

February 17, 2023

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

Subject: Proposed Additional Vapor Mitigation System Commissioning Plan for Community Within the Corridor – West Block 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) proposes an Additional Vapor Mitigation Commissioning plan for the west block property. KSingh requests that the WDNR review this response and grant approval to proceed with commissioning of the vapor mitigation system. A Technical Assistance Fee in the amount of \$700 is attached with this letter. KSingh requests a review by February 28, 2023.

Project Background

The Community Within the Corridor Limited Partnership has redeveloped the property into a mix of affordable housing, commercial spaces, and other amenities. The proposed development includes the following: The Corridor Lofts (64 Units), Creme City Lofts (36 Units) & 30 Square Townhomes (6 Units) and the Briggs Apartment Homes (91 Units) and a Community Service Facility which will include early childhood education, Science, Technology, Engineering, Art & Math after school programming, a health club (Basketball, Volleyball & Futsal, Skatepark), laundromat and a petite grocery store. The property has been rezoned Industrial Mix to facilitate development of the project. The subject property is owned by Community within the Corridor Limited Partnership (BRRTS #02-41-587376), is located at 3212 W. Center Street, 2727 N. 32nd Street, and 2758 N. 33rd Street, City of Milwaukee, Milwaukee County, Wisconsin. The three parcels total approximately 2.83 acres and are all zoned as IM – Industrial Mixed (1 and 2). The subject property is covered by one- to three-story buildings. Historically, the West Block of the facility served various industrial purposes for over 100 years (since 1920).

Between March and April of 2021, sub-slab vapor samples were collected throughout the West Block facility. Concentrations from sampling activities identified impacts beneath the sub-surface for future mitigation efforts.

Twenty-five (25) sub-slab vapor (SSV) points were installed at the West Block and tested for VOCs. Vapor results indicated the following:



Project # 40443A

- Tetrachloroethene (PCE) was detected at concentrations exceeding the Residential VRSL of 1400 ug/m3 at WB-SS-7 and at WB-SS-19.
- Trichloroethene (TCE) was detected at concentrations exceeding the Residential VRSL of 70 ug/m3 at WB-SS-4 and WB-SS-7.
- 1,4-Dioxane, a known constituent of chlorinated solvents, was detected at concentrations exceeding the Residential Vapor Risk Screening Level (VRSL) of 18 micrograms per cubic meter (ug/m3) at WB-SS-3.
- m&p-Xylene was detected at concentrations exceeding the Residential VRSL of 333 ug/m3 at WB-SS-23.
- No Large Commercial / Industrial VRSLs were exceeded.

The results of the sub-slab vapor sampling are shown on Figure 1.

Based on the results of SSV sampling, limited areas of Residential VRSL exceedances for chlorinated solvents and other VOCs were detected and delineated. Based on the levels of vapors and soil contamination, vapor mitigation of the known areas of vapor contamination is recommended. Pressure Field Extension (PFE) testing was performed in buildings 7 through 8A and 8B.

The vapor remedial action plan for the West Block included a second round of vapor sampling in the basement areas (including building 8A) and in buildings 4, 5 and 6 in August 2021 to determine the adequacy of the vapor system. Vapor sampling included additional sampling of sub-slab vapor points WB-SS-2, WB-SS-8, WB-SS-9, WB-SS-10, WB-SS-11, WB-SS-12, WB-SS-13, WB-SS-14, WB-SS-15, WB-SS-16, WB-SS-17, WB-SS-18, WB-SS-19, WB-SS-20, WB-SS-21, WB-SS-22, WB-SS-23, WB-SS-24, and WB-SS-25 where no Vapor Risk Screening Levels (VRSLs) were exceeded during the first round of sampling.

The findings of the second round of vapor sampling are summarized below.

- Sub-slab vapor sampling of WB-SS-2 in the basement of building 8A showed no exceedances of any VRSL.
- Sub-slab vapor sampling of WB-SS-8 and WB-SS-9 in the basement of building 6 showed no exceedances of any VRSL.

Installation and commissioning of the Vapor Mitigation System (VMS) in buildings 6, 7, 8A, and 8B is complete. The plans for the VMS system for the West Block complex are shown on Figure 1. This plan has been prepared to properly commission the VMS for the West Block buildings in accordance with guidance provided in WDNR publication RR-800 "Addressing Vapor Intrusion at Remediation & Redevelopment Sites in Wisconsin" dated January 2018.

