



Certificate of Appropriateness

Milwaukee Historic Preservation Commission/841 N Broadway/Milwaukee, WI 53202/phone 414-286-5712

Property
Description of work

3233 E Kenwood

Lake Park Garage and Stables, North Point North

Install HVAC equipment as shown, except that concentric vents through stucco gable ends are prohibited. All concentric vents must be routed through the roof and be black. Fresh air intake vents shall be painted to match surrounding materials.

Date issued

4/24/2024

Under the provisions of Section 320-21 (11) and (12) of the Milwaukee Code of Ordinances, the Milwaukee Historic Preservation Commission has granted a certificate of appropriateness for the work listed above. The work was found to be consistent with preservation guidelines. The following conditions apply to this certificate of appropriateness: N/A

Fresh air intake vents shall be painted to match surrounding materials.

