbs and light ballasts								Removal and Disposal as Special/Universal Waste.	Refer to Contract Documents and architect's drawings, specifications for scope and extent of work. The Haz Mat survey report that includes information about this area can be found in Specification Section 00 10 20. If planned renovation/demolition activities will impact light bulbs and ballasts, that material should be treated as Haz Mat/Universal Waste and addressed accordingly.

**Note:** If the Abatement Contractor discovers material similar to previously identified ACM or LBP during the course of completing renovation and/or demolition activities and that material will be directly impacted during the course of performing any planned renovation and/or demolition activities, it should be treated/managed as ACM or LBP as appropriate. This includes materials discovered in previously inaccessible areas such as beneath or inside walls, in pipe chases, above the ceiling line, etc.

Only LBP described as being in poor or fair condition typically will need to be mitigated or stabilized unless it is directly affected by planned renovation and/or demolition activities.

**ENVIRONMENTAL SCOPE SHEETS  
CHICAGO PUBLIC SCHOOLS (CPS)**

Managing Environmental Consultant/Project No.:	Environmental Design International inc.
100% Issue Date:	05530-PS1651D-002
School:	December 10, 2012
	Alexander Graham Bell Elementary School, 3730 North Oakley Avenue

CPS/Bell School personnel will be responsible for the management of the mercury-containing light bulbs, light ballasts, and select other Hazardous Materials, identified at Bell School. The Abatement Contractor should confirm with PBC and/or the EC which specific Hazardous Materials need to be managed/disposed of.

**ENVIRONMENTAL SCOPE SHEETS  
CHICAGO PUBLIC SCHOOLS (CPS)**

Managing Environmental  
Consultant/Project No.:  
100% Issue Date:  
School:

Environmental Design International inc.  
05530-PS1651D-002  
December 10, 2012  
Alexander Graham Bell Elementary School, 3730 North Oakley Avenue

Room ID/Name:	Girl's/Northwest Bathroom, including entrance vestibule – Second Floor
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**LBP Areas:**

Substrate	Component	Walls				Ceiling	Floor	Response Action	Comments
		N	E	S	W	C	F		
Plaster	Wall	X	X	X	X	X		LBP Mitigation Stabilize Paint, Prepare and Prime as needed for completion for scope of work.	Refer to Contract Documents and architect's drawings, specifications for scope and extent of work. The LBP survey report that includes information about this room can be found in Specification Section 00 10 20. Bathroom is targeted for complete renovation, therefore, all material should be treated as LBP and addressed accordingly.

**ACM Areas:**

Substrate	Component	Walls				Ceiling	Floor	Response Action	Comments
		N	E	S	W	C	F		
Mudded Fittings								ACM Removal and Disposal	Refer to Contract Documents and architect's drawings, specifications for scope and extent of work. The ACM survey report that includes information about this room can be found in Specification Section 00 10 20.
Preformed Pipe Insulation								ACM Removal and Disposal	Refer to Contract Documents and architect's drawings, specifications for scope and extent of work. The ACM survey report that includes information about this room can be found in Specification Section 00 10 20.

**ENVIRONMENTAL SCOPE SHEETS  
CHICAGO PUBLIC SCHOOLS (CPS)**

Managing Environmental Consultant/Project No.: Environmental Design International inc.  
 05530-PS1651D-002  
 100% Issue Date: December 10, 2012  
 School: Alexander Graham Bell Elementary School, 3730 North Oakley Avenue

Room ID/Name:	Girl's/Northwest Bathroom, including entrance vestibule – Second Floor (continued)
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**Special Waste:**

Substrate	Component	Walls				Ceiling	Floor	Response Action	Comments
		N	E	S	W	C	F		
Mercury Fluorescent Light Bulbs and light ballasts								Removal and Disposal as Special/Universal Waste.	Refer to Contract Documents and architect's drawings, specifications for scope and extent of work. The Haz Mat survey report that includes information about this area can be found in Specification Section 00 10 20. If planned renovation/demolition activities will impact light bulbs and ballasts, that material should be treated as Haz Mat/Universal Waste and addressed accordingly.

**Note:** If the Abatement Contractor discovers material similar to previously identified ACM or LBP during the course of completing renovation and/or demolition activities and that material will be directly impacted during the course of performing any planned renovation and/or demolition activities, it should be treated/managed as ACM or LBP as appropriate. This includes materials discovered in previously inaccessible areas such as beneath or inside walls, in pipe chases, above the ceiling line, etc.

Only LBP described as being in poor or fair condition typically will need to be mitigated or stabilized unless it is directly affected by planned renovation and/or demolition activities.

CPS/Bell School personnel will be responsible for the management of the mercury-containing light bulbs, light ballasts, and select other Hazardous Materials, identified at Bell School. The Abatement Contractor should confirm with PBC and/or the EC which specific Hazardous Materials need to be managed/disposed of.

**ENVIRONMENTAL SCOPE SHEETS  
CHICAGO PUBLIC SCHOOLS (CPS)**

Managing Environmental  
Consultant/Project No.:  
100% Issue Date:  
School:

Environmental Design International inc.  
05530-PS1651D-002  
December 10, 2012  
Alexander Graham Bell Elementary School, 3730 North Oakley Avenue

Room ID/Name:	Hallway north of Auditorium Balcony – Second Floor
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**LBP Areas:**

Substrate	Component	Walls				Ceiling	Floor	Response Action	Comments
		N	E	S	W	C	F		
Plaster	Wall	X	X	X	X			LBP Mitigation Stabilize Paint, Prepare and Prime as needed for completion for scope of work.	Refer to Contract Documents and architect's drawings, specifications for scope and extent of work. The LPB survey report that includes information about this area can be found in Specification Section 00 10 20. Walls will require mitigation/stabilization if directly impacted by renovation/demolition activities.
Metal	Stair Riser		X					LBP Mitigation Stabilize Paint, Prepare and Prime as needed for completion for scope of work.	Refer to Contract Documents and architect's drawings, specifications for scope and extent of work. The LPB survey report that includes information about this area can be found in Specification Section 00 10 20. Mitigation/stabilization only needed if the planned renovation/demolition activities will directly affect the stairs.
Metal	Stair Handrail		X					LBP Mitigation Stabilize Paint, Prepare and Prime as needed for completion for scope of work.	Refer to Contract Documents and architect's drawings, specifications for scope and extent of work. The LPB survey report that includes information about this area can be found in Specification Section 00 10 20. Mitigation/stabilization only needed if the planned renovation/demolition activities will directly affect the stairs.

**ENVIRONMENTAL SCOPE SHEETS  
CHICAGO PUBLIC SCHOOLS (CPS)**

Managing Environmental  
Consultant/Project No.:  
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Environmental Design International inc.  
05530-PS1651D-002  
December 10, 2012  
Alexander Graham Bell Elementary School, 3730 North Oakley Avenue

Room ID/Name:	Hallway north of Auditorium Balcony – Second Floor (continued)
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Metal	Stair Stringer								LBP Mitigation Stabilize Paint, Prepare and Prime as needed for completion for scope of work.	Refer to Contract Documents and architect's drawings, specifications for scope and extent of work. The LPB survey report that includes information about this area can be found in Specification Section 00 10 20. Mitigation/stabilization only needed if the planned renovation/demolition activities will directly affect the stairs.
Metal	Newel Post		X						LBP Mitigation Stabilize Paint, Prepare and Prime as needed for completion for scope of work.	Refer to Contract Documents and architect's drawings, specifications for scope and extent of work. The LPB survey report that includes information about this area can be found in Specification Section 00 10 20. Mitigation/stabilization only needed if the planned renovation/demolition activities will directly affect the stairs.
Metal	Door		X						LBP Mitigation Stabilize Paint, Prepare and Prime as needed for completion for scope of work.	Refer to Contract Documents and architect's drawings, specifications for scope and extent of work. The LPB survey report that includes information about this area can be found in Specification Section 00 10 20. Mitigation/stabilization only needed if the planned renovation/demolition activities will directly affect the door.

**ACM Areas:**

Substrate	Component	Walls				Ceiling	Floor	Response Action	Comments
		N	E	S	W	C	F		
None								Not Applicable	



**ENVIRONMENTAL SCOPE SHEETS  
CHICAGO PUBLIC SCHOOLS (CPS)**

Managing Environmental  
Consultant/Project No.:  
100% Issue Date:  
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Environmental Design International inc.  
05530-PS1651D-002  
December 10, 2012  
Alexander Graham Bell Elementary School, 3730 North Oakley Avenue

Room ID/Name:	Hallway north of Auditorium Balcony – Second Floor (continued)
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**Special Waste:**

Substrate	Component	Walls				Ceiling	Floor	Response Action	Comments
		N	E	S	W	C	F		
Mercury Fluorescent Light Bulbs and light ballasts								Removal and Disposal as Special/Universal Waste.	Refer to Contract Documents and architect’s drawings, specifications for scope and extent of work. The Haz Mat survey report that includes information about this area can be found in Specification Section 00 10 20. If planned renovation/demolition activities will impact light bulbs and ballasts, that material should be treated as Haz Mat/Universal Waste and addressed accordingly.

**Note:** If the Abatement Contractor discovers material similar to previously identified ACM or LBP during the course of completing renovation and/or demolition activities and that material will be directly impacted during the course of performing any planned renovation and/or demolition activities, it should be treated/managed as ACM or LBP as appropriate. This includes materials discovered in previously inaccessible areas such as beneath or inside walls, in pipe chases, above the ceiling line, etc.

Only LBP described as being in poor or fair condition typically will need to be mitigated or stabilized unless it is directly affected by planned renovation and/or demolition activities.

CPS/Bell School personnel will be responsible for the management of the mercury-containing light bulbs, light ballasts, and select other Hazardous Materials, identified at Bell School. The Abatement Contractor should confirm with PBC and/or the EC which specific Hazardous Materials need to be managed/disposed of.

**ENVIRONMENTAL SCOPE SHEETS  
CHICAGO PUBLIC SCHOOLS (CPS)**

Managing Environmental  
Consultant/Project No.:  
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School:

Environmental Design International inc.  
05530-PS1651D-002  
December 10, 2012  
Alexander Graham Bell Elementary School, 3730 North Oakley Avenue

Room ID/Name:	Auditorium Balcony – Second Floor
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**LBP Areas:**

Substrate	Component	Walls				Ceiling	Floor	Response Action	Comments
		N	E	S	W	C	F		
Plaster	Wall	X	X	X	X	X		LBP Mitigation Stabilize Paint, Prepare and Prime as needed for completion for scope of work.	Refer to Contract Documents and architect's drawings, specifications for scope and extent of work. The LPB survey report that includes information about this room can be found in Specification Section 00 10 20. Mitigation/stabilization is only needed if the planned renovation/demolition activities directly affect the surfaces.
Plaster	Column, decorative wall, ceiling							LBP Mitigation Stabilize Paint, Prepare and Prime as needed for completion for scope of work.	Refer to Contract Documents and architect's drawings, specifications for scope and extent of work. The LPB survey report that includes information about this room can be found in Specification Section 00 10 20. Mitigation/stabilization is only needed if the planned renovation/demolition activities directly affect the surfaces.
Metal	Door							LBP Mitigation Stabilize Paint, Prepare and Prime as needed for completion for scope of work.	Refer to Contract Documents and architect's drawings, specifications for scope and extent of work. The LPB survey report that includes information about this room can be found in Specification Section 00 10 20. Mitigation/stabilization is only needed if the planned renovation/demolition activities directly affect the surfaces.

**ENVIRONMENTAL SCOPE SHEETS  
CHICAGO PUBLIC SCHOOLS (CPS)**

Managing Environmental  
Consultant/Project No.:  
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Alexander Graham Bell Elementary School, 3730 North Oakley Avenue

Room ID/Name:	Auditorium Balcony – Second Floor (continued)
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Metal	Handrail							LBP Mitigation Stabilize Paint, Prepare and Prime as needed for completion for scope of work.	Refer to Contract Documents and architect's drawings, specifications for scope and extent of work. The LPB survey report that includes information about this room can be found in Specification Section 00 10 20. Handrail is being removed, therefore, no additional action is needed.
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**ACM Areas:**

Substrate	Component	Walls				Ceiling	Floor	Response Action	Comments
		N	E	S	W	C	F		
None								Not Applicable	

**Special Waste:**

Substrate	Component	Walls				Ceiling	Floor	Response Action	Comments
		N	E	S	W	C	F		
Mercury Fluorescent Light Bulbs and light ballasts								Removal and Disposal as Special/Universal Waste.	Refer to Contract Documents and architect's drawings, specifications for scope and extent of work. The Haz Mat survey report that includes information about this area can be found in Specification Section 00 10 20. If planned renovation/demolition activities will impact light bulbs and ballasts, that material should be treated as Haz Mat/Universal Waste and addressed accordingly.

**Note:** If the Abatement Contractor discovers material similar to previously identified ACM or LBP during the course of completing renovation and/or demolition activities and that material will be directly impacted during the course of performing any planned renovation and/or demolition activities, it should be treated/managed as ACM or LBP as appropriate. This includes materials discovered in previously inaccessible areas such as beneath or inside walls, in pipe chases, above the ceiling line, etc.

Only LBP described as being in poor or fair condition typically will need to be mitigated or stabilized unless it is directly affected by planned renovation and/or demolition activities.

CPS/Bell School personnel will be responsible for the management of the mercury-containing light bulbs, light ballasts, and select other Hazardous Materials, identified at Bell School. The Abatement Contractor should confirm with PBC and/or the EC which specific Hazardous Materials need to be managed/disposed of.

**ENVIRONMENTAL SCOPE SHEETS  
CHICAGO PUBLIC SCHOOLS (CPS)**

Managing Environmental  
Consultant/Project No.:  
100% Issue Date:  
School:

Environmental Design International inc.  
05530-PS1651D-002  
December 10, 2012  
Alexander Graham Bell Elementary School, 3730 North Oakley Avenue

Room ID/Name:	Hallway south of Auditorium Balcony – Second Floor
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**LBP Areas:**

Substrate	Component	Walls				Ceiling	Floor	Response Action	Comments
		N	E	S	W	C	F		
Plaster	Wall		X	X				LBP Mitigation Stabilize Paint, Prepare and Prime as needed for completion for scope of work.	Refer to Contract Documents and architect's drawings, specifications for scope and extent of work. The LPB survey report that includes information about this area can be found in Specification Section 00 10 20. Walls will require mitigation/stabilization if directly impacted by renovation/demolition activities.
Metal	Stair Riser		X					LBP Mitigation Stabilize Paint, Prepare and Prime as needed for completion for scope of work.	Refer to Contract Documents and architect's drawings, specifications for scope and extent of work. The LPB survey report that includes information about this area can be found in Specification Section 00 10 20. Mitigation/stabilization only needed if the planned renovation/demolition activities will directly affect the stairs.
Metal	Stair Handrail		X					LBP Mitigation Stabilize Paint, Prepare and Prime as needed for completion for scope of work.	Refer to Contract Documents and architect's drawings, specifications for scope and extent of work. The LPB survey report that includes information about this area can be found in Specification Section 00 10 20. Mitigation/stabilization only needed if the planned renovation/demolition activities will directly affect the stairs.

**ENVIRONMENTAL SCOPE SHEETS  
CHICAGO PUBLIC SCHOOLS (CPS)**

Managing Environmental  
Consultant/Project No.:  
100% Issue Date:  
School:

Environmental Design International inc.  
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December 10, 2012  
Alexander Graham Bell Elementary School, 3730 North Oakley Avenue

Room ID/Name:	Hallway south of Auditorium Balcony – Second Floor (continued)
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Metal	Stair Stringer		X					LBP Mitigation Stabilize Paint, Prepare and Prime as needed for completion for scope of work.	Refer to Contract Documents and architect's drawings, specifications for scope and extent of work. The LPB survey report that includes information about this area can be found in Specification Section 00 10 20. Mitigation/stabilization only needed if the planned renovation/demolition activities will directly affect the stairs.
Metal	Newel Post		X					LBP Mitigation Stabilize Paint, Prepare and Prime as needed for completion for scope of work.	Refer to Contract Documents and architect's drawings, specifications for scope and extent of work. The LPB survey report that includes information about this area can be found in Specification Section 00 10 20. Mitigation/stabilization only needed if the planned renovation/demolition activities will directly affect the stairs.
Metal	Door		X					LBP Mitigation Stabilize Paint, Prepare and Prime as needed for completion for scope of work.	Refer to Contract Documents and architect's drawings, specifications for scope and extent of work. The LPB survey report that includes information about this area can be found in Specification Section 00 10 20. Mitigation/stabilization only needed if the planned renovation/demolition activities will directly affect the door.
Wood	Baseboard		X					LBP Mitigation Stabilize Paint, Prepare and Prime as needed for completion for scope of work.	Refer to Contract Documents and architect's drawings, specifications for scope and extent of work. The LPB survey report that includes information about this area can be found in Specification Section 00 10 20. Mitigation/stabilization only needed if the planned renovation/demolition activities will directly affect the baseboard.

**ACM Areas:**

Substrate	Component	Walls				Ceiling	Floor	Response Action	Comments
		N	E	S	W	C	F		
None								Not Applicable	

**ENVIRONMENTAL SCOPE SHEETS  
CHICAGO PUBLIC SCHOOLS (CPS)**

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Consultant/Project No.:  
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Environmental Design International inc.  
05530-PS1651D-002  
December 10, 2012  
Alexander Graham Bell Elementary School, 3730 North Oakley Avenue

Room ID/Name:	Hallway south of Auditorium Balcony – Second Floor (continued)
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**Special Waste:**

Substrate	Component	Walls				Ceiling	Floor	Response Action	Comments
		N	E	S	W	C	F		
Mercury Fluorescent Light Bulbs and light ballasts								Removal and Disposal as Special/Universal Waste.	Refer to Contract Documents and architect’s drawings, specifications for scope and extent of work. The Haz Mat survey report that includes information about this area can be found in Specification Section 00 10 20. If planned renovation/demolition activities will impact light bulbs and ballasts, that material should be treated as Haz Mat/Universal Waste and addressed accordingly.

