



November 10, 2025

Mr. Jason Bing, RA, LEED AP
Director, Capital Programs
Ann Arbor Public Schools
2555 South State Street
Ann Arbor, MI 48104
BingJ@aaps.k12.mi.us

RE: AEG Project #AE250988
Radon Sampling Services
Ann Arbor Public Schools, Dicken Elementary School

Dear Mr. Bing:

Pursuant to the request of Ann Arbor Public Schools, Arch Environmental Group, Inc. (AEG) placed short-term radon detectors throughout frequently occupied locations at ground level or lower throughout Dicken Elementary School. The detectors were placed in the facility on November 3, 2025 and were retrieved on November 5, 2025. Samples were analyzed by Air Chek, Inc. located in Mills River, North Carolina.

I. Introduction

The U.S. Environmental Protection Agency (EPA) and other major national and international scientific organizations have concluded that radon is a human carcinogen and a serious environmental health problem. Radon is a naturally occurring radioactive gas. It comes from the natural breakdown (decay) of uranium which is found in soil and rock all over the United States. Radon travels through soil and enters buildings through cracks and other holes in the foundation. Eventually it decays into radioactive particles (decay products) that can become trapped in your lungs when you breathe. As these particles in turn decay, they release small bursts of radiation. The radiation can damage lung tissue and lead to lung cancer over the course of your lifetime. Radon is colorless, odorless, and tasteless. The only way to know whether or not elevated levels of radon are present in a location is to test.

There are two ways to test for radon:

1. A **short-term test** is the quickest test for radon. In this test the device remains in the room for a period of **2 to 90 days** depending on the device.
2. A **long-term test** remains in place for more than 90 days.

The EPA recommends that action should be taken when radon levels are found to be 4pCi/L (Pico Curies per Liter of air) or higher.

II. Sampling Analysis & Strategies

In an effort to determine the radon levels throughout frequently occupied areas at ground level or lower, Arch Environmental Group, Inc. deposited short-term, activated charcoal adsorption devices (AC) in forty-four locations in Dicken Elementary School.

Activated charcoal adsorption devices (ACs) are a passive detector system for the measurement of radon concentrations in the air. Once the detector is opened, radon gas diffuses passively onto the activated charcoal and radon concentration is determined. ACs are passive devices. The charcoal within these devices has been treated to increase its ability to adsorb gases. The passive nature of the activated charcoal allows continual adsorption and desorption of radon. During the entire measurement period (typically two to seven days), the adsorbed radon undergoes radioactive decay. AEG deposited the AC detectors on November 3, 2025. The detectors were placed between knee and shoulder height on a flat or hanging surface. Additionally, the detectors were placed at least 1 foot from exterior walls, 3 feet from windows or doors, away from direct sunlight and away from heat vents. After a designated time, the samples were retrieved on November 5, 2025; the AC detectors were closed and collected for laboratory analysis. Duplicate samples and blank samples necessary for quality assurance purposes were also collected at the facility.

As the sample results shown in *Attachment A* indicate, all samples identified radon concentrations below the EPA recommended “action level” of 4.0 pCi/L with sample results ranging from <0.3 pCi/L to 1.8 pCi/L. Prudent practice recommends that areas where radon levels are potentially above the “action level” should be retested with a second short-term test to confirm the results of the initial test. A second test above the “action level” recommends either progressing to a long-term test of at least 90 days or taking corrective measures to reduce levels below the “action level”.

III. Conclusions

Pursuant to the request of Ann Arbor Public Schools, Arch Environmental Group, Inc. collected radon samples from frequently occupied areas throughout Dicken Elementary School. In accordance with the guidance document titled “Radon Measurements in Schools, Revised Edition (EPA 402-R-92-014, July 1993)” published by the U.S. Environmental Protection Agency, “...the EPA has conducted extensive research on the presence and measurement of radon in schools. Initial reports from some of those studies prompted the Administrator in 1989 to recommend that schools nationwide be tested for the presence of radon. Based on more recent findings, EPA continues to advise U.S. schools to test for radon and to reduce levels to below 4pCi/L.” Following some of the sampling recommendations offered by this guidance document, Arch Environmental Group, Inc.’s samples collected during this round were all determined to be below 4 pCi/L.

