



Guzek Associates, Inc.

**Mechanical, Electrical, Structural,
Environmental, and Architectural Engineering**

**Phone: (570) 586-9700
Fax: (570) 586-6728
Email: guzekassoc@aol.com**

**401 DAVIS STREET
CLARKS SUMMIT, PA 18411-1837**

February 4, 2020

Mr. Paul Dougherty
Director of Operations
Scranton School District
425 North Washington Avenue
Scranton, PA 18503

Reference: Francis Willard Elementary School – **Air Quality Clearance Testing**

Dear Mr. Dougherty,

On January 31, 2020, Guzek Associates, Inc. (GAI) performed asbestos clearance air sampling. All samples were analyzed by EMSL using Transmission Electron Microscopy (TEM). GAI required the more expensive TEM analysis in this case due to the unknown extent of remedial activity performed during the asbestos stabilization procedures by Datom Products, Dunmore, Pa.

Sampling was conducted to verify that the school was suitable for occupancy and resumption of normal activities based on EPA's Asbestos Hazard Emergency response Act (AHERA) standards. The AHERA standard for Final Clearance of an area for occupancy and resumption of normal activities following an asbestos abatement project in that area is less than 70 structures (asbestos fibers) per square millimeter (S/mm²) when all samples in the regulated area are averaged together.

The asbestos repair procedure performed within this school building consisted of stabilization of localized areas on plastered wall and ceiling surfaces with a bridging encapsulant.

The school building was divided into three evaluation areas with the following number of samples collected from each area:

Basement – five samples collected in five randomly selected locations.

First floor – seven samples collected in seven randomly selected locations.

Second – eight samples collected in eight randomly selected locations.

At each sample location, Guzek Associates performed asbestos air sampling utilizing a high volume vacuum pump attached to TEM cassettes. Each pump at each sample location was calibrated immediately prior to and immediately following sample collection.

Aggressive sampling techniques were used for each regulated area: each regulated area was blown out with a standard leaf blower immediately prior to sampling in the area. This procedure was performed to agitate and render airborne any stagnant asbestos fibers lying on surfaces or trapped in crevasses, if present.

Samples were collected for approximately two (2) hours at an airflow rate of 10.0 liters per minute (lpm). All asbestos TEM samples were hand delivered to an accredited laboratory for analysis with a 6-hour turnaround time.

The TEM test report is attached to this report.

Report Summary:

No structures (asbestos fibers) were detected in 19 of the 20 air samples collected from this school building.

Sample WILL-09, collected from Classroom 111, had a structure concentration of 15 S/mm², which is below the AHERA clearance level of 70 S/mm² following an asbestos abatement project.

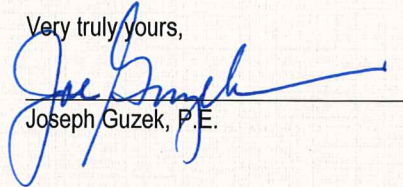
Based on these results, and according to AHERA regulations, all areas sampled in the Francis Willard Elementary school are considered to be safe for occupancy and resumption of normal activities.

Analytical Methodologies:

All TEM air samples were collected and analyzed in accordance with all AHERA requirements. TEM analyses were performed by EMSL Analytical, Inc. located in Cinnaminson, NJ.

Should you have any questions on this report, please feel free to call me.

Very truly yours,

A handwritten signature in blue ink, appearing to read "Joe Guzek", is written over a horizontal line.

Joseph Guzek, P.E.

Attachments:

- Chain-of-Custodies (2 pages)
- TEM Results (2 pages)
- Sampling Location Map (1 page)

**EMSL Analytical, Inc.**

200 Route 130 North Cinnaminson, NJ 08077

Tel/Fax: (800) 220-3675 / (856) 786-5974

http://www.EMSL.com / cinnaslab@EMSL.com

EMSL Order: 042002742

Customer ID: CLAG50

Customer PO:

Project ID:

Attention: Joseph Guzek
 Guzek Associates, Inc.
 401 Davis Street
 Clarks Summit, PA 18411

Phone: (570) 586-9700**Fax:** (570) 586-6728**Received Date:** 02/01/2020 08:15 AM**Analysis Date:** 02/01/2020**Collected Date:** 01/31/2020**Project:** 55020-806 / Willard Elem.