**Note:** If the Abatement Contractor discovers material similar to previously identified ACM or LBP during the course of completing renovation and/or demolition activities and that material will be directly impacted during the course of performing any planned renovation and/or demolition activities, it should be treated/managed as ACM or LBP as appropriate. This includes materials discovered in previously inaccessible areas such as beneath or inside walls, in pipe chases, above the ceiling line, etc.

Only LBP described as being in poor or fair condition typically will need to be mitigated or stabilized unless it is directly affected by planned renovation and/or demolition activities.

CPS/Bell School personnel will be responsible for the management of the mercury-containing light bulbs, light ballasts, and select other Hazardous Materials, identified at Bell School. The Abatement Contractor should confirm with PBC and/or the EC which specific Hazardous Materials need to be managed/disposed of.

**ENVIRONMENTAL SCOPE SHEETS  
CHICAGO PUBLIC SCHOOLS (CPS)**

Managing Environmental  
Consultant/Project No.:  
100% Issue Date:  
School:

Environmental Design International inc.  
05530-PS1651D-002  
December 10, 2012  
Alexander Graham Bell Elementary School, 3730 North Oakley Avenue

Room ID/Name:	Main Hallway – Second Floor
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**LBP Areas:**

Substrate	Component	Walls				Ceiling	Floor	Response Action	Comments
		N	E	S	W	C	F		
Plaster	Wall	X	X		X	X		LBP Mitigation Stabilize Paint, Prepare and Prime as needed for completion for scope of work.	Refer to Contract Documents and architect's drawings, specifications for scope and extent of work. The LBP survey report that includes information about this area can be found in Specification Section 00 10 20. If planned renovation/ demolition activities will impact plaster walls or ceiling, that material should be treated as LBP and addressed accordingly. If replacement of Emergency lighting battery packs and Exit signs impact plaster ceiling, the material should be treated as LBP and addressed accordingly.

**ACM Areas:**

Substrate	Component	Walls				Ceiling	Floor	Response Action	Comments
		N	E	S	W	C	F		
Preformed Pipe Insulation								ACM Removal and Disposal.	Refer to Contract Documents and architect's drawings, specifications for scope and extent of work. The ACM survey report that includes information about this area can be found in Specification Section 00 10 20. Material at this location is not included in ACM Log, however, it is known to exist between the drop ceiling and plaster ceiling along the length of the hallway. If planned renovation/demolition activities will impact piping, that material should be treated as ACM and addressed accordingly.

**ENVIRONMENTAL SCOPE SHEETS  
CHICAGO PUBLIC SCHOOLS (CPS)**

Managing Environmental Consultant/Project No.:	Environmental Design International inc.
100% Issue Date:	05530-PS1651D-002
School:	December 10, 2012
	Alexander Graham Bell Elementary School, 3730 North Oakley Avenue

Room ID/Name:	Main Hallway – Second Floor (continued)
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**Special Waste:**

Substrate	Component	Walls				Ceiling	Floor	Response Action	Comments
		N	E	S	W	C	F		
Battery Pack for Emergency Lighting								Removal and Disposal as Special/Universal Waste.	Refer to Contract Documents and architect’s drawings, specifications for scope and extent of work. The Haz Mat survey report that includes information about this area can be found in Specification Section 00 10 20.

**Note:** If the Abatement Contractor discovers material similar to previously identified ACM or LBP during the course of completing renovation and/or demolition activities and that material will be directly impacted during the course of performing any planned renovation and/or demolition activities, it should be treated/managed as ACM or LBP as appropriate. This includes materials discovered in previously inaccessible areas such as beneath or inside walls, in pipe chases, above the ceiling line, etc.

Only LBP described as being in poor or fair condition typically will need to be mitigated or stabilized unless it is directly affected by planned renovation and/or demolition activities.

CPS/Bell School personnel will be responsible for the management of the mercury-containing light bulbs, light ballasts, and select other Hazardous Materials, identified at Bell School. The Abatement Contractor should confirm with PBC and/or the EC which specific Hazardous Materials need to be managed/disposed of.



**ENVIRONMENTAL SCOPE SHEETS  
CHICAGO PUBLIC SCHOOLS (CPS)**

Managing Environmental  
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100% Issue Date:  
School:

Environmental Design International inc.  
05530-PS1651D-002  
December 10, 2012  
Alexander Graham Bell Elementary School, 3730 North Oakley Avenue

Room ID/Name:	Boy's/Southwest Bathroom, including entrance vestibule – Third Floor
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**LBP Areas:**

Substrate	Component	Walls				Ceiling	Floor	Response Action	Comments
		N	E	S	W	C	F		
Plaster	Wall	X	X	X	X	X		LBP Mitigation Stabilize Paint, Prepare and Prime as needed for completion for scope of work.	Refer to Contract Documents and architect's drawings, specifications for scope and extent of work. The LPB survey report that includes information about this room can be found in Specification Section 00 10 20. For the main bathroom, the North wall should only be mitigated/stabilized if directly impacted by the planned renovation/demolition activities.
Metal	Pipe	X						LBP Mitigation Stabilize Paint, Prepare and Prime as needed for completion for scope of work.	Refer to Contract Documents and architect's drawings, specifications for scope and extent of work. The LPB survey report that includes information about this room can be found in Specification Section 00 10 20.

**ACM Areas:**

Substrate	Component	Walls				Ceiling	Floor	Response Action	Comments
		N	E	S	W	C	F		
Mudded Fittings								ACM Removal and Disposal.	Refer to Contract Documents and architect's drawings, specifications for scope and extent of work. The ACM survey report that includes information about this room can be found in Specification Section 00 10 20.
Preformed Pipe Insulation								ACM Removal and Disposal.	Refer to Contract Documents and architect's drawings, specifications for scope and extent of work. The ACM survey report that includes information about this room can be found in Specification Section 00 10 20.

**ENVIRONMENTAL SCOPE SHEETS  
CHICAGO PUBLIC SCHOOLS (CPS)**

Managing Environmental Consultant/Project No.:	Environmental Design International inc.
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School:	December 10, 2012
	Alexander Graham Bell Elementary School, 3730 North Oakley Avenue

Room ID/Name:	Boy's/Southwest Bathroom, including entrance vestibule – Third Floor (continued)
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**Special Waste:**

Substrate	Component	Walls				Ceiling	Floor	Response Action	Comments
		N	E	S	W	C	F		
Mercury Fluorescent Light Bulbs and light ballasts								Removal and Disposal as Special/Universal Waste.	Refer to Contract Documents and architect's drawings, specifications for scope and extent of work. The Haz Mat survey report that includes information about this area can be found in Specification Section 00 10 20. If planned renovation/demolition activities will impact light bulbs and ballasts, that material should be treated as Haz Mat/Universal Waste and addressed accordingly.

**Note:** If the Abatement Contractor discovers material similar to previously identified ACM or LBP during the course of completing renovation and/or demolition activities and that material will be directly impacted during the course of performing any planned renovation and/or demolition activities, it should be treated/managed as ACM or LBP as appropriate. This includes materials discovered in previously inaccessible areas such as beneath or inside walls, in pipe chases, above the ceiling line, etc.

Only LBP described as being in poor or fair condition typically will need to be mitigated or stabilized unless it is directly affected by planned renovation and/or demolition activities.

CPS/Bell School personnel will be responsible for the management of the mercury-containing light bulbs, light ballasts, and select other Hazardous Materials, identified at Bell School. The Abatement Contractor should confirm with PBC and/or the EC which specific Hazardous Materials need to be managed/disposed of.

**ENVIRONMENTAL SCOPE SHEETS  
CHICAGO PUBLIC SCHOOLS (CPS)**

Managing Environmental  
Consultant/Project No.:  
100% Issue Date:  
School:

Environmental Design International inc.  
05530-PS1651D-002  
December 10, 2012  
Alexander Graham Bell Elementary School, 3730 North Oakley Avenue

Room ID/Name:	South End of Main Hallway – Third Floor
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**LBP Areas:**

Substrate	Component	Walls				Ceiling	Floor	Response Action	Comments
		N	E	S	W	C	F		
Plaster	Wall			X	X	X		LBP Mitigation Stabilize Paint, Prepare and Prime as needed for completion for scope of work.	Refer to Contract Documents and architect's drawings, specifications for scope and extent of work. The LPB survey report that includes information about this area can be found in Specification Section 00 10 20. Lower portion of south and west walls will require mitigation/stabilization if directly impacted by renovation/demolition activities. If replacement of Emergency lighting battery packs and Exit signs impact plaster ceiling, the material should be treated as LBP and addressed accordingly.
Metal	Stair Handrail			X				LBP Mitigation Stabilize Paint, Prepare and Prime as needed for completion for scope of work.	Refer to Contract Documents and architect's drawings, specifications for scope and extent of work. The LPB survey report that includes information about this area can be found in Specification Section 00 10 20. Mitigation/stabilization only needed if the planned renovation/demolition activities will directly affect the stairs.

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CHICAGO PUBLIC SCHOOLS (CPS)**

Managing Environmental  
Consultant/Project No.:  
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Alexander Graham Bell Elementary School, 3730 North Oakley Avenue

Room ID/Name:	South End of Main Hallway – Third Floor (continued)
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Metal	Stair Stringer			X				LBP Mitigation Stabilize Paint, Prepare and Prime as needed for completion for scope of work.	Refer to Contract Documents and architect's drawings, specifications for scope and extent of work. The LPB survey report that includes information about this area can be found in Specification Section 00 10 20. Mitigation/stabilization only needed if the planned renovation/demolition activities will directly affect the stairs.
Metal	Newel Post			X				LBP Mitigation Stabilize Paint, Prepare and Prime as needed for completion for scope of work.	Refer to Contract Documents and architect's drawings, specifications for scope and extent of work. The LPB survey report that includes information about this area can be found in Specification Section 00 10 20. Mitigation/stabilization only needed if the planned renovation/demolition activities will directly affect the stairs.

**ACM Areas:**

Substrate	Component	Walls				Ceiling	Floor	Response Action	Comments
		N	E	S	W	C	F		
None								Not Applicable	

**ENVIRONMENTAL SCOPE SHEETS  
CHICAGO PUBLIC SCHOOLS (CPS)**

Managing Environmental Consultant/Project No.: Environmental Design International inc.  
 05530-PS1651D-002  
 100% Issue Date: December 10, 2012  
 School: Alexander Graham Bell Elementary School, 3730 North Oakley Avenue

Room ID/Name:	South End of Main Hallway – Third Floor (continued)
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**Special Waste:**

Substrate	Component	Walls				Ceiling	Floor	Response Action	Comments
		N	E	S	W	C	F		
Battery Pack for Emergency Lighting								Removal and Disposal as Special/Universal Waste.	Refer to Contract Documents and architect’s drawings, specifications for scope and extent of work. The Haz Mat survey report that includes information about this area can be found in Specification Section 00 10 20.

**Note:** If the Abatement Contractor discovers material similar to previously identified ACM or LBP during the course of completing renovation and/or demolition activities and that material will be directly impacted during the course of performing any planned renovation and/or demolition activities, it should be treated/managed as ACM or LBP as appropriate. This includes materials discovered in previously inaccessible areas such as beneath or inside walls, in pipe chases, above the ceiling line, etc.

Only LBP described as being in poor or fair condition typically will need to be mitigated or stabilized unless it is directly affected by planned renovation and/or demolition activities.

CPS/Bell School personnel will be responsible for the management of the mercury-containing light bulbs, light ballasts, and select other Hazardous Materials, identified at Bell School. The Abatement Contractor should confirm with PBC and/or the EC which specific Hazardous Materials need to be managed/disposed of.

**ENVIRONMENTAL SCOPE SHEETS  
CHICAGO PUBLIC SCHOOLS (CPS)**

Managing Environmental  
Consultant/Project No.:  
100% Issue Date:  
School:

Environmental Design International inc.  
05530-PS1651D-002  
December 10, 2012  
Alexander Graham Bell Elementary School, 3730 North Oakley Avenue

Room ID/Name:	7 <sup>th</sup> /8 <sup>th</sup> Grade Science Classroom (Room 314B) – Third Floor
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**LBP Areas:**

Substrate	Component	Walls				Ceiling	Floor	Response Action	Comments
		N	E	S	W	C	F		
Plaster	Wall	X	X	X	X	X		LBP Mitigation Stabilize Paint, Prepare and Prime as needed for completion for scope of work.	Refer to Contract Documents and architect's drawings, specifications for scope and extent of work. The LPB survey report that includes information about this room can be found in Specification Section 00 10 20. Mitigation/stabilization of the walls is needed to facilitate the planned painting.
Metal	Vent		X					LBP Mitigation Stabilize Paint, Prepare and Prime as needed for completion for scope of work.	Refer to Contract Documents and architect's drawings, specifications for scope and extent of work. The LPB survey report that includes information about this room can be found in Specification Section 00 10 20. Mitigation/stabilization of the vent is only needed if it will directly be impacted by the planned renovation/demolition activities.

**ACM Areas:**

Substrate	Component	Walls				Ceiling	Floor	Response Action	Comments
		N	E	S	W	C	F		
None								Not Applicable.	

**ENVIRONMENTAL SCOPE SHEETS  
CHICAGO PUBLIC SCHOOLS (CPS)**

Managing Environmental  
Consultant/Project No.:  
100% Issue Date:  
School:

Environmental Design International inc.  
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December 10, 2012  
Alexander Graham Bell Elementary School, 3730 North Oakley Avenue

Room ID/Name:	7 <sup>th</sup> /8 <sup>th</sup> Grade Science Classroom (Room 314B) – Third Floor (continued)
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**Special Waste:**

Substrate	Component	Walls				Ceiling	Floor	Response Action	Comments
		N	E	S	W	C	F		
Mercury Fluorescent Light Bulbs and light ballasts								Removal and Disposal as Special/Universal Waste.	Refer to Contract Documents and architect’s drawings, specifications for scope and extent of work. The Haz Mat survey report that includes information about this area can be found in Specification Section 00 10 20. If planned renovation/demolition activities will impact light bulbs and ballasts, that material should be treated as Haz Mat/Universal Waste and addressed accordingly.
Various laboratory chemicals and other products								Removal and Disposal as Special/Universal Waste.	Refer to Contract Documents and architect's drawings, specifications for scope and extent of work. The Haz Mat survey report that includes information about this room can be found in Specification Section 00 10 20. CPS/Bell School to manage household-type products. Abatement contractor to manage the materials in the small metal Corrosives cabinet near the window.

**Note:** If the Abatement Contractor discovers material similar to previously identified ACM or LBP during the course of completing renovation and/or demolition activities and that material will be directly impacted during the course of performing any planned renovation and/or demolition activities, it should be treated/managed as ACM or LBP as appropriate. This includes materials discovered in previously inaccessible areas such as beneath or inside walls, in pipe chases, above the ceiling line, etc.

Only LBP described as being in poor or fair condition typically will need to be mitigated or stabilized unless it is directly affected by planned renovation and/or demolition activities.

CPS/Bell School personnel will be responsible for the management of the mercury-containing light bulbs, light ballasts, and select other Hazardous Materials, identified at Bell School. The Abatement Contractor should confirm with PBC and/or the EC which specific Hazardous Materials need to be managed/disposed of.

**ENVIRONMENTAL SCOPE SHEETS  
CHICAGO PUBLIC SCHOOLS (CPS)**

Managing Environmental  
Consultant/Project No.:  
100% Issue Date:  
School:

Environmental Design International inc.  
05530-PS1651D-002  
December 10, 2012  
Alexander Graham Bell Elementary School, 3730 North Oakley Avenue

Room ID/Name:	Girl's/Northwest Bathroom, including entrance vestibule – Third Floor
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**LBP Areas:**

Substrate	Component	Walls				Ceiling	Floor	Response Action	Comments
		N	E	S	W	C	F		
Plaster	Wall	X	X	X	X	X		LBP Mitigation Stabilize Paint, Prepare and Prime as needed for completion for scope of work.	Refer to Contract Documents and architect's drawings, specifications for scope and extent of work. The LPB survey report that includes information about this room can be found in Specification Section 00 10 20. The north wall of the vestibule area should only be mitigated/stabilized if directly impacted by the planned renovation/demolition activities. For the main bathroom, the north wall should only be mitigated/stabilized if directly impacted by the planned renovation/demolition activities.
Metal	Vent		X					LBP Mitigation Stabilize Paint, Prepare and Prime as needed for completion for scope of work.	Refer to Contract Documents and architect's drawings, specifications for scope and extent of work. The LPB survey report that includes information about this room can be found in Specification Section 00 10 20.

**ACM Areas:**

Substrate	Component	Walls				Ceiling	Floor	Response Action	Comments
		N	E	S	W	C	F		
Mudded Fittings								ACM Removal and Disposal.	Refer to Contract Documents and architect's drawings, specifications for scope and extent of work. The ACM survey report that includes information about this room can be found in Specification Section 00 10 20
Preformed Pipe Insulation								ACM Removal and Disposal.	Refer to Contract Documents and architect's drawings, specifications for scope and extent of work. The ACM survey report that includes information about this room can be found in Specification Section 00 10 20.



**ENVIRONMENTAL SCOPE SHEETS  
CHICAGO PUBLIC SCHOOLS (CPS)**

Managing Environmental Consultant/Project No.:	Environmental Design International inc. 05530-PS1651D-002
100% Issue Date:	December 10, 2012
School:	Alexander Graham Bell Elementary School, 3730 North Oakley Avenue

Room ID/Name:	Girl's/Northwest Bathroom, including entrance vestibule – Third Floor (continued)
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**Special Waste:**

Substrate	Component	Walls				Ceiling	Floor	Response Action	Comments
		N	E	S	W	C	F		
Mercury Fluorescent Light Bulbs and light ballasts								Removal and Disposal as Special/Universal Waste.	Refer to Contract Documents and architect's drawings, specifications for scope and extent of work. The Haz Mat survey report that includes information about this area can be found in Specification Section 00 10 20. If planned renovation/demolition activities will impact light bulbs and ballasts, that material should be treated as Haz Mat/Universal Waste and addressed accordingly.

**Note:** If the Abatement Contractor discovers material similar to previously identified ACM or LBP during the course of completing renovation and/or demolition activities and that material will be directly impacted during the course of performing any planned renovation and/or demolition activities, it should be treated/managed as ACM or LBP as appropriate. This includes materials discovered in previously inaccessible areas such as beneath or inside walls, in pipe chases, above the ceiling line, etc.

