KSingh | Engineers Scientists Consultants

August 23, 2023

Ms. Jennifer Meyer
Remediation and Redevelopment Program
Wisconsin Department of Natural Resources
1027 West St. Paul Ave.
Milwaukee, WI 53233

Project # 40443A

Subject: **Second Round of Commissioning for Community Within the Corridor – West Block – Buildings 4 and 5**
3212 W. Center St., 2727 N. 32nd St., and 2758 N. 33rd St., Milwaukee, WI 53210
BRRTS #: 02-41-587376, FID #: 341333190

Dear Ms. Meyer:

On behalf of the Community Within the Corridor Limited Partnership, K. Singh & Associates, Inc. (KSingh) is pleased to submit the results of second round of Commissioning of the Vapor Mitigation System for Buildings 4 and 5 for the Community Within the Corridor – West Block project. The first round of Commissioning for Buildings 4 and 5 was performed in January / February 2023.

Commissioning was performed in accordance with the Commissioning Plan that was approved by WDNR on May 23, 2022. This was intended to be performed concurrent with the Fifth Round of Commissioning of Buildings 6, 7, 8A and 8B but it was discovered that the exhaust vents on Building 5 were too close to air intakes and dryer vents for the laundromat in Building 5 that were installed after Commissioning Round 1 and prior to Commissioning Round 2. Commissioning Round 2 was delayed while the exhaust vents were relocated atop Building 5. The relocated exhaust vents are shown in Attachment A.

Sub-slab Depressurization System Vacuum Measurements

The sub-slab depressurization system installed in Buildings 4 and 5 was tested on 07/19/2023 and 07/20/2023. A handheld hammer drill was used to install vapor pins beneath the slab of the structure. A digital manometer was utilized to take measurements of vacuum below the slab after the vapor points passed a water dam test. Seventeen locations, which are identified as SVP-17 to SVP-33, were chosen to take measurements to get an accurate model of sub-slab depressurization from each suction point.

In accordance with a vapor mitigation system commissioning plan submitted by KSingh on April 21, 2022, a reading of -0.004 inches water was utilized to determine whether the system was adequately operating. Recorded measurements range from -0.008 to -0.506 inches of water, all of which are greater than the required vacuum.

The locations and results of July 2023 sub-slab depressurization measurements are depicted in Figure 1 and summarized in Table 1. The greatest vacuum measurement was observed in the southeastern portion of building 5. The vapor pins near 32nd street (SVP – 23 and SVP – 26) demonstrated the least vacuum readings. All the readings were significantly higher than the readings from the 1st Round of

Commissioning. Based on the buildings extents and the measured vacuum readings, the sub-slab depressurization system has met its depressurization requirements to date.

Sub-slab TCE Measurements

The vapor pins installed for the measurement of vacuum were utilized to obtain sub-slab soil vapor samples from the seventeen locations shown on Figure 1. The air samples were analyzed using a portable Gas Chromatograph (GC) System provided by Hartman Environmental Geoscience. The results of the GC analysis are shown alongside the vacuum measurements in Table 1. The greatest TCE reading at 64.8 ug/m^3 was observed at SVP – 28 located in the southwest corner of Building 4. All the readings were less than the Vapor Risk Screening Level (VRSL) of 70 µg/m^3.

Passive Indoor Air Sampling

Following documentation of adequate sub-slab depressurization, passive air sampling was performed in accordance with the approved Commissioning Plan. A total of 10 passive air samplers were set up and sampled over a 1-week period from July 19, 2023, until July 27, 2023. The locations of the passive air samplers are included in Attachment C. A passive sampler was also placed at the children's breathing zone in the Play Area. Two additional passive air samplers (IA-6-BS and IA-8-1D) from the basement of Building 6 and the Stairwell in Building 8A, that were not located during the Fifth Round of Commissioning were also set up and the results are included in the analyses.

On July 27, 2023, the passive air samplers were submitted to Eurofins Air Toxics, LLC Folsom, CA for analysis for chlorinated solvents including Trichloroethylene (TCE), Tetrachloroethylene (PCE), cis-1,2-Dichloroethylene (cis-DCE), and trans-1,2-Dichloroethylene (trans-DCE). The results are included in Attachment D and summarized in Table 2.

No samples reported any exceedances of chlorinated solvents based on the most recent guidelines published by WDNR in August 2023.

Indoor Air Gas Chromatograph Sampling

Indoor Air samples were collected similar to the exhaust samples and analyzed using the portable GC. The values were then compared to the VALs of 2.1 µg/m^3. The locations of the samples are shown in Attachment C (eg. GC-5-01A) and the results of the sampling are documented in Table 3. No samples exceeded the TCE detection limit of 0.6 ug/m^3. and thus meet the VAL criteria.

Exhaust Sampling

Eleven Radonaway RP 265 fans were installed on the roof of buildings 4 and 5 as part of the vapor mitigation system. As part of commissioning, glass syringes were utilized to gather air quality samples from exhaust of the roof fans on July 25, 2023, and analyzed using the portable GC.

The results of the July 2023 exhaust fan air quality sampling are summarized in Table 4 and the locations of sampled fans are included in Figure 1. Results from the GC document concentrations of TCE in exhaust samples greater than their respective Vapor Action Levels (VAL). Based on the concentrations of TCE in the exhaust, it is concluded that TCE is being removed from the soil at a minimal rate.

Conclusions and Recommendations

The following conclusions were reached based on the commissioning:

- Based on the results of sub-slab vacuum measurements, the vapor mitigation system installed on the subject site adequately creates vacuum beneath the building slab for buildings 4 and 5.
- The sub-slab TCE results demonstrate compliance with the VRSL levels.
- Passive indoor air results show that there are no Residential Indoor Air VALs exceeded in buildings 4 and 5.
- Exhaust Fan emission sampling indicates that TCE is still present in the sub-slab and that minimal mass reduction is taking place.
- The indoor air samples, collected via passive samplers and syringe sampling, contain no detections of TCE in all the areas throughout Buildings 4 and 5.
- Based on the results from the second round of commissioning, the system is operating as intended.

We have the following recommendations:

- We recommend that the third round of commissioning be scheduled for September 2023.
- Regular inspection and maintenance of the exhaust system is recommended.

Please contact us if you have any questions or seek clarification regarding this information.

Sincerely,

K. SINGH & ASSOCIATES, INC.

Sameer Neve, Ph.D. ENV SP
Staff Environmental Engineer

Robert T. Reineke, P.E
Project Manager

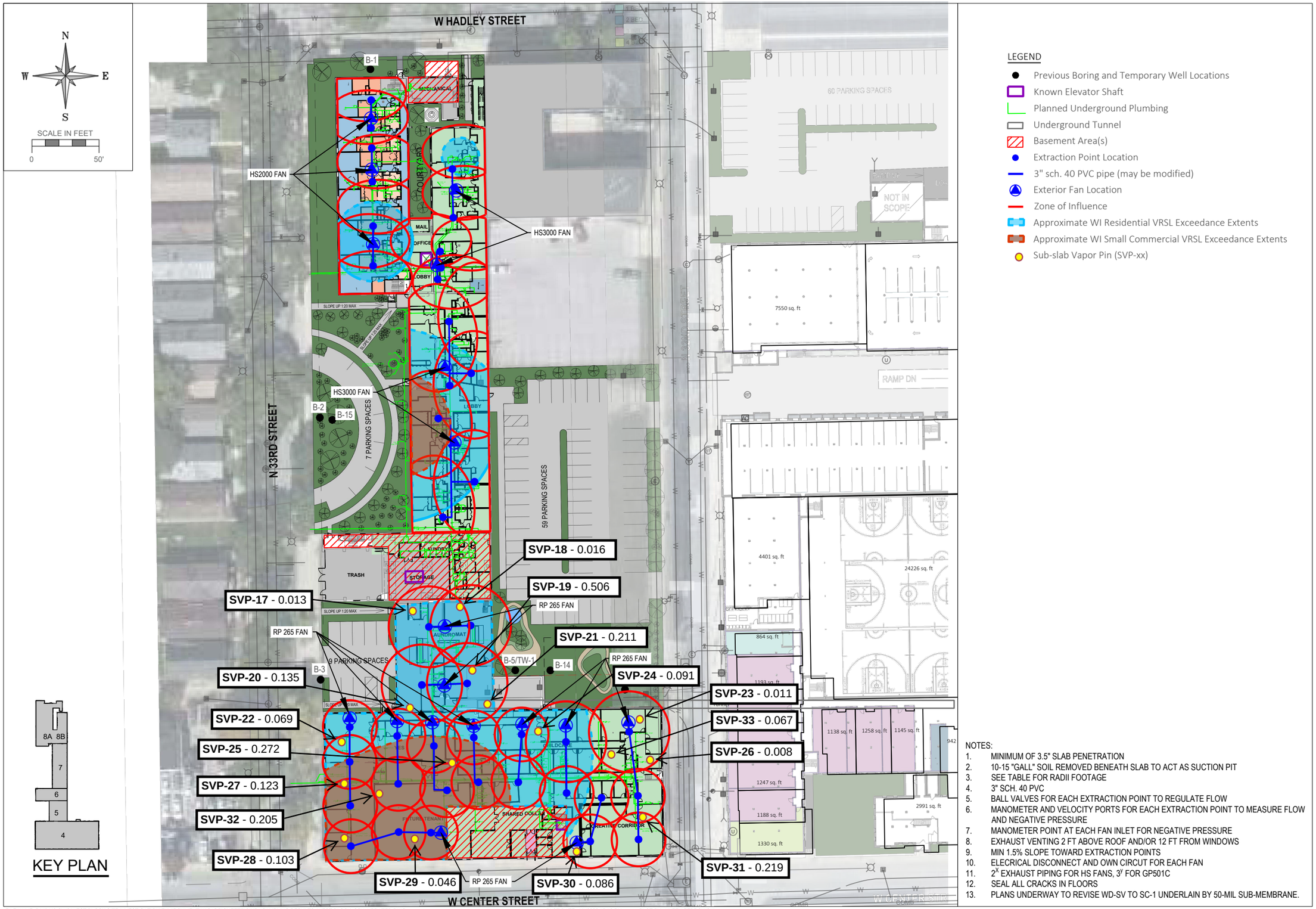
Pratap N. Singh, Ph.D., P.E.
Principal Engineer

cc: Shane LaFave / Roers Companies
Que El-Amin / Scott Crawford, Inc.

Attachments:

Figure 1	Repositioned Exhaust Fan Outlets
Figure 2	Sub-Slab Depressurization Locations and Results
Figure 3	Exhaust Fan Locations
Table 1	Vacuum Measurement and Sub-slab TCE Results
Table 2	Passive Air Sampling Results
Table 3	Indoor Air Sampling Results
Table 4	Exhaust Fan Sampling Results
Attachment A	Building 5 Exhaust Vents Relocation Figure
Attachment B	Pictures
Attachment C	Passive Air and Indoor Air Sampling Locations
Attachment D	Passive Air Sampling Test Results

FIGURES



LEGEND

- Previous Boring and Temporary Well Locations
- Known Elevator Shaft
- Planned Underground Plumbing
- Underground Tunnel
- Basement Area(s)
- Extraction Point Location
- 3" sch. 40 PVC pipe (may be modified)
- Exterior Fan Location
- Zone of Influence
- Approximate WI Residential VRSL Exceedance Extents
- Approximate WI Small Commercial VRSL Exceedance Extents
- Sub-slab Vapor Pin (SVP-xx)

NOTES:

1. MINIMUM OF 3.5" SLAB PENETRATION
2. 10-15 "GALL" SOIL REMOVED BENEATH SLAB TO ACT AS SUCTION PIT
3. SEE TABLE FOR RADII FOOTAGE
4. 3" SCH. 40 PVC
5. BALL VALVES FOR EACH EXTRACTION POINT TO REGULATE FLOW
6. MANOMETER AND VELOCITY PORTS FOR EACH EXTRACTION POINT TO MEASURE FLOW AND NEGATIVE PRESSURE
7. MANOMETER POINT AT EACH FAN INLET FOR NEGATIVE PRESSURE
8. EXHAUST VENTING 2 FT ABOVE ROOF AND/OR 12 FT FROM WINDOWS
9. MIN 1.5% SLOPE TOWARD EXTRACTION POINTS
10. ELECRICAL DISCONNECT AND OWN CIRCUT FOR EACH FAN
11. 2^X EXHAUST PIPING FOR HS FANS, 3^Y FOR GP501C
12. SEAL ALL CRACKS IN FLOORS
13. PLANS UNDERWAY TO REVISE WD-SV TO SC-1 UNDERLAIN BY 50-MIL SUB-MEMBRANE.