The EPA suggests that schools retest sometime in the future, especially after significant changes to the building structure or the HVAC system.

If you have any question regarding this information or work conducted by Arch Environmental Group, Inc., please feel free to contact me at (248) 426-0165 ext. “330” [office] or (248) 252-3618 [mobile].

Sincerely,

HealthAIR
A Division of arch environmental group



Philip E. Grosse
Project Consultant III



Attachment A
Official Laboratory Results

Radon test result report for:**AAPS
DICKEN ES**

Kit #	Room Id	Started	Ended	pCi/L	Analyzed
7540561	102	2025-11-03 @ 5:00 pm	2025-11-05 @ 5:00 pm	0.7 ± 0.3	2025-11-07
7540564	103	2025-11-03 @ 6:00 pm	2025-11-05 @ 6:00 pm	1.7 ± 0.3	2025-11-07
7540562	104	2025-11-03 @ 6:00 pm	2025-11-05 @ 6:00 pm	0.9 ± 0.3	2025-11-07
7540565	105	2025-11-03 @ 6:00 pm	2025-11-05 @ 6:00 pm	1.8 ± 0.3	2025-11-07
7540563	106	2025-11-03 @ 6:00 pm	2025-11-05 @ 6:00 pm	0.7 ± 0.3	2025-11-07
7540566	107	2025-11-03 @ 6:00 pm	2025-11-05 @ 6:00 pm	1.3 ± 0.3	2025-11-07
7540567	108	2025-11-03 @ 6:00 pm	2025-11-05 @ 6:00 pm	0.7 ± 0.3	2025-11-07
7540570	109	2025-11-03 @ 6:00 pm	2025-11-05 @ 6:00 pm	1.6 ± 0.3	2025-11-07
7540568	110	2025-11-03 @ 6:00 pm	2025-11-05 @ 6:00 pm	0.7 ± 0.3	2025-11-07
7540569	110 DUP	2025-11-03 @ 6:00 pm	2025-11-05 @ 6:00 pm	0.6 ± 0.3	2025-11-07
7540571	111	2025-11-03 @ 6:00 pm	2025-11-05 @ 6:00 pm	1.8 ± 0.3	2025-11-07
7540572	112	2025-11-03 @ 6:00 pm	2025-11-05 @ 6:00 pm	0.6 ± 0.3	2025-11-07
7540574	113	2025-11-03 @ 6:00 pm	2025-11-05 @ 6:00 pm	1.2 ± 0.3	2025-11-07
7540573	114	2025-11-03 @ 6:00 pm	2025-11-05 @ 6:00 pm	1.1 ± 0.3	2025-11-07
7540576	115 ART	2025-11-03 @ 6:00 pm	2025-11-05 @ 6:00 pm	< 0.3	2025-11-07
7540583	116	2025-11-03 @ 6:00 pm	2025-11-05 @ 6:00 pm	< 0.3	2025-11-07
7540577	117	2025-11-03 @ 6:00 pm	2025-11-05 @ 6:00 pm	< 0.3	2025-11-07
7540582	118	2025-11-03 @ 6:00 pm	2025-11-05 @ 6:00 pm	< 0.3	2025-11-07
7540578	119	2025-11-03 @ 6:00 pm	2025-11-05 @ 6:00 pm	< 0.3	2025-11-07
7540579	119 DUP	2025-11-03 @ 6:00 pm	2025-11-05 @ 6:00 pm	< 0.3	2025-11-07
7540581	120	2025-11-03 @ 6:00 pm	2025-11-05 @ 6:00 pm	< 0.3	2025-11-07
7540593	121	2025-11-03 @ 7:00 pm	2025-11-05 @ 7:00 pm	0.6 ± 0.3	2025-11-07
7540580	122	2025-11-03 @ 6:00 pm	2025-11-05 @ 6:00 pm	< 0.3	2025-11-07
7540587	126	2025-11-03 @ 6:00 pm	2025-11-05 @ 6:00 pm	< 0.3	2025-11-07
7540588	126A	2025-11-03 @ 6:00 pm	2025-11-05 @ 6:00 pm	< 0.3	2025-11-07
7540589	126A DUP	2025-11-03 @ 6:00 pm	2025-11-05 @ 6:00 pm	< 0.3	2025-11-07
7540584	127	2025-11-03 @ 6:00 pm	2025-11-05 @ 6:00 pm	< 0.3	2025-11-07
7540591	128	2025-11-03 @ 6:00 pm	2025-11-05 @ 6:00 pm	1.1 ± 0.3	2025-11-07
7540558	AV ROOM	2025-11-03 @ 5:00 pm	2025-11-05 @ 5:00 pm	0.6 ± 0.3	2025-11-07
7540559	AV ROOM DUP	2025-11-03 @ 5:00 pm	2025-11-05 @ 5:00 pm	0.9 ± 0.3	2025-11-07
7540599	BLANK 1	2025-11-03 @ 7:00 pm	2025-11-05 @ 7:00 pm	< 0.3	2025-11-07
7540693	BLANK 2	2025-11-03 @ 7:00 pm	2025-11-05 @ 7:00 pm	< 0.3	2025-11-07
7540694	BLANK 3	2025-11-03 @ 7:00 pm	2025-11-05 @ 7:00 pm	< 0.3	2025-11-07
7540586	BOILER	2025-11-03 @ 6:00 pm	2025-11-05 @ 6:00 pm	< 0.3	2025-11-07
7540551	CLINIC	2025-11-03 @ 5:00 pm	2025-11-05 @ 5:00 pm	0.6 ± 0.3	2025-11-07
7540585	CUST. OFF	2025-11-03 @ 6:00 pm	2025-11-05 @ 6:00 pm	0.7 ± 0.3	2025-11-07
7540575	CUST. SUPPLY	2025-11-03 @ 6:00 pm	2025-11-05 @ 6:00 pm	0.6 ± 0.3	2025-11-07