Only LBP described as being in poor or fair condition typically will need to be mitigated or stabilized unless it is directly affected by planned renovation and/or demolition activities.

CPS/Bell School personnel will be responsible for the management of the mercury-containing light bulbs, light ballasts, and select other Hazardous Materials, identified at Bell School. The Abatement Contractor should confirm with PBC and/or the EC which specific Hazardous Materials need to be managed/disposed of.

**ENVIRONMENTAL SCOPE SHEETS  
CHICAGO PUBLIC SCHOOLS (CPS)**

Managing Environmental  
Consultant/Project No.:  
100% Issue Date:  
School:

Environmental Design International inc.  
05530-PS1651D-002  
December 10, 2012  
Alexander Graham Bell Elementary School, 3730 North Oakley Avenue

Room ID/Name:	Main Hallway – Third Floor
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**LBP Areas:**

Substrate	Component	Walls				Ceiling	Floor	Response Action	Comments
		N	E	S	W	C	F		
Plaster	Wall	X	X		X	X		LBP Mitigation Stabilize Paint, Prepare and Prime as needed for completion for scope of work.	Refer to Contract Documents and architect's drawings, specifications for scope and extent of work. The LBP survey report that includes information about this area can be found in Specification Section 00 10 20. If planned renovation/ demolition activities will impact plaster walls or ceiling, that material should be treated as LBP and addressed accordingly. If replacement of Emergency lighting battery packs and Exit signs impact plaster ceiling, the material should be treated as LBP and addressed accordingly.

**ACM Areas:**

Substrate	Component	Walls				Ceiling	Floor	Response Action	Comments
		N	E	S	W	C	F		
Preformed Pipe Insulation								ACM Removal and Disposal.	Refer to Contract Documents and architect's drawings, specifications for scope and extent of work. The ACM survey report that includes information about this area can be found in Specification Section 00 10 20. Material at this location is not included in ACM Log, however, it is known to exist between the drop ceiling and plaster ceiling along the length of the hallway. If planned renovation/demolition activities will impact piping, that material should be treated as ACM and addressed accordingly.

**ENVIRONMENTAL SCOPE SHEETS  
CHICAGO PUBLIC SCHOOLS (CPS)**

Managing Environmental Consultant/Project No.: Environmental Design International inc.  
 05530-PS1651D-002  
 100% Issue Date: December 10, 2012  
 School: Alexander Graham Bell Elementary School, 3730 North Oakley Avenue

Room ID/Name:	Main Hallway – Third Floor (continued)
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**Special Waste:**

Substrate	Component	Walls				Ceiling	Floor	Response Action	Comments
		N	E	S	W	C	F		
Battery Pack for Emergency Lighting								Removal and Disposal as Special/Universal Waste.	Refer to Contract Documents and architect’s drawings, specifications for scope and extent of work. The Haz Mat survey report that includes information about this area can be found in Specification Section 00 10 20.

**Note:** If the Abatement Contractor discovers material similar to previously identified ACM or LBP during the course of completing renovation and/or demolition activities and that material will be directly impacted during the course of performing any planned renovation and/or demolition activities, it should be treated/managed as ACM or LBP as appropriate. This includes materials discovered in previously inaccessible areas such as beneath or inside walls, in pipe chases, above the ceiling line, etc.

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**ENVIRONMENTAL SCOPE SHEETS  
CHICAGO PUBLIC SCHOOLS (CPS)**

Managing Environmental  
Consultant/Project No.:  
100% Issue Date:  
School:

Environmental Design International inc.  
05530-PS1651D-002  
December 10, 2012  
Alexander Graham Bell Elementary School, 3730 North Oakley Avenue

Room ID/Name:	Music Room (Room 309) – Third Floor
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**LBP Areas:**

Substrate	Component	Walls				Ceiling	Floor	Response Action	Comments
		N	E	S	W	C	F		
Plaster	Wall	X	X	X	X	X		LBP Mitigation Stabilize Paint, Prepare and Prime as needed for completion for scope of work.	Refer to Contract Documents and architect's drawings, specifications for scope and extent of work. The LPB survey report that includes information about this room can be found in Specification Section 00 10 20. Mitigation/stabilization of the walls is needed to facilitate the planned painting as part of the planned renovation/demolition activities.
Metal	Vent		X					LBP Mitigation Stabilize Paint, Prepare and Prime as needed for completion for scope of work.	Refer to Contract Documents and architect's drawings, specifications for scope and extent of work. The LPB survey report that includes information about this room can be found in Specification Section 00 10 20. Mitigation/stabilization is only needed if it will directly be impacted by the planned renovation/demolition activities.

**ACM Areas:**

Substrate	Component	Walls				Ceiling	Floor	Response Action	Comments
		N	E	S	W	C	F		
Mastic	9" x 9" vinyl Floor tile						X	ACM Removal and Disposal.	Refer to Contract Documents and architect's drawings, specifications for scope and extent of work. The ACM survey report that includes information about this room can be found in Specification Section 00 10 20. ACM floor tile located near main door and connecting door to Room 307.

**ENVIRONMENTAL SCOPE SHEETS  
CHICAGO PUBLIC SCHOOLS (CPS)**

Managing Environmental Consultant/Project No.:	Environmental Design International inc.
100% Issue Date:	05530-PS1651D-002
School:	December 10, 2012
	Alexander Graham Bell Elementary School, 3730 North Oakley Avenue

Room ID/Name:	Music Room (Room 309) – Third Floor (continued)
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**Special Waste:**

Substrate	Component	Walls				Ceiling	Floor	Response Action	Comments
		N	E	S	W	C	F		
Mercury Fluorescent Light Bulbs and light ballasts								Removal and Disposal as Special/Universal Waste.	Refer to Contract Documents and architect’s drawings, specifications for scope and extent of work. The Haz Mat survey report that includes information about this area can be found in Specification Section 00 10 20. If planned renovation/demolition activities will impact light bulbs and ballasts, that material should be treated as Haz Mat/Universal Waste and addressed accordingly.

**Note:** If the Abatement Contractor discovers material similar to previously identified ACM or LBP during the course of completing renovation and/or demolition activities and that material will be directly impacted during the course of performing any planned renovation and/or demolition activities, it should be treated/managed as ACM or LBP as appropriate. This includes materials discovered in previously inaccessible areas such as beneath or inside walls, in pipe chases, above the ceiling line, etc.

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**ENVIRONMENTAL SCOPE SHEETS  
CHICAGO PUBLIC SCHOOLS (CPS)**

Managing Environmental  
Consultant/Project No.:  
100% Issue Date:  
School:

Environmental Design International inc.  
05530-PS1651D-002  
December 10, 2012  
Alexander Graham Bell Elementary School, 3730 North Oakley Avenue

Room ID/Name:	Gymnasium – Third Floor
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**LBP Areas:**

Substrate	Component	Walls				Ceiling	Floor	Response Action	Comments
		N	E	S	W	C	F		
Plaster	Wall	X	X	X	X	X		LBP Mitigation Stabilize Paint, Prepare and Prime as needed for completion for scope of work.	Refer to Contract Documents and architect's drawings, specifications for scope and extent of work. The LPB survey report that includes information about this room can be found in Specification Section 00 10 20. Mitigation/stabilization is only needed if it will directly be impacted by the planned renovation/demolition activities.
Metal	Rims of basketball hoops	X	X	X				LBP Mitigation Stabilize Paint, Prepare and Prime as needed for completion for scope of work.	Refer to Contract Documents and architect's drawings, specifications for scope and extent of work. The LPB survey report that includes information about this room can be found in Specification Section 00 10 20.

**ACM Areas:**

Substrate	Component	Walls				Ceiling	Floor	Response Action	Comments
		N	E	S	W	C	F		
None								Not Applicable.	

**Special Waste:**

Substrate	Component	Walls				Ceiling	Floor	Response Action	Comments
		N	E	S	W	C	F		
High Intensity Multi-Vapor® light bulbs								Removal and Disposal as Special/Universal Waste.	Refer to Contract Documents and architect's drawings, specifications for scope and extent of work. The Haz Mat survey report that includes information about this area can be found in Specification Section 00 10 20. If planned renovation/demolition activities will impact light bulbs and ballasts, that material should be treated as Haz Mat/Universal Waste and addressed accordingly.

**ENVIRONMENTAL SCOPE SHEETS  
CHICAGO PUBLIC SCHOOLS (CPS)**

Managing Environmental Consultant/Project No.: Environmental Design International inc.  
100% Issue Date: 05530-PS1651D-002  
School: December 10, 2012  
Alexander Graham Bell Elementary School, 3730 North Oakley Avenue

**Note:** If the Abatement Contractor discovers material similar to previously identified ACM or LBP during the course of completing renovation and/or demolition activities and that material will be directly impacted during the course of performing any planned renovation and/or demolition activities, it should be treated/managed as ACM or LBP as appropriate. This includes materials discovered in previously inaccessible areas such as beneath or inside walls, in pipe chases, above the ceiling line, etc.

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**ENVIRONMENTAL SCOPE SHEETS  
CHICAGO PUBLIC SCHOOLS (CPS)**

Managing Environmental  
Consultant/Project No.:  
100% Issue Date:  
School:

Environmental Design International inc.  
05530-PS1651D-002  
December 10, 2012  
Alexander Graham Bell Elementary School, 3730 North Oakley Avenue

Room ID/Name:	Roof – Third Floor
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**LBP Areas:**

Substrate	Component	Walls				Ceiling	Floor	Response Action	Comments
		N	E	S	W	C	F		
Metal	Downspout		X					LBP Mitigation Stabilize Paint, Prepare and Prime as needed for completion for scope of work.	Refer to Contract Documents and architect's drawings, specifications for scope and extent of work. The LPB survey report that includes information about this room can be found in Specification Section 00 10 20. Mitigation/stabilization only needed if renovation/demolition activities will directly affect the downspout.

**ACM Areas:**

Substrate	Component	Walls				Ceiling	Floor	Response Action	Comments
		N	E	S	W	C	F		
Roof Flashing								ACM Removal and Disposal	Refer to Contract Documents and architect's drawings, specifications for scope and extent of work. The ACM survey report that includes information about this room can be found in Specification Section 00 10 20. Abatement only needed if the planned renovation/demolition activities will directly affect the flashing.
Roof Caulk								ACM Removal and Disposal	Refer to Contract Documents and architect's drawings, specifications for scope and extent of work. The ACM survey report that includes information about this room can be found in Specification Section 00 10 20. Abatement only needed if the planned renovation/demolition activities will directly affect the caulk.



**ENVIRONMENTAL SCOPE SHEETS  
CHICAGO PUBLIC SCHOOLS (CPS)**

Managing Environmental  
Consultant/Project No.:  
100% Issue Date:  
School:

Environmental Design International inc.  
05530-PS1651D-002  
December 10, 2012  
Alexander Graham Bell Elementary School, 3730 North Oakley Avenue

Room ID/Name:	Roof – Third Floor (continued)
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Room ID/Name	Component	N	E	S	W	C	F	Response Action	Comments
Roof Flashing Caulk								ACM Removal and Disposal	Refer to Contract Documents and architect's drawings, specifications for scope and extent of work. The ACM survey report that includes information about this room can be found in Specification Section 00 10 20. Abatement only needed if the planned renovation/demolition activities will directly affect the caulk.
Roof Caulk Patch								ACM Removal and Disposal	Refer to Contract Documents and architect's drawings, specifications for scope and extent of work. The ACM survey report that includes information about this room can be found in Specification Section 00 10 20. Abatement only needed if the planned renovation/demolition activities will directly affect the patch.

**Special Waste:**

Substrate	Component	Walls				Ceiling	Floor	Response Action	Comments
		N	E	S	W	C	F		
None								Not Applicable.	

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**ENVIRONMENTAL SCOPE SHEETS  
CHICAGO PUBLIC SCHOOLS (CPS)**

Managing Environmental  
Consultant/Project No.:  
100% Issue Date:  
School:

Environmental Design International inc.  
05530-PS1651D-002  
December 10, 2012  
Alexander Graham Bell Elementary School, 3730 North Oakley Avenue

Room ID/Name:	Rooftop
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**LBP Areas:**

Substrate	Component	Walls				Ceiling	Floor	Response Action	Comments
		N	E	S	W	C	F		
None								Not Applicable	

**ACM Areas:**

Substrate	Component	Walls				Ceiling	Floor	Response Action	Comments
		N	E	S	W	C	F		
Roof Flashing								ACM Removal and Disposal	Refer to Contract Documents and architect's drawings, specifications for scope and extent of work. The ACM survey report that includes information about this room can be found in Specification Section 00 10 20. Abatement only needed if the planned renovation/demolition activities will directly affect the flashing.
Roof Caulk								ACM Removal and Disposal	Refer to Contract Documents and architect's drawings, specifications for scope and extent of work. The ACM survey report that includes information about this room can be found in Specification Section 00 10 20. Abatement only needed if the planned renovation/demolition activities will directly affect the caulk.
Roof Flashing Caulk								ACM Removal and Disposal	Refer to Contract Documents and architect's drawings, specifications for scope and extent of work. The ACM survey report that includes information about this room can be found in Specification Section 00 10 20. Abatement only needed if the planned renovation/demolition activities will directly affect the caulk.

**ENVIRONMENTAL SCOPE SHEETS  
CHICAGO PUBLIC SCHOOLS (CPS)**

Managing Environmental  
Consultant/Project No.:  
100% Issue Date:  
School:

Environmental Design International inc.  
05530-PS1651D-002  
December 10, 2012  
Alexander Graham Bell Elementary School, 3730 North Oakley Avenue

Room ID/Name:	Rooftop (continued)
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Roof Caulk Patch									ACM Removal and Disposal	Refer to Contract Documents and architect's drawings, specifications for scope and extent of work. The ACM survey report that includes information about this room can be found in Specification Section 00 10 20. Abatement only needed if the planned renovation/demolition activities will directly affect the patch.
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**Special Waste:**

Substrate	Component	Walls				Ceiling	Floor	Response Action	Comments
		N	E	S	W	C	F		
None								Not Applicable	

**Note:** If the Abatement Contractor discovers material similar to previously identified ACM or LBP during the course of completing renovation and/or demolition activities and that material will be directly impacted during the course of performing any planned renovation and/or demolition activities, it should be treated/managed as ACM or LBP as appropriate. This includes materials discovered in previously inaccessible areas such as beneath or inside walls, in pipe chases, above the ceiling line, etc.

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**END OF ENVIRONMENTAL SCOPE SHEETS FOR ALEXANDER GRAHAM BELL ELEMENTARY.**



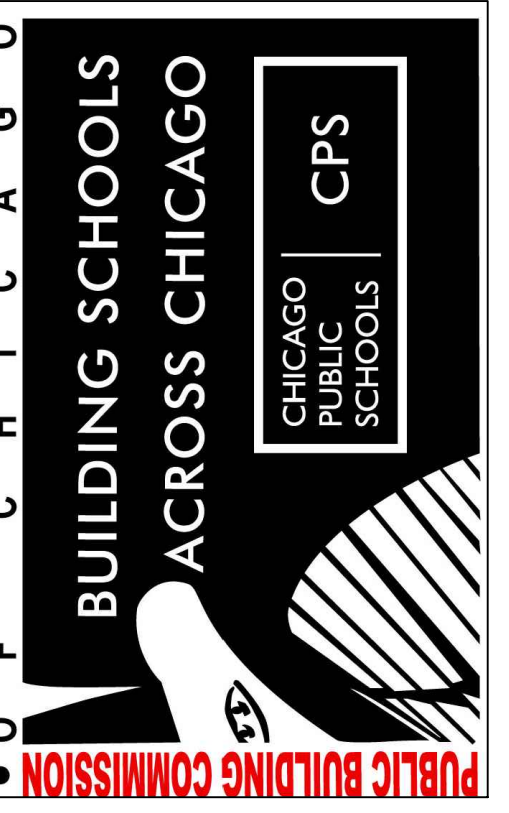
# ALEXANDER GRAHAM BELL ELEMENTARY SCHOOL ADDITION PROJECT ENVIRONMENTAL ABATEMENT DRAWINGS



VICINITY MAP  
NOT TO SCALE

## SHEET LIST

- EDI.01 TITLE SHEET/SURVEY NOTES
- EDI.02 ASBESTOS-CONTAINING MATERIAL (ACM) SURVEY LOCATIONS/RESULTS - FIRST FLOOR
- EDI.03 ASBESTOS-CONTAINING MATERIAL (ACM) SURVEY LOCATIONS/RESULTS - SECOND FLOOR
- EDI.04 ASBESTOS-CONTAINING MATERIAL (ACM) SURVEY LOCATIONS/RESULTS - THIRD FLOOR
- EDI.05 ASBESTOS-CONTAINING MATERIAL (ACM) SURVEY LOCATIONS/RESULTS - ROOFTOP
- EDI.06 LEAD-BASED PAINT (LBP) SURVEY LOCATIONS/RESULTS - FIRST FLOOR
- EDI.07 LEAD-BASED PAINT (LBP) SURVEY LOCATIONS/RESULTS - SECOND FLOOR
- EDI.08 LEAD-BASED PAINT (LBP) SURVEY LOCATIONS/RESULTS - THIRD FLOOR
- EDI.09 HAZARDOUS MATERIAL (HAZ MAT'L) SURVEY LOCATIONS/RESULTS - FIRST FLOOR
- EDI.10 HAZARDOUS MATERIAL (HAZ MAT'L) SURVEY LOCATIONS/RESULTS - SECOND FLOOR
- EDI.11 HAZARDOUS MATERIAL (HAZ MAT'L) SURVEY LOCATIONS/RESULTS - THIRD FLOOR



**ALEXANDER GRAHAM BELL  
ELEMENTARY SCHOOL ADDITION**  
3730 North Oakley Avenue Chicago, Illinois 60618

CHICAGO PUBLIC SCHOOLS  
CITY OF CHICAGO, MAYOR RAHM EMMANUEL



Environmental Design International, Inc.  
Civil, Survey, Environmental and  
Construction Inspection Services  
33 W. MONROE STREET, SUITE 1825  
CHICAGO, IL 60603  
Ph: (312) 345-1400 Fax: (312) 345-0592  
MEMBER IBCO

Issuance		
Mark	Description	Date
	ISSUE FOR BID	11.15.2012
2	ADDENDUM	12.10.2012

**WARNING:**  
ASBESTOS CONTAINING BUILDING MATERIALS ARE OR MAY BE PRESENT IN THIS BUILDING. AN ASBESTOS MANAGEMENT PLAN IS AVAILABLE BY THE SCHOOL. FOR REVIEW UPON REQUEST. NO PERSON MAY DISTURB ASBESTOS CONTAINING MATERIALS UNLESS THIS PERSON IS A LICENSED ASBESTOS ABATEMENT WORKER OR CONDUCTS SUCH WORK IN ACCORDANCE WITH SECTIONS 0504 AND 0505 AND IN COMPLIANCE WITH ALL APPLICABLE FEDERAL, STATE AND LOCAL RULES AND REGULATIONS.