KSingh Engineers Scientists Consultants
3636 North 124th Street
Wauwatosa, WI 53222
262-821-1171

CONSULTANT

CONSULTANT

PROJECT TITLE: SITE INVESTIGATION REPORT
3212 W. CENTER ST., 2727 N. 32ND ST., 2758 N. 33RD ST.
COMMUNITY WITHIN THE CORRIDOR - WEST BLOCK
MILWAUKEE, WI 53210
PROJECT NUMBER: 40443

CLIENT: COMMUNITY WITHIN THE CORRIDOR LIMITED PARTNERSHIP

REVISIONS	DATE	DESCRIPTION

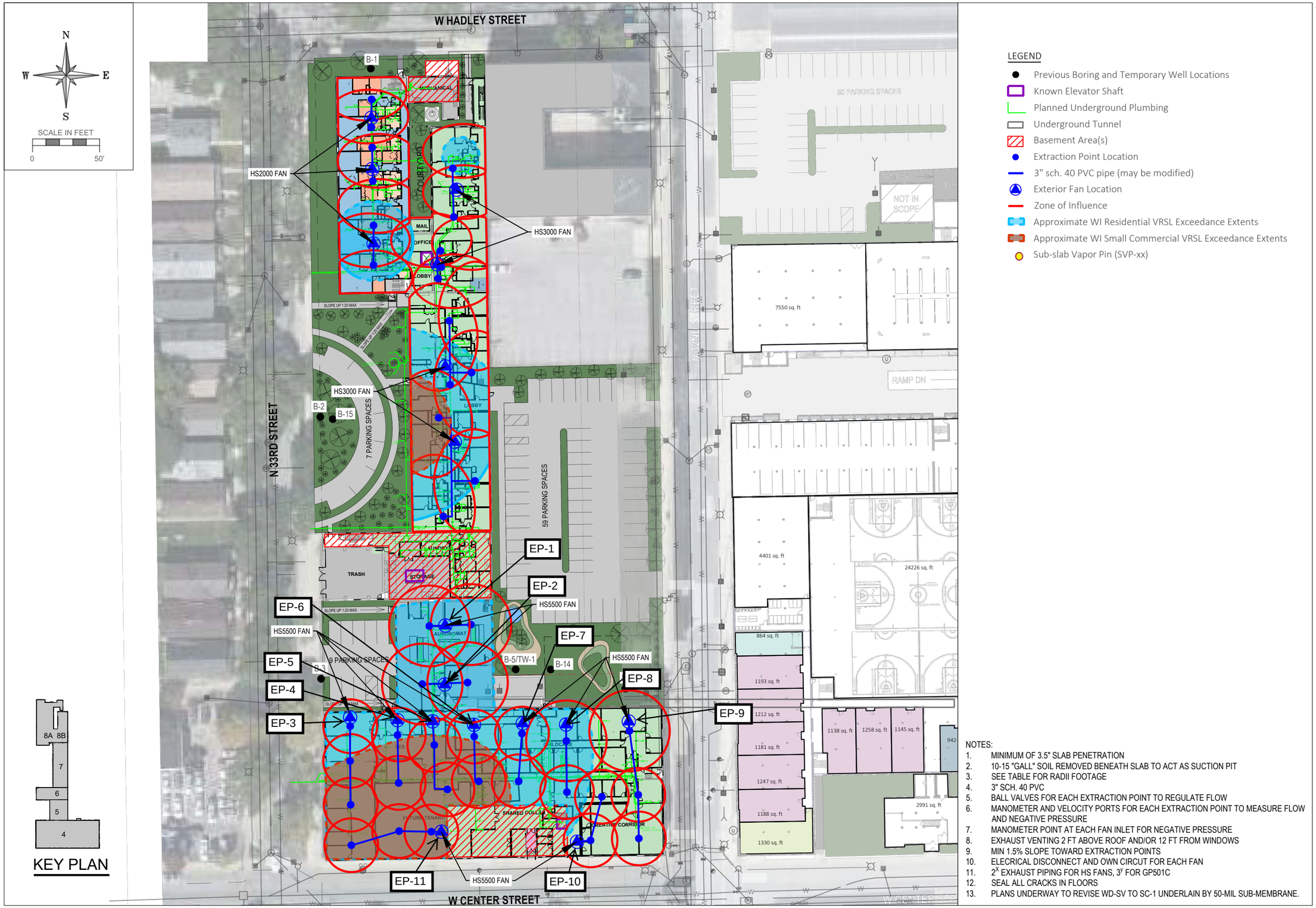
DRAWN BY	DATE
JPB	06/02/2022
CHECKED BY	DATE
RTR	06/02/2022

SHEET TITLE
Sub-slab Depressurization Location and Results (in inches H_2O)

FIGURE 1

SHEET 6 of SHEET 6

FILE NAME :P:\40443 CWC WEST BLOCK SITE INVESTIGATION\ENVIRONMENTAL\CADD\SHEETS\CWC - SAMPLING RESULTS_WEST BLOCK_SSV_UPDATED.DWG PLOT DATE :4/1/2022 12:16 PM PLOT BY :AILEEN ZEBROWSKI



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- Known Elevator Shaft
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SHEET TITLE
Exhaust Fan Locations

FIGURE 2

SHEET 6 of SHEET 6

TABLES

Table 1

Vacuum Measurement and Sub-Slab TCE Results

Sample Location	Date	Reading (inches H_2O)	Sub-Slab TCE Readings ($\mu g/m^3$)
SVP-17	7/20/2023	-0.013	0
SVP-18	7/20/2023	-0.016	11.2
SVP-19	7/19/2023	-0.506	0
SVP-20	7/19/2023	-0.135	0
SVP-21	7/19/2023	-0.211	1.04
SVP-22	7/19/2023	-0.069	8.49
SVP-23	7/19/2023	-0.011	0
SVP-24	7/19/2023	-0.091	0
SVP-25	7/19/2023	-0.272	2.22
SVP-26	7/19/2023	-0.008	0
SVP-27	7/19/2023	-0.123	8.79
SVP-28	7/19/2023	-0.103	64.8
SVP-29	7/19/2023	-0.046	11
SVP-30	7/19/2023	-0.086	0
SVP-31	7/19/2023	-0.219	0
SVP-32	7/19/2023	-0.205	11
SVP-33	7/19/2023	-0.067	0

*Readings were compared to a threshold value of 0.004 inches H_2O and VRSL levels of 70 $\mu g/m^3$

TABLE 4

Passive Air Sampling Results

Community Within the Corridor - West Block - Buildings 4 and 5

Sample ID	Units	Residential Indoor Air VAL*	IA-4-1A	IA-4-1B	IA-4-1C	IA-4-1D	IA-4-1E	IA-4-1F	IA-4-BS	IA-5-1A	IA-5-1B	OA-4/5	IA-6-Basement	IA-8-1D
Date	---	---	7/28/2023	7/28/2023	7/28/2023	7/28/2023	7/28/2023	7/28/2023	7/28/2023	7/28/2023	7/28/2023	7/28/2023	7/28/2023	7/28/2023
Trichloroethene	µg/m^3	2.1	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11
Tetrachloroethene	µg/m^3	42	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	0.17	0.23	0.30	<0.13	<0.13
cis-1,2-Dichloroethene	µg/m^3	42	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14
trans-1,2-Dichloroethene	µg/m^3	42	0.58	<0.26	0.62	0.48	0.53	0.57	0.35	0.43	0.66	0.47	0.23	0.51

*Based on WDNR Quick Look-Up Table dated May 2023

Table 3

Indoor Air Sampling Results

ID	Unit	Date	Time	PCE (µg/m^3)	TCE (µg/m^3)
GC-4-01A	423	20-Jul	15:36	< 0.6	< 0.6
GC-4-01B	419	20-Jul	14:45	< 0.6	< 0.6
GC-4-01C	410	20-Jul	14:18	< 0.6	< 0.6
GC-4-01D	406	20-Jul	14:01	< 0.6	< 0.6
GC-4-01E	408	20-Jul	14:09	< 0.6	< 0.6
GC-4-01F	413	20-Jul	14:26	< 0.6	< 0.6
GC-4-01G	415	20-Jul	14:54	< 0.6	< 0.6
GC-4-01H	416	20-Jul	15:02	< 0.6	< 0.6
GC-4-01I	418	20-Jul	15:11	< 0.6	< 0.6
GC-4-01J	313	20-Jul	16:14	< 0.6	< 0.6
GC-4-01K	314	20-Jul	16:23	< 0.6	< 0.6
GC-4-01L	109	20-Jul	17:20	< 0.6	< 0.6
GC-4-01M	10	20-Jul	16:04	< 0.6	< 0.6
GC-4-01N	9	20-Jul	15:57	< 0.6	< 0.6
GC-4-01O	oppo 318	20-Jul	16:35	< 0.6	< 0.6
GC-5-01A	432	20-Jul	15:45	< 0.6	< 0.6
GC-5-01B	open area	20-Jul	17:03	< 0.6	< 0.6
GC-5-01C	504	20-Jul	16:52	< 0.6	< 0.6
GC-5-01D	ent	20-Jul	17:10	< 0.6	< 0.6
Reporting Limit (µg/m^3)				< 0.6	< 0.6

Table 4

Exhaust Fan Sampling Results

Exhaust Fan	Effluent TCE Concentration	Flow Rate	TCE Removal Rate	TCE Removal Rate
	($\mu g/m^3$)	(cfm)	(lbs/day)	(lbs/year)
EP - 1	3.93	91.02	0.00003	0.0117
EP -2	3.88	82.47	0.00003	0.0105
EP - 3	2.44	45.41	0.00001	0.0036
EP - 4	10.3	20.27	0.00002	0.0069
EP - 5	3.36	56.06	0.00002	0.0062
EP - 6	0.49	58.95	0.00000	0.0009
EP - 7	4.17	20.32	0.00001	0.0028
EP - 8	2.02	55.08	0.00001	0.0037
EP - 9	0.34	14.48	0.00000	0.0002
EP - 10	4.05	19.34	0.00001	0.0026
EP - 11	3.05	84.09	0.00002	0.0084
		Total	0.00016	0.05743

ATTACHMENTS

ATTACHMENT A

Building 5 Exhaust Vents Relocation Figure

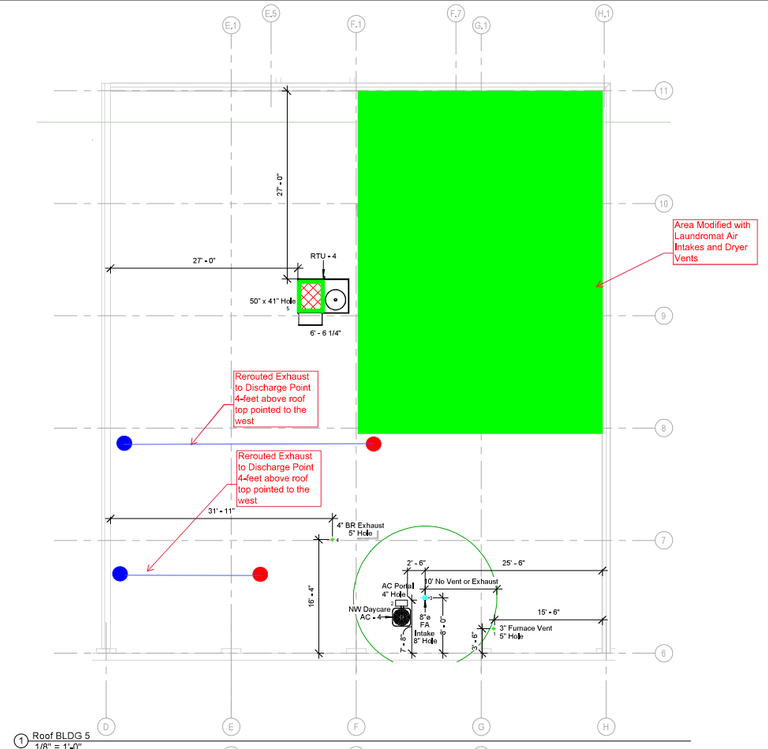
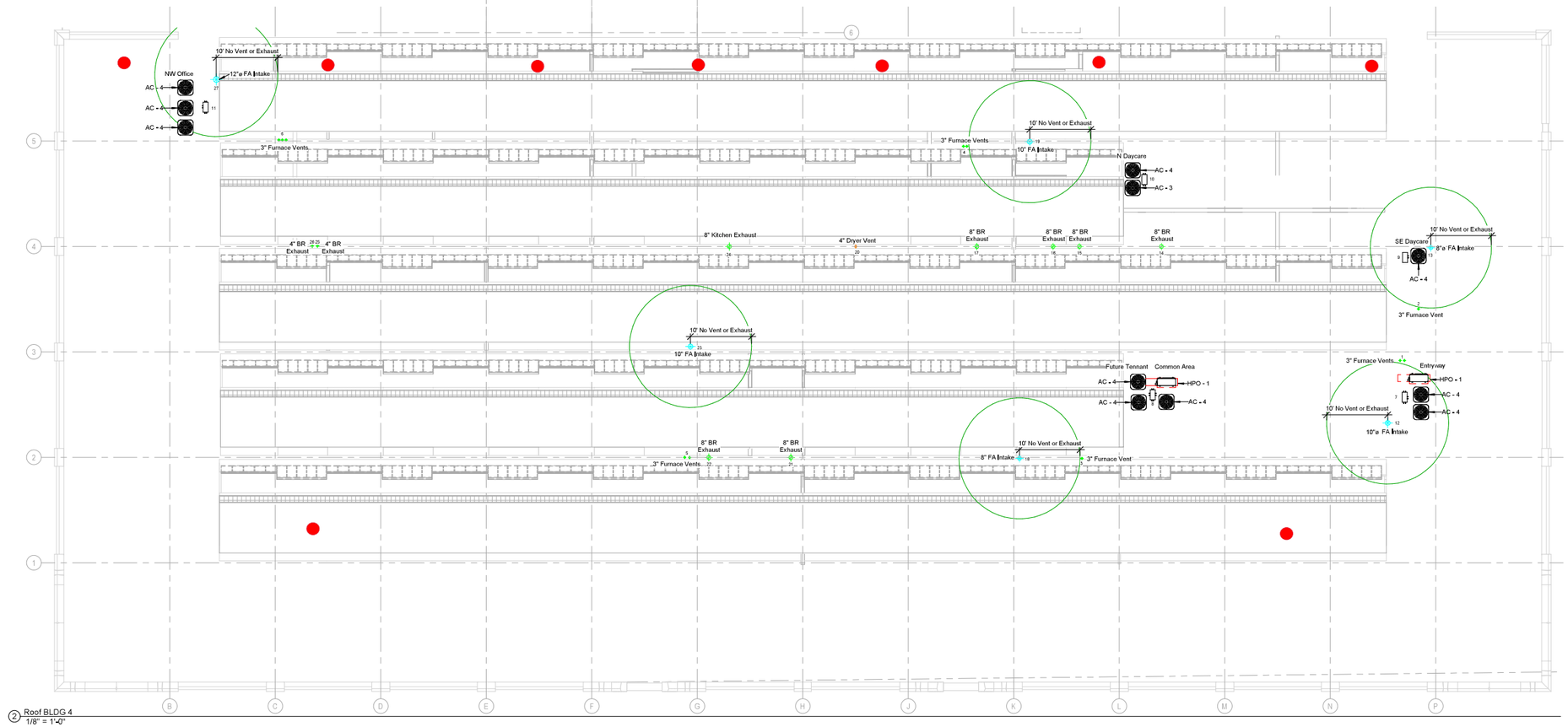


Photo taken July 17, 2023 showing Building 5 Venting Modifications



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Project:

Community Within The Cooridor - West Block
2758 N. 33rd St
Milwaukee, WI 53210

SHEET NAME: Roof BLDG 4 & 5

DRAWN BY: DA / JC

DATE: 5/11/2021 2:21:25 PM

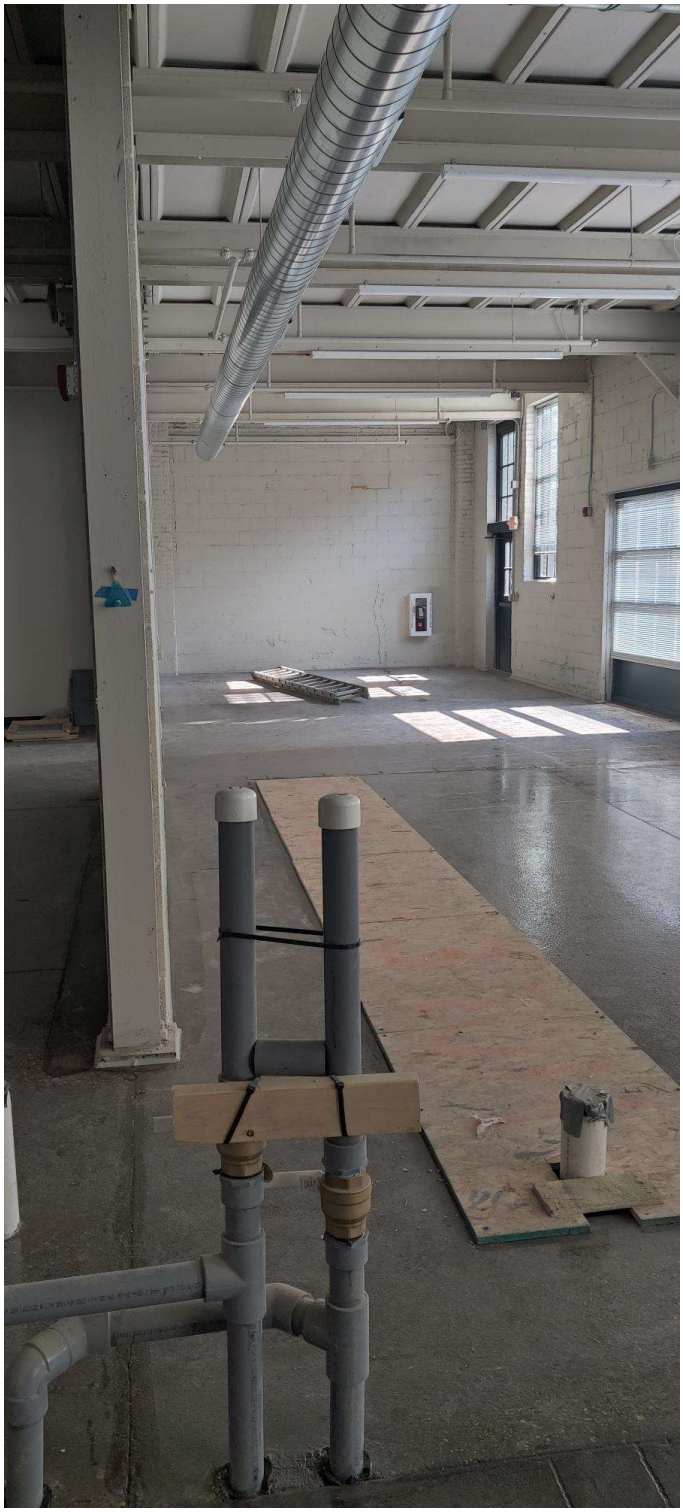
SCALE: 1/8" = 1'-0"

M-401

ATTACHMENT B

Pictures

Picture1 – Location of the Passive sampler at children's level in Play area



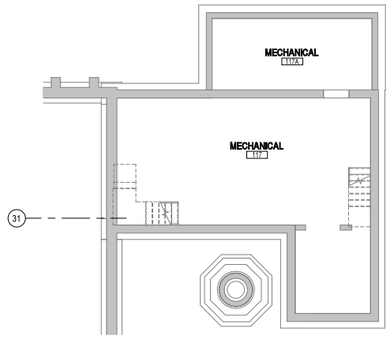
Picture 2 – Passive Sampler Location in Building 5

Picture 3 – Exhaust Fan Outlets on Building 4

Picture 4 – Exhaust Fan Outlets on Building 4

ATTACHMENT C

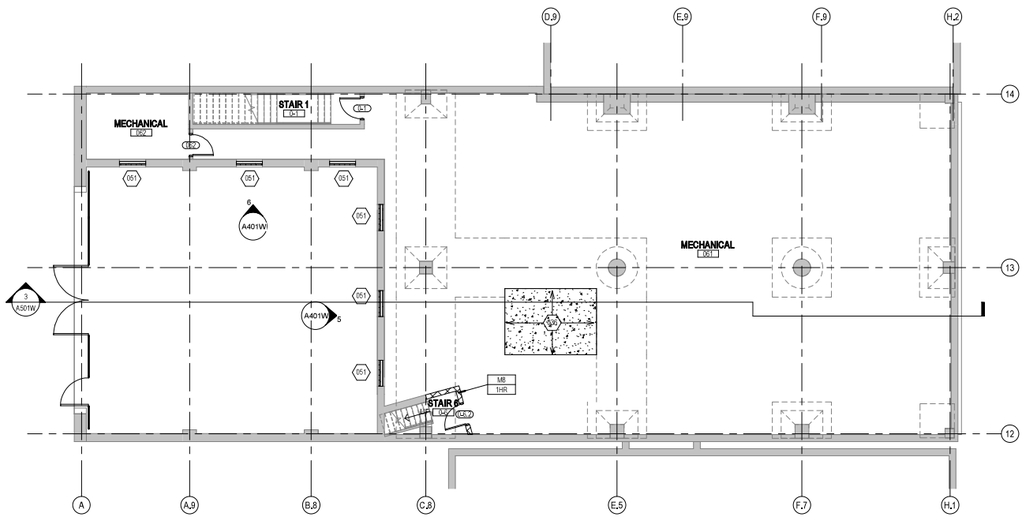
Passive Air and Indoor Air Sampling Locations



3 NEW WORK PLAN - BASEMENT - BUILDING 8A

Scale: 1/8" = 1'-0"

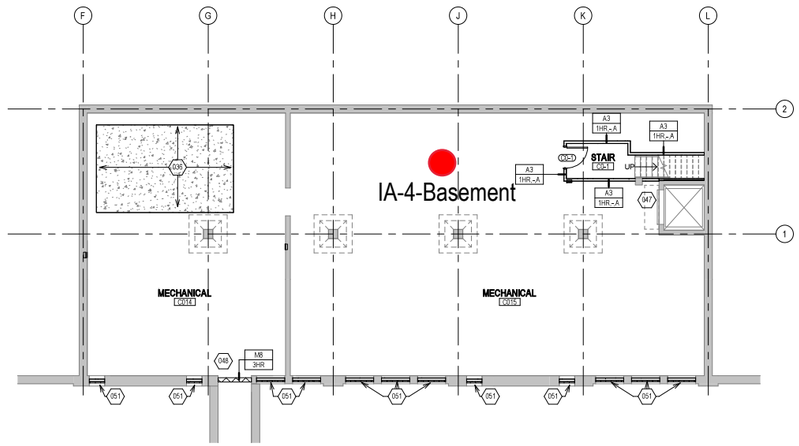
0' 2' 4' 8' 12'



2 NEW WORK PLAN - BASEMENT - BUILDING 6

Scale: 1/8" = 1'-0"

0 2 4 8 12



1 NEW WORK PLAN - BASEMENT - BUILDING 4

Scale: 1/8" = 1'-0"

0 2 4 8 12

NEW WORK PLAN KEY NOTES - 1/8" PLANS

SEE PROJECT GENERAL CONDITIONS, GENERAL INFORMATION ON SHEET A001W AND SELECTIVE DEMOLITION, CUTTING AND PATCHING SPECIFICATIONS THAT ARE USED IN ASSOCIATION WITH THESE NOTES.

NEW WORK PLAN KEY NOTES APPLY TO ALL 1/8" NEW WORK DRAWINGS AND MAY NOT BE USED ON EVERY SHEET.

001	SEE UNIT 137 ENLARGED PLAN.
002	SEE UNIT 105 ENLARGED PLAN.
003	SEE UNIT 113 ENLARGED PLAN.
004	SEE UNIT 136 ENLARGED PLAN. UNIT MAY BE MIRRORED.
005	SEE UNIT 149 ENLARGED PLAN.
006	SEE UNIT 131 ENLARGED PLAN.
007	SEE UNIT 132 ENLARGED PLAN.
008	SEE UNIT 232 ENLARGED PLAN.
009	SEE UNIT 251 ENLARGED PLAN.
010	SEE UNIT 146 ENLARGED PLAN.
011	SEE UNIT 151 ENLARGED PLAN.
012	SEE UNIT 252 ENLARGED PLAN.
013	SEE UNIT 242 ENLARGED PLAN.
014	SEE UNIT 128 ENLARGED PLAN. UNIT MAY BE MIRRORED.
015	SEE UNIT 122 ENLARGED PLAN.
016	SEE UNIT 227 ENLARGED PLAN.
017	SEE UNIT 111 ENLARGED PLAN.
018	SEE UNIT 217 ENLARGED PLAN.
019	SEE UNIT 124 ENLARGED PLAN.
020	SEE UNIT 224 ENLARGED PLAN.
021	SEE UNIT 223 ENLARGED PLAN.
022	SEE UNIT 109 ENLARGED PLAN.
023	SEE UNIT 115 ENLARGED PLAN.
024	SEE UNIT 130 ENLARGED PLAN. UNIT MAY BE MIRRORED.
025	SEE UNIT 215 ENLARGED PLAN.
026	SEE UNIT 205 ENLARGED PLAN.
027	SEE UNIT 314 ENLARGED PLAN.
028	SEE UNIT 139 ENLARGED PLAN.
029	SEE UNIT 140 ENLARGED PLAN.
030	SEE UNIT 207 ENLARGED PLAN.
031	SEE UNIT 213 ENLARGED PLAN. UNIT TO INCLUDE AUDIO AND VISUAL ALARM DEVICES FOR THE HEARING AND VISUALLY IMPARED. COORDINATE LOCATION WITH ELECTRICAL DRAWINGS.
032	SEE UNIT 147 ENLARGED PLAN.
033	SEE UNIT 122 ENLARGED PLAN.
034	SEE UNIT 206 ENLARGED PLAN.
035	NEW CONCRETE ON METAL DECK INFILL WITH SPRAY-APPLIED FIRE RESISTIVE MATERIAL AT NEW STEEL BEAMS AND ANGLES TO MAINTAIN FLOOR ASSEMBLY FIRE RATING. SEE OVERVIEW FLOOR PLANS FOR REQUIRED FLOOR ASSEMBLY FIRE RATINGS. SEE STRUCTURAL FOR DETAIL.
036	NEW CONCRETE INFILL AT EXISTING PIT. MATCH ADJACENT FLOOR LEVEL, FINISH AND TEXTURE.
037	PATCH AND REPAIR DAMAGED CONCRETE SLAB. MATCH ADJACENT FLOOR LEVEL, FINISH AND SURFACE TEXTURE.
038	NEW TIMBER FLOOR DECK INFILL TO MATCH EXISTING. SEE STRUCTURAL
039	NEW CONCRETE INFILL SLAB AT EXISTING SUNKEN STAIR PIT. MATCH ADJACENT FLOOR LEVEL, FINISH AND SURFACE TEXTURE.
040	PATCH & REPAIR CONCRETE SLAB WHERE EMBEDDED METAL PLATES AND/OR METAL TRENCH COVERS WERE REMOVED. FILL AND LEVEL WITH NEW CONCRETE TO MATCH ADJACENT SURFACE LEVEL AND FINISH TEXTURE. FEATHER CONCRETE TO LEVEL AT EXISTING METAL FLOOR OPENING FRAMES IF PRESENT.
041	NEW INFILL WALL & PRECAST SILL TO REBUILD WINDOW OPENING. SEE ELEVATIONS. TOOTH IN SALVAGED BRICK WITH NEW MORTAR TO MATCH ADJACENT HISTORIC MASONRY.
042	NEW INFILL WALL TO REBUILD WINDOW & DOOR OPENING. TOOTH IN SALVAGED MASONRY WITH NEW MORTAR TO MATCH ADJACENT HISTORIC MASONRY. PARGE SURFACES TO MATCH ADJACENT HISTORIC PARGE IF PRESENT.
043	NEW PARTIAL INFILL WALL ASSEMBLY TO REBUILD OPENING IN EXISTING WALL BELOW SILL AT FLOOR LEVEL. SEE ELEVATIONS. TOOTH IN SALVAGED BRICK WITH NEW MORTAR TO MATCH ADJACENT HISTORIC MASONRY. SEE DETAIL 7/A510W FOR WALL ASSEMBLY.
044	PATCH & REPAIR DAMAGED WALL OPENING AT SILL. TOOTH IN SALVAGED BRICK WITH NEW MORTAR AND PROVIDE NEW SILL TO MATCH ADJACENT HISTORIC MASONRY.
045	PATCH & REPAIR DAMAGED AND MISSING PLASTER RETURNS AT JAMB, HEAD AND SILL TO MATCH EXISTING RETURNS. SEE WINDOW DETAILS. AT THESE WALLS THERE WILL BE A FURRING WITH 5/8" GWB EXTENDING FROM FLOOR TO TOP OF WALL AT UNDERSIDE OF STRUCTURE.
046	PATCH & REPAIR DAMAGED AND MISSING PLASTER WOOD LATH FURRING WALL. PATCH AND REPAIR EXISTING RADIUSED PLASTER RETURN PROFILES IF DAMAGED AT JAMB, HEAD AND SILL TO MATCH EXISTING RETURNS AT ADJACENT WINDOWS OF THE SAME TYPE.
047	NEW GYPSUM BOARD INFILL WALL ASSEMBLY AT EXISTING OPENING. SEE DETAIL 1/A710W.
048	NEW CMU INFILL WALL ASSEMBLY AT EXISTING OPENING. SEE DETAIL 2/A710W.
049	NEW GYPSUM BOARD INFILL WALL ASSEMBLY AT EXISTING NON-HISTORIC WALL OPENING. MATCH EXISTING WALL ASSEMBLY WIDTH AND ADJACENT SURFACE FINISH.
050	NEW METAL PANEL INFILL WALL ASSEMBLY AT EXISTING EXTERIOR MASONRY WALL OPENING. SEE DETAIL 5/A510W.

NEW WORK PLAN KEY NOTES - 1/8" PLANS

SEE PROJECT GENERAL CONDITIONS, GENERAL INFORMATION ON SHEET A001W AND SELECTIVE DEMOLITION, CUTTING AND PATCHING SPECIFICATIONS THAT ARE USED IN ASSOCIATION WITH THESE NOTES.

NEW WORK PLAN KEY NOTES APPLY TO ALL 1/8" NEW WORK DRAWINGS AND MAY NOT BE USED ON EVERY SHEET.