Commissioning Findings of Buildings 6, 7, 8A, and 8B

The performance goals for Buildings 6, 7, 8A, and 8B are the following.

- Demonstrate a sub-slab depressurization of at least 0.004 inches water under the entire ground floor slab where vapors exceeding VRSLs were determined to be present.
- Demonstrate that there are no indoor air exceedances of VALs.
- Demonstrate that the ground floor slab acts as a barrier.

Three rounds of commissioning were performed in June 2022, September 2022, and December 2022 which



demonstrated that sub-slab depressurization of at least 0.004 inches of water was present under the entire ground floor and the ground floor slab was acting as a barrier. During the three rounds of commissioning, four passive air sample locations exceeded their respective VALs in at least one round of commissioning. One sample, IA-8A-01B, exceeded the VAL for PCE of 42 ug/m3 during the first round of commissioning in June 2022 and met the VAL on the subsequent two rounds of Commissioning. Three samples, IA-6-01A, IA-7-01A, and IA-8B-01B, exceeded the VAL of 2.1 ug/m3 for TCE during the second round of commissioning in September 2022 and met the VAL during the December 2022 round of Commissioning. These locations are proposed to be resampled until 3 consecutive rounds of sampling demonstrate compliance with VALs.

Additional Vapor Mitigation Commissioning Plan

The following Additional Commissioning Plan is proposed to consist of the following based on the assumption that results meet VALs:

- One round of passive air sampling performed at locations IA-8A-01B, IA-6-01A, IA-7-01A, and IA-8B-01B in February 2023. The locations of the proposed samples are included in Attachment A.
- Reporting of February passive air sample results in March 2023
- One round of passive air sampling at locations IA-6-01A, IA-7-01A, and IA-8B-01B in May 2023. The locations of the proposed samples are included in Attachment A.

Following completion of the May additional commissioning sampling, a report documenting findings will be submitted to WDNR in June 2023.

We request WDNR's approval of Additional Commissioning Plan. Please contact us if you have any questions or seek clarification regarding this submittal.

Sincerely,

K. SINGH & ASSOCIATES, INC.

Robert I Reineke

Robert T. Reineke, P.E. Project Manager

Ketit Nr luh

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

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

Attachments:

Figure 1 Layout vs VRSL Exceedance Plumes for VOCs

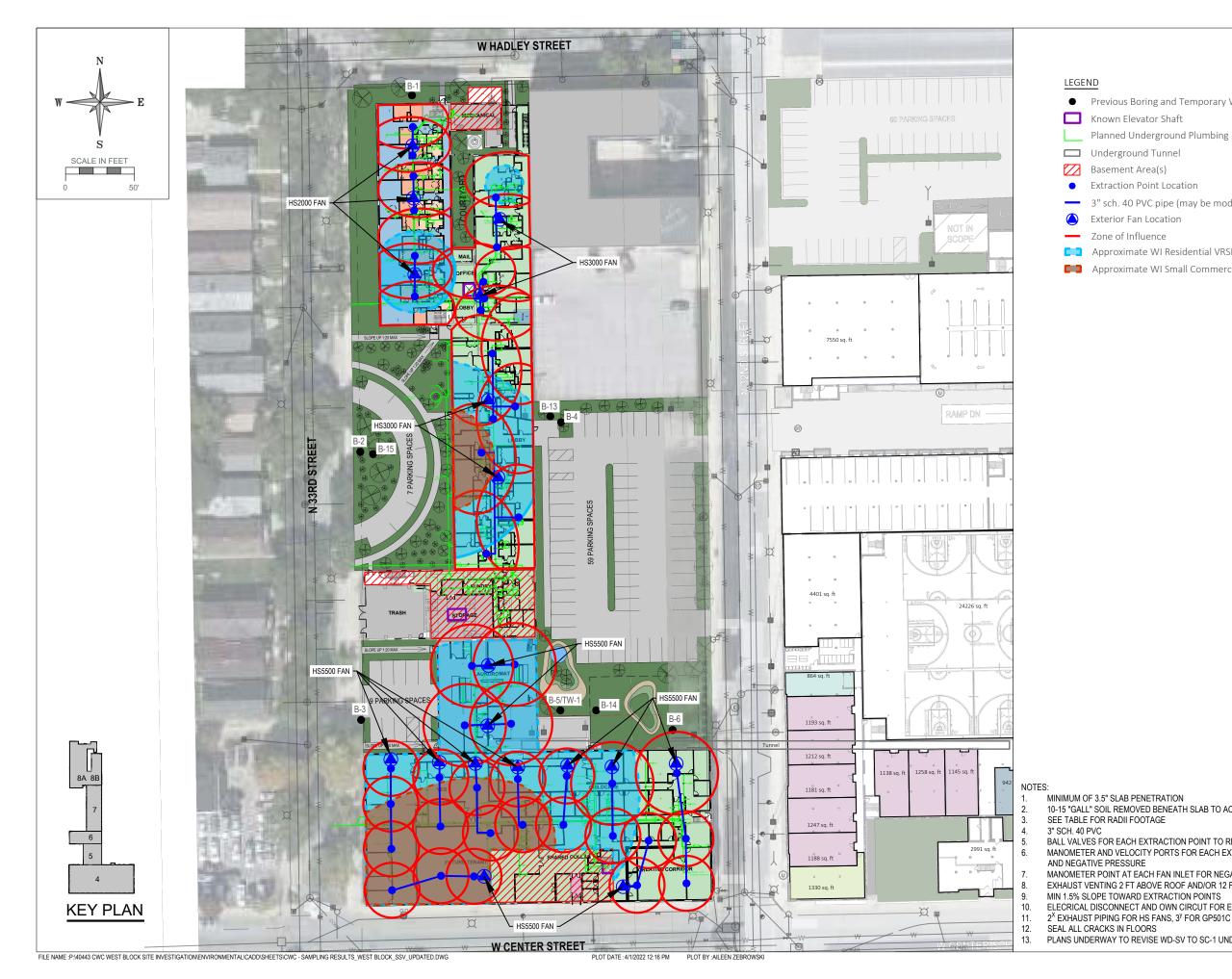
Attachment A Air Sampling Locations

Attachment B Professional Certifications



FIGURE





• Previous Boring and Temporary Well Locations

- Planned Underground Plumbing
- 3" sch. 40 PVC pipe (may be modified)