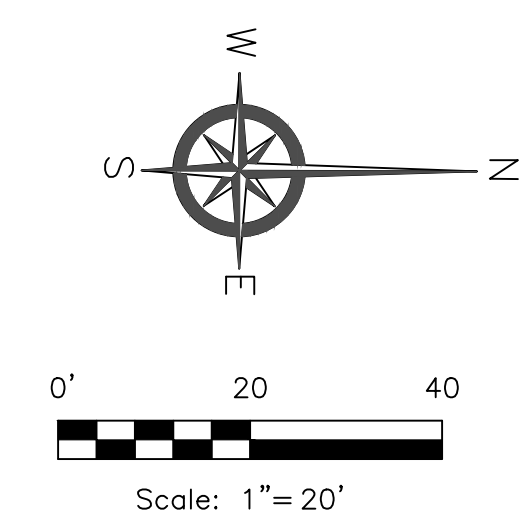
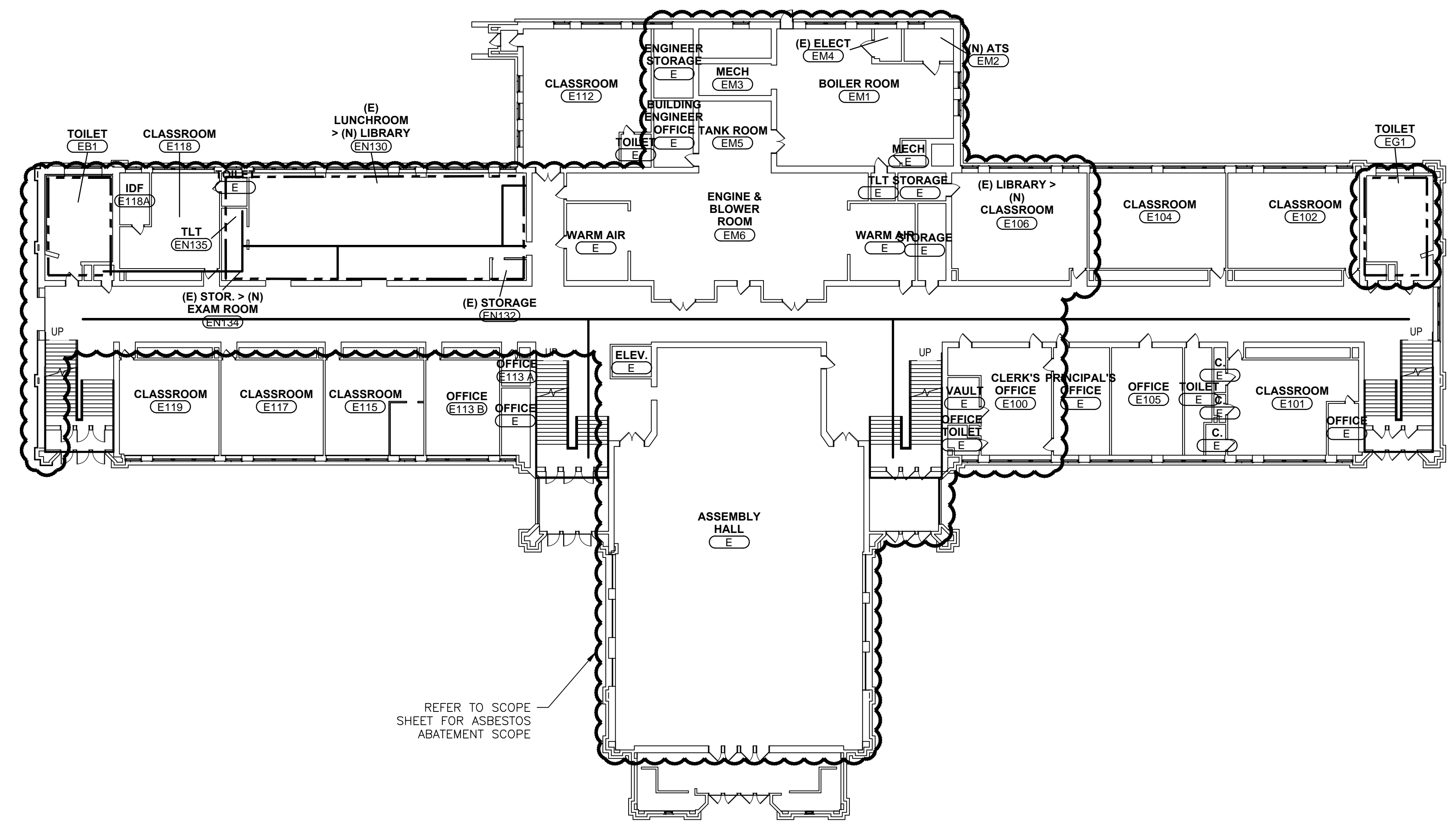
LEAD-BASED PAINT MAY BE PRESENT WITHIN THE BUILDING. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO TAKE APPROPRIATE SAFETY MEASURES IN ACCORDANCE WITH APPLICABLE FEDERAL, STATE AND LOCAL RULES AND REGULATIONS INCLUDING OSHA 29 CFR 1910.104. WASTE DISPOSAL AND DECONTAMINATION AND WASTE DISPOSAL. ALL WORK WITH SURFACES CONTAINING LEAD-BASED PAINT SHALL BE DONE IN ACCORDANCE WITH SECTIONS 0504 AND 0505 AND IN COMPLIANCE WITH ALL APPLICABLE FEDERAL, STATE AND LOCAL RULES AND REGULATIONS.

PBC Project Name: Alexander Graham Bell Elementary School Addition  
PBC Contract No.: 05530

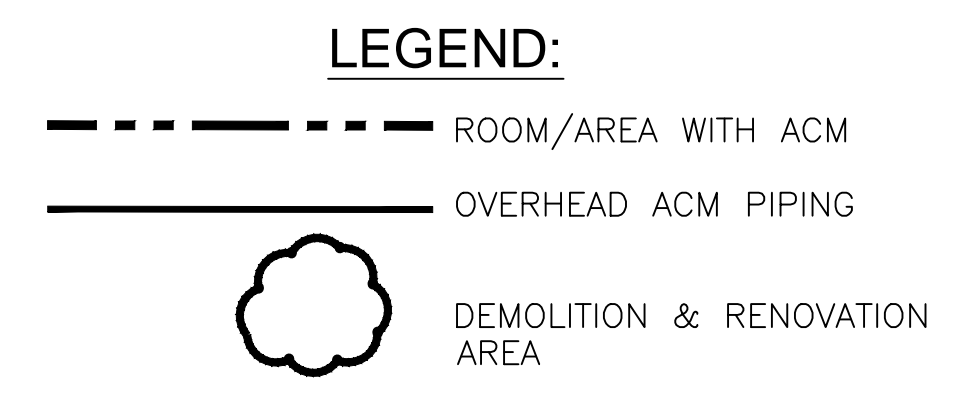
Title  
**COVER SHEET**

Sheet  
**EDI.01**





REFER TO SCOPE SHEET FOR ASBESTOS ABATEMENT SCOPE



**ABATEMENT NOTE:**

1. THE DRAWINGS SHOW REPRESENTATIVE AREAS WHERE ASBESTOS SUBSTRATES AND COMPONENTS (ASBESTOS) HAVE BEEN IDENTIFIED IN THE SCHOOL.
2. ALL ASBESTOS ABATEMENT MUST BE CONDUCTED IN ACCORDANCE WITH SPECIFICATION SECTION 01 56 11 (GENERAL DUST, FUME AND ORDER CONTROL).
3. PLEASE REFER TO THE SCOPE SHEETS WITHIN THE PROJECT SPECIFICATIONS FOR THE ACTUAL DETAIL OF ABATEMENT ACTIVITIES REQUIRED FOR EACH ROOM/AREA AFFECTED BY THE RENOVATION/ADDITION PROJECT.
4. THE CONTRACTOR SHOULD CONSULT WITH PBC BEFORE BEGINNING ANY WORK OUTSIDE OF THE INDICATED WORK AREAS.
5. ACM ABATEMENT: ABATE ALL MATERIAL THAT HAS BEEN IDENTIFIED AS ACM OR IS SIMILAR TO MATERIAL IDENTIFIED AS ACM THAT MAY POTENTIALLY BE IMPACTED BY RENOVATION/DEMOLITION ACTIVITIES IN ACCORDANCE TO CONTRACTS.
6. THE CONTRACTOR SHALL CONFIRM THE PRESENCE, LOCATION, QUANTITY AND CONDITIONS FOR ACM ABATEMENT FROM ACM SURVEY REPORT INCLUDED AS SPECIFICATION SECTION 00 10 20 OF THE PROJECT SPECIFICATIONS.
7. ASBESTOS ABATEMENT WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE CONTRACT DOCUMENTS AND ALL APPLICABLE FEDERAL, STATE, AND LOCAL REGULATIONS INCLUDING BUT NOT LIMITED TO AHERA, OSHA, NESHAP, AND IDPH REGULATIONS. IF ANY CONFLICT BETWEEN THE CONTRACT DOCUMENTS, THE DEFINED SCOPE OF WORK AND THE APPLICABLE REGULATIONS, THE MOST STRINGENT METHOD REQUIRED IS TO BE UTILIZED FOR COMPLIANCE.
8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ABATEMENT, REMOVAL, AND DISPOSAL OF ALL ASBESTOS CONTAINING MATERIALS (ACM), AND LEAD BASED PAINT (LBP) IN THE RENOVATION AREA, INCLUDING PREVIOUS IDENTIFIED ASBESTOS CONTAINING MATERIAL AND NEW ASBESTOS CONTAINING MATERIAL THAT IS DISCOVERED DURING ABATEMENT AND/OR RENOVATION/DEMOLITION ACTIVITIES.
9. ALL INTERPRETATIONS OR QUESTIONS CONCERNING DRAWINGS AND SPECIFICATIONS SHALL BE MADE IN WRITING. BIDDERS ARE REQUIRED TO GET WRITTEN CLARIFICATION ON THE SCOPE WORK AND/OR INTERPRETATIONS OF DOCUMENTS. CHANGE ORDERS RESULTING FROM QUANTITY CHANGES WILL NOT BE APPROVED.
10. RESULTS OF MATERIALS IDENTIFIED AS ACM AND LBP ARE PROVIDED IN THE PROJECT DOCUMENTS (SEE SPECIFICATION SECTION 00 10 20). THE CONTRACTOR SHALL NOT COLLECT ADDITIONAL SAMPLES OF ANY MATERIALS TO VERIFY ACM OR LBP CONTENT. ANY QUESTIONS WITH RESPECT TO THE SCOPE OR VERIFICATION SHALL BE OBTAINED BEFORE BIDDING.
11. THE CONTRACTOR SHALL NOT PERFORM ANY ABATEMENT OF ACM OR MITIGATION/STABILIZATION OF LBP WHERE OCCUPANTS ARE PRESENT. WHEN THE BUILDING IS TO BE OCCUPIED DURING CONSTRUCTION, THE CONTRACTOR SHALL PROVIDE APPROPRIATE SEPARATION BARRIERS BETWEEN THE WORK AREA AND THOSE AREAS TO REMAIN OCCUPIED TO ENSURE THE SAFETY OF THE BUILDING OCCUPANTS.
12. ALL MECHANICAL, ELECTRICAL AND PLUMBING SYSTEMS IN THE WORK AREA SHALL BE SHUT DOWN AND LOCKED OUT PRIOR TO BEGINNING THE ENVIRONMENTAL SCOPE OF WORK. THE CONTRACTOR SHALL ISOLATE SUCH SYSTEMS TO ALLOW THE OCCUPIED PORTIONS OF THE BUILDING TO REMAIN FUNCTIONAL. ALL TEMPORARY POWER, WATER AND WASTEWATER SYSTEMS IN THE WORK AREA SHALL BE PROVIDED IN ACCORDANCE WITH FEDERAL, STATE, AND LOCAL REGULATIONS.
13. ALL ABATEMENT OF ACM SHALL BE PERFORMED USING WET METHODS IN ACCORDANCE WITH THE PROJECT DOCUMENTS, AND APPLICABLE FEDERAL, STATE, AND LOCAL REGULATIONS. NO DRY REMOVAL AND NO VISIBLE EMISSIONS SHALL BE PERMITTED.
14. FOR WORK AREAS THAT INCLUDE ABATEMENT OF ACM VINYL FLOORING AND ASSOCIATED MASTIC ADHESIVES, THE CONTRACTOR SHALL REMOVE ALL LAYERS OF INSTALLED FLOORING AND ASSOCIATED MASTIC, INCLUDING ALL FLOOR LEVELING COMPOUND, WITH ALL SUCH LAYERS ABATED, REMOVED, AND DISPOSED OF AS ACM.
15. THE CONTRACTOR IS RESPONSIBLE FOR ACCESS TO AND FROM ALL AREAS AND FLOORS OF THE BUILDING TO COMPLETE THE WORK. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SELECTIVE DEMOLITION WITHIN THE WORK AREA TO ACCESS THE ACM AND LBP TO BE ABATED THAT MAY BE CONCEALED ABOVE CEILINGS, WITHIN WALLS, BENEATH WALL PARTITIONS OR OTHERWISE HIDDEN FROM VIEW, WHICH MAY BE DISCOVERED DURING THE RENOVATION/DEMOLITION ACTIVITIES ASSOCIATED WITH THE SCOPE OF WORK.
16. THE CONTRACTOR SHALL COORDINATE ALL ABATEMENT OF ACM AND MITIGATION/STABILIZATION OF LBP WITH OTHER TRADES SO THAT ACM AND LBP IS NOT DISTURBED PRIOR TO THE ABATEMENT, REMOVAL AND DISPOSAL OF SUCH MATERIALS.

**EDI**  
 Environmental Design International, Inc.  
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 CHICAGO, IL 60603  
 Ph: (312) 345-4600 Fax: (312) 345-0592  
 WEB: EDI.COM

Issuance		
Mark	Description	Date
	ISSUE FOR BID	11.15.2012
2	ADDENDUM	12.10.2012

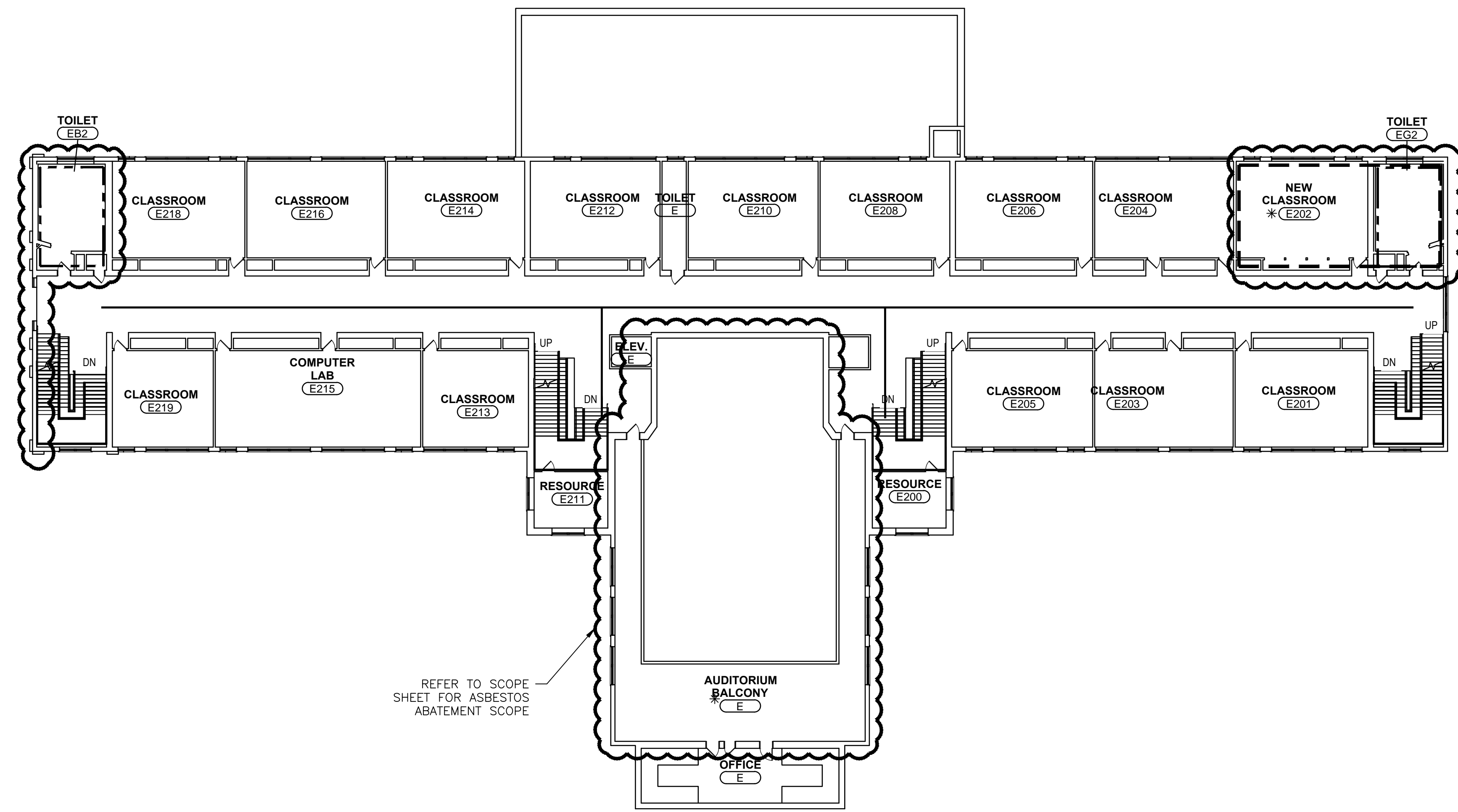
**WARNING:**  
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LEAD-BASED PAINT MAY BE PRESENT WITHIN THE BUILDING. IF IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO TAKE APPROPRIATE SAFETY MEASURES IN ACCORDANCE WITH APPLICABLE FEDERAL, STATE, AND LOCAL RULES AND REGULATIONS INCLUDING LEAD-CONTAINING PAINT, WASTE, DUST, DEBRIS, AND WASTE DISPOSAL. ALL WORK WITH SURFACES CONTAINING LEAD-BASED PAINT SHALL BE DONE IN ACCORDANCE WITH SECTION 015613.13 AND ALL APPLICABLE FEDERAL, STATE AND LOCAL RULES AND REGULATIONS.