051	NEW METAL PANEL INFILL WALL ASSEMBLY AT EXISTING WINDOW OPENING. SEE DETAIL 4/A710W.
052	EXISTING HISTORIC SLIDING FIRE DOOR ASSEMBLY TO REMAIN. SECURE SLIDING DOOR IN A FULLY OPEN POSITION WITH METAL Z-BRACKETS. PREPARE ENTIRE ASSEMBLY FOR PAINTED FINISH.
053	EXISTING HISTORIC SLIDING FIRE DOOR ASSEMBLY TO REMAIN. SECURE SLIDING DOOR IN A CLOSED POSITION WITH METAZ Z-BRACKETS. PREPARE ENTIRE ASSEMBLY FOR NEW PAINTED FINISH.
054	REINSTALL SALVAGED HISTORIC SLIDING FIRE DOOR ASSEMBLY AND HARDWARE FROM THIS OPENING TO NEW ORIENTATION AS SHOWN. SECURE SLIDING DOOR IN A CLOSED POSITION WITH METAL Z-BRACKETS. PREPARE ENTIRE ASSEMBLY FOR NEW PAINTED FINISH.
055	EXISTING HISTORIC COILING OVERHEAD DOOR ASSEMBLY TO REMAIN. SECURE COILING DOOR IN A FULLY OPEN POSITION. PREPARE ENTIRE ASSEMBLY FOR PAINTED FINISH.
056	EXISTING HISTORIC COILING OVERHEAD DOOR ASSEMBLY TO REMAIN. SECURE COILING DOOR IN A FULLY CLOSED POSITION. PREPARE ENTIRE ASSEMBLY FOR PAINTED FINISH.
057	EXISTING HISTORIC OVERHEAD DOOR ASSEMBLY TO REMAIN. REPAIR TRACK AND HARDWARE TO RETURN DOOR TO OPERATING CONDITION. PREPARE ENTIRE ASSEMBLY FOR PAINTED FINISH.
058	EXISTING STEEL SASH WINDOW ASSEMBLY TO REMAIN. PREPARE ENTIRE ASSEMBLY FOR PAINTED FINISH. REPLACE BROKEN OR MISSING PANES OF GLASS WITH NEW GLASS TO MATCH EXISTING.
059	NEW OPENING IN EXISTING CMU WALL. TOOTH IN NEW CMU AND MORTAR TO MATCH EXISTING.
060	EXISTING GLAZED WALL TILE TO REMAIN. PROTECT DURING CONSTRUCTION.
061	TUCKPOINT AND REPAIR EXISTING CHIMNEY TO MACH EXISTING MATERIALS. SEE EXTERIOR MASONRY REPORT AND DRAWINGS.
062	EXISTING WOOD SINGLE HUNG WINDOW FRAME, SASH AND ALL CASING/TRIM TO REMAIN. PREPARE EXISTING INTERIOR & EXTERIOR SURFACES FOR NEW PAINT. REPLACE MISSING AND/OR BROKEN GLASS TO MATCH EXISTING AND INSTALL NEW GLAZING PUTTY AT ALL PANES. INSTALL NEW INTERIOR STORM WINDOWS. SEE DETAIL 13/A510W.
063	ALIGN EDGE OF DEMISING WALL WITH EDGE OF HISTORIC MASONRY OPENING.
064	ALIGN CENTER OF DEMISING WALL OR PARTITION WITH CENTERLINE OF HISTORIC COLUMN, OR BEAM ABOVE.
065	ALIGN EDGE OF DEMISING WALL WITH EDGE OF HISTORIC CONCRETE DROP SLAB.
066	ALIGN CENTER OF DEMISING WALL PARTITION WITH CENTERLINE OF WINDOW MULLION.
067	ALIGN EDGE OF DEMISING WALL WITH OUTER EDGE OF LIGHT MONITOR VOLUME.
068	ALIGN CENTER OF DEMISING WALL OR PARTITION WITH CENTER OF HISTORIC SKYLIGHT MULLION ABOVE.
069	NEW 2'X2' ACCESS DOOR W/ 3-HR RATING @ WALL TO ABANDONED MECHANICAL TUNNEL.
070	NEW CONCRETE SLAB AT EXISTING STOOP TO MATCH FLOOR HEIGHT AT BUILDING 7. SEE STRUCTURAL.
071	EXISTING WOOD STAIR, GUARD AND HANDRAILS TO REMAIN. PREP ALL SURFACES FOR NEW PAINT.
072	EXISTING WOOD STAIR, GUARD AND HANDRAIL TO REMAIN. REPAIR/REPLACE MISSING BEAD BOARD HANDRAIL SUPPORT AND STAIR RUN FROM LEVEL 01 TO 1ST LANDING TO MATCH EXISTING HISTORIC CONDITION PERSENT. PROVIDE NEW STEEL HANDRAILS AT EXISTING CMU WALLS. PREP ALL SURFACES FOR NEW PAINT.
073	EXISTING CONCRETE STAIR, CMU GUARD WALL AND HANDRAIL TO REMAIN. PREP ALL SURFACES FOR NEW FINISHES.
074	PROVIDE NEW EGRESS BARRIER GATE AT EXISTING STEEL GUARDRAIL EXISTING CONCRETE STAIR, STEEL GUARDRAIL AND HANDRAIL TO REMAIN. PREP ALL SURFACES FOR NEW FINISHES.
075	NEW CHAINLINK FENCE & GATES W/ PRIVACY SLATS.
076	BUILD TYPE PL UNIT DEMISING WALL WITH RESILIENT CHANNEL ON THIS SIDE.
077	TAPER SLOPED CONCRETE TOPPING 1:20 SLOPE MAX TO MEET EXISTING FINISH LEVEL AT TRANSITIONAREA TO STAIRS OR BETWEEN BUILDINGS.
078	NEW TAPERED POLISHED EPOXY FLOOR TOPPING TO TRANSITION FLOOR FINISH LEVEL CHANGE BETWEEN BUILDINGS 6 & 7. TAPER 1:20 SLOPE MAX.
079	PATCH AND REPAIR DAMAGED AND MISSING EXTERIOR STUCCO TO MATCH ADJACENT SURFACE.

GENERAL FLOOR PLAN NOTES TO CONTRACTOR

1. THIS DRAWING IS FURTHER SUPPORTED BY INFORMATION CONTAINED IN THE SPECIFICATION MANUAL.
2. THE CIVIL, STRUCTURAL, MECHANICAL, ELECTRICAL, PLUMBING, FIRE PROTECTION, AUDIO-VISUAL, AND SECURITY DRAWINGS ARE SUPPLEMENTARY TO THE ARCHITECTURAL DRAWINGS. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE THE INFORMATION CONTAINED IN ALL THE DRAWINGS BEFORE THE INSTALLATION OF ALL WORK.
3. DO NOT SCALE DRAWINGS. CONTRACTOR TO VERIFY ALL CONDITIONS AND DIMENSIONS AT THE JOB SITE PRIOR TO COMMENCING CONSTRUCTION.
4. FLOOR ELEVATIONS ARE TO THE TOP OF THE SUB-FLOOR MATERIAL UNLESS OTHERWISE NOTED.
5. CONTRACTORS SHALL JOINTLY PROVIDE AND INSTALL ALL STIFFENERS, BRACING, BACKING PLATES, WALL BLOCKING AND SUPPORTING BRACKETS REQUIRED FOR THE INSTALLATION OF CASEWORK, TOILET ACCESSORIES, PARTITIONS, MILLWORK, AND ALL WORK MOUNTED OR SUSPENDED BY ALL TRADES.

NEW WORK PLAN LEGEND

- EXISTING, TO REMAIN
- MASONRY PARTITION. SEE PARTITION TYPES FOR DETAILS
- METAL STUD PARTITION. SEE PARTITION TYPES FOR DETAILS TYPE A3 / -A U.N.O.
- METAL STUD PARTITION. SEE PARTITION TYPES FOR DETAILS TYPE P6 / THR - A U.N.O.
- X — NEW WORK KEY NOTE

PATCH AND INFILL LEGEND

- CONCRETE FLOOR OPENING INFILL. SEE STRUCTURAL FOR INFILL CONDITIONS. V.I.F. EXACT SIZE AND LOCATIONS.
- CONCRETE FLOOR COSMETIC PATCH. V.I.F. EXACT SIZE AND LOCATIONS.
- WOOD FLOOR STRUCTURAL INFILL. SEE STRUCTURAL FOR INFILL CONDITIONS. V.I.F. EXACT SIZE AND LOCATIONS.

T 414.220.9640

751 N Jefferson St.
Suite 200
Milwaukee, WI 53202

CONSULTANTS

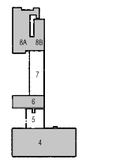
COMMUNITY WITHIN THE CORRIDOR - WEST BLOCK

2758 N. 38RD STREET
MILWAUKEE, WI 53210

SHEET TITLE: **NEW WORK PLAN - BASEMENT - BUILDINGS 4, 6 & 8A**

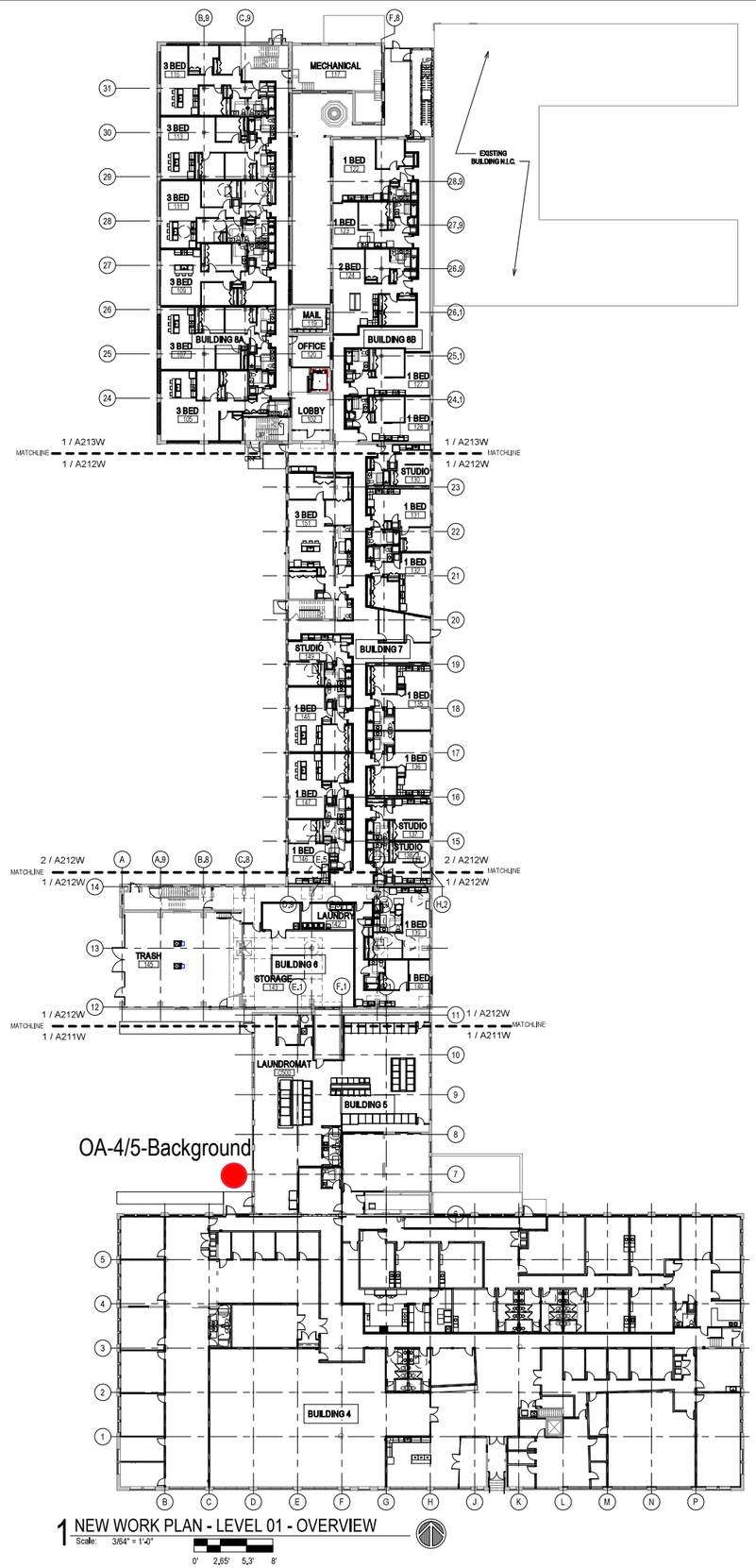
REVISIONS:

1 10/09/20 ADDENDUM #1



KEY PLAN

SCALE	VARIES
PROJECT NUMBER	200102
SET TYPE	**CONSTRUCTION DOCUMENTS**
DATE ISSUED	**9/25/20**
SHEET NUMBER	**A201W**



1 NEW WORK PLAN - LEVEL 01 - OVERVIEW
Scale: 3/64" = 1'-0"
0' 2,65' 5,3' 8'

NEW WORK PLAN KEY NOTES - 1/8" PLANS

SEE PROJECT GENERAL CONDITIONS, GENERAL INFORMATION ON SHEET A001W AND SELECTIVE DEMOLITION, CUTTING AND PATCHING SPECIFICATIONS THAT ARE USED IN ASSOCIATION WITH THESE NOTES.

NEW WORK PLAN KEY NOTES APPLY TO ALL 1/8" NEW WORK DRAWINGS AND MAY NOT BE USED ON EVERY SHEET.