- Approximate WI Residential VRSL Exceedance Extents
- Approximate WI Small Commercial VRSL Exceedance Extents

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3636 North 124th Street Wauwatosa, WI 53222 262-821-1171

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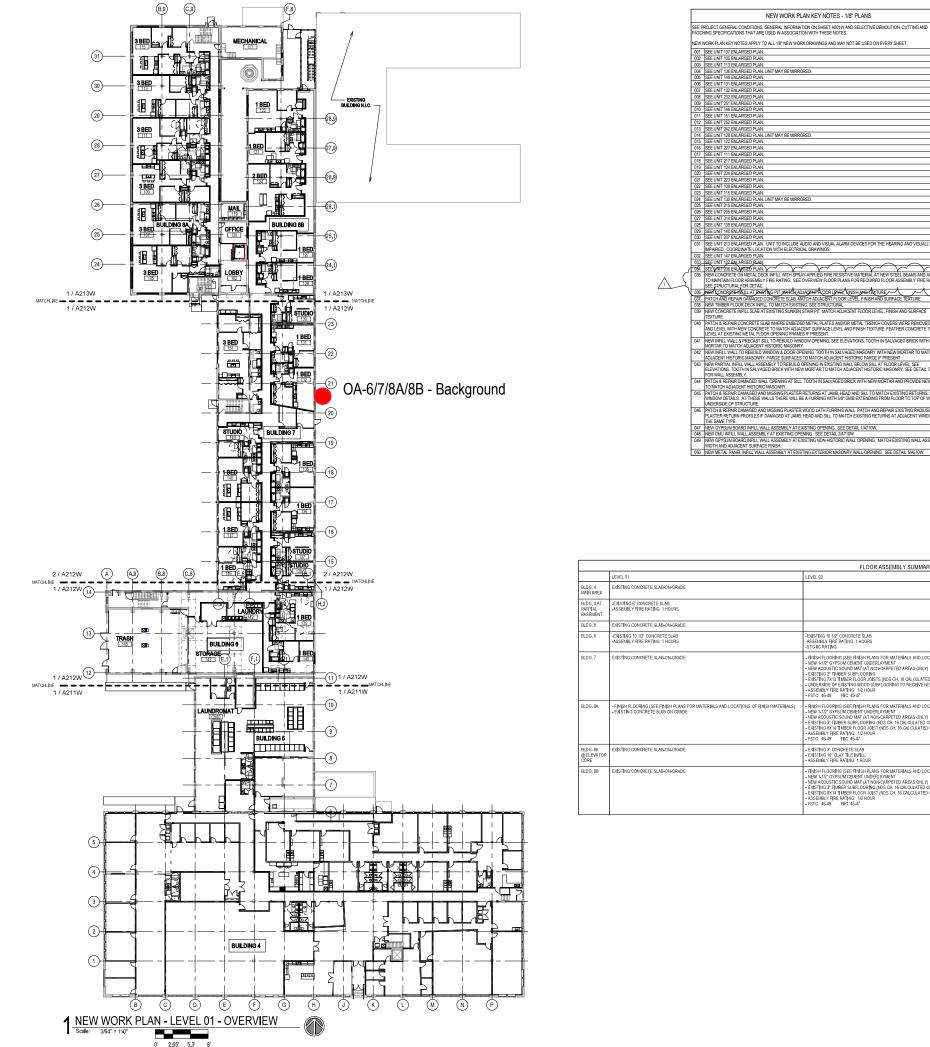