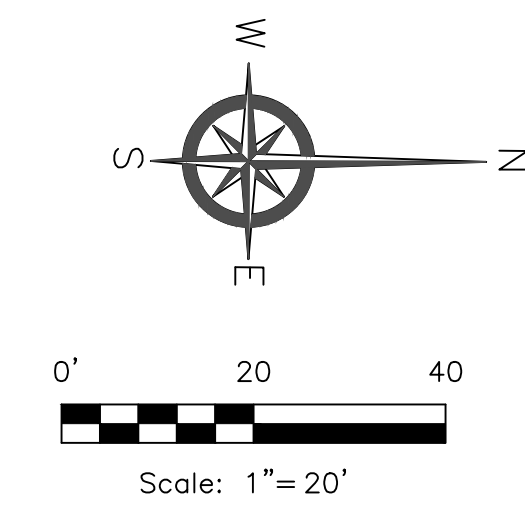
PBC Project Name: Alexander Graham Bell Elementary School Addition  
 PBC Contract No.: 06530

Title: **FIRST FLOOR ASBESTOS WORK AREA**  
 Sheet: **EDI.02**





REFER TO SCOPE SHEET FOR ASBESTOS ABATEMENT SCOPE



**LEGEND:**

- ROOM/AREA WITH ACM
- OVERHEAD ACM PIPING
- DEMOLITION & RENOVATION AREA

**ABATEMENT NOTE:**

1. THE DRAWINGS SHOW REPRESENTATIVE AREAS WHERE ASBESTOS SUBSTRATES AND COMPONENTS (ASBESTOS) HAVE BEEN IDENTIFIED IN THE SCHOOL.
2. ALL ASBESTOS ABATEMENT MUST BE CONDUCTED IN ACCORDANCE WITH SPECIFICATION SECTION 01 56 11 (GENERAL DUST, FUME AND ORDOR CONTROL).
3. PLEASE REFER TO THE SCOPE SHEETS WITHIN THE PROJECT SPECIFICATIONS FOR THE ACTUAL DETAIL OF ABATEMENT ACTIVITIES REQUIRED FOR EACH ROOM/AREA AFFECTED BY THE RENOVATION/ADDITION PROJECT.
4. THE CONTRACTOR SHOULD CONSULT WITH PBC BEFORE BEGINNING ANY WORK OUTSIDE OF THE INDICATED WORK AREAS.
5. ACM ABATEMENT: ABATE ALL MATERIAL THAT HAS BEEN IDENTIFIED AS ACM OR IS SIMILAR TO MATERIAL IDENTIFIED AS ACM THAT MAY POTENTIALLY BE IMPACTED BY RENOVATION/DEMOLITION ACTIVITIES IN ACCORDANCE TO CONTRACTS.
6. THE CONTRACTOR SHALL CONFIRM THE PRESENCE, LOCATION, QUANTITY AND CONDITIONS FOR ACM ABATEMENT FROM ACM SURVEY REPORT INCLUDED AS SPECIFICATION SECTION 00 10 20 OF THE PROJECT SPECIFICATIONS.
7. ASBESTOS ABATEMENT WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE CONTRACT DOCUMENTS AND ALL APPLICABLE FEDERAL, STATE, AND LOCAL REGULATIONS INCLUDING BUT NOT LIMITED TO AHERA, OSHA, NESHAP, AND IDPH REGULATIONS. IF ANY CONFLICT BETWEEN THE CONTRACT DOCUMENTS, THE DEFINED SCOPE OF WORK AND THE APPLICABLE REGULATIONS, THE MOST STRINGENT METHOD REQUIRED IS TO BE UTILIZED FOR COMPLIANCE.
8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ABATEMENT, REMOVAL, AND DISPOSAL OF ALL ASBESTOS CONTAINING MATERIALS (ACM), AND LEAD BASED PAINT (LBP) IN THE RENOVATION AREA, INCLUDING PREVIOUS IDENTIFIED ASBESTOS CONTAINING MATERIAL AND NEW ASBESTOS CONTAINING MATERIAL THAT IS DISCOVERED DURING ABATEMENT AND/OR RENOVATION/DEMOLITION ACTIVITIES.
9. ALL INTERPRETATIONS OR QUESTIONS CONCERNING DRAWINGS AND SPECIFICATIONS SHALL BE MADE IN WRITING. BIDDERS ARE REQUIRED TO GET WRITTEN CLARIFICATION ON THE SCOPE WORK AND/OR INTERPRETATIONS OF DOCUMENTS. CHANGE ORDERS RESULTING FROM QUANTITY CHANGES WILL NOT BE APPROVED.
10. RESULTS OF MATERIALS IDENTIFIED AS ACM AND LBP ARE PROVIDED IN THE PROJECT DOCUMENTS (SEE SPECIFICATION SECTION 00 10 20). THE CONTRACTOR SHALL NOT COLLECT ADDITIONAL SAMPLES OF ANY MATERIALS TO VERIFY ACM OR LBP CONTENT. ANY QUESTIONS WITH RESPECT TO THE SCOPE OR VERIFICATION SHALL BE OBTAINED BEFORE BIDDING.
11. THE CONTRACTOR SHALL NOT PERFORM ANY ABATEMENT OF ACM OR MITIGATION/STABILIZATION OF LBP WHERE OCCUPANTS ARE PRESENT. WHEN THE BUILDING IS TO BE OCCUPIED DURING CONSTRUCTION, THE CONTRACTOR SHALL PROVIDE APPROPRIATE SEPARATION BARRIERS BETWEEN THE WORK AREA AND THOSE AREAS TO REMAIN OCCUPIED TO ENSURE THE SAFETY OF THE BUILDING OCCUPANTS.
12. ALL MECHANICAL, ELECTRICAL AND PLUMBING SYSTEMS IN THE WORK AREA SHALL BE SHUT DOWN AND LOCKED OUT PRIOR TO BEGINNING THE ENVIRONMENTAL SCOPE OF WORK. THE CONTRACTOR SHALL ISOLATE SUCH SYSTEMS TO ALLOW THE OCCUPIED PORTIONS OF THE BUILDING TO REMAIN FUNCTIONAL. ALL TEMPORARY POWER, WATER AND WASTEWATER SYSTEMS IN THE WORK AREA SHALL BE PROVIDED IN ACCORDANCE WITH FEDERAL, STATE, AND LOCAL REGULATIONS.
13. ALL ABATEMENT OF ACM SHALL BE PERFORMED USING WET METHODS IN ACCORDANCE WITH THE PROJECT DOCUMENTS, AND APPLICABLE FEDERAL, STATE, AND LOCAL REGULATIONS. NO DRY REMOVAL AND NO VISIBLE EMISSIONS SHALL BE PERMITTED.
14. FOR WORK AREAS THAT INCLUDE ABATEMENT OF ACM VINYL FLOORING AND ASSOCIATED MASTIC ADHESIVES, THE CONTRACTOR SHALL REMOVE ALL LAYERS OF INSTALLED FLOORING AND ASSOCIATED MASTIC, INCLUDING ALL FLOOR LEVELING COMPOUND, WITH ALL SUCH LAYERS ABATED, REMOVED, AND DISPOSED OF AS ACM.
15. THE CONTRACTOR IS RESPONSIBLE FOR ACCESS TO AND FROM ALL AREAS AND FLOORS OF THE BUILDING TO COMPLETE THE WORK. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SELECTIVE DEMOLITION WITHIN THE WORK AREA TO ACCESS THE ACM AND LBP TO BE ABATED THAT MAY BE CONCEALED ABOVE CEILINGS, WITHIN WALLS, BENEATH WALL PARTITIONS OR OTHERWISE HIDDEN FROM VIEW, WHICH MAY BE DISCOVERED DURING THE RENOVATION/DEMOLITION ACTIVITIES ASSOCIATED WITH THE SCOPE OF WORK.
16. THE CONTRACTOR SHALL COORDINATE ALL ABATEMENT OF ACM AND MITIGATION/STABILIZATION OF LBP WITH OTHER TRADES SO THAT ACM AND LBP IS NOT DISTURBED PRIOR TO THE ABATEMENT, REMOVAL AND DISPOSAL OF SUCH MATERIALS.

Issuance		
Mark	Description	Date
	ISSUE FOR BID	11.15.2012
2	ADDENDUM	12.10.2012

**WARNING:**  
 ASBESTOS CONTAINING BUILDING MATERIALS ARE OR MAY BE PRESENT IN THIS BUILDING. AN ASBESTOS MANAGEMENT PLAN IS AVAILABLE BY THE SCHOOL. FOR REVIEW UPON REQUEST. NO PERSON MAY DISTURB ASBESTOS CONTAINING MATERIALS UNLESS THIS PERSON IS A LICENSED ASBESTOS ABATEMENT WORKER OR CONDUCTS SUCH WORK IN ACCORDANCE WITH SECTIONS 0504 AND 0505 AND IN COMPLIANCE WITH ALL APPLICABLE FEDERAL, STATE AND LOCAL RULES AND REGULATIONS.

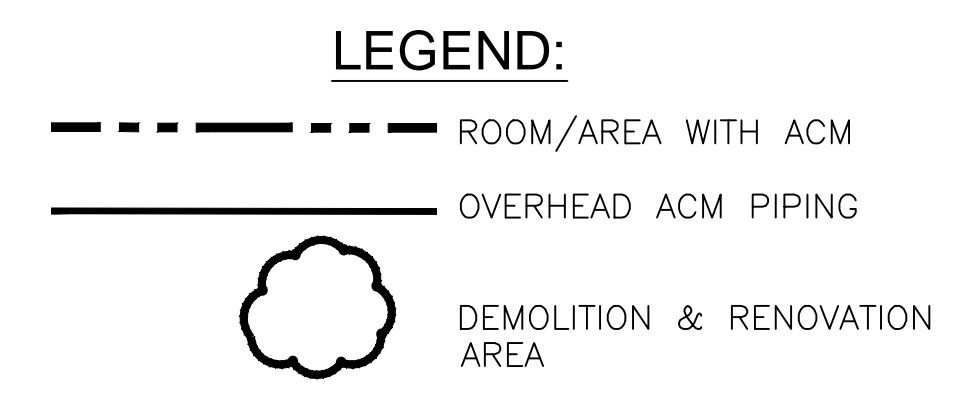
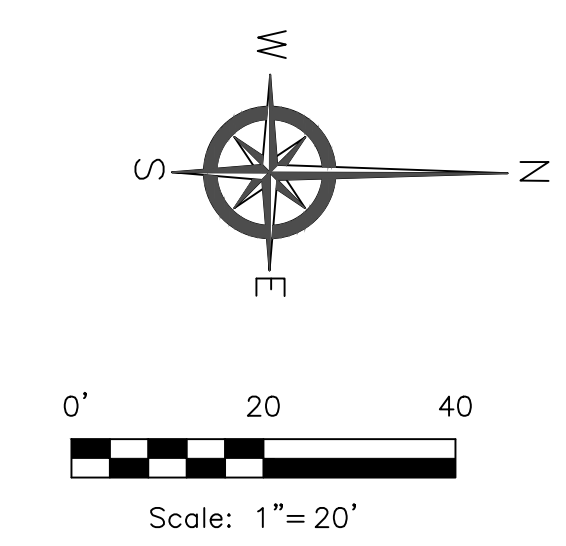
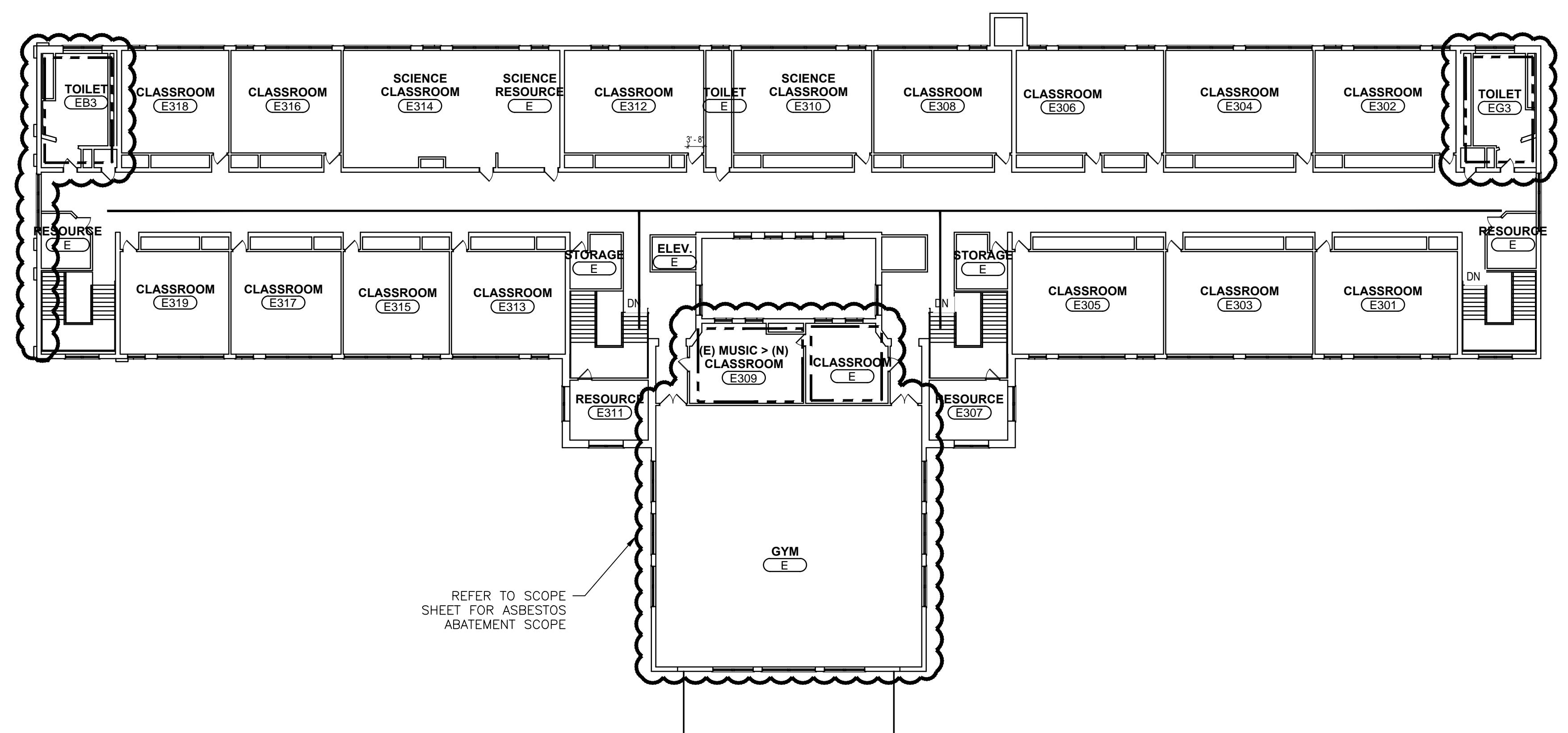
LEAD-BASED PAINT MAY BE PRESENT WITHIN THE BUILDING. IF IS THE RESPONSIBILITY OF THE CONTRACTOR TO HAVE APPROPRIATE SAFETY MEASURES IN ACCORDANCE WITH APPLICABLE FEDERAL, STATE, AND LOCAL RULES AND REGULATIONS INCLUDING OSHA 29 CFR 1910.104, 1915.104, 1926.104, 1926.105 AND 1926.106. ALL WORK WITH SURFACES CONTAINING LEAD-PAINT SHALL BE DONE IN ACCORDANCE WITH SECTION 0504 AND 0505 AND ALL APPLICABLE FEDERAL, STATE AND LOCAL RULES AND REGULATIONS.