001	SEE UNIT 137 ENLARGED PLAN.
002	SEE UNIT 105 ENLARGED PLAN.
003	SEE UNIT 113 ENLARGED PLAN.
004	SEE UNIT 136 ENLARGED PLAN. UNIT MAY BE MIRRORED.
005	SEE UNIT 149 ENLARGED PLAN.
006	SEE UNIT 131 ENLARGED PLAN.
007	SEE UNIT 132 ENLARGED PLAN.
008	SEE UNIT 232 ENLARGED PLAN.
009	SEE UNIT 251 ENLARGED PLAN.
010	SEE UNIT 146 ENLARGED PLAN.
011	SEE UNIT 151 ENLARGED PLAN.
012	SEE UNIT 252 ENLARGED PLAN.
013	SEE UNIT 242 ENLARGED PLAN.
014	SEE UNIT 128 ENLARGED PLAN. UNIT MAY BE MIRRORED.
015	SEE UNIT 122 ENLARGED PLAN.
016	SEE UNIT 227 ENLARGED PLAN.
017	SEE UNIT 111 ENLARGED PLAN.
018	SEE UNIT 217 ENLARGED PLAN.
019	SEE UNIT 124 ENLARGED PLAN.
020	SEE UNIT 224 ENLARGED PLAN.
021	SEE UNIT 223 ENLARGED PLAN.
022	SEE UNIT 109 ENLARGED PLAN.
023	SEE UNIT 115 ENLARGED PLAN.
024	SEE UNIT 130 ENLARGED PLAN. UNIT MAY BE MIRRORED.
025	SEE UNIT 215 ENLARGED PLAN.
026	SEE UNIT 205 ENLARGED PLAN.
027	SEE UNIT 314 ENLARGED PLAN.
028	SEE UNIT 139 ENLARGED PLAN.
029	SEE UNIT 140 ENLARGED PLAN.
030	SEE UNIT 207 ENLARGED PLAN.
031	SEE UNIT 213 ENLARGED PLAN. UNIT TO INCLUDE AUDIO AND VISUAL ALARM DEVICES FOR THE HEARING AND VISUALLY IMPAIRED. COORDINATE LOCATION WITH ELECTRICAL DRAWINGS.
032	SEE UNIT 147 ENLARGED PLAN.
033	SEE UNIT 122 ENLARGED PLAN.
034	SEE UNIT 206 ENLARGED PLAN.
035	NEW CONCRETE ON METAL DECK INFILL WITH SPRAY-APPLIED FIRE RESISTIVE MATERIAL AT NEW STEEL BEAMS AND ANGLES TO MAINTAIN FLOOR ASSEMBLY FIRE RATING. SEE OVERVIEW FLOOR PLANS FOR REQUIRED FLOOR ASSEMBLY FIRE RATINGS. SEE STRUCTURAL FOR DETAIL.
036	NEW CONCRETE INFILL AT EXISTING PIT. MATCH ADJACENT FLOOR LEVEL, FINISH AND TEXTURE.
037	PATCH AND REPAIR DAMAGED CONCRETE SLAB. MATCH ADJACENT FLOOR LEVEL, FINISH AND SURFACE TEXTURE.
038	NEW TIMBER FLOOR INFILL TO MATCH EXISTING. SEE STRUCTURAL.
039	NEW CONCRETE INFILL SLAB AT EXISTING SUNKEN STAIR PIT. MATCH ADJACENT FLOOR LEVEL, FINISH AND SURFACE TEXTURE.
040	PATCH & REPAIR CONCRETE SLAB WHERE EMBEDDED METAL PLATES AND/OR METAL TRENCH COVERS WERE REMOVED. FILL AND LEVEL WITH NEW CONCRETE TO MATCH ADJACENT SURFACE LEVEL AND FINISH TEXTURE. FEATHER CONCRETE TO LEVEL AT EXISTING METAL FLOOR OPENING FRAMES IF PRESENT.
041	NEW INFILL WALL & PRECAST SILL TO REBUILD WINDOW OPENING. SEE ELEVATIONS. TOOTH IN SALVAGED BRICK WITH NEW MORTAR TO MATCH ADJACENT HISTORIC MASONRY.
042	NEW INFILL WALL TO REBUILD WINDOW & DOOR OPENING. TOOTH IN SALVAGED MASONRY WITH NEW MORTAR TO MATCH ADJACENT HISTORIC MASONRY. PARGE SURFACES TO MATCH ADJACENT HISTORIC PARGE IF PRESENT.
043	NEW PARTIAL INFILL WALL ASSEMBLY TO REBUILD OPENING IN EXISTING WALL BELOW SILL AT FLOOR LEVEL. SEE ELEVATIONS. TOOTH IN SALVAGED BRICK WITH NEW MORTAR TO MATCH ADJACENT HISTORIC MASONRY. SEE DETAIL 7/A510W FOR WALL ASSEMBLY.
044	PATCH & REPAIR DAMAGED WALL OPENING AT SILL. TOOTH IN SALVAGED BRICK WITH NEW MORTAR AND PROVIDE NEW SILL TO MATCH ADJACENT HISTORIC MASONRY.
045	PATCH & REPAIR DAMAGED AND MISSING PLASTER RETURNS AT JAMB, HEAD AND SILL TO MATCH EXISTING RETURNS. SEE WINDOW DETAILS. AT THESE WALLS THERE WILL BE A FURRING WITH 5/8" GWB EXTENDING FROM FLOOR TO TOP OF WALL AT UNDERSIDE OF STRUCTURE.
046	PATCH & REPAIR DAMAGED AND MISSING PLASTER WOOD LATH FURRING WALL. PATCH AND REPAIR EXISTING RADIUSED PLASTER RETURN PROFILES IF DAMAGED AT JAMB, HEAD AND SILL TO MATCH EXISTING RETURNS AT ADJACENT WINDOWS OF THE SAME TYPE.
047	NEW GYPSUM BOARD INFILL WALL ASSEMBLY AT EXISTING OPENING. SEE DETAIL 1/A710W.
048	NEW CMU INFILL WALL ASSEMBLY AT EXISTING OPENING. SEE DETAIL 2/A710W.
049	NEW GYPSUM BOARD INFILL WALL ASSEMBLY AT EXISTING NON-HISTORIC WALL OPENING. MATCH EXISTING WALL ASSEMBLY WIDTH AND ADJACENT SURFACE FINISH.
050	NEW METAL PANEL INFILL WALL ASSEMBLY AT EXISTING EXTERIOR MASONRY WALL OPENING. SEE DETAIL 5/A510W.

NEW WORK PLAN KEY NOTES - 1/8" PLANS

SEE PROJECT GENERAL CONDITIONS, GENERAL INFORMATION ON SHEET A001W AND SELECTIVE DEMOLITION, CUTTING AND PATCHING SPECIFICATIONS THAT ARE USED IN ASSOCIATION WITH THESE NOTES.

NEW WORK PLAN KEY NOTES APPLY TO ALL 1/8" NEW WORK DRAWINGS AND MAY NOT BE USED ON EVERY SHEET.

051	NEW METAL PANEL INFILL ASSEMBLY AT EXISTING WINDOW OPENING. SEE DETAIL 4/A510W.
052	EXISTING HISTORIC SLIDING FIRE DOOR ASSEMBLY TO REMAIN. SECURE SLIDING DOOR IN A FULLY OPEN POSITION WITH METAL Z-BRACKETS. PREPARE ENTIRE ASSEMBLY FOR PAINTED FINISH.
053	EXISTING HISTORIC SLIDING FIRE DOOR ASSEMBLY TO REMAIN. SECURE SLIDING DOOR IN A CLOSED POSITION WITH METAZ Z-BRACKETS. PREPARE ENTIRE ASSEMBLY FOR NEW PAINTED FINISH.
054	REINSTALL SALVAGED HISTORIC SLIDING FIRE DOOR ASSEMBLY AND HARDWARE FROM THIS OPENING TO NEW ORIENTATION AS SHOWN. SECURE SLIDING DOOR IN A CLOSED POSITION WITH METAL Z-BRACKETS. PREPARE ENTIRE ASSEMBLY FOR NEW PAINTED FINISH.
055	EXISTING HISTORIC COILING OVERHEAD DOOR ASSEMBLY TO REMAIN. SECURE COILING DOOR IN A FULLY OPEN POSITION. PREPARE ENTIRE ASSEMBLY FOR PAINTED FINISH.
056	EXISTING HISTORIC COILING OVERHEAD DOOR ASSEMBLY TO REMAIN. SECURE COILING DOOR IN A FULLY CLOSED POSITION. PREPARE ENTIRE ASSEMBLY FOR PAINTED FINISH.
057	EXISTING HISTORIC OVERHEAD DOOR ASSEMBLY TO REMAIN. REPAIR TRACK AND HARDWARE TO RETURN DOOR TO OPERATING CONDITION. PREPARE ENTIRE ASSEMBLY FOR PAINTED FINISH.
058	EXISTING STEEL SASH WINDOW ASSEMBLY TO REMAIN. PREPARE ENTIRE ASSEMBLY FOR PAINTED FINISH. REPLACE BROKEN OR MISSING PANES OF GLASS WITH NEW GLASS TO MATCH EXISTING.
059	NEW OPENING IN EXISTING CMU WALL. TOOTH IN NEW CMU AND MORTAR TO MATCH EXISTING.
060	EXISTING GLAZED WALL TILE TO REMAIN. PROTECT DURING CONSTRUCTION.
061	TUCKPOINT AND REPAIR EXISTING CHIMNEY TO MACH EXISTING MATERIALS. SEE EXTERIOR MASONRY REPORT AND DRAWINGS.
062	EXISTING WOOD SINGLE HUNG WINDOW FRAME, SASH AND ALL CASING/TRIM TO REMAIN. PREPARE EXISTING INTERIOR & EXTERIOR SURFACES FOR NEW PAINT. REPLACE MISSING AND/OR BROKEN GLASS TO MATCH EXISTING AND INSTALL NEW GLAZING PUTTY AT ALL PANES. INSTALL NEW INTERIOR STORM WINDOWS. SEE DETAIL 13/A510W.
063	ALIGN EDGE OF DEMISING WALL WITH EDGE OF HISTORIC MASONRY OPENING.
064	ALIGN CENTER OF DEMISING WALL OR PARTITION WITH CENTERLINE OF HISTORIC COLUMN, OR BEAM ABOVE.
065	ALIGN EDGE OF DEMISING WALL WITH EDGE OF HISTORIC CONCRETE DROP SLAB.
066	ALIGN CENTER OF DEMISING WALL PARTITION WITH CENTERLINE OF WINDOW MULLION.
067	ALIGN EDGE OF DEMISING WALL WITH OUTER EDGE OF LIGHT MONITOR VOLUME.
068	ALIGN CENTER OF DEMISING WALL OR PARTITION WITH CENTER OF HISTORIC SKYLIGHT MULLION ABOVE.
069	NEW 2'X2' ACCESS DOOR W/ 3-HR RATING @ WALL TO ABANDONED MECHANICAL TUNNEL.
070	NEW CONCRETE SLAB AT EXISTING STOOP TO MATCH FLOOR HEIGHT AT BUILDING 7. SEE STRUCTURAL.
071	EXISTING WOOD STAIR, GUARD AND HANDRAILS TO REMAIN. PREP ALL SURFACES FOR NEW PAINT.
072	EXISTING WOOD STAIR, GUARD AND HANDRAIL TO REMAIN. REPAIR/REPLACE MISSING BEAD BOARD HANDRAIL SUPPORT AND STAIR RUN FROM LEVEL 01 TO 1ST LANDING TO MATCH EXISTING HISTORIC CONDITION PERSENT. PROVIDE NEW STEEL HANDRAILS AT EXISTING CMU WALLS. PREP ALL SURFACES FOR NEW PAINT.
073	EXISTING CONCRETE STAIR, CMU GUARD WALL AND HANDRAIL TO REMAIN. PREP ALL SURFACES FOR NEW FINISHES.
074	PROVIDE NEW EGRESS BARRIER GATE AT EXISTING STEEL GUARDRAIL. EXISTING CONCRETE STAIR, STEEL GUARDRAIL AND HANDRAIL TO REMAIN. PREP ALL SURFACES FOR NEW FINISHES.
075	NEW CHAINLINK FENCE & GATES W/ PRIVACY SLATS.
076	BUILD TYPE P6 UNIT DEMISING WALL WITH RESILIENT CHANNEL ON THIS SIDE.
077	TAPER CYPCRETE TOPPING 1:20 SLOPE MAX TO MEET EXISTING FINISH LEVEL AT TRANSITION AREA TO STAIRS OR BETWEEN BUILDINGS.
078	NEW TAPERED POLISHED EPOXY FLOOR TOPPING TO TRANSITION FLOOR FINISH LEVEL CHANGE BETWEEN BUILDINGS 6 & 7. TAPER 1:20 SLOPE MAX.
079	PATCH AND REPAIR DAMAGED AND MISSING EXTERIOR STUCCO TO MATCH ADJACENT SURFACE.

GENERAL FLOOR PLAN NOTES TO CONTRACTOR

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3. DO NOT SCALE DRAWINGS. CONTRACTOR TO VERIFY ALL CONDITIONS AND DIMENSIONS AT THE JOB SITE PRIOR TO COMMENCING CONSTRUCTION.
4. FLOOR ELEVATIONS ARE TO THE TOP OF THE SUB-FLOOR MATERIAL UNLESS OTHERWISE NOTED.
5. CONTRACTORS SHALL JOINTLY PROVIDE AND INSTALL ALL STIFFENERS, BRACING, BACKING PLATES, WALL BLOCKING AND SUPPORTING BRACKETS REQUIRED FOR THE INSTALLATION OF CASEWORK, TOILET ACCESSORIES, PARTITIONS, MILLWORK, AND ALL WORK MOUNTED OR SUSPENDED BY ALL TRADES.

NEW WORK PLAN LEGEND

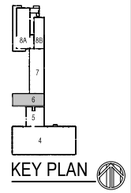
- EXISTING, TO REMAIN
- MASONRY PARTITION, SEE PARTITION TYPES FOR DETAILS
- METAL STUD PARTITION, SEE PARTITION TYPES FOR DETAILS TYPE A3 / A (U.N.O.)
- METAL STUD PARTITION, SEE PARTITION TYPES FOR DETAILS TYPE P5 / 1HR-A (U.N.O.)
- X — NEW WORK KEY NOTE

PATCH AND INFILL LEGEND

- CONCRETE FLOOR OPENING INFILL, SEE STRUCTURAL FOR INFILL CONDITIONS. V.I.F. EXACT SIZE AND LOCATIONS.
- CONCRETE FLOOR COSMETIC PATCH. V.I.F. EXACT SIZE AND LOCATIONS.
- WOOD FLOOR STRUCTURAL INFILL, SEE STRUCTURAL FOR INFILL CONDITIONS. V.I.F. EXACT SIZE AND LOCATIONS.