November 7, 2025

**** LABORATORY ANALYSIS REPORT ****

Radon test result report for:

**AAPS
DICKEN ES**

Kit #	Room Id	Started	Ended	pCi/L	Analyzed
7540597	GYM	2025-11-03 @ 7:00 pm	2025-11-05 @ 7:00 pm	< 0.3	2025-11-07
7540595	GYM OFF	2025-11-03 @ 7:00 pm	2025-11-05 @ 7:00 pm	0.9 ± 0.3	2025-11-07
7540596	GYM STO	2025-11-03 @ 7:00 pm	2025-11-05 @ 7:00 pm	0.8 ± 0.3	2025-11-07
7540590	KILN	2025-11-03 @ 6:00 pm	2025-11-05 @ 6:00 pm	0.6 ± 0.3	2025-11-07
7540594	KIT. OFF	2025-11-03 @ 7:00 pm	2025-11-05 @ 7:00 pm	0.9 ± 0.3	2025-11-07
7540550	MAIN OFF	2025-11-03 @ 5:00 pm	2025-11-05 @ 5:00 pm	0.7 ± 0.3	2025-11-07
7540598	MAIN OFF DUP	2025-11-03 @ 5:00 pm	2025-11-05 @ 5:00 pm	0.7 ± 0.3	2025-11-07
7540560	MC 101	2025-11-03 @ 5:00 pm	2025-11-05 @ 5:00 pm	1.0 ± 0.3	2025-11-07
7540557	MEDIA	2025-11-03 @ 5:00 pm	2025-11-05 @ 5:00 pm	0.9 ± 0.3	2025-11-07
7540592	MPR	2025-11-03 @ 7:00 pm	2025-11-05 @ 7:00 pm	0.6 ± 0.3	2025-11-07
7540556	OFF. BOOK	2025-11-03 @ 5:00 pm	2025-11-05 @ 5:00 pm	0.9 ± 0.3	2025-11-07
7540554	OFF. CONF	2025-11-03 @ 5:00 pm	2025-11-05 @ 5:00 pm	0.8 ± 0.3	2025-11-07
7540555	OFF. COPY	2025-11-03 @ 5:00 pm	2025-11-05 @ 5:00 pm	0.9 ± 0.3	2025-11-07
7540552	OFF. PHONE	2025-11-03 @ 5:00 pm	2025-11-05 @ 5:00 pm	0.7 ± 0.3	2025-11-07
7540553	PRINCIPAL	2025-11-03 @ 5:00 pm	2025-11-05 @ 5:00 pm	0.7 ± 0.3	2025-11-07