PBC Project Name: Alexander Graham Bell Elementary School Addition  
 PBC Contract No.: 06530

Title: **SECOND FLOOR ASBESTOS WORK AREA**

Sheet: **EDI.03**





**ABATEMENT NOTE:**

1. THE DRAWINGS SHOW REPRESENTATIVE AREAS WHERE ASBESTOS SUBSTRATES AND COMPONENTS (ASBESTOS) HAVE BEEN IDENTIFIED IN THE SCHOOL.
2. ALL ASBESTOS ABATEMENT MUST BE CONDUCTED IN ACCORDANCE WITH SPECIFICATION SECTION 01 56 11 (GENERAL DUST, FUME AND ORDER CONTROL).
3. PLEASE REFER TO THE SCOPE SHEETS WITHIN THE PROJECT SPECIFICATIONS FOR THE ACTUAL DETAIL OF ABATEMENT ACTIVITIES REQUIRED FOR EACH ROOM/AREA AFFECTED BY THE RENOVATION/ADDITION PROJECT.
4. THE CONTRACTOR SHOULD CONSULT WITH PBC BEFORE BEGINNING ANY WORK OUTSIDE OF THE INDICATED WORK AREAS.
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6. THE CONTRACTOR SHALL CONFIRM THE PRESENCE, LOCATION, QUANTITY AND CONDITIONS FOR ACM ABATEMENT FROM ACM SURVEY REPORT INCLUDED AS SPECIFICATION SECTION 00 10 20 OF THE PROJECT SPECIFICATIONS.
7. ASBESTOS ABATEMENT WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE CONTRACT DOCUMENTS AND ALL APPLICABLE FEDERAL, STATE, AND LOCAL REGULATIONS INCLUDING BUT NOT LIMITED TO AHERA, OSHA, NESHAP, AND IDPH REGULATIONS. IF ANY CONFLICT BETWEEN THE CONTRACT DOCUMENTS, THE DEFINED SCOPE OF WORK AND THE APPLICABLE REGULATIONS, THE MOST STRINGENT METHOD REQUIRED IS TO BE UTILIZED FOR COMPLIANCE.
8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ABATEMENT, REMOVAL, AND DISPOSAL OF ALL ASBESTOS CONTAINING MATERIALS (ACM), AND LEAD BASED PAINT (LBP) IN THE RENOVATION AREA, INCLUDING PREVIOUS IDENTIFIED ASBESTOS CONTAINING MATERIAL AND NEW ASBESTOS CONTAINING MATERIAL THAT IS DISCOVERED DURING ABATEMENT AND/OR RENOVATION/DEMOLITION ACTIVITIES.
9. ALL INTERPRETATIONS OR QUESTIONS CONCERNING DRAWINGS AND SPECIFICATIONS SHALL BE MADE IN WRITING. BIDDERS ARE REQUIRED TO GET WRITTEN CLARIFICATION ON THE SCOPE WORK AND/OR INTERPRETATIONS OF DOCUMENTS. CHANGE ORDERS RESULTING FROM QUANTITY CHANGES WILL NOT BE APPROVED.
10. RESULTS OF MATERIALS IDENTIFIED AS ACM AND LBP ARE PROVIDED IN THE PROJECT DOCUMENTS (SEE SPECIFICATION SECTION 00 10 20). THE CONTRACTOR SHALL NOT COLLECT ADDITIONAL SAMPLES OF ANY MATERIALS TO VERIFY ACM OR LBP CONTENT. ANY QUESTIONS WITH RESPECT TO THE SCOPE OR VERIFICATION SHALL BE OBTAINED BEFORE BIDDING.
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13. ALL ABATEMENT OF ACM SHALL BE PERFORMED USING WET METHODS IN ACCORDANCE WITH THE PROJECT DOCUMENTS, AND APPLICABLE FEDERAL, STATE, AND LOCAL REGULATIONS. NO DRY REMOVAL AND NO VISIBLE EMISSIONS SHALL BE PERMITTED.
14. FOR WORK AREAS THAT INCLUDE ABATEMENT OF ACM VINYL FLOORING AND ASSOCIATED MASTIC ADHESIVES, THE CONTRACTOR SHALL REMOVE ALL LAYERS OF INSTALLED FLOORING AND ASSOCIATED MASTIC, INCLUDING ALL FLOOR LEVELING COMPOUND, WITH ALL SUCH LAYERS ABATED, REMOVED, AND DISPOSED OF AS ACM.
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16. THE CONTRACTOR SHALL COORDINATE ALL ABATEMENT OF ACM AND MITIGATION/STABILIZATION OF LBP WITH OTHER TRADES SO THAT ACM AND LBP IS NOT DISTURBED PRIOR TO THE ABATEMENT, REMOVAL AND DISPOSAL OF SUCH MATERIALS.

Issuance		
Mark	Description	Date
	ISSUE FOR BID	11.15.2012
2	ADDENDUM	12.10.2012

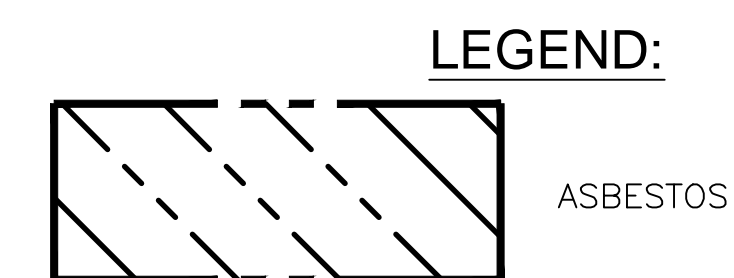
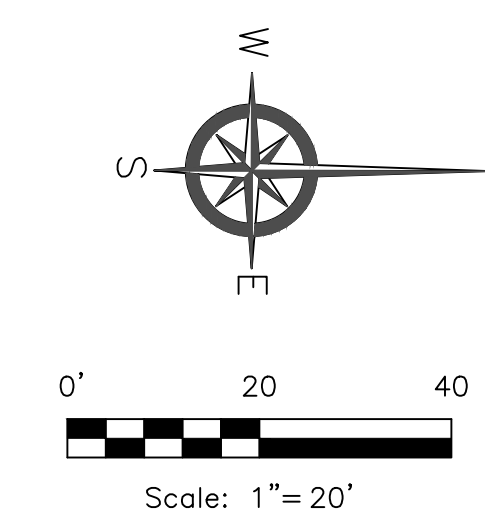
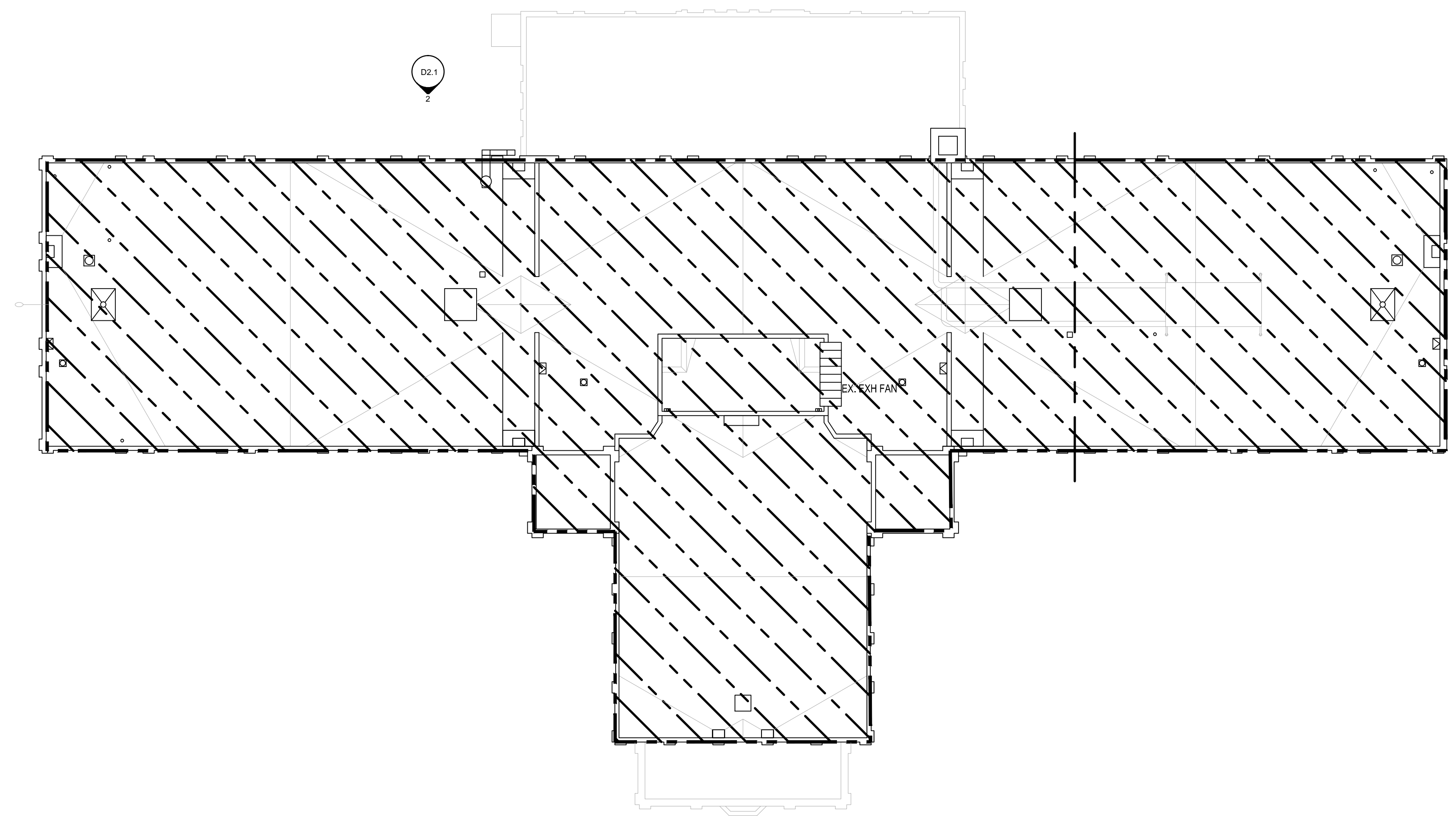
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LEAD-BASED PAINT MAY BE PRESENT WITHIN THE BUILDING. IF IT IS RESPONSIBLE FOR THE CONTRACTOR TO USE APPROPRIATE SAFETY MEASURES IN ACCORDANCE WITH APPLICABLE FEDERAL, STATE AND LOCAL RULES AND REGULATIONS INCLUDING OSHA 29 CFR 1910.104. WORKERS SHALL WEAR PROTECTIVE CLOTHING AND RESPIRATORS. ALL WORK WITH SURFACES CONTAINING LEAD-NEEDED PAINT SHALL BE DONE IN ACCORDANCE WITH SECTION 0504 AND 0505 AND ALL APPLICABLE FEDERAL, STATE AND LOCAL RULES AND REGULATIONS.

PBC Project Name: Alexander Graham Bell Elementary School Addition  
 PBC Contract No.: 05530

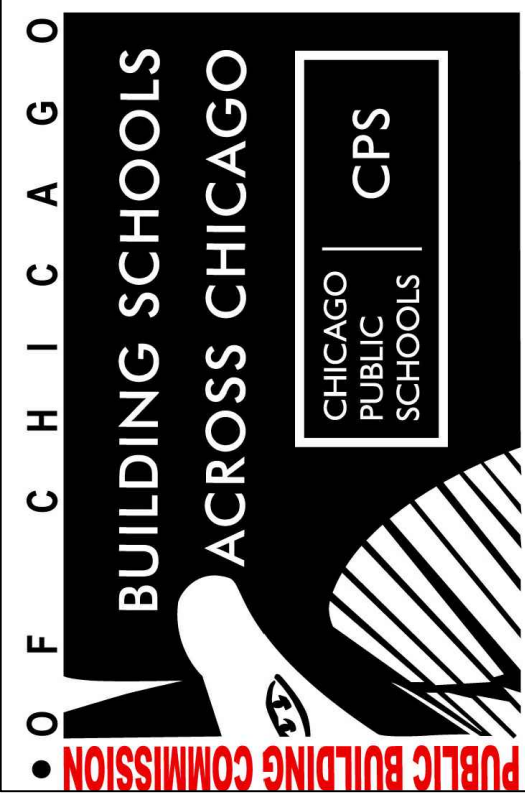
Title: **THIRD FLOOR ASBESTOS WORK AREA**  
 Sheet: **EDI.04**





**ABATEMENT NOTE:**

1. THE DRAWINGS SHOW REPRESENTATIVE AREAS WHERE ASBESTOS SUBSTRATES AND COMPONENTS (ASBESTOS) HAVE BEEN IDENTIFIED IN THE SCHOOL.
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6. THE CONTRACTOR SHALL CONFIRM THE PRESENCE, LOCATION, QUANTITY AND CONDITIONS FOR ACM ABATEMENT FROM ACM SURVEY REPORT INCLUDED AS SPECIFICATION SECTION 00 10 20 OF THE PROJECT SPECIFICATIONS.
7. ASBESTOS ABATEMENT WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE CONTRACT DOCUMENTS AND ALL APPLICABLE FEDERAL, STATE, AND LOCAL REGULATIONS INCLUDING BUT NOT LIMITED TO AHERA, OSHA, NESHAP, AND IDPH REGULATIONS. IF ANY CONFLICT BETWEEN THE CONTRACT DOCUMENTS, THE DEFINED SCOPE OF WORK AND THE APPLICABLE REGULATIONS, THE MOST STRINGENT METHOD REQUIRED IS TO BE UTILIZED FOR COMPLIANCE.
8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ABATEMENT, REMOVAL, AND DISPOSAL OF ALL ASBESTOS CONTAINING MATERIALS (ACM), AND LEAD BASED PAINT (LBP) IN THE RENOVATION AREA, INCLUDING PREVIOUS IDENTIFIED ASBESTOS CONTAINING MATERIAL AND NEW ASBESTOS CONTAINING MATERIAL THAT IS DISCOVERED DURING ABATEMENT AND/OR RENOVATION/DEMOLITION ACTIVITIES.
9. ALL INTERPRETATIONS OR QUESTIONS CONCERNING DRAWINGS AND SPECIFICATIONS SHALL BE MADE IN WRITING. BIDDERS ARE REQUIRED TO GET WRITTEN CLARIFICATION ON THE SCOPE WORK AND/OR INTERPRETATIONS OF DOCUMENTS. CHANGE ORDERS RESULTING FROM QUANTITY CHANGES WILL NOT BE APPROVED.
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**ALEXANDER GRAHAM BELL  
ELEMENTARY SCHOOL ADDITION**

3730 North Oakley Avenue Chicago, Illinois 60618

CHICAGO PUBLIC SCHOOLS  
CITY OF CHICAGO, MAYOR RAHM EMMANUEL



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CHICAGO, IL 60603  
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Mark	Description	Date
	ISSUE FOR BID	11.15.2012
2	ADDENDUM	12.10.2012

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LEAD-BASED PAINT MAY BE PRESENT WITHIN THE BUILDING. IF IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO TAKE APPROPRIATE SAFETY MEASURES IN ACCORDANCE WITH APPLICABLE FEDERAL, STATE AND LOCAL RULES AND REGULATIONS INCLUDING CONDUCTING LEAD-BASED PAINT SURVEYS, WASTE CHARACTERIZATION AND WASTE DISPOSAL. ALL WORK WITH SURFACES CONTAINING LEAD-BASED PAINT SHALL BE DONE IN ACCORDANCE WITH SECTIONS 0824 AND 0825 AND ALL APPLICABLE FEDERAL, STATE AND LOCAL RULES AND REGULATIONS.

PBC Project Name: Alexander Graham Bell Elementary School Addition  
PBC Contract No.: 05530

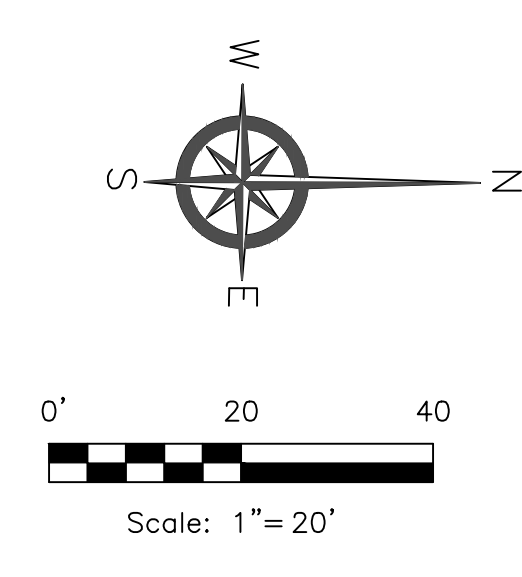
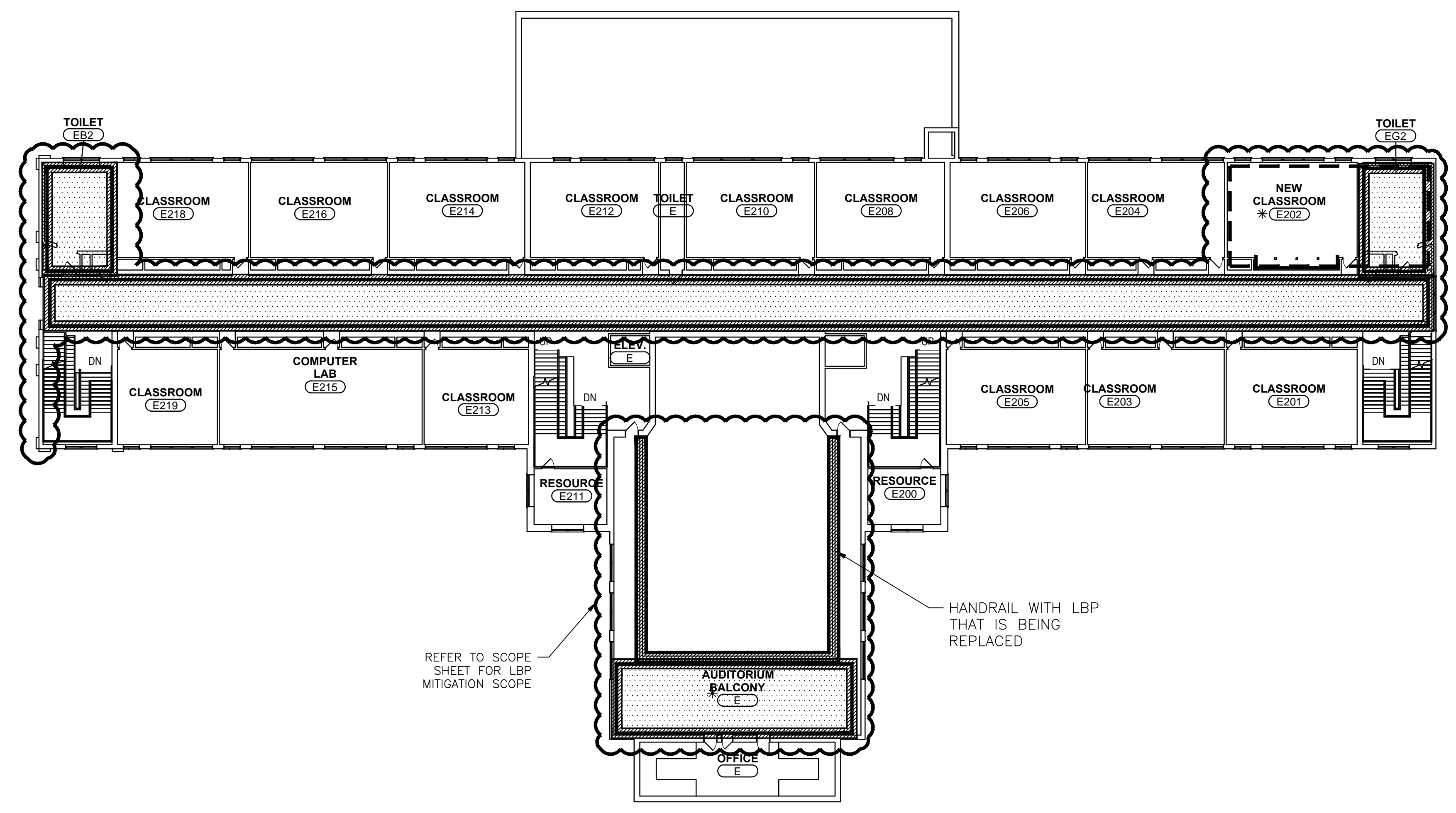
Title: **ROOF PLAN  
ASBESTOS  
WORK AREA**