FLOOR ASSEMBLY SUMMARY

	LEVEL 01	LEVEL 02	LEVEL 03
BLDG. 4 MAIN AREA	EXISTING CONCRETE SLAB-ON-GRADE		
BLDG. 4 AT PARTIAL BASEMENT	-EXISTING 6" CONCRETE SLAB -ASSEMBLY FIRE RATING: 1 HOURS		
BLDG. 5	EXISTING CONCRETE SLAB-ON-GRADE		
BLDG. 6	-EXISTING 10 1/2" CONCRETE SLAB -ASSEMBLY FIRE RATING: 1 HOURS	-EXISTING 10 1/2" CONCRETE SLAB -ASSEMBLY FIRE RATING: 1 HOURS -STC-IIC RATING:	
BLDG. 7	EXISTING CONCRETE SLAB-ON-GRADE	- FINISH FLOORING (SEE FINISH PLANS FOR MATERIALS AND LOCATIONS OF FINISH MATERIALS) - NEW 1-1/2" GYPSUM CEMENT UNDERLAYMENT - NEW ACOUSTIC SOUND MAT (AT NON-CARPETED AREAS ONLY) - EXISTING 2" TIMBER SUBFLOORING - EXISTING 7X13 TIMBER FLOOR JOISTS (NDS CH. 16 CALCULATED CHAR RATE MEETS 1/2-HOUR RATING) - UNDERSIDE OF EXISTING WOOD SUBFLOORING TO RECEIVE NEW INTUMESCENT COATING. - ASSEMBLY FIRE RATING: 1/2 HOUR - FSTC: 45-49 FIIC: 45-47	
BLDG. 8A	- FINISH FLOORING (SEE FINISH PLANS FOR MATERIALS AND LOCATIONS OF FINISH MATERIALS) - EXISTING CONCRETE SLAB ON GRADE	- FINISH FLOORING (SEE FINISH PLANS FOR MATERIALS AND LOCATIONS OF FINISH MATERIALS) - NEW 1-1/2" GYPSUM CEMENT UNDERLAYMENT - NEW ACOUSTIC SOUND MAT (AT NON-CARPETED AREAS ONLY) - EXISTING 3" TIMBER SUBFLOORING (NDS CH. 16 CALCULATED CHAR RATE MEETS 1/2-HOUR RATING) - EXISTING 6X14 TIMBER FLOOR JOIST (NDS CH. 16 CALCULATED CHAR RATE MEETS 1/2-HOUR RATING) - ASSEMBLY FIRE RATING: 1/2 HOUR - FSTC: 45-49 FIIC: 45-47	- FINISH FLOORING (SEE FINISH PLANS FOR MATERIALS AND LOCATIONS OF FINISH MATERIALS) - NEW 1-1/2" GYPSUM CEMENT UNDERLAYMENT - NEW ACOUSTIC SOUND MAT (AT NON-CARPETED AREAS ONLY) - EXISTING 3" TIMBER SUBFLOORING (NDS CH. 16 CALCULATED CHAR RATE MEETS 1/2-HOUR RATING) - EXISTING 6X14 TIMBER FLOOR JOIST (NDS CH. 16 CALCULATED CHAR RATE MEETS 1/2-HOUR RATING) - ASSEMBLY FIRE RATING: 1/2 HOUR - FSTC: 45-49 FIIC: 45-47
BLDG. 8A @ ELEVATOR CORE	EXISTING CONCRETE SLAB-ON-GRADE	- EXISTING 3" CONCRETE SLAB - EXISTING 10" CLAY TILE INFILL - ASSEMBLY FIRE RATING: 1 HOUR	- EXISTING 3" CONCRETE SLAB - EXISTING 10" CLAY TILE INFILL - ASSEMBLY FIRE RATING: 1 HOUR
BLDG. 8B	EXISTING CONCRETE SLAB-ON-GRADE	- FINISH FLOORING (SEE FINISH PLANS FOR MATERIALS AND LOCATIONS OF FINISH MATERIALS) - NEW 1-1/2" GYPSUM CEMENT UNDERLAYMENT - NEW ACOUSTIC SOUND MAT (AT NON-CARPETED AREAS ONLY) - EXISTING 3" TIMBER SUBFLOORING (NDS CH. 16 CALCULATED CHAR RATE MEETS 1/2-HOUR RATING) - EXISTING 6X14 TIMBER FLOOR JOIST (NDS CH. 16 CALCULATED CHAR RATE MEETS 1/2-HOUR RATING) - ASSEMBLY FIRE RATING: 1/2 HOUR - FSTC: 45-49 FIIC: 45-47	



KEY PLAN

T 414.220.9640
751 N Jefferson St.
Suite 200
Milwaukee, WI 53202
CONSULTANTS

COMMUNITY WITHIN THE CORRIDOR - WEST BLOCK
2758 N. 33RD STREET
MILWAUKEE, WI 53210

SHEET TITLE: NEW WORK PLAN - LEVEL 01 - OVERVIEW ALL BUILDINGS

REVISIONS
1 10/09/20 ADDENDUM #1

SCALE	VARIES
PROJECT NUMBER	200102
SET TYPE	CONSTRUCTION DOCUMENTS
DATE ISSUED	9/25/20
SHEET NUMBER	A210W

PATCH and INFILL LEGEND

- CONCRETE FLOOR OPENING INFILL. SEE STRUCTURAL FOR INFILL CONDITIONS. V.I.F. EXACT SIZE AND LOCATIONS.
- CONCRETE FLOOR COSMETIC PATCH. V.I.F. EXACT SIZE AND LOCATIONS.
- WOOD FLOOR STRUCTURAL INFILL. SEE STRUCTURAL FOR INFILL CONDITIONS. V.I.F. EXACT SIZE AND LOCATIONS.

NEW WORK PLAN KEY NOTES - 1/8" PLANS

SEE PROJECT GENERAL CONDITIONS, GENERAL INFORMATION ON SHEET A001W AND SELECTIVE DEMOLITION, CUTTING AND PATCHING SPECIFICATIONS THAT ARE USED IN ASSOCIATION WITH THESE NOTES.

NEW WORK PLAN KEY NOTES APPLY TO ALL 1/8" NEW WORK DRAWINGS AND MAY NOT BE USED ON EVERY SHEET.

001 SEE UNIT 137 ENLARGED PLAN.
002 SEE UNIT 125 ENLARGED PLAN.
003 SEE UNIT 113 ENLARGED PLAN.
004 SEE UNIT 136 ENLARGED PLAN. UNIT MAY BE MIRRORED.
005 SEE UNIT 149 ENLARGED PLAN.
006 SEE UNIT 131 ENLARGED PLAN.
007 SEE UNIT 132 ENLARGED PLAN.
008 SEE UNIT 232 ENLARGED PLAN.
009 SEE UNIT 251 ENLARGED PLAN.
010 SEE UNIT 146 ENLARGED PLAN.
011 SEE UNIT 151 ENLARGED PLAN.
012 SEE UNIT 252 ENLARGED PLAN.
013 SEE UNIT 242 ENLARGED PLAN.
014 SEE UNIT 128 ENLARGED PLAN. UNIT MAY BE MIRRORED.
015 SEE UNIT 122 ENLARGED PLAN.
016 SEE UNIT 227 ENLARGED PLAN.
017 SEE UNIT 111 ENLARGED PLAN.
018 SEE UNIT 217 ENLARGED PLAN.
019 SEE UNIT 124 ENLARGED PLAN.
020 SEE UNIT 224 ENLARGED PLAN.
021 SEE UNIT 223 ENLARGED PLAN.
022 SEE UNIT 109 ENLARGED PLAN.
023 SEE UNIT 115 ENLARGED PLAN.
024 SEE UNIT 130 ENLARGED PLAN. UNIT MAY BE MIRRORED.
025 SEE UNIT 215 ENLARGED PLAN.
026 SEE UNIT 205 ENLARGED PLAN.
027 SEE UNIT 314 ENLARGED PLAN.
028 SEE UNIT 139 ENLARGED PLAN.
029 SEE UNIT 140 ENLARGED PLAN.
030 SEE UNIT 207 ENLARGED PLAN.
031 SEE UNIT 213 ENLARGED PLAN. UNIT TO INCLUDE AUDIO AND VISUAL ALARM DEVICES FOR THE HEARING AND VISUALLY IMPAIRED. COORDINATE LOCATION WITH ELECTRICAL DRAWINGS.
032 SEE UNIT 147 ENLARGED PLAN.
033 SEE UNIT 1214 ENLARGED PLAN.
034 SEE WITH 006 ENLARGED PLAN.
035 NEW CONCRETE ON METAL DECK INFILL WITH SPRAY-APPLIED FIRE RESISTIVE MATERIAL AT NEW STEEL BEAMS AND ANGLES TO MAINTAIN FLOOR ASSEMBLY FIRE RATING. SEE OVERVIEW FLOOR PLANS FOR REQUIRED FLOOR ASSEMBLY FIRE RATINGS. SEE STRUCTURAL FOR DETAIL.
036 NEW CONCRETE INFILL AT EXISTING PIT. MATCH ADJACENT FLOOR LEVEL, FINISH AND TEXTURE.
037 PATCH AND REPAIR DAMAGED CONCRETE SLAB. MATCH ADJACENT FLOOR LEVEL, FINISH AND SURFACE TEXTURE.
038 NEW TIMBER FLOOR DECK INFILL TO MATCH EXISTING. SEE STRUCTURAL
039 NEW CONCRETE INFILL SLAB AT EXISTING SUNKEN STAIR PIT. MATCH ADJACENT FLOOR LEVEL, FINISH AND SURFACE TEXTURE.
040 PATCH & REPAIR CONCRETE SLAB WHERE EMBEDDED METAL PLATES AND/OR METAL TRENCH COVERS WERE REMOVED. FILL AND LEVEL WITH NEW CONCRETE TO MATCH ADJACENT SURFACE LEVEL AND FINISH TEXTURE. FEATHER CONCRETE TO LEVEL AT EXISTING METAL FLOOR OPENING FRAMES IF PRESENT.
041 NEW INFILL WALL & PRECAST SILL TO REBUILD WINDOW OPENING. SEE ELEVATIONS. TOOTH IN SALVAGED BRICK WITH NEW MORTAR TO MATCH ADJACENT HISTORIC MASONRY.
042 NEW INFILL WALL TO REBUILD WINDOW & DOOR OPENING. TOOTH IN SALVAGED MASONRY WITH NEW MORTAR TO MATCH ADJACENT HISTORIC MASONRY. PARGE SURFACES TO MATCH ADJACENT HISTORIC PARGE IF PRESENT.
043 NEW PARTIAL INFILL WALL ASSEMBLY TO REBUILD OPENING IN EXISTING WALL BELOW SILL AT FLOOR LEVEL. SEE ELEVATIONS. TOOTH IN SALVAGED BRICK WITH NEW MORTAR TO MATCH ADJACENT HISTORIC MASONRY. SEE DETAIL 7/A510W FOR WALL ASSEMBLY
044 PATCH & REPAIR DAMAGED WALL OPENING AT SILL. TOOTH IN SALVAGED BRICK WITH NEW MORTAR AND PROVIDE NEW SILL TO MATCH ADJACENT HISTORIC MASONRY.
045 PATCH & REPAIR DAMAGED AND MISSING PLASTER RETURNS AT JAMB, HEAD AND SILL TO MATCH EXISTING RETURNS. SEE WINDOW DETAILS. AT THESE WALLS THERE WILL BE A FURRING WITH 5/8" GWB EXTENDING FROM FLOOR TO TOP OF WALL AT UNDERSIDE OF STRUCTURE.
046 PATCH & REPAIR DAMAGED AND MISSING PLASTER WOOD LATH FURRING WALL. PATCH AND REPAIR EXISTING RADIUSED PLASTER RETURN PROFILES IF DAMAGED AT JAMB, HEAD AND SILL TO MATCH EXISTING RETURNS AT ADJACENT WINDOWS OF THE SAME TYPE.
047 NEW GYPSUM BOARD INFILL WALL ASSEMBLY AT EXISTING OPENING. SEE DETAIL 1/A710W.
048 NEW CMU INFILL WALL ASSEMBLY AT EXISTING OPENING. SEE DETAIL 2/A710W.
049 NEW GYPSUM BOARD INFILL WALL ASSEMBLY AT EXISTING NON-HISTORIC WALL OPENING. MATCH EXISTING WALL ASSEMBLY WIDTH AND ADJACENT SURFACE FINISH.
050 NEW METAL PANEL INFILL WALL ASSEMBLY AT EXISTING EXTERIOR MASONRY WALL OPENING. SEE DETAIL 5/A510W.

NEW WORK PLAN KEY NOTES - 1/8" PLANS

SEE PROJECT GENERAL CONDITIONS, GENERAL INFORMATION ON SHEET A001W AND SELECTIVE DEMOLITION, CUTTING AND PATCHING SPECIFICATIONS THAT ARE USED IN ASSOCIATION WITH THESE NOTES.

NEW WORK PLAN KEY NOTES APPLY TO ALL 1/8" NEW WORK DRAWINGS AND MAY NOT BE USED ON EVERY SHEET.