**Test Report: Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by
 EPA 40 CFR Part 763 Appendix A to Subpart E**

Sample	Location	Volume (Liters)	Area Analyzed (mm ²)	Non Asb	Asbestos Type(s)	#Structures ≥0.5μ < 5μ	≥5μ	Analytical Sensitivity (S/cc)	Asbestos Concentration (S/mm ²)	(S/cc)
WILL-01 042002742-0001	2nd Floor, Room 210	1210.00	0.0660	0	None Detected	0	0	0.0048	<15.00	<0.0048
WILL-02 042002742-0002	2nd Floor, Hallway outside Girls Restroom	1210.00	0.0660	0	None Detected	0	0	0.0048	<15.00	<0.0048
WILL-03 042002742-0003	2nd Floor, Room 213	1244.00	0.0660	0	None Detected	0	0	0.0047	<15.00	<0.0047
WILL-04 042002742-0004	2nd Floor, Room 206	1200.00	0.0660	0	None Detected	0	0	0.0049	<15.00	<0.0049
WILL-05 042002742-0005	2nd Floor, Hallway outside Teacher's Room	1200.00	0.0660	0	None Detected	0	0	0.0049	<15.00	<0.0049
WILL-06 042002742-0006	2nd Floor, Hallway outside Boy's Restroom	1200.00	0.0660	0	None Detected	0	0	0.0049	<15.00	<0.0049
WILL-07 042002742-0007	2nd Floor, Room 204	1200.00	0.0660	0	None Detected	0	0	0.0049	<15.00	<0.0049
WILL-08 042002742-0008	2nd Floor, Room 201	1200.00	0.0660	0	None Detected	0	0	0.0049	<15.00	<0.0049
WILL-09 042002742-0009	1st Floor, Room 111	1370.00	0.0660	0	Chrysotile	1	0	0.0043	15.00	0.0043
WILL-10 042002742-0010	1st Floor, Room 112	1350.00	0.0660	0	None Detected	0	0	0.0043	<15.00	<0.0043
WILL-11 042002742-0011	1st Floor, Hallway outside Girls Restroom	1290.00	0.0660	0	None Detected	0	0	0.0045	<15.00	<0.0045
WILL-12 042002742-0012	1st Floor, Hallway outside Library	1449.00	0.0660	0	None Detected	0	0	0.0040	<15.00	<0.0040
WILL-13 042002742-0013	1st Floor, Room 103	1331.00	0.0660	0	None Detected	0	0	0.0044	<15.00	<0.0044
WILL-14 042002742-0014	1st Floor, Hallway outside Boy's Restroom	1210.00	0.0660	0	None Detected	0	0	0.0048	<15.00	<0.0048
WILL-15 042002742-0015	1st Floor, Room 102	1210.00	0.0660	0	None Detected	0	0	0.0048	<15.00	<0.0048
WILL-16 042002742-0016	Basement, Multi-purpose Room	1301.50	0.0660	0	None Detected	0	0	0.0045	<15.00	<0.0045
WILL-17 042002742-0017	Basement, Multi-purpose Room	1210.00	0.0660	0	None Detected	0	0	0.0048	<15.00	<0.0048
WILL-18 042002742-0018	Basement, 4yr Old Preschool	1233.00	0.0660	0	None Detected	0	0	0.0047	<15.00	<0.0047

Initial report from: 02/01/2020 13:52 PM

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Page 1 of 2

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Fax: (570) 586-6728
Received Date: 02/01/2020 08:15 AM
Analysis Date: 02/01/2020
Collected Date: 01/31/2020

Project: 55020-806 / Willard Elem.

**Test Report: Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by
EPA 40 CFR Part 763 Appendix A to Subpart E**

Sample	Location	Volume (Liters)	Area Analyzed (mm ²)	Non Asb	Asbestos Type(s)	#Structures		Analytical Sensitivity (S/cc)	Asbestos Concentration	
						≥0.5μ	< 5μ		(S/mm ²)	(S/cc)
WILL-19	Basement, 3yr Old Preschool	1216.00	0.0660	0	None Detected	0	0	0.0048	<15.00	<0.0048
042002742-0019										
WILL-20	Basement, outside Boy's Restroom	1210.00	0.0660	0	None Detected	0	0	0.0048	<15.00	<0.0048
042002742-0020										

Analyst(s)

Sarah Richey (20)

Samantha Rundstrom, Laboratory Manager
or other approved signatory

EMSL maintains liability limited to cost of analysis. This report relates only to the samples reported above and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. Interpretation and use of test results are the responsibility of the client. This report must not be used to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the federal government. EMSL is not responsible for data reported in structures/cc, which is dependent on volume collected by non-laboratory personnel. Samples received in good condition unless otherwise noted. The test results meet the requirements of NELAC unless otherwise noted. Estimated accuracy, precision and uncertainty data available upon request.