SHEET 6

ATTACHMENT A

Air Sampling Locations





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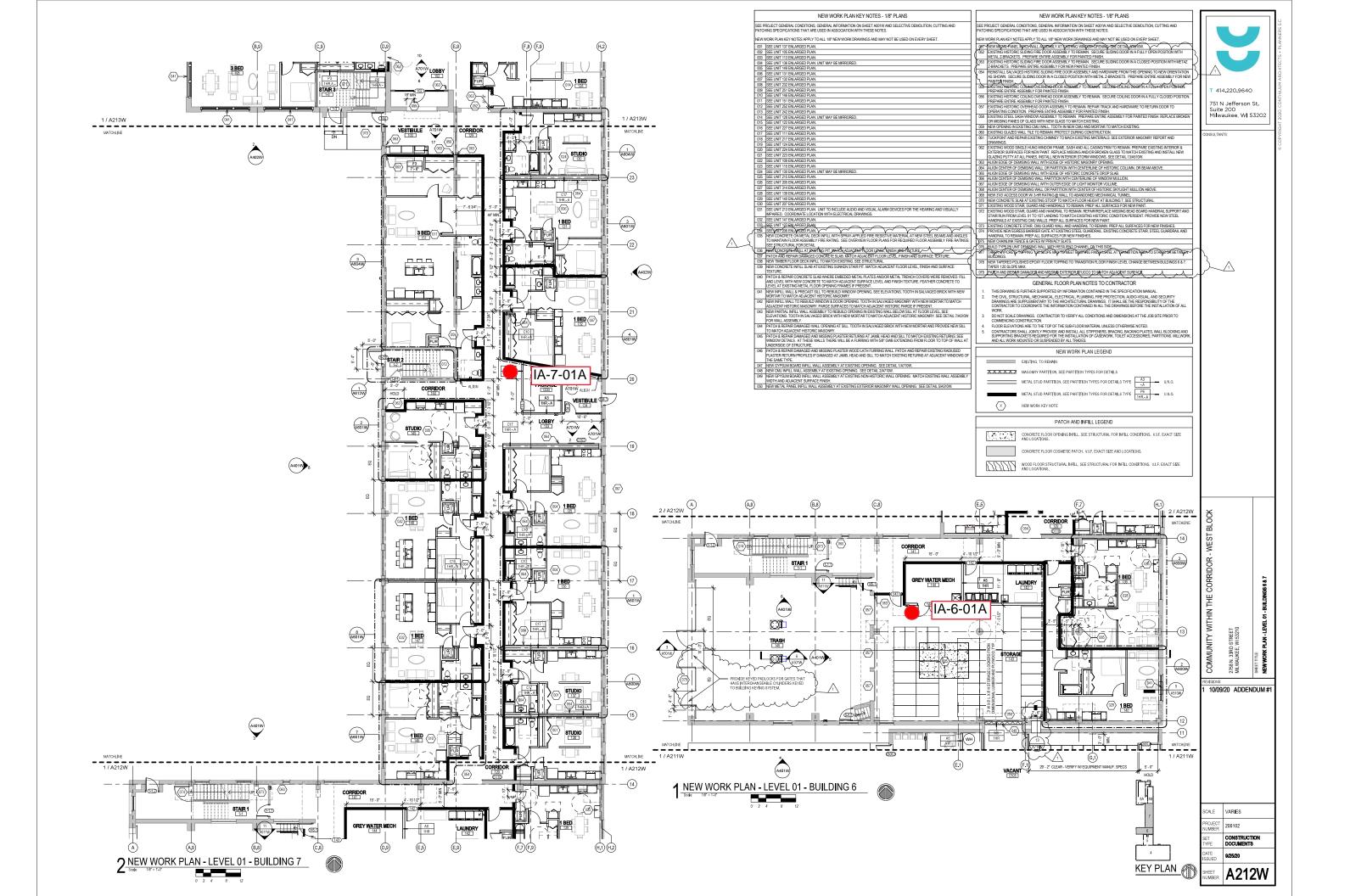
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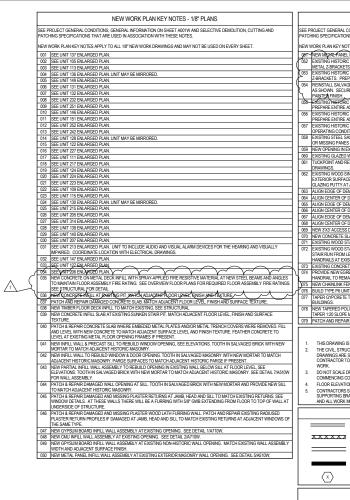
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		NEW WORK PLAN KEY NOTES - 1/8" PLANS	4				S.C.
C	HING SPECIFICATION	NDITIONS, GENERAL INFORMATION ON SHEET ADOW AND SELECTIVE DEMOLITION, CUTTING AND S THAT ARE USED IN ASSOCIATION WITH THESE NOTES.					IERS 9
		ES APPLY TO ALL 1.8" NEW WORK DRAWINGS AND MAY NOT BE USED ON EVERY SHEET.	\checkmark				1 ANN
2	EXISTING HISTORIC METAL Z-BRACKETS	SLIDING FIRE DOOR ASSEMBLY TO REMAIN. SECURE SLIDING DOOR IN A FULLY OPEN POSITION WITH PREPARE ENTIRE ASSEMBLY FOR PAINTED FINISH.	R				TS + P
3	EXISTING HISTORIC Z-BRACKETS. PREP	SLIDING FIRE DOOR ASSEMBLY TO REMAIN. SECURE SLIDING DOOR IN A CLOSED POSITION WITH MET/ ARE ENTIRE ASSEMBLY FOR NEW PAINTED FINISH.	К				HITEC.
4		ED HISTORIC SLIDING FIRE DOOR ASSEMBLY AND HARDWARE FROM THIS OPENING TO NEW ORIENTATI E SLIDING DOOR IN A CLOSED POSITION WITH METAL Z-BRACKETS, PREPARE ENTITIE ASSEMBLY FOR N A A A A A A A A A A A A A A A A A A A		$+^{1}$	7		COPYRIGHT 2020, CONTINUUM ARCHITECTS + PLANNERS
5	EXISTING HISTORIC PREPARE ENTIRE A	COLUMP OVERHEAD POOR ASSEMPLY TO REMARK. SECURE COLLING DOOR IN A FULLY OPEN POSITION SEMBLY FOR PAINTED FINISH.	1	т 4	414.220.964	40	NUUM
6	EXISTING HISTORIC PREPARE ENTIRE A	COILING OVERHEAD DOOR ASSEMBLY TO REMAIN. SECURE COILING DOOR IN A FULLY CLOSED POSITI SSEMBLY FOR PAINTED FINISH.	N.		N Jeffersc		ONTIN
7	EXISTING HISTORIC OPERATING CONDIT	OVERHEAD DOOR ASSEMBLY TO REMAIN. REPAIR TRACK AND HARDWARE TO RETURN DOOR TO ION. PREPARE ENTIRE ASSEMBLY FOR PAINTED FINISH.		Sui	te 200 waukee, W		20, C(
9	OR MISSING PANES	SH WINDOW ASSEMBLY TO REMAIN. PREPARE ENTIRE ASSEMBLY FOR PAINTED FINISH. REPLACE BROY OF GLASS WITH NEW GLASS TO MATCH EXISTING. ISTING CMU WALL TOOTH IN NEW CMU AND MORTAR TO MATCH EXISTING.	NI I			. 33202	HT 2C
0 1	EXISTING GLAZED V TUCKPOINT AND RE	US ING CARD WALE TO DITH IN NEW CARD AND AND MORTAR TO MATCH EXISTING. WALL TILE TO REMAIN. PROTECT DURING CONSTRUCTION. PARE EXISTING CHIINNEY TO MACH EXISTING MATERIALS. SEE EXTERIOR MASONRY REPORT AND		CONSULT	ANTS:		PYRIG
2	DRAWINGS. EXISTING WOOD SIN	IGLE HUNG WINDOW FRAME, SASH AND ALL CASING/TRIM TO REMAIN. PREPARE EXISTING INTERIOR &	-				© COF