051 NEW METAL PANEL WALL ASSEMBLY AT EXISTING WINDOW OPENING. SEE DETAIL 5/A510W.
052 EXISTING HISTORIC SLIDING FIRE DOOR ASSEMBLY TO REMAIN. SECURE SLIDING DOOR IN A FULLY OPEN POSITION WITH METAL Z-BRACKETS. PREPARE ENTIRE ASSEMBLY FOR PAINTED FINISH.
053 EXISTING HISTORIC SLIDING FIRE DOOR ASSEMBLY TO REMAIN. SECURE SLIDING DOOR IN A CLOSED POSITION WITH METAZ Z-BRACKETS. PREPARE ENTIRE ASSEMBLY FOR NEW PAINTED FINISH.
054 REINSTALL SALVAGED HISTORIC SLIDING FIRE DOOR ASSEMBLY AND HARDWARE FROM THIS OPENING TO NEW ORIENTATION AS SHOWN. SECURE SLIDING DOOR IN A CLOSED POSITION WITH METAL Z-BRACKETS. PREPARE ENTIRE ASSEMBLY FOR NEW PAINTED FINISH.
055 EXISTING HISTORIC COILING OVERHEAD DOOR ASSEMBLY TO REMAIN. SECURE COILING DOOR IN A FULLY OPEN POSITION. PREPARE ENTIRE ASSEMBLY FOR PAINTED FINISH.
056 EXISTING HISTORIC COILING OVERHEAD DOOR ASSEMBLY TO REMAIN. SECURE COILING DOOR IN A FULLY CLOSED POSITION. PREPARE ENTIRE ASSEMBLY FOR PAINTED FINISH.
057 EXISTING HISTORIC OVERHEAD DOOR ASSEMBLY TO REMAIN. REPAIR TRACK AND HARDWARE TO RETURN DOOR TO OPERATING CONDITION. PREPARE ENTIRE ASSEMBLY FOR PAINTED FINISH.
058 EXISTING STEEL SASH WINDOW ASSEMBLY TO REMAIN. PREPARE ENTIRE ASSEMBLY FOR PAINTED FINISH. REPLACE BROKEN OR MISSING PANES OF GLASS WITH NEW GLASS TO MATCH EXISTING.
059 NEW OPENING IN EXISTING CMU WALL. TOOTH IN NEW CMU AND MORTAR TO MATCH EXISTING.
060 EXISTING GLAZED WALL TILE TO REMAIN. PROTECT DURING CONSTRUCTION.
061 TUCKPOINT AND REPAIR EXISTING CHIMNEY TO MACH EXISTING MATERIALS. SEE EXTERIOR MASONRY REPORT AND DRAWINGS.
062 EXISTING WOOD SINGLE HUNG WINDOW FRAME, SASH AND ALL CASING/TRIM TO REMAIN. PREPARE EXISTING INTERIOR & EXTERIOR SURFACES FOR NEW PAINT. REPLACE MISSING AND/OR BROKEN GLASS TO MATCH EXISTING AND INSTALL NEW GLAZING PUTTY AT ALL PANES. INSTALL NEW INTERIOR STORM WINDOWS. SEE DETAIL 13A/510W.
063 ALIGN EDGE OF DEMISING WALL WITH EDGE OF HISTORIC MASONRY OPENING.
064 ALIGN CENTER OF DEMISING WALL OR PARTITION WITH CENTERLINE OF HISTORIC COLUMN, OR BEAM ABOVE.
065 ALIGN EDGE OF DEMISING WALL WITH EDGE OF HISTORIC CONCRETE DROP SLAB.
066 ALIGN CENTER OF DEMISING WALL PARTITION WITH CENTERLINE OF WINDOW MULLION.
067 ALIGN EDGE OF DEMISING WALL WITH OUTER EDGE OF LIGHT MONITOR VOLUME.
068 ALIGN CENTER OF DEMISING WALL OR PARTITION WITH CENTER OF HISTORIC SKYLIGHT MULLION ABOVE.
069 NEW 3'X7' ACCESS DOOR W/ 3 HR RATING @ WALL TO ABANDONED MECHANICAL TUNNEL.
070 NEW CONCRETE SLAB AT EXISTING STOOP TO MATCH FLOOR HEIGHT AT BUILDING 7. SEE STRUCTURAL.
071 EXISTING WOOD STAIR, GUARD AND HANDRAILS TO REMAIN. PREP ALL SURFACES FOR NEW PAINT.
072 EXISTING WOOD STAIR, GUARD AND HANDRAIL TO REMAIN. REPAIR/REPLACE MISSING BEAD BOARD HANDRAIL SUPPORT AND STAIR RUN FROM LEVEL 01 TO 1ST LANDING TO MATCH EXISTING HISTORIC CONDITION PERSENT. PROVIDE NEW STEEL HANDRAILS AT EXISTING CMU WALLS. PREP ALL SURFACES FOR NEW PAINT.
073 EXISTING CONCRETE STAIR, CMU GUARD WALL AND HANDRAIL TO REMAIN. PREP ALL SURFACES FOR NEW FINISHES.
074 PROVIDE NEW EGRESS BARRIER GATE AT EXISTING STEEL GUARDRAIL, EXISTING CONCRETE STAIR, STEEL GUARDRAIL AND HANDRAIL TO REMAIN. PREP ALL SURFACES FOR NEW FINISHES.
075 NEW CHAINLINK FENCE & GATES W/ PRIVACY SLATS.
076 BUILD TYPE PK UNIT DEMISING WALL WITH RESILIENT CHANNEL ON THIS SIDE.
077 LAYER GYPCRETE TOPPING + SF SLOPE MAT TO MEET EXISTING FINISH LEVEL AT TRANSITION AREA TO STAIRS OR BETWEEN BUILDINGS.
078 NEW TAPERED POLISHED EPOXY FLOOR TOPPING TO TRANSITION FLOOR FINISH LEVEL CHANGE BETWEEN BUILDINGS 6 & 7. TAPER 1:20 SLOPE MAX.
079 PATCH AND REPAIR DAMAGED AND MISSING EXTERIOR STUCCO TO MATCH ADJACENT SURFACE.

GENERAL FLOOR PLAN NOTES TO CONTRACTOR

1. THIS DRAWING IS FURTHER SUPPORTED BY INFORMATION CONTAINED IN THE SPECIFICATION MANUAL.
2. THE CIVIL, STRUCTURAL, MECHANICAL, ELECTRICAL, PLUMBING, FIRE PROTECTION, AUDIO-VISUAL, AND SECURITY DRAWINGS ARE SUPPLEMENTARY TO THE ARCHITECTURAL DRAWINGS. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE THE INFORMATION CONTAINED IN ALL THE DRAWINGS BEFORE THE INSTALLATION OF ALL WORK.
3. DO NOT SCALE DRAWINGS. CONTRACTOR TO VERIFY ALL CONDITIONS AND DIMENSIONS AT THE JOB SITE PRIOR TO COMMENCING CONSTRUCTION.
4. FLOOR ELEVATIONS ARE TO THE TOP OF THE SUB-FLOOR MATERIAL UNLESS OTHERWISE NOTED.
5. CONTRACTORS SHALL JOINTLY PROVIDE AND INSTALL ALL STIFFENERS, BRACING, BACKING PLATES, WALL BLOCKING AND SUPPORTING BRACKETS REQUIRED FOR THE INSTALLATION OF CASEWORK, TOILET ACCESSORIES, PARTITIONS, MILLWORK, AND ALL WORK MOUNTED OR SUSPENDED BY ALL TRADES.

NEW WORK PLAN LEGEND

- EXISTING, TO REMAIN
- MASONRY PARTITION, SEE PARTITION TYPES FOR DETAILS
- METAL STUD PARTITION, SEE PARTITION TYPES FOR DETAILS TYPE A3 –A U.N.O.
- METAL STUD PARTITION, SEE PARTITION TYPES FOR DETAILS TYPE P6 1HR - A U.N.O.
- X NEW WORK KEY NOTE

T 414.220.9640
751 N Jefferson St.
Suite 200
Milwaukee, WI 53202
CONSULTANTS

COMMUNITY WITHIN THE CORRIDOR - WEST BLOCK
2758 N. 33RD STREET
MILWAUKEE, WI 53210

SHEET TITLE: NEW WORK PLAN - LEVEL 01 - BUILDINGS 4 & 5

REVISIONS:
1 10/09/20 ADDENDUM #1

SCALE	VARIES
PROJECT NUMBER	200102
SET TYPE	CONSTRUCTION DOCUMENTS
DATE ISSUED	9/25/20
SHEET NUMBER	A211W

1 NEW WORK PLAN - LEVEL 01 - BUILDINGS 4 & 5
Scale: 1/8" = 1'-0"
0' 2' 4' 8' 12'

KEY PLAN

ATTACHMENT D

Passive Air Sampling Test Results

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8/16/2023
Mr. Robert Reineke
K Singh & Associates
3636 N 124th St

Wauwatosa WI 53222

Project Name: CWC - West Block SR
Project #: 40443A
Workorder #: 2308061

Dear Mr. Robert Reineke

The following report includes the data for the above referenced project for sample(s) received on 8/3/2023 at Eurofins Air Toxics LLC.

The data and associated QC analyzed by Passive S.E. RAD130/SKC are compliant with the project requirements or laboratory criteria with the exception of the deviations noted in the attached case narrative.

Thank you for choosing Eurofins Air Toxics LLC. for your air analysis needs. Eurofins Air Toxics Inc. is committed to providing accurate data of the highest quality. Please feel free to contact the Project Manager: Jade White at 916-985-1000 if you have any questions regarding the data in this report.

Regards,

Jade White

Project Manager

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WORK ORDER #: 2308061

Work Order Summary

CLIENT:	Mr. Robert Reineke K Singh & Associates 3636 N 124th St Wauwatosa, WI 53222	**BILL TO:**	Mr. Robert Reineke K Singh & Associates 3636 N 124th St Wauwatosa, WI 53222
PHONE:		**P.O. #**	
FAX:		**PROJECT #**	40443A CWC - West Block SR
DATE RECEIVED:	08/03/2023	**CONTACT:**	Jade White
DATE COMPLETED:	08/16/2023		

FRACTION #	NAME	TEST
01A	IA-4-1A	Passive S.E. RAD130/SKC
02A	IA-4-1B	Passive S.E. RAD130/SKC
03A	IA-4-1C	Passive S.E. RAD130/SKC
04A	IA-4-1D	Passive S.E. RAD130/SKC
05A	IA-4-1E	Passive S.E. RAD130/SKC
06A	IA-4-1F	Passive S.E. RAD130/SKC
07A	IA-4-BS	Passive S.E. RAD130/SKC
08A	IA-5-1A	Passive S.E. RAD130/SKC
09A	IA-5-1B	Passive S.E. RAD130/SKC
10A	OA-4/5	Passive S.E. RAD130/SKC
11A	IA-6-BS	Passive S.E. RAD130/SKC
12A	IA-8-1D	Passive S.E. RAD130/SKC
13A	Lab Blank	Passive S.E. RAD130/SKC
14A	CCV	Passive S.E. RAD130/SKC
15A	LCS	Passive S.E. RAD130/SKC
15AA	LCSD	Passive S.E. RAD130/SKC

CERTIFIED BY: Heidi Hayes DATE: 08/16/23

Technical Director

Certification numbers: AZ Licensure AZ0775, FL NELAP – E87680, LA NELAP – 02089, NH NELAP – 209222, NJ NELAP - CA016, NY NELAP - 11291, TX NELAP – T104704434-22-18, UT NELAP – CA009332022-14, VA NELAP - 12240, WA ELAP - C935
Name of Accreditation Body: NELAP/ORELAP (Oregon Environmental Laboratory Accreditation Program) CA300005-017
Eurofins Environment Testing Northern California, LLC certifies that the test results contained in this report meet all requirements of the 2016 TNI Standard.

180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95630
(916) 985-1000 . (800) 985-5955 . FAX (916) 351-8279

LABORATORY NARRATIVE
RAD130 Passive SE by Mod EPA TO-17
K Singh & Associates
Workorder# 2308061

Twelve Radiello 130 (Solvent) samples were received on August 03, 2023. The laboratory analyzed the charcoal sorbent bed of the passive sampler following modified method EPA TO-17. The VOCs were chemically extracted using carbon disulfide and an aliquot of the extract was injected into a GC/MS for identification and quantification of volatile organic compounds (VOCs).

The mass of each target compound adsorbed by the sampler was converted to units of concentration using the sample deployment time and the sampling rate for each VOC. If sampling rates were calculated by the lab or the manufacturer, the concentration result has been flagged as an estimated value. Results are not corrected for desorption efficiency.

The reference method used for this procedure is EPA TO-17, which describes the collection of VOCs in ambient air using sorbents and analysis by GC/MS. Because TO-17 describes active sample collection using a pump and thermal desorption as the preparation step, several modifications are required. Modifications to TO-17 are listed in the table below:

Requirement	***TO-17***	***ATL Modifications***
Sample Collection	Pump pulls measured air volume through sorbent tube	VOCs in air adsorbed onto sorbent bed passively through diffusion
Sample Preparation	Thermal extraction	Solvent extraction
Sorbent tube conditioning	Condition newly packed tubes prior to use	Charcoal-based sorbent is a single use media and conditioning is conducted by vendor.
Instrumentation	Thermal desorption introduction system	Liquid injection introduction system
Internal Standard	Gas-phase internal standard introduced on the tube or focusing trap during analysis	Liquid-phase internal standard introduced on the tube at the time of extraction
Media and sample storage	<4 deg C, 30 days	Media shelf life is determined by vendor; sample hold-time is 6 months for the RAD130 and WMS. Sample preservation requirements are storage in a cool, solvent-free refrigerator and optional use of ice during shipping.
Internal Standard Recovery	+/-40% of daily CCV area	-50% to +100% of daily CCV area

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

The uptake rates were corrected based on average field temperatures if provided. In the absence of field temperatures, the uptake rates determined at 25 deg C were used.

If validated uptake rates were not available, rates were estimated using the chemical's diffusion coefficient in air and the geometric constant of the sampler. Chemicals that are poorly retained by the sorbent over the sampling duration may exhibit a low bias. All concentrations calculated using estimated rates are qualified with a "C" flag.

To calculate ug/m3 concentrations in the Lab Blank, a sampling duration of 15814 minutes was applied. The assumed temperature used for the uptake rate is listed on the data page. If the field temperatures were provided, the rate was adjusted in the same manner as the field samples.

Definition of Data Qualifying Flags

Ten qualifiers may have been used on the data analysis sheets and indicate as follows:

B - Compound present in laboratory blank greater than reporting limit (background subtraction not performed).

J - Estimated value.

E - Exceeds instrument calibration range.

S - Saturated peak.

Q - Exceeds quality control limits.

U - Compound analyzed for but not detected above the reporting limit.

UJ- Non-detected compound associated with low bias in the CCV

N - The identification is based on presumptive evidence.

C - Estimated concentration due to calculated sampling rate

CN - See case narrative explanation.

File extensions may have been used on the data analysis sheets and indicates as follows:

a-File was requantified

b-File was quantified by a second column and detector

r1-File was requantified for the purpose of reissue

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Summary of Detected Compounds
VOCS BY PASSIVE SAMPLER - GC/MS

Client Sample ID: IA-4-1A

Lab ID#: 2308061-01A

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
trans-1,2-Dichloroethene	0.20	0.26	0.45 C	0.58 C

Client Sample ID: IA-4-1B

Lab ID#: 2308061-02A

No Detections Were Found.