Samples analyzed by EMSL Analytical, Inc. Cinnaminson, NJ NVLAP Lab Code 101048-0, AIHA-LAP, LLC-IHLAP Lab 100194, NYS ELAP 10872, NJ DEP 03036, PA ID# 68-00367, LA #04127

Initial report from: 02/01/2020 13:52 PM



Asbestos Chain of Custody

EMSL Order Number (Lab Use Only):

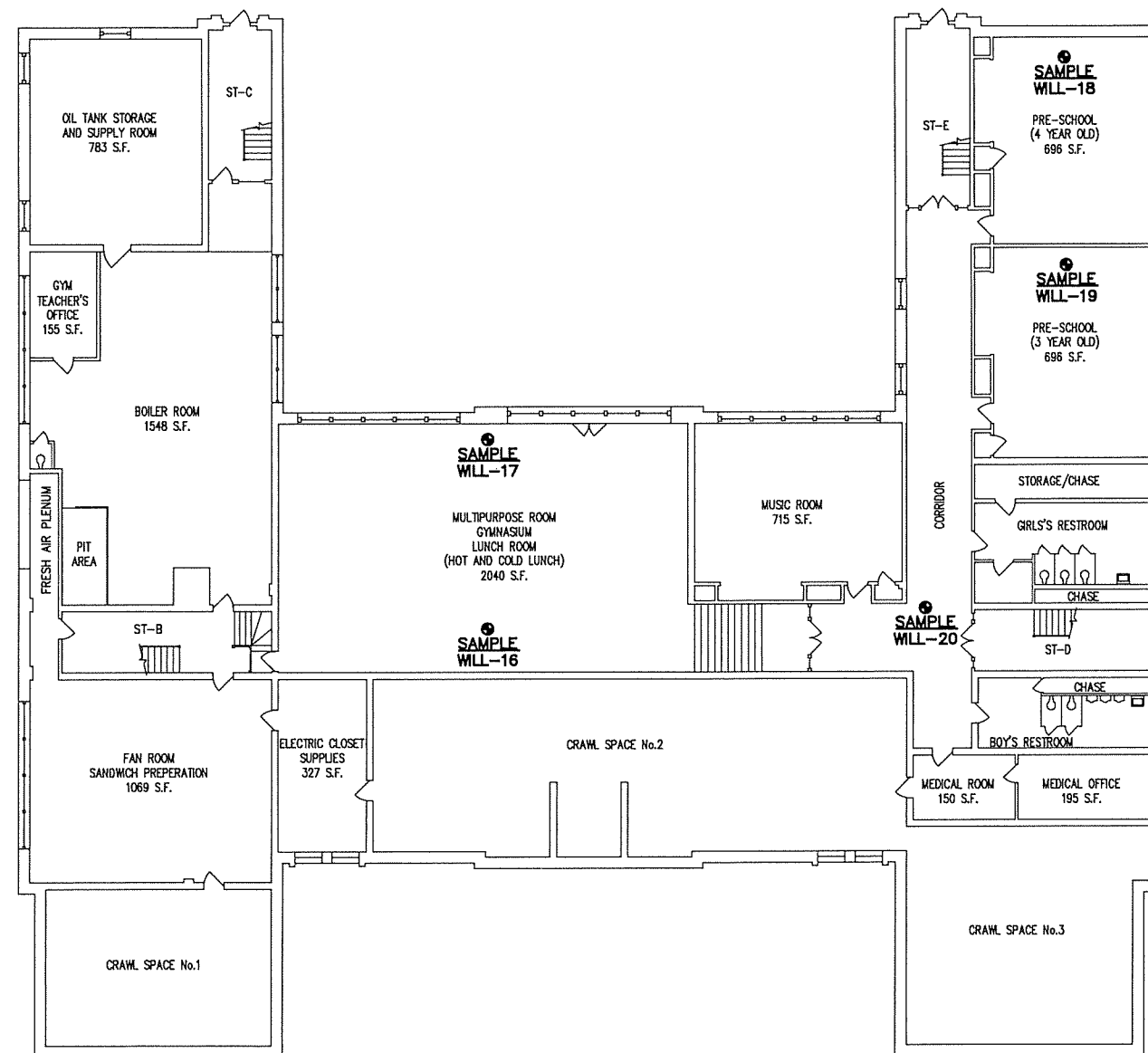
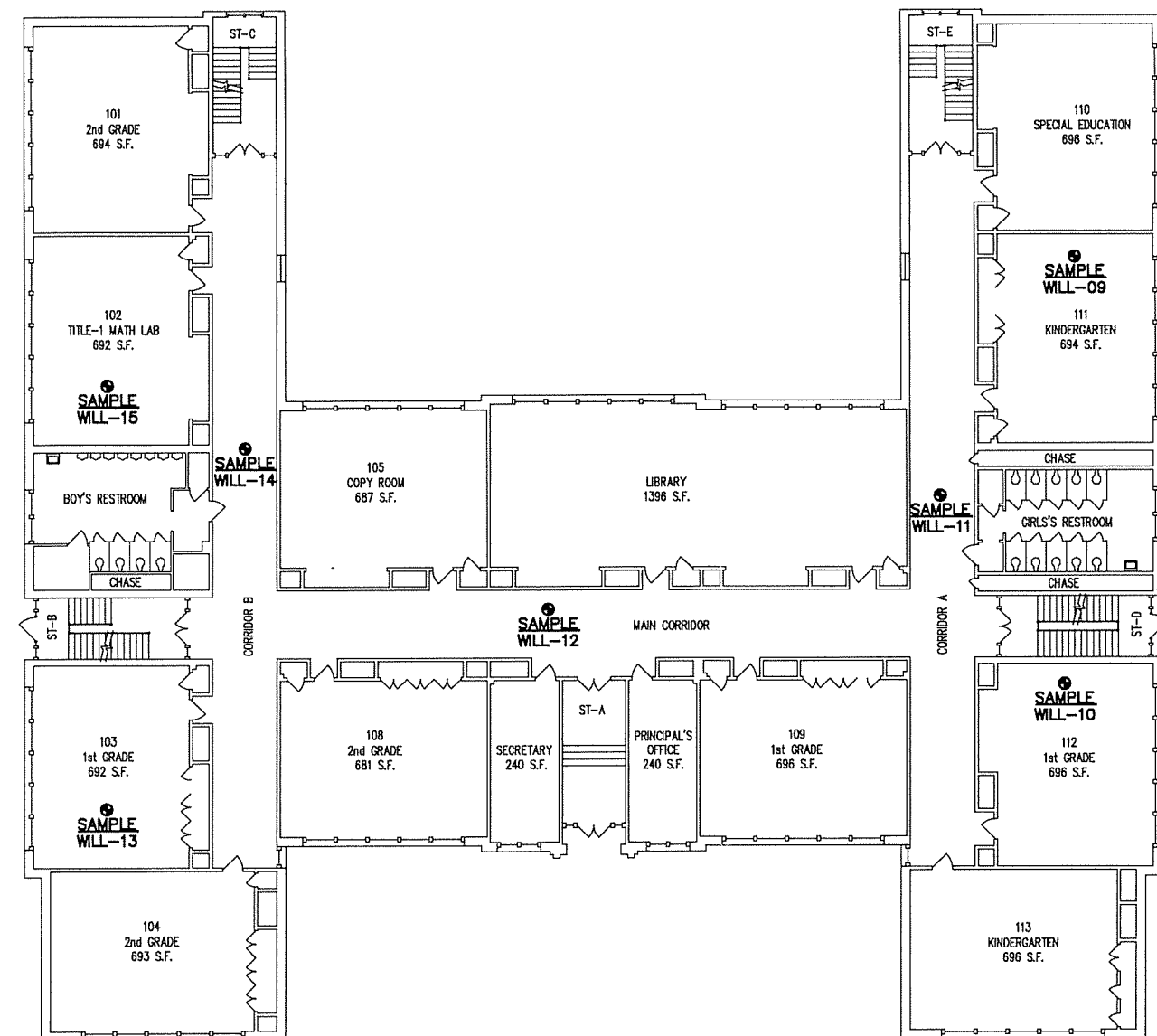
042002742