3	EXTERIOR SURFACE GLAZING PUTTY AT	ES FOR NEW PAINT. REPLACE MISSING AND/OR BROKEN GLASS TO MATCH EXISTING AND INSTALL NEW ALL PANES. INSTALL NEW INTERIOR STORM WINDOWS. SEE DETAIL 13/A510W.					
3 4 5	ALIGN CENTER OF D	IISING WALL WITH EDGE OF HISTORIC MASONRY O'PENING. IEMISING WALL OR PARTITION WITH CENTERLINE OF HISTORIC COLUMN, OR BEAM ABOVE. IISING WALL WITH EDGE OF HISTORIC CONCRETE DROP SLAB.					
5 6 7	ALIGN CENTER OF D	IISING WALL WITH EDGE OF HISTORIC CONCRETE DROP SLAB. EMISING WALL PARTITION WITH CENTERLINE OF WINDOW MULLION. IISING WALL WITH OUTEREDGE OF LIGHT MONITOR VOLUME.		1			
, 8 9	ALIGN CENTER OF D	IISING WALL WITH OUTEREDGE OF LIGHT MUNTICK VOLUME. IEMISING WALL OR PARTITION WITH CENTER OF HISTORIC SKYLIGHT MULLION ABOVE. JOOR WI 3-HR RATING @ WALL TO ABANDONED MECHANICAL TUNNEL.					
)	NEW CONCRETE SL EXISTING WOOD ST	AB AT EXISTING STOOP TO MATCH FLOOR HEIGHT AT BUILDING 7. SEE STRUCTURAL. AIR, GUARD AND HANDRAILS TO REMAIN. PREP ALL SURFACES FOR NEW PAINT.	1				
2	EXISTING WOOD ST. STAIR RUN FROM LE	AIR, GUARD AND HANDRAIL TO REMAIN. REPAIRIREPLACE MISSING BEAD BOARD HANDRAIL SUPPORT A EVEL 01 TO 1ST LANDING TO MATCH EXISITNG HISTORIC CONDITION PERSENT. PROVIDE NEW STEEL	D				
3	HANDRAILS AT EXIS EXISTING CONCRET	ITING CMU WALLS. PREP ALL SURFACES FOR NEW PAINT. E STAIR, CMU GUARD WALL AND HANDRAIL TO REMAIN. PREP ALL SURFACES FOR NEW FINISHES.					
4	PROVIDE NEW EGRE HANDRAIL TO REMA	ESS BARRIER GATE AT EXISTING STEEL GUARDRAIL. EXISTING CONCRETE STAIR, STEEL GUARDRAIL AN IN. PREP ALL SURFACES FOR NEW FINISHES.		1			
5	BUILD TYPE P6 UNIT	NCE & GATES W/PRIVACY SLATS. DEMISING WALL WITH RESILIENT CHANNEL ON THIS SIDE. CORMING 4:00, DOE MAY TO INVECT EVICTIMA ENVIRUM LIVEL AT TRANSITION AREA TO STAIRE OR BETMET					
3	BUILDINGS.	OPPING 120 SLOPE MAX TO MEET EXISTING FINISH LEVEL AT TRANSITION AREA TO STAIRS OR BETWEE SHED EPOXY FLOOR TOPPING TO TRANSITION FLOOR FINISH LEVEL CHANGE BETWEEN BULDINGS 6 & 7	1	1			
)	TAPER 1:20 SLOPE N	SHED EFOXY FLOOR TOPPING TO TRANSITION FLOOR FINISH LEVEL CHANGE BETWEEN BULDINGS 6.8.7 (AX. DAMAGED AND MISSING EXTERIOR STUCCO TO MATCH ADJACENT SURFACE.	-	1			
		GENERAL FLOOR PLAN NOTES TO CONTRACTOR	Ĭ	1			
1.		FURTHER SUPPORTED BY INFORMATION CONTAINED IN THE SPECIFICATION MANUAL. TURAL, MECHANICAL, ELECTRICAL, PLUMBING, FIRE PROTECTION, AUDIO-VISUAL, AND SECURITY		1			