Client Sample ID: IA-4-1C

Lab ID#: 2308061-03A

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
trans-1,2-Dichloroethene	0.20	0.26	0.48 C	0.62 C

Client Sample ID: IA-4-1D

Lab ID#: 2308061-04A

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
trans-1,2-Dichloroethene	0.20	0.26	0.37 C	0.48 C

Client Sample ID: IA-4-1E

Lab ID#: 2308061-05A

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
trans-1,2-Dichloroethene	0.20	0.26	0.41 C	0.53 C

Client Sample ID: IA-4-1F

Lab ID#: 2308061-06A

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
trans-1,2-Dichloroethene	0.20	0.26	0.44 C	0.57 C

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Summary of Detected Compounds
VOCS BY PASSIVE SAMPLER - GC/MS

Client Sample ID: IA-4-BS

Lab ID#: 2308061-07A

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
trans-1,2-Dichloroethene	0.20	0.26	0.27 C	0.35 C

Client Sample ID: IA-5-1A

Lab ID#: 2308061-08A

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Tetrachloroethene	0.10	0.13	0.13	0.17
trans-1,2-Dichloroethene	0.20	0.26	0.33 C	0.43 C

Client Sample ID: IA-5-1B

Lab ID#: 2308061-09A

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Tetrachloroethene	0.10	0.13	0.17	0.23
trans-1,2-Dichloroethene	0.20	0.26	0.50 C	0.66 C

Client Sample ID: OA-4/5

Lab ID#: 2308061-10A

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Tetrachloroethene	0.10	0.14	0.21	0.30
trans-1,2-Dichloroethene	0.20	0.29	0.33 C	0.47 C

Client Sample ID: IA-6-BS

Lab ID#: 2308061-11A

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
trans-1,2-Dichloroethene	0.20	0.21	0.22 C	0.23 C

Client Sample ID: IA-8-1D

Lab ID#: 2308061-12A

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Summary of Detected Compounds
VOCS BY PASSIVE SAMPLER - GC/MS

Client Sample ID: IA-8-1D

Lab ID#: 2308061-12A

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
trans-1,2-Dichloroethene	0.20	0.28	0.36 C	0.51 C

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Client Sample ID: IA-4-1A

Lab ID#: 2308061-01A

VOCS BY PASSIVE SAMPLER - GC/MS

File Name:	**18080711sim**	**Date of Collection: 7/28/23 1:20:00 PM**	
Dil. Factor:	**1.00**	**Date of Analysis: 8/7/23 12:21 PM**	
		Date of Extraction: 8/7/23	

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Trichloroethene	0.10	0.11	Not Detected	Not Detected
Tetrachloroethene	0.10	0.13	Not Detected	Not Detected
cis-1,2-Dichloroethene	0.10	0.12	Not Detected C	Not Detected C
trans-1,2-Dichloroethene	0.20	0.26	0.45 C	0.58 C

C = Estimated concentration due to calculated sampling rate.

Temperature = 77.0F , duration time = 12873 minutes.
Container Type: Radiello 130 (Solvent)

Surrogates	%Recovery	Method Limits
Toluene-d8	96	70-130

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Client Sample ID: IA-4-1B

Lab ID#: 2308061-02A

VOCS BY PASSIVE SAMPLER - GC/MS

File Name:	**18080712sim**	**Date of Collection: 7/28/23 1:33:00 PM**	
Dil. Factor:	**1.00**	**Date of Analysis: 8/7/23 12:48 PM**	
		Date of Extraction: 8/7/23	

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Trichloroethene	0.10	0.11	Not Detected	Not Detected
Tetrachloroethene	0.10	0.13	Not Detected	Not Detected
cis-1,2-Dichloroethene	0.10	0.12	Not Detected C	Not Detected C
trans-1,2-Dichloroethene	0.20	0.26	Not Detected C	Not Detected C

C = Estimated concentration due to calculated sampling rate.

Temperature = 77.0F , duration time = 12863 minutes.
Container Type: Radiello 130 (Solvent)

Surrogates	%Recovery	Method Limits
Toluene-d8	95	70-130

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Client Sample ID: IA-4-1C

Lab ID#: 2308061-03A

VOCS BY PASSIVE SAMPLER - GC/MS

File Name:	**18080713sim**	**Date of Collection: 7/28/23 1:16:00 PM**	
Dil. Factor:	**1.00**	**Date of Analysis: 8/7/23 01:15 PM**	
		Date of Extraction: 8/7/23	

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Trichloroethene	0.10	0.11	Not Detected	Not Detected
Tetrachloroethene	0.10	0.13	Not Detected	Not Detected
cis-1,2-Dichloroethene	0.10	0.12	Not Detected C	Not Detected C
trans-1,2-Dichloroethene	0.20	0.26	0.48 C	0.62 C

C = Estimated concentration due to calculated sampling rate.

Temperature = 77.0F , duration time = 12857 minutes.
Container Type: Radiello 130 (Solvent)

Surrogates	%Recovery	Method Limits
Toluene-d8	95	70-130

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Client Sample ID: IA-4-1D

Lab ID#: 2308061-04A

VOCS BY PASSIVE SAMPLER - GC/MS

File Name:	**18080714sim**	**Date of Collection: 7/28/23 1:35:00 PM**
Dil. Factor:	**1.00**	**Date of Analysis: 8/7/23 01:42 PM**
		Date of Extraction: 8/7/23

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Trichloroethene	0.10	0.11	Not Detected	Not Detected
Tetrachloroethene	0.10	0.13	Not Detected	Not Detected
cis-1,2-Dichloroethene	0.10	0.12	Not Detected C	Not Detected C
trans-1,2-Dichloroethene	0.20	0.26	0.37 C	0.48 C

C = Estimated concentration due to calculated sampling rate.

Temperature = 77.0F , duration time = 12868 minutes.
Container Type: Radiello 130 (Solvent)

Surrogates	%Recovery	Method Limits
Toluene-d8	96	70-130

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Client Sample ID: IA-4-1E

Lab ID#: 2308061-05A

VOCS BY PASSIVE SAMPLER - GC/MS

File Name:	**18080715sim**	**Date of Collection: 7/28/23 1:22:00 PM**
Dil. Factor:	**1.00**	**Date of Analysis: 8/7/23 02:09 PM**
		Date of Extraction: 8/7/23

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Trichloroethene	0.10	0.11	Not Detected	Not Detected
Tetrachloroethene	0.10	0.13	Not Detected	Not Detected
cis-1,2-Dichloroethene	0.10	0.12	Not Detected C	Not Detected C
trans-1,2-Dichloroethene	0.20	0.26	0.41 C	0.53 C

C = Estimated concentration due to calculated sampling rate.

Temperature = 77.0F , duration time = 12892 minutes.
Container Type: Radiello 130 (Solvent)

Surrogates	%Recovery	Method Limits
Toluene-d8	96	70-130

eurofins | Air Toxics

Client Sample ID: IA-4-1F

Lab ID#: 2308061-06A

VOCS BY PASSIVE SAMPLER - GC/MS

File Name:	**18080716sim**	**Date of Collection: 7/28/23 1:18:00 PM**
Dil. Factor:	**1.00**	**Date of Analysis: 8/7/23 02:37 PM**
		Date of Extraction: 8/7/23

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Trichloroethene	0.10	0.11	Not Detected	Not Detected
Tetrachloroethene	0.10	0.13	Not Detected	Not Detected
cis-1,2-Dichloroethene	0.10	0.12	Not Detected C	Not Detected C
trans-1,2-Dichloroethene	0.20	0.26	0.44 C	0.57 C

C = Estimated concentration due to calculated sampling rate.

Temperature = 77.0F , duration time = 12865 minutes.
Container Type: Radiello 130 (Solvent)

Surrogates	%Recovery	Method Limits
Toluene-d8	95	70-130

eurofins | Air Toxics

Client Sample ID: IA-4-BS

Lab ID#: 2308061-07A

VOCS BY PASSIVE SAMPLER - GC/MS

File Name:	**18080717sim**	**Date of Collection: 7/28/23 2:34:00 PM**
Dil. Factor:	**1.00**	**Date of Analysis: 8/7/23 03:04 PM**
		Date of Extraction: 8/7/23

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Trichloroethene	0.10	0.11	Not Detected	Not Detected
Tetrachloroethene	0.10	0.13	Not Detected	Not Detected
cis-1,2-Dichloroethene	0.10	0.12	Not Detected C	Not Detected C
trans-1,2-Dichloroethene	0.20	0.26	0.27 C	0.35 C

C = Estimated concentration due to calculated sampling rate.

Temperature = 77.0F , duration time = 12905 minutes.
Container Type: Radiello 130 (Solvent)

Surrogates	%Recovery	Method Limits
Toluene-d8	96	70-130

eurofins | Air Toxics

Client Sample ID: IA-5-1A

Lab ID#: 2308061-08A

VOCS BY PASSIVE SAMPLER - GC/MS

File Name:	**18080718sim**	**Date of Collection: 7/28/23 1:05:00 PM**	
Dil. Factor:	**1.00**	**Date of Analysis: 8/7/23 03:31 PM**	
		Date of Extraction: 8/7/23	

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Trichloroethene	0.10	0.11	Not Detected	Not Detected
Tetrachloroethene	0.10	0.13	0.13	0.17
cis-1,2-Dichloroethene	0.10	0.12	Not Detected C	Not Detected C
trans-1,2-Dichloroethene	0.20	0.26	0.33 C	0.43 C

C = Estimated concentration due to calculated sampling rate.

Temperature = 77.0F , duration time = 12825 minutes.
Container Type: Radiello 130 (Solvent)

Surrogates	%Recovery	Method Limits
Toluene-d8	96	70-130

eurofins | Air Toxics

Client Sample ID: IA-5-1B

Lab ID#: 2308061-09A

VOCS BY PASSIVE SAMPLER - GC/MS

File Name:	**18080719sim**	**Date of Collection: 7/28/23 1:09:00 PM**	
Dil. Factor:	**1.00**	**Date of Analysis: 8/7/23 03:58 PM**	
		Date of Extraction: 8/7/23	

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Trichloroethene	0.10	0.11	Not Detected	Not Detected
Tetrachloroethene	0.10	0.13	0.17	0.23
cis-1,2-Dichloroethene	0.10	0.12	Not Detected C	Not Detected C
trans-1,2-Dichloroethene	0.20	0.26	0.50 C	0.66 C

C = Estimated concentration due to calculated sampling rate.

Temperature = 77.0F , duration time = 12834 minutes.
Container Type: Radiello 130 (Solvent)

Surrogates	%Recovery	Method Limits
Toluene-d8	96	70-130

eurofins | Air Toxics

Client Sample ID: OA-4/5

Lab ID#: 2308061-10A

VOCS BY PASSIVE SAMPLER - GC/MS

File Name:	**18080720sim**	**Date of Collection: 7/28/23 1:01:00 PM**
Dil. Factor:	**1.00**	**Date of Analysis: 8/7/23 04:26 PM**
		Date of Extraction: 8/7/23

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Trichloroethene	0.10	0.12	Not Detected	Not Detected
Tetrachloroethene	0.10	0.14	0.21	0.30
cis-1,2-Dichloroethene	0.10	0.14	Not Detected C	Not Detected C
trans-1,2-Dichloroethene	0.20	0.29	0.33 C	0.47 C

C = Estimated concentration due to calculated sampling rate.

Temperature = 77.0F , duration time = 11655 minutes.
Container Type: Radiello 130 (Solvent)

Surrogates	%Recovery	Method Limits
Toluene-d8	97	70-130

eurofins | Air Toxics

Client Sample ID: IA-6-BS

Lab ID#: 2308061-11A

VOCS BY PASSIVE SAMPLER - GC/MS

File Name:	**18080721sim**	**Date of Collection: 7/31/23 10:00:00 AM**	
Dil. Factor:	**1.00**	**Date of Analysis: 8/7/23 04:53 PM**	
		Date of Extraction: 8/7/23	

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Trichloroethene	0.10	0.092	Not Detected	Not Detected
Tetrachloroethene	0.10	0.11	Not Detected	Not Detected
cis-1,2-Dichloroethene	0.10	0.10	Not Detected C	Not Detected C
trans-1,2-Dichloroethene	0.20	0.21	0.22 C	0.23 C

C = Estimated concentration due to calculated sampling rate.

Temperature = 77.0F , duration time = 15814 minutes.
Container Type: Radiello 130 (Solvent)

Surrogates	%Recovery	Method Limits
Toluene-d8	95	70-130

eurofins | Air Toxics

Client Sample ID: IA-8-1D

Lab ID#: 2308061-12A

VOCS BY PASSIVE SAMPLER - GC/MS

File Name:	**18080722sim**	**Date of Collection: 7/28/23 12:58:00 PM**	
Dil. Factor:	**1.00**	**Date of Analysis: 8/7/23 05:20 PM**	
		Date of Extraction: 8/7/23	

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Trichloroethene	0.10	0.12	Not Detected	Not Detected
Tetrachloroethene	0.10	0.14	Not Detected	Not Detected
cis-1,2-Dichloroethene	0.10	0.14	Not Detected C	Not Detected C
trans-1,2-Dichloroethene	0.20	0.28	0.36 C	0.51 C

C = Estimated concentration due to calculated sampling rate.

Temperature = 77.0F , duration time = 11666 minutes.
Container Type: Radiello 130 (Solvent)

Surrogates	%Recovery	Method Limits
Toluene-d8	95	70-130

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Client Sample ID: Lab Blank

Lab ID#: 2308061-13A

VOCS BY PASSIVE SAMPLER - GC/MS

File Name:	**18080705sim**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 8/7/23 08:59 AM**	
		Date of Extraction: 8/7/23	

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Trichloroethene	0.10	0.092	Not Detected	Not Detected
Tetrachloroethene	0.10	0.11	Not Detected	Not Detected
cis-1,2-Dichloroethene	0.10	0.10	Not Detected C	Not Detected C
trans-1,2-Dichloroethene	0.20	0.21	Not Detected C	Not Detected C

C = Estimated concentration due to calculated sampling rate.

Temperature = 77.0F , duration time = 15814 minutes.
Container Type: Radiello 130 (Solvent)

Surrogates	%Recovery	Method Limits
Toluene-d8	94	70-130

eurofins | Air Toxics

Client Sample ID: CCV

Lab ID#: 2308061-14A

VOCS BY PASSIVE SAMPLER - GC/MS

File Name:	**18080702sim**	**Date of Collection: NA**
Dil. Factor:	**1.00**	**Date of Analysis: 8/7/23 07:39 AM**
		Date of Extraction: NA

Compound	%Recovery
Trichloroethene	106
Tetrachloroethene	104
cis-1,2-Dichloroethene	94
trans-1,2-Dichloroethene	95

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	107	70-130

eurofins | Air Toxics

Client Sample ID: LCS

Lab ID#: 2308061-15A

VOCS BY PASSIVE SAMPLER - GC/MS

File Name:	**18080703sim**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 8/7/23 08:06 AM**	
		Date of Extraction: 8/7/23	

Compound	%Recovery	Method Limits
Trichloroethene	105	70-130
Tetrachloroethene	97	70-130
cis-1,2-Dichloroethene	90	70-130
trans-1,2-Dichloroethene	96	70-130

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	99	70-130

eurofins | Air Toxics

Client Sample ID: LCSD

Lab ID#: 2308061-15AA

VOCS BY PASSIVE SAMPLER - GC/MS

File Name:	**18080704sim**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 8/7/23 08:33 AM**	
		Date of Extraction: 8/7/23	

Compound	%Recovery	Method Limits
Trichloroethene	107	70-130
Tetrachloroethene	97	70-130
cis-1,2-Dichloroethene	95	70-130
trans-1,2-Dichloroethene	101	70-130

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	98	70-130