Cinnaminson, NJ 08077

PHONE: 1-800-220-3675

FAX: (856) 786-5974

Company Name : Guzek Associates, Inc		EMSL Customer ID:	
Street: 401 Davis Street		City: Clarks Summit	State/Province: PA
Zip/Postal Code: 18411	Country: US	Telephone #: 5705869700	Fax #: 570-586-6728
Report To (Name): Joseph Guzek		Please Provide Results: ☐ Fax ☒ Email	
Email Address: guzekassoc@aol.com		Purchase Order:	
Project Name/Number: <u>SSD20-806 Willard Elem.</u>		EMSL Project ID (Internal Use Only):	
U.S. State Samples Taken: PA		CT Samples: ☐ Commercial/Taxable ☐ Residential/Tax Exempt	
EMSL-Bill to: ☐ Same ☐ Different - If Bill to is Different note instructions in Comments** Third Party Billing requires written authorization from third party			
Turnaround Time (TAT) Options* - Please Check			
☐ 3 Hour ☒ 6 Hour ☐ 24 Hour ☐ 48 Hour ☐ 72 Hour ☐ 96 Hour ☐ 1 Week ☐ 2 Week			
*For TEM Air 3 hr through 6 hr, please call ahead to schedule. *There is a premium charge for 3 Hour TEM AHERA or EPA Level II TAT. You will be asked to sign an authorization form for this service. Analysis completed in accordance with EMSL's Terms and Conditions located in the Analytical Price Guide.			
PCM - Air ☐ Check if samples are from NY ☐ NIOSH 7400 ☐ w/ OSHA 8hr. TWA PLM - Bulk (reporting limit) ☐ PLM EPA 600/R-93/116 (<1%) ☐ PLM EPA NOB (<1%) Point Count ☐ 400 (<0.25%) ☐ 1000 (<0.1%) Point Count w/Gravimetric ☐ 400 (<0.25%) ☐ 1000 (<0.1%) ☐ NYS 198.1 (friable in NY) ☐ NYS 198.6 NOB (non-friable-NY) ☐ NYS 198.8 SOF-V ☐ NIOSH 9002 (<1%)		TEM - Air ☐ 4-4.5hr TAT (AHERA only) ☒ AHERA 40 CFR, Part ☐ 763 NIOSH 7402 ☐ EPA Level II ☐ ISO 10312 TEM - Bulk ☐ TEM EPA NOB ☐ NYS NOB 198.4 (non-friable-NY) ☐ Chatfield SOP ☐ TEM Mass Analysis-EPA 600 sec. 2.5 TEM - Water: EPA 100.2 Fibers >10µm ☐ Waste ☐ Drinking All Fiber Sizes ☐ Waste ☐ Drinking	
		TEM - Dust ☐ Microvac - ASTM D 5755 ☐ Wipe - ASTM D6480 ☐ Carpet Sonication (EPA 600/J-93/167) Soil/Rock/Vermiculite ☐ PLM EPA 600/R-93/116 with milling prep (<1%) ☐ PLM EPA 600/R-93/116 with milling prep (<0.25%) ☐ TEM EPA 600/R-93/116 with milling prep (<0.1%) ☐ TEM Qualitative via Filtration Prep ☐ TEM Qualitative via Drop Mount Prep ☐ Cincinnati Method EPA 600/R-04/004 - PLM/TEM (BC only) Other: ☐	
☐ Check For Positive Stop - Clearly Identify Homogenous Group		Filter Pore Size (Air Samples): ☐ 0.8µm ☐ 0.45µm	
Samplers Name: <u>Chris Notari, MAMMATEL, Tripp</u>		Samplers Signature: <u>[Signature]</u>	
Sample #	Sample Description	Volume/Area (Air) HA # (Bulk)	Date/Time Sampled
Will-01	2nd Floor Room 210,	1,210	1/31/20 5:05
Will-02	2nd Floor, Hallway outside Girls Restroom	1,210	5:06
Will-03	2nd Floor, Room 213	1,244	5:07
Will-04	2nd Floor, Room 206	1,200	5:12
Will-05	2nd Floor, Hallway outside Teacher's Room	1,200	5:10
Client Sample # (s): <u>20</u>		Total # of Samples: <u>20</u>	
Relinquished (Client): <u>[Signature]</u>		Date: <u>2/1/20</u>	Time: <u>8:08 AM</u>
Received (Lab): <u>KD WOI</u>		Date: <u>2-1-2020</u>	Time: <u>8:15 AM</u>
Comments/Special Instructions:			



CLEARANCE SAMPLING AREAS

Sheet Size: 36" x 24"

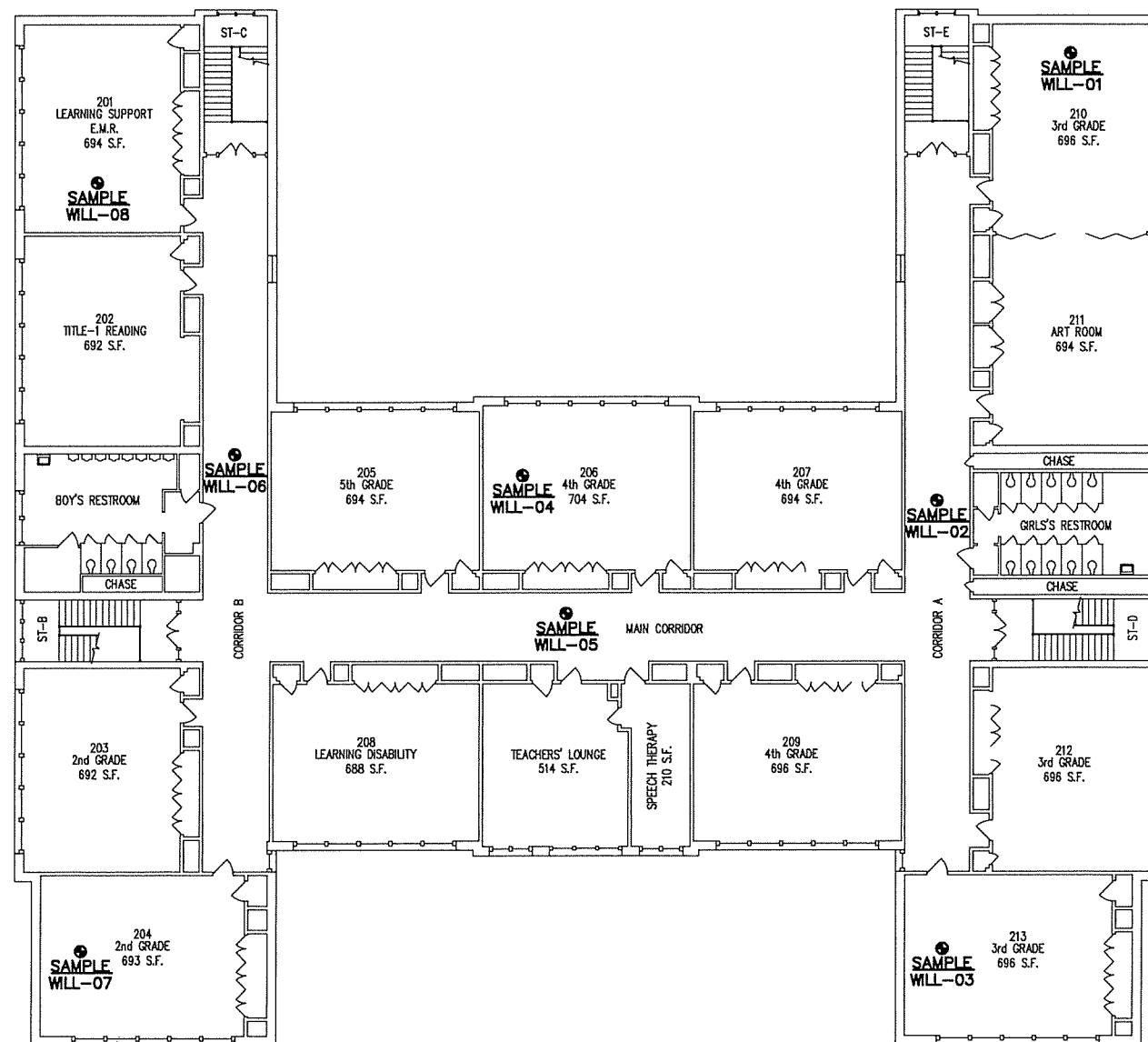
Scranton School District
Scranton School District
425 North Washington Avenue
Scranton, PA 18505

DRAWING No.:
SK
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	CHECKED BY:	DATE:
DRAWN BY:	JOB No.:	SCALE:
BMT	CN	SSD 20_705
01/31/2020	AS NOTED	01/31/2020

SCHOOL FLOOR PLANS: 1-31-2020



CLEARANCE SAMPLING AREAS

Sheet Size: 36"x24"

SCHOOL FLOOR PLANS: 1-31-2020

Scranton School District
Scranton School District
425 North Washington Avenue
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DRAWING No.:
SK
2

[illegible]



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CN

AS NOTED

DATE: 01/31/2020

DWG. TITLE F:

MECHANICAL, ELECTRICAL, STRUCTURAL, ENVIRONMENTAL, AND ARCHITECTURAL ENGINEERING