Air Chek 1936 Butler Bridge Rd, Mills River, NC 28759-3892 Phone: (828) 684-0893 Fax: (828) 684-8498

Kit Number	Start Date	Start Time	End Date	End Time	Temperature	Facility	Building	Room	Project ID
7540550	2025-11-01	5:00 pm	2025-11-01	5:00 pm	70	AAPS	DICKEN E	MAIN OFF	AE250988
7540551	2025-11-01	5:00 pm	2025-11-01	5:00 pm	70	AAPS	DICKEN E	CLINIC	AE250988
7540552	2025-11-01	5:00 pm	2025-11-01	5:00 pm	70	AAPS	DICKEN E	OFF. PHO	AE250988
7540553	2025-11-01	5:00 pm	2025-11-01	5:00 pm	70	AAPS	DICKEN E	PRINCIPA	AE250988
7540554	2025-11-01	5:00 pm	2025-11-01	5:00 pm	70	AAPS	DICKEN E	OFF. CON	AE250988
7540555	2025-11-01	5:00 pm	2025-11-01	5:00 pm	70	AAPS	DICKEN E	OFF. COP	AE250988
7540556	2025-11-01	5:00 pm	2025-11-01	5:00 pm	70	AAPS	DICKEN E	OFF. BOO	AE250988
7540557	2025-11-01	5:00 pm	2025-11-01	5:00 pm	70	AAPS	DICKEN E	MEDIA	AE250988
7540558	2025-11-01	5:00 pm	2025-11-01	5:00 pm	70	AAPS	DICKEN E	AV ROOM	AE250988
7540559	2025-11-01	5:00 pm	2025-11-01	5:00 pm	70	AAPS	DICKEN E	AV ROOM	AE250988
7540560	2025-11-01	5:00 pm	2025-11-01	5:00 pm	70	AAPS	DICKEN E	MC 101	AE250988
7540561	2025-11-01	5:00 pm	2025-11-01	5:00 pm	70	AAPS	DICKEN E	102	AE250988
7540562	2025-11-01	6:00 pm	2025-11-01	6:00 pm	70	AAPS	DICKEN E	104	AE250988
7540563	2025-11-01	6:00 pm	2025-11-01	6:00 pm	70	AAPS	DICKEN E	106	AE250988
7540564	2025-11-01	6:00 pm	2025-11-01	6:00 pm	70	AAPS	DICKEN E	103	AE250988
7540565	2025-11-01	6:00 pm	2025-11-01	6:00 pm	70	AAPS	DICKEN E	105	AE250988
7540566	2025-11-01	6:00 pm	2025-11-01	6:00 pm	70	AAPS	DICKEN E	107	AE250988
7540567	2025-11-01	6:00 pm	2025-11-01	6:00 pm	70	AAPS	DICKEN E	108	AE250988
7540568	2025-11-01	6:00 pm	2025-11-01	6:00 pm	70	AAPS	DICKEN E	110	AE250988
7540569	2025-11-01	6:00 pm	2025-11-01	6:00 pm	70	AAPS	DICKEN E	110 DUP	AE250988
7540570	2025-11-01	6:00 pm	2025-11-01	6:00 pm	70	AAPS	DICKEN E	109	AE250988
7540571	2025-11-01	6:00 pm	2025-11-01	6:00 pm	70	AAPS	DICKEN E	111	AE250988
7540572	2025-11-01	6:00 pm	2025-11-01	6:00 pm	70	AAPS	DICKEN E	112	AE250988
7540573	2025-11-01	6:00 pm	2025-11-01	6:00 pm	70	AAPS	DICKEN E	114	AE250988