Sheet: **EDI.05**









REFER TO SCOPE SHEET FOR LBP MITIGATION SCOPE

HANDRAIL WITH LBP THAT IS BEING REPLACED

**LEGEND:**

- WALLS W/ LBP
- CEILINGS W/ LBP
- DEMOLITION & RENOVATION AREA

**ABATEMENT NOTE:**

1. THE DRAWINGS SHOW REPRESENTATIVE AREAS WHERE LEAD-BASED PAINT SUBSTRATES AND COMPONENTS (LBP) HAVE BEEN IDENTIFIED IN THE SCHOOL.
2. LBP MAY BE PRESENT WITHIN THE BUILDING. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO TAKE APPROPRIATE SAFETY MEASURES IN ACCORDANCE WITH APPLICABLE FEDERAL, STATE, AND LOCAL RULES AND REGULATIONS INCLUDING OSHA (29 CFR 1926.62) COMPLIANCE, WASTE CHARACTERIZATIONS AND WASTE DISPOSAL. ALL WORK WITH SURFACES CONTAINING LEAD-BASED PAINT SHALL BE DONE IN ACCORDANCE WITH SECTION 028319.13 AND ALL APPLICABLE FEDERAL, STATE AND LOCAL RULES AND REGULATIONS.
3. ALL LBP MITIGATION/STABILIZATION MUST BE CONDUCTED IN ACCORDANCE WITH SPECIFICATION SECTION 01 56 11 (GENERAL DUST, FUME & ODOR CONTROL).
4. THE CONTRACTOR SHOULD CONSULT WITH PBC BEFORE BEGINNING ANY WORK OUTSIDE OF THE INDICATED WORK AREAS.
5. VERIFY BOILER ROOM DETAILS USING INFORMATION FROM APPENDIX B (POSITIVE XRF RESULTS) OF THE LBP REPORT INCLUDED AS SPECIFICATION SECTION 00 10 20 OF THE PROJECT SPECIFICATIONS.
6. MITIGATION/STABILIZATION FOR BATHROOMS INCLUDES VESTIBULE AREAS.
7. WHEREVER LBP CEILING IMPACT IS NOTED AND RENOVATION OR DEMOLITION ACTIVITIES ARE PLANNED, THE ENTIRE CEILING SHOULD BE MITIGATED OR STABILIZED.
8. PLEASE REFER TO THE SCOPE SHEETS WITHIN THE PROJECT SPECIFICATIONS FOR THE ACTUAL DETAIL OF MITIGATION/STABILIZATION ACTIVITIES REQUIRED FOR EACH ROOM/AREA AFFECTED BY THE RENOVATION/ADDITION PROJECT.
9. LBP ABATEMENT: ONLY MITIGATE SURFACES THAT ARE DIRECTLY IMPACTED BY RENOVATION AND/OR DEMOLITION ACTIVITIES UNLESS OTHERWISE CALLED OUT BY THE ARCHITECT TO REPAIR.
10. THE CONTRACTOR SHALL CONFIRM THE PRESENCE, LOCATION, QUANTITY AND CONDITIONS FOR LBP MITIGATION/STABILIZATION FROM LBP SURVEY REPORT INCLUDED AS SPECIFICATION SECTION 00 10 20 OF THE PROJECT SPECIFICATIONS.
11. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ABATEMENT, REMOVAL, AND DISPOSAL OF ALL ASBESTOS CONTAINING MATERIALS (ACM), AND MITIGATION/STABILIZATION OF LBP IN THE RENOVATION AREA, INCLUDING PREVIOUS IDENTIFIED ASBESTOS CONTAINING MATERIAL AND NEW ASBESTOS CONTAINING MATERIAL THAT IS DISCOVERED DURING ABATEMENT AND/OR RENOVATION/DEMOLITION ACTIVITIES.
12. ALL INTERPRETATIONS OR QUESTIONS CONCERNING DRAWINGS AND SPECIFICATIONS SHALL BE MADE IN WRITING. BIDDERS ARE REQUIRED TO GET WRITTEN CLARIFICATION ON THE SCOPE WORK AND/OR INTERPRETATIONS OF DOCUMENTS. CHANGE ORDERS RESULTING FROM QUANTITY CHANGES WILL NOT BE APPROVED.
13. RESULTS OF MATERIALS IDENTIFIED AS ACM AND LBP ARE PROVIDED IN THE PROJECT DOCUMENTS (SEE SPECIFICATION SECTION 00 10 20). THE CONTRACTOR SHALL NOT PERFORM ANY ABATEMENT OF ACM OR MITIGATION/STABILIZATION OF LBP WHERE OCCUPANTS ARE PRESENT. WHEN THE BUILDING IS TO BE OCCUPIED DURING CONSTRUCTION, THE CONTRACTOR SHALL PROVIDE APPROPRIATE SEPARATION BARRIERS BETWEEN THE WORK AREA AND THOSE AREAS TO REMAIN OCCUPIED TO ENSURE THE SAFETY OF THE BUILDING OCCUPANTS.
14. ALL MECHANICAL, ELECTRICAL AND PLUMBING SYSTEMS IN THE WORK AREA SHALL BE SHUT DOWN AND LOCKED OUT PRIOR TO BEGINNING THE ENVIRONMENTAL SCOPE OF WORK. THE CONTRACTOR SHALL ISOLATE SUCH SYSTEMS TO ALLOW THE OCCUPIED PORTIONS OF THE BUILDING TO REMAIN FUNCTIONAL. ALL TEMPORARY POWER, WATER AND WASTEWATER SYSTEMS IN THE WORK AREA SHALL BE PROVIDED IN ACCORDANCE WITH FEDERAL, STATE, AND LOCAL REGULATIONS.
15. THE CONTRACTOR IS RESPONSIBLE FOR ACCESS TO AND FROM ALL AREAS AND FLOORS OF THE BUILDING TO COMPLETE THE WORK. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SELECTIVE DEMOLITION WITHIN THE WORK AREA TO ACCESS THE ACM AND LBP TO BE ABATED THAT MAY BE CONCEALED ABOVE CEILINGS, WITHIN WALLS, BENEATH WALL PARTITIONS OR OTHERWISE HIDDEN FROM VIEW, WHICH MAY BE DISCOVERED DURING THE RENOVATION/DEMOLITION ACTIVITIES ASSOCIATED WITH THE SCOPE OF WORK.
16. THE CONTRACTOR SHALL COORDINATE ALL ABATEMENT OF ACM AND MITIGATION/STABILIZATION OF LBP WITH OTHER TRADES SO THAT ACM AND LBP IS NOT DISTURBED PRIOR TO THE ABATEMENT, REMOVAL AND DISPOSAL OF SUCH MATERIALS.

**EDI**  
 Environmental Design International, Inc.  
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 CHICAGO, IL 60603  
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 WWW.EDIGEO.COM

Issuance		
Mark	Description	Date
	ISSUE FOR BID	11.15.2012
2	ADDENDUM	12.10.2012

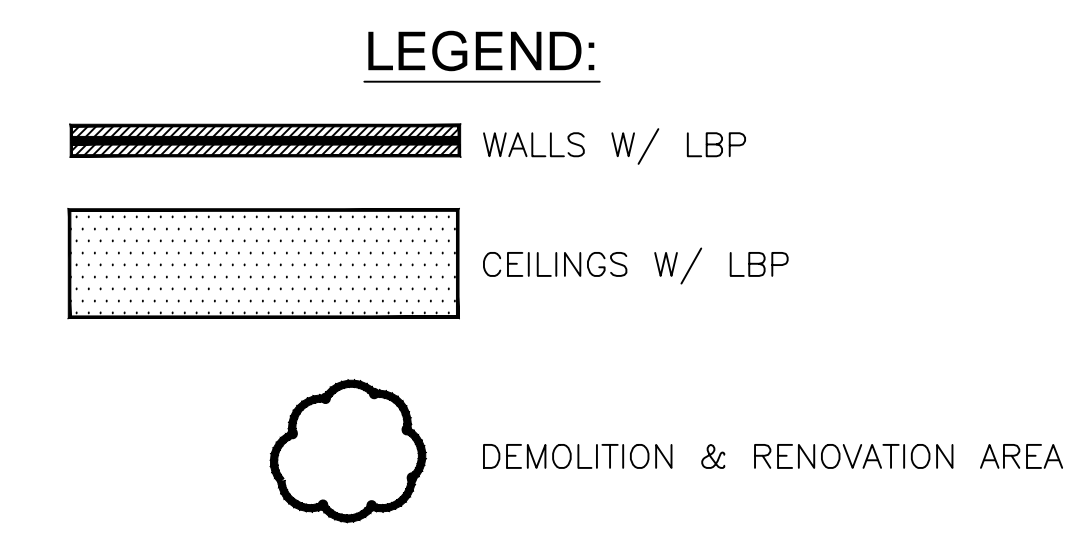
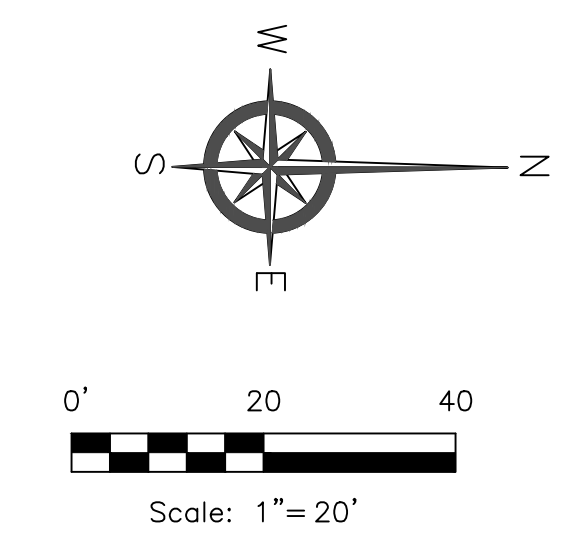
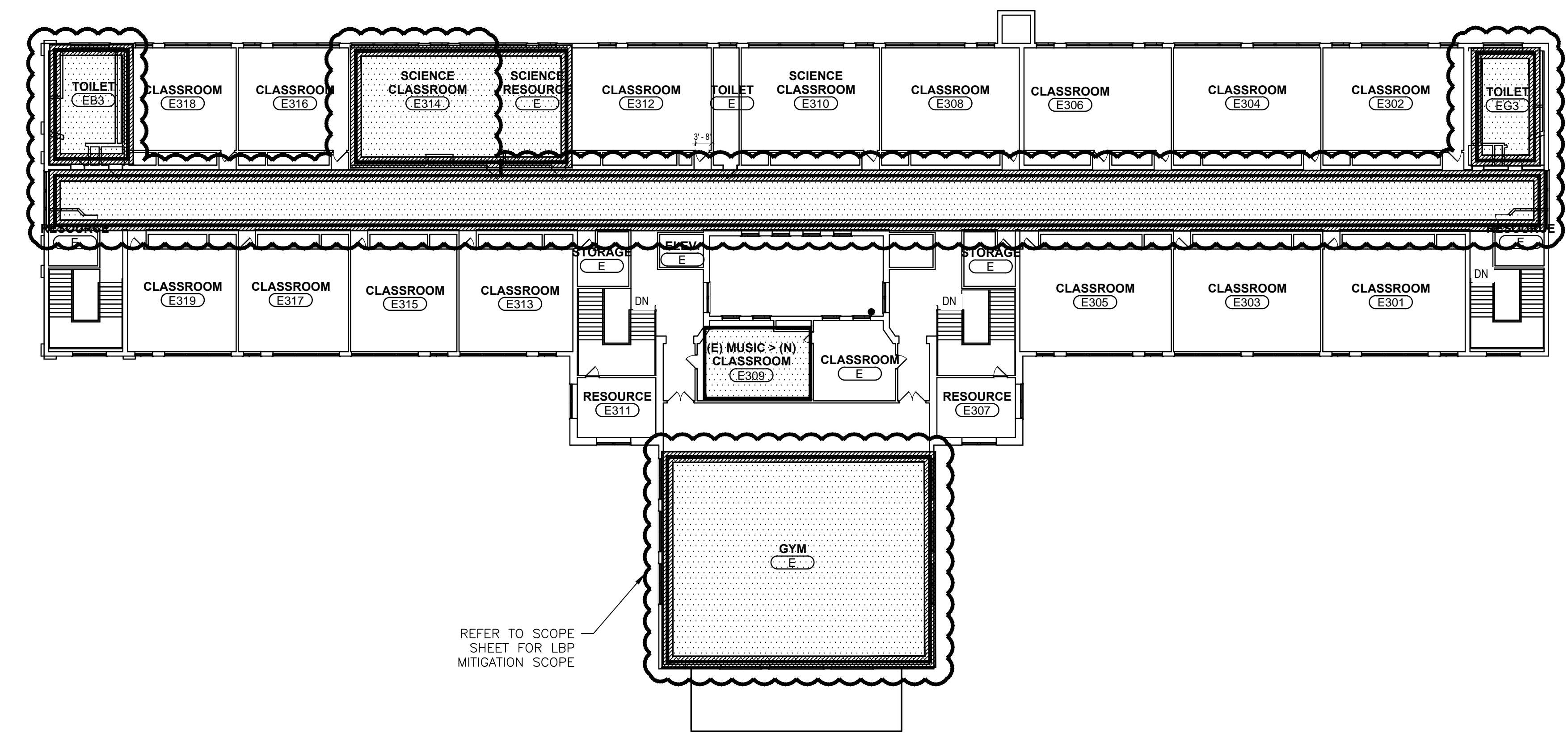
**WARNING:**  
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LEAD-BASED PAINT MAY BE PRESENT WITHIN THE BUILDING. IF IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO TAKE APPROPRIATE SAFETY MEASURES IN ACCORDANCE WITH APPLICABLE FEDERAL, STATE AND LOCAL RULES AND REGULATIONS INCLUDING OSHA (29 CFR 1926.62) COMPLIANCE, WASTE CHARACTERIZATIONS AND WASTE DISPOSAL. ALL WORK WITH SURFACES CONTAINING LEAD-BASED PAINT SHALL BE DONE IN ACCORDANCE WITH SECTION 028319.13 AND ALL APPLICABLE FEDERAL, STATE AND LOCAL RULES AND REGULATIONS.

PBC Project Name: Alexander Graham Bell  
 Elementary School Addition  
 PBC Contract No.: 05530

PLOT DATE: 12/17/2012 4:27 PM PLOTTED BY: AMANDA JOHNSON 131201 Public Building Commission of Chicago\131201\028 Bell School Addition Revised Survey\05 CAD\01\EDIGEO\131201\028 BNC\_MKASD\_FL.dwg 12/17/2012 3:41 PM





**ABATEMENT NOTE:**

1. THE DRAWINGS SHOW REPRESENTATIVE AREAS WHERE LEAD-BASED PAINT SUBSTRATES AND COMPONENTS (LBP) HAVE BEEN IDENTIFIED IN THE SCHOOL.
2. LBP MAY BE PRESENT WITHIN THE BUILDING. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO TAKE APPROPRIATE SAFETY MEASURES IN ACCORDANCE WITH APPLICABLE FEDERAL, STATE, AND LOCAL RULES AND REGULATIONS INCLUDING OSHA (29 CFR 1926.62) COMPLIANCE, WASTE CHARACTERIZATIONS AND WASTE DISPOSAL. ALL WORK WITH SURFACES CONTAINING LEAD-BASED PAINT SHALL BE DONE IN ACCORDANCE WITH SECTION 028319.13 AND ALL APPLICABLE FEDERAL, STATE AND LOCAL RULES AND REGULATIONS.
3. ALL LBP MITIGATION/STABILIZATION MUST BE CONDUCTED IN ACCORDANCE WITH SPECIFICATION SECTION 01 56 11 (GENERAL DUST, FUME & ODOR CONTROL).
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13. RESULTS OF MATERIALS IDENTIFIED AS ACM AND LBP ARE PROVIDED IN THE PROJECT DOCUMENTS (SEE SPECIFICATION SECTION 00 10 20). THE CONTRACTOR SHALL NOT COLLECT ADDITIONAL SAMPLES OF ANY MATERIALS TO VERIFY ACM OR LBP CONTENT. ANY QUESTIONS WITH RESPECT TO THE SCOPE OR VERIFICATION SHALL BE OBTAINED BEFORE BIDDING.
14. THE CONTRACTOR SHALL NOT PERFORM ANY ABATEMENT OF ACM OR MITIGATION/STABILIZATION OF LBP WHERE OCCUPANTS ARE PRESENT. WHEN THE BUILDING IS TO BE OCCUPIED DURING CONSTRUCTION, THE CONTRACTOR SHALL PROVIDE APPROPRIATE SEPARATION BARRIERS BETWEEN THE WORK AREA AND THOSE AREAS TO REMAIN OCCUPIED TO ENSURE THE SAFETY OF THE BUILDING OCCUPANTS.
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Issuance		
Mark	Description	Date
	ISSUE FOR BID	11.15.2012
2	ADDENDUM	12.10.2012