-	DRAWINGS ARE S CONTRACTOR TO	TURAL, MECHANICAL, ELECTRICAL, PLUMBING, FIRE PROTECTION, AUDIO-VISUAL, AND SECURITY UPPLEMENTARY TO THE ARCHITECTURAL DRAWINGS. IT SHALL BE THE RESPONSIBILITY OF THE COORDINATE THE INFORMATION CONTAINED IN ALL THE DRAWINGS BEFORE THE INSTALLATION OF AL		1			
8.	WORK. DO NOT SCALE D	RAWINGS. CONTRACTOR TO VERIFY ALL CONDITIONS AND DIMENSIONS AT THE JOB SITE PRIOR TO		1			
ŀ.	COMMENCING CC FLOOR ELEVATIO	INSTRUCTION. NS ARE TO THE TOP OF THE SUB-FLOOR MATERIAL UNLESS OTHERWISE NOTED.		1			
ń.	SUPPORTING BRA	HALL JOINTLY PROVIDE AND INSTALL ALL STIFFENERS, BRACING, BACKING PLATES, WALL BLOCKING AN ICKETS REQUIRED FOR THE INSTALLATION OF CASEWORK, TOLET ACCESSORIES, PARTITIONS. MILLWC OUNTED OR SUSPENDED BY ALL TRADES.	у Ж,				
		NEW WORK PLAN LEGEND	Ħ				
_		EXISTING, TO REMAIN		1			
	x x x x x x	MASONRY PARTITION, SEE PARTITION TYPES FOR DETAILS		1			
		METAL STUD PARTITION, SEE PARTITION TYPES FOR DETAILS TYPE A3 U.N.O.		1			
		METAL STUD PARTITION, SEE PARTITION TYPES FOR DETAILS TYPE P6 U.N.O.		1			
	$\langle \times \rangle$	NEW WORK KEY NOTE		1			
		PATCH AND INFILL LEGEND	Ĭ				
_	Electronic and	CONCRETE FLOOR OPENING INFILL SEE STRUCTURAL FOR INFILL CONDITIONS. V.I.F. EXACT SIZE					
		CONCRETE FLOOR OPENING INFILL SEES INCOLORAL FOR INFILL CONDITIONS. V.I.F. EARCH SIZE AND LOCATIONS.					
		CONCRETE FLOOR COSMETIC PATCH. VILF. EXACT SIZE AND LOCATIONS.					
	0000	WOOD FLOOR STRUCTURAL INFILL, SEE STRUCTURAL FOR INFILL CONDITIONS. V.I.F. EXACT SIZE AND LOCATIONS.					
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ATTACHMENT B

Professional Certifications



VAPOR MITIGATION SYSTEM COMMISSIONING – NR 712.09 CERTIFICATIONS ADDITIONAL VAPOR SYSTEM COMMISSIONING PLAN FOR COMMUNITY WITHIN THE CORRIDOR – WEST BLOCK 3212 W. Center St., 2727 N. 32nd St., and 2758 N. 33rd St., MILWAUKEE, WI 53210 BRRTS #: 02-41-587376, FID #: 341333190 February 17, 2023

This report was prepared by: Robert T. I

Robert T. Reineke, P.E. Senior Engineer

P.E. # 32737 – 006 Date: February 17, 2023

"I, Robert T. Reineke, hereby certify that I am a registered professional engineer in the State of Wisconsin, registered in accordance with the requirements of ch. A-E 4, Wis. Adm. Code; that this document has been prepared in accordance with the Rules of Professional Conduct in ch. A-E 8, Wis. Adm. Code; and that, to the best of my knowledge, all information contained in this document is correct and the document was prepared in compliance with all applicable requirements in chs. NR 700 to 726, Wis. Adm. Code."

Robert I Reinche