7540574	2025-11-01	6:00 pm	2025-11-01	6:00 pm	70	AAPS	DICKEN E	113	AE250988
7540575	2025-11-01	6:00 pm	2025-11-01	6:00 pm	70	AAPS	DICKEN E	CUST. SU	AE250988
7540576	2025-11-01	6:00 pm	2025-11-01	6:00 pm	70	AAPS	DICKEN E	115 ART	AE250988
7540577	2025-11-01	6:00 pm	2025-11-01	6:00 pm	70	AAPS	DICKEN E	117	AE250988
7540578	2025-11-01	6:00 pm	2025-11-01	6:00 pm	70	AAPS	DICKEN E	119	AE250988
7540579	2025-11-01	6:00 pm	2025-11-01	6:00 pm	70	AAPS	DICKEN E	119 DUP	AE250988
7540580	2025-11-01	6:00 pm	2025-11-01	6:00 pm	70	AAPS	DICKEN E	122	AE250988
7540581	2025-11-01	6:00 pm	2025-11-01	6:00 pm	70	AAPS	DICKEN E	120	AE250988
7540582	2025-11-01	6:00 pm	2025-11-01	6:00 pm	70	AAPS	DICKEN E	118	AE250988
7540583	2025-11-01	6:00 pm	2025-11-01	6:00 pm	70	AAPS	DICKEN E	116	AE250988
7540584	2025-11-01	6:00 pm	2025-11-01	6:00 pm	70	AAPS	DICKEN E	127	AE250988
7540585	2025-11-01	6:00 pm	2025-11-01	6:00 pm	70	AAPS	DICKEN E	CUST. OF	AE250988
7540586	2025-11-01	6:00 pm	2025-11-01	6:00 pm	70	AAPS	DICKEN E	BOILER	AE250988
7540587	2025-11-01	6:00 pm	2025-11-01	6:00 pm	70	AAPS	DICKEN E	126	AE250988
7540588	2025-11-01	6:00 pm	2025-11-01	6:00 pm	70	AAPS	DICKEN E	126A	AE250988
7540589	2025-11-01	6:00 pm	2025-11-01	6:00 pm	70	AAPS	DICKEN E	126A DUP	AE250988
7540590	2025-11-01	6:00 pm	2025-11-01	6:00 pm	70	AAPS	DICKEN E	KILN	AE250988
7540591	2025-11-01	6:00 pm	2025-11-01	6:00 pm	70	AAPS	DICKEN E	128	AE250988
7540592	2025-11-01	7:00 pm	2025-11-01	7:00 pm	70	AAPS	DICKEN E	MPR	AE250988
7540593	2025-11-01	7:00 pm	2025-11-01	7:00 pm	70	AAPS	DICKEN E	121	AE250988
7540594	2025-11-01	7:00 pm	2025-11-01	7:00 pm	70	AAPS	DICKEN E	KIT. OFF	AE250988
7540595	2025-11-01	7:00 pm	2025-11-01	7:00 pm	70	AAPS	DICKEN E	GYM OFF	AE250988
7540596	2025-11-01	7:00 pm	2025-11-01	7:00 pm	70	AAPS	DICKEN E	GYM STO	AE250988
7540597	2025-11-01	7:00 pm	2025-11-01	7:00 pm	70	AAPS	DICKEN E	GYM	AE250988
7540598	2025-11-01	5:00 pm	2025-11-01	5:00 pm	70	AAPS	DICKEN E	MAIN OFF	AE250988
7540599	2025-11-01	7:00 pm	2025-11-01	7:00 pm	70	AAPS	DICKEN E	BLANK 1	AE250988
7540600	2025-11-01	2:00 pm	2025-11-01	12:00 pm	70	GCPS	DOUGLAS	PSYCH	AE250991