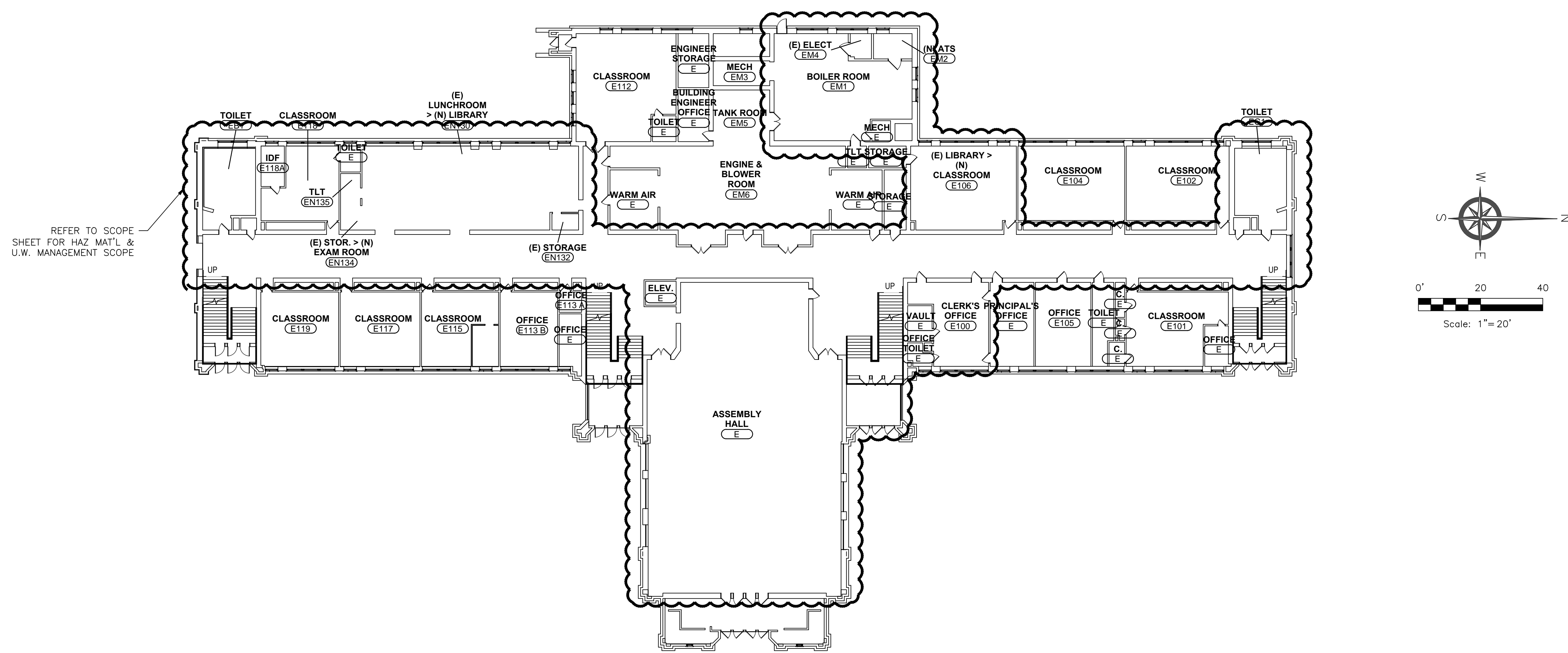
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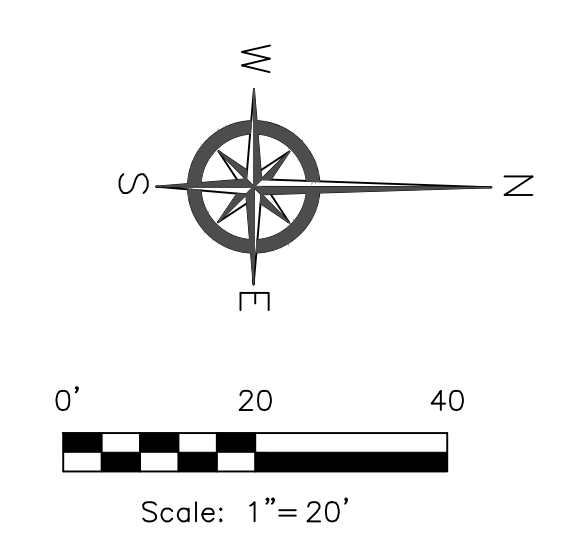
PBC Project Name: Alexander Graham Bell Elementary School Addition  
 PBC Contract No.: 05530

Title: **THIRD FLOOR LEAD BASED PAINT WORK AREA**  
 Sheet: **EDI.08**





REFER TO SCOPE SHEET FOR HAZ MAT'L & U.W. MANAGEMENT SCOPE



**LEGEND:**

- ROOM AREA W/ HAZ. MAT'L & U.W.
- ☁ DEMOLITION & RENOVATION AREA

**ABATEMENT NOTE:**

1. THE DRAWINGS SHOW REPRESENTATIVE AREAS WHERE HAZARDOUS MATERIALS AND UNIVERSAL WASTE COMPONENTS (HAZ MAT/UNIVERSAL WASTE) HAVE BEEN IDENTIFIED IN THE SCHOOL.
2. ALL HANDLING OF HAZARDOUS MATERIALS AND UNIVERSAL WASTE MUST BE CONDUCTED IN ACCORDANCE WITH SPECIFICATION SECTION 01 56 11 (GENERAL DUST, FUME, AND ODOR CONTROL).
3. HANDLING AND MANAGEMENT OF HAZARDOUS MATERIALS AND UNIVERSAL WASTE MUST BE DONE IN ACCORDANCE WITH SECTION 028613 AND ALL APPLICABLE FEDERAL, STATE AND LOCAL RULES AND REGULATIONS.
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7. SEE HAZARDOUS MATERIAL INVENTORY (APPENDIX A OF THE HAZARDOUS MATERIAL/UNIVERSAL WASTE SURVEY REPORT) FOR DETAILS OF MATERIALS THAT WERE IDENTIFIED.
8. SEE HAZARDOUS MATERIAL INVENTORY (APPENDIX B OF THE HAZARDOUS MATERIAL/UNIVERSAL WASTE SURVEY REPORT) FOR DETAILS OF MATERIALS TO BE MANAGED.
9. HAZ MAT/UNIVERSAL WASTE MANAGEMENT: ONLY MATERIALS THAT HAVE BEEN TAGGED FOR FUTURE USE DO NOT NEED TO BE MANAGED AS HAZ MAT/UNIVERSAL WASTE. TAGGED MATERIALS MUST BE RELOCATED BY GENERAL CONTRACTOR FROM AREAS WHERE RENOVATION AND/OR DEMOLITION ACTIVITIES ARE PLANNED. OTHER MATERIALS MUST BE MANAGED IN ACCORDANCE WITH ALL APPLICABLE FEDERAL, STATE AND LOCAL REGULATIONS.
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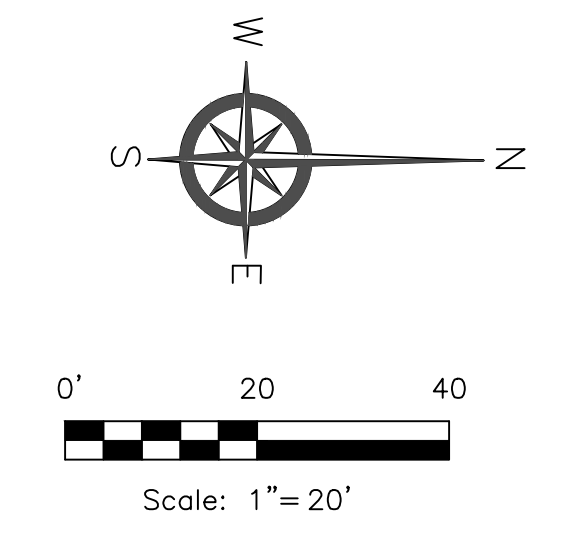
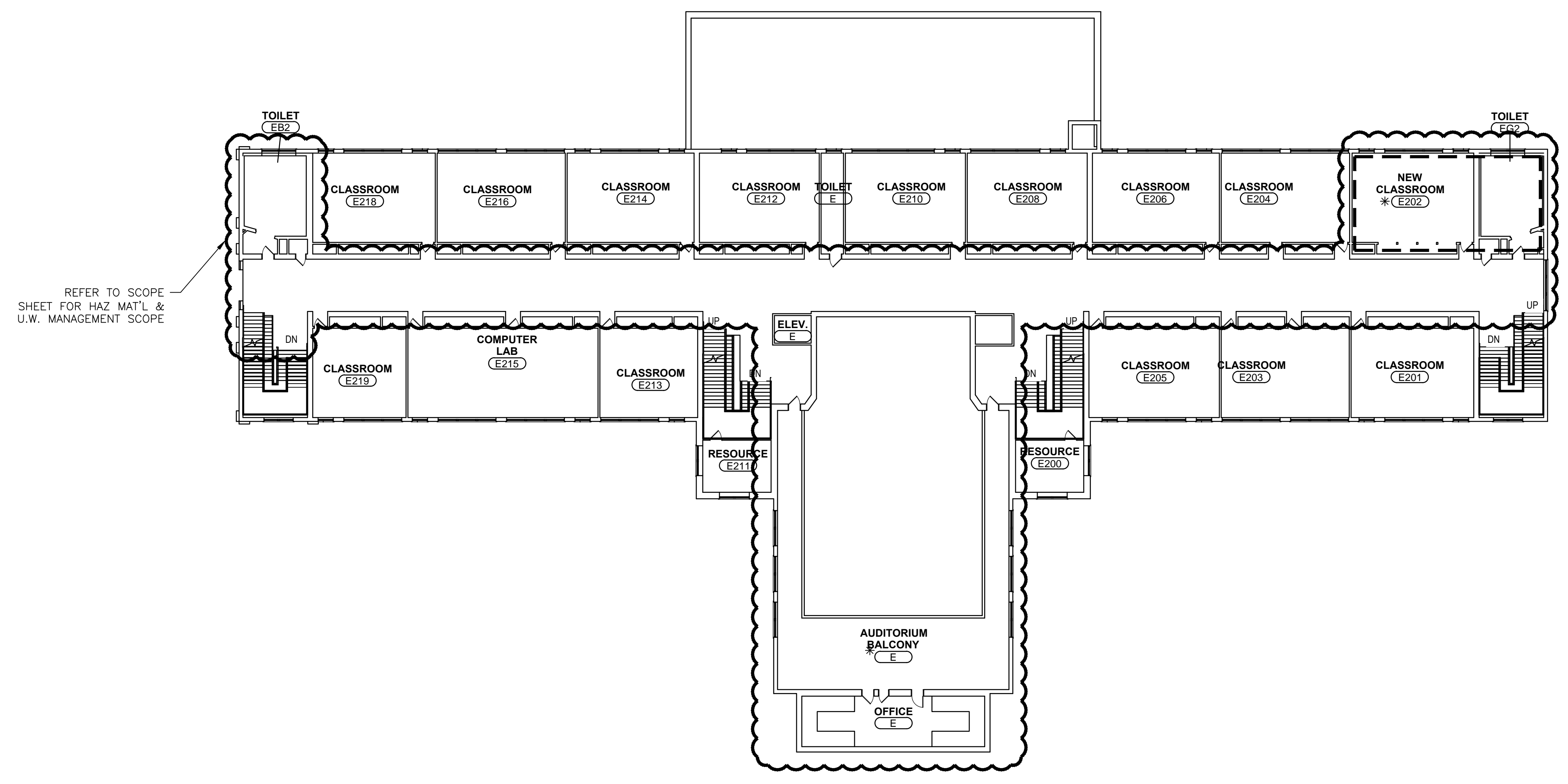
**EDI**  
 Environmental Design International, Inc.  
 Civil, Survey, Environmental and  
 Construction Inspection Services  
 33 W. MONROE STREET, SUITE 1825  
 CHICAGO, IL 60603  
 Ph. (312) 342-4800 Fax (312) 345-0592  
 WEB: EDI.COM

Issuance		
Mark	Description	Date
	ISSUE FOR BID	11.15.2012
2	ADDENDUM	12.10.2012

**WARNING:**  
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PBC Project Name: Alexander Graham Bell Elementary School Addition  
 PBC Contract No.: 06530



**ABATEMENT NOTE:**

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- HANDLING AND MANAGEMENT OF HAZARDOUS MATERIALS AND UNIVERSAL WASTE MUST BE DONE IN ACCORDANCE WITH SECTION 028613 AND ALL APPLICABLE FEDERAL, STATE AND LOCAL RULES AND REGULATIONS.
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- SEE HAZARDOUS MATERIAL INVENTORY (APPENDIX A OF THE HAZARDOUS MATERIAL/UNIVERSAL WASTE SURVEY REPORT) FOR DETAILS OF MATERIALS TO BE MANAGED.
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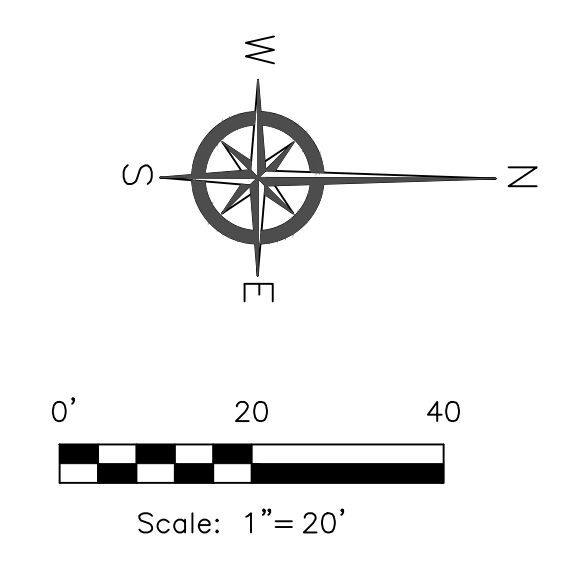
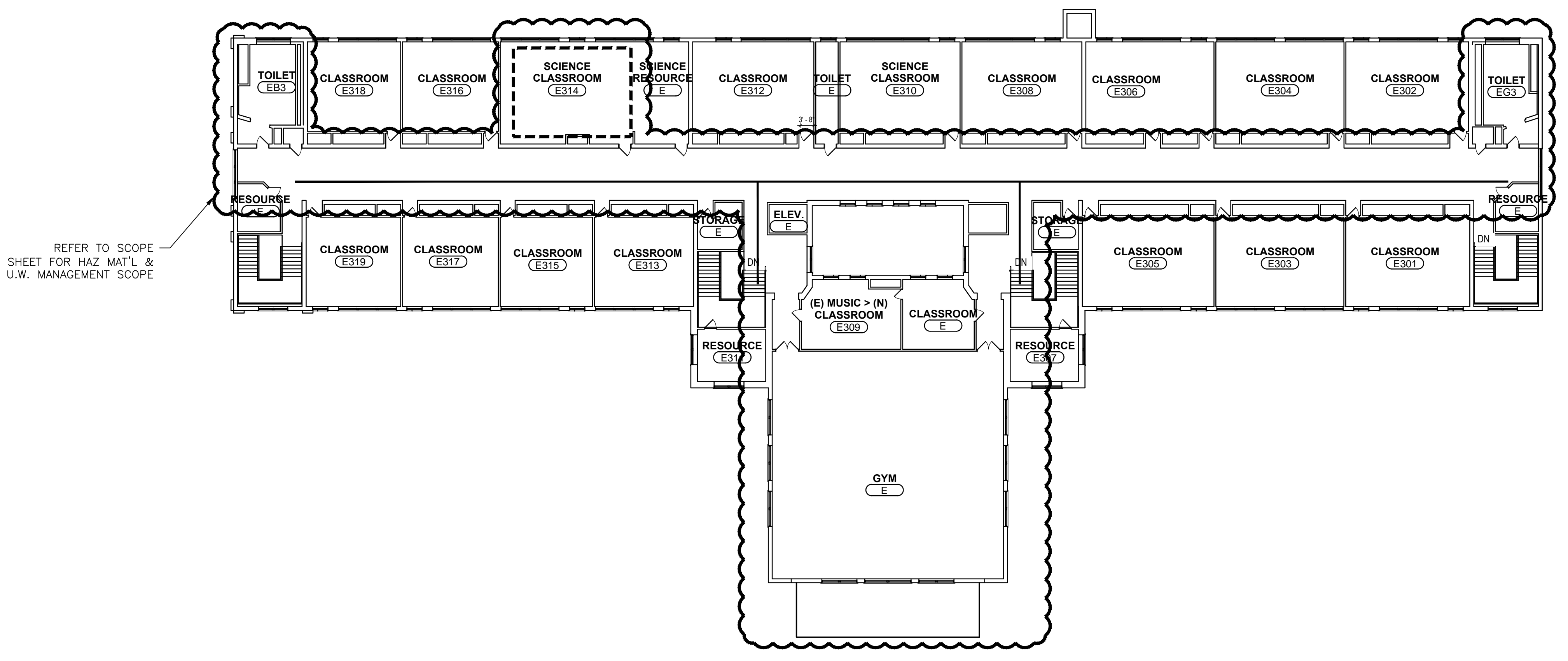
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PBC Project Name: Alexander Graham Bell Elementary School Addition  
 PBC Contract No.: 06530

Title  
**SECOND FLOOR  
 HAZARDOUS MATERIALS  
 WORK AREA**

PLOT DATE: 12/17/2012 4:27 PM PLOTTER: Bn-AMANDA\_JOHNSON L:\2012 Public Buildings Commission of Chicago\12012028 Bell School Addition\Bldg Survey\05 CAD\01\ED1002\12012028 HRC\_MWAVE\_PLC.dwg 12/17/2012 3:41 PM





**LEGEND:**

- - - - -	ROOM AREA W/ HAZ. MAT'L & U.W.
☁	DEMOLITION & RENOVATION AREA

- ABATEMENT NOTE:**
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Issuance

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PBC Project Name: Alexander Graham Bell Elementary School Addition  
 PBC Contract No.: 06530

PLOT DATE: 12/17/2012 4:27 PM, PLOTTED BY: AMANDA JOHNSON, L12917, Public Building Commission of Chicago\1301228 Mat School Hazardous Material Survey\05\_040\0618\ED11\121228\_R12.dwg, 4605, L12.dwg, 12/17/2012 4:43 PM