7540601	2025-11-0	2:00 pm	2025-11-0	12:00 pm	70	GCPS	DOUGLAS	PSYCH D	AE250991
7540602	2025-11-0	2:00 pm	2025-11-0	12:00 pm	70	GCPS	DOUGLAS	BLANK 1	AE250991
7540693	2025-11-0	7:00 pm	2025-11-0	7:00 pm	70	AAPS	DICKEN E	BLANK 2	AE250988
7540694	2025-11-0	7:00 pm	2025-11-0	7:00 pm	70	AAPS	DICKEN E	BLANK 3	AE250988
7540695	2025-11-0	9:00 am	2025-11-0	12:00 pm	70	GCPS	DOUGLAS	STAFF	AE250991
7540696	2025-11-0	9:00 am	2025-11-0	12:00 pm	70	AAPS	DOUGLAS	SPEECH	AE250991

Floor	Result	Variance	Analysis N	Analysis D	%Moisture	Street	City	State	ZIP
1	0.7	0.3		2025-11-0	1.3				
1	0.6	0.3		2025-11-0	2.1				
1	0.7	0.3		2025-11-0	2.1				
1	0.7	0.3		2025-11-0	1.2				
1	0.8	0.3		2025-11-0	2.9				
1	0.9	0.3		2025-11-0	0.4				
1	0.9	0.3		2025-11-0	1.2				
1	0.9	0.3		2025-11-0	2				
1	0.6	0.3		2025-11-0	2.1				
1	0.9	0.3		2025-11-0	0.4				
1	1	0.3		2025-11-0	1.2				
1	0.7	0.3		2025-11-0	2				
1	0.9	0.3		2025-11-0	2.1				
1	0.7	0.3		2025-11-0	0				
1	1.7	0.3		2025-11-0	2.1				
1	1.8	0.3		2025-11-0	2				
1	1.3	0.3		2025-11-0	1.2				
1	0.7	0.3		2025-11-0	2				
1	0.7	0.3		2025-11-0	2				
1	0.6	0.3		2025-11-0	2.1				
1	1.6	0.3		2025-11-0	2.1				
1	1.8	0.3		2025-11-0	1.2				
1	0.6	0.3		2025-11-0	2				
1	1.1	0.3		2025-11-0	2.1				
1	1.2	0.3		2025-11-0	1.2				
1	0.6	0.3		2025-11-0	2.1				
1	< 0.3	0.3		2025-11-0	2.1				
1	< 0.3	0.3		2025-11-0	2.8				
1	< 0.3	0.3		2025-11-0	1.2				
1	< 0.3	0.3		2025-11-0	2				
1	< 0.3	0.3		2025-11-0	2.1				
1	< 0.3	0.3		2025-11-0	1.2				
1	< 0.3	0.3		2025-11-0	2.8				
1	< 0.3	0.3		2025-11-0	2.1				
1	< 0.3	0.3		2025-11-0	1.2				
1	0.7	0.3		2025-11-0	2				
1	< 0.3	0.3		2025-11-0	1.2				
1	< 0.3	0.3		2025-11-0	2.1				
1	< 0.3	0.3		2025-11-0	2				
1	< 0.3	0.3		2025-11-0	2				
1	0.6	0.3		2025-11-0	1.3				
1	1.1	0.3		2025-11-0	2				
1	0.6	0.3		2025-11-0	1.2				
1	0.6	0.3		2025-11-0	2				
1	0.9	0.3		2025-11-0	2				
1	0.9	0.3		2025-11-0	1.2				
1	0.8	0.3		2025-11-0	2				
1	< 0.3	0.3		2025-11-0	1.2				
1	0.7	0.3		2025-11-0	1.2				
3	< 0.3	0.3		2025-11-0	1.2				
1	0.8	0.3		2025-11-0	2.9				

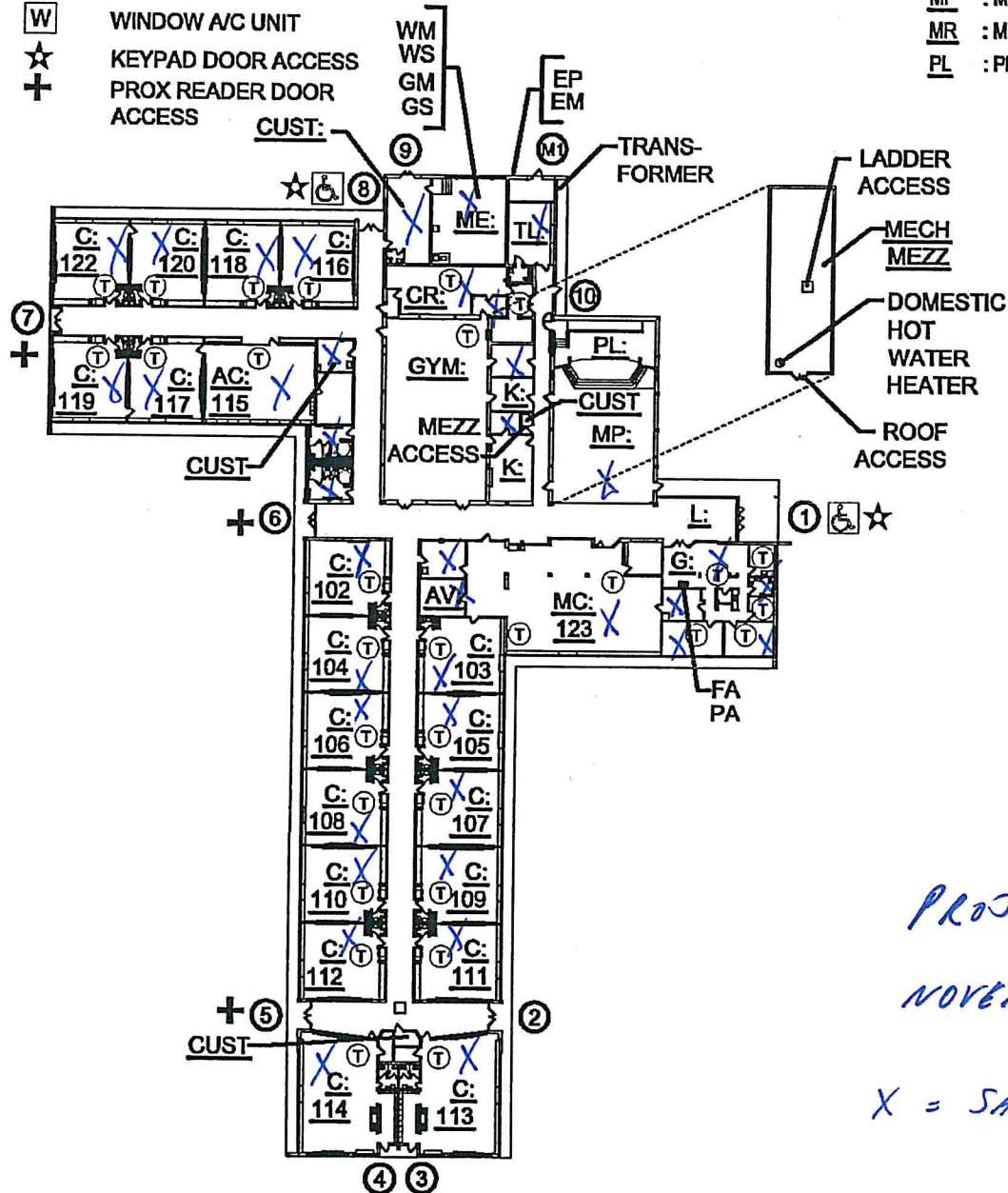
1	0.9	0.3		2025-11-01	2				
3	< 0.3	0.3		2025-11-01	1.2				
3	< 0.3	0.3		2025-11-01	1.2				
3	< 0.3	0.3		2025-11-01	1.3				
1	0.6	0.3		2025-11-01	2.1				
1	0.9	0.3		2025-11-01	2.1				



Attachment B
Sample Location Maps

PA: PUBLIC ADDRESS SYSTEM
 FA: FIRE ALARM CONTROL PANEL
 EP: MAIN ELECTRIC PANEL
 EM: ELECTRIC METER
 GM: GAS METER
 GS: GAS SHUT-OFF
 WM: WATER METER
 WS: WATER SHUT-OFF
 ⑥: SECURITY DOOR
 (NUMBERS VARY)
 ♿: BARRIER-FREE ENTRANCE
 T: THERMOSTAT
 W: WINDOW A/C UNIT
 ★: KEYPAD DOOR ACCESS
 +: PROX READER DOOR ACCESS

AC : ART CLASSROOM
 AV : AUDIOVISUAL
 C : CLASSROOM
 CR : COMPUTER ROOM
 G : GENERAL OFFICE
 GYM : GYMNASIUM
 K : KITCHEN
 L : LOBBY
 MC : MEDIA CENTER
 MP : MULTIPURPOSE ROOM
 MR : MUSIC ROOM
 PL : PLATFORM



PROJECT # A6250988

NOVEMBER 3-5, 2025

X = SAMPLE LOCATION

FIRST FLOOR PLAN CONTRACTOR EDITION

Dicken Elementary School

Ann Arbor Public Schools

Mitchell and Mouat Architects

0 64
SCALE: FEET

FEBRUARY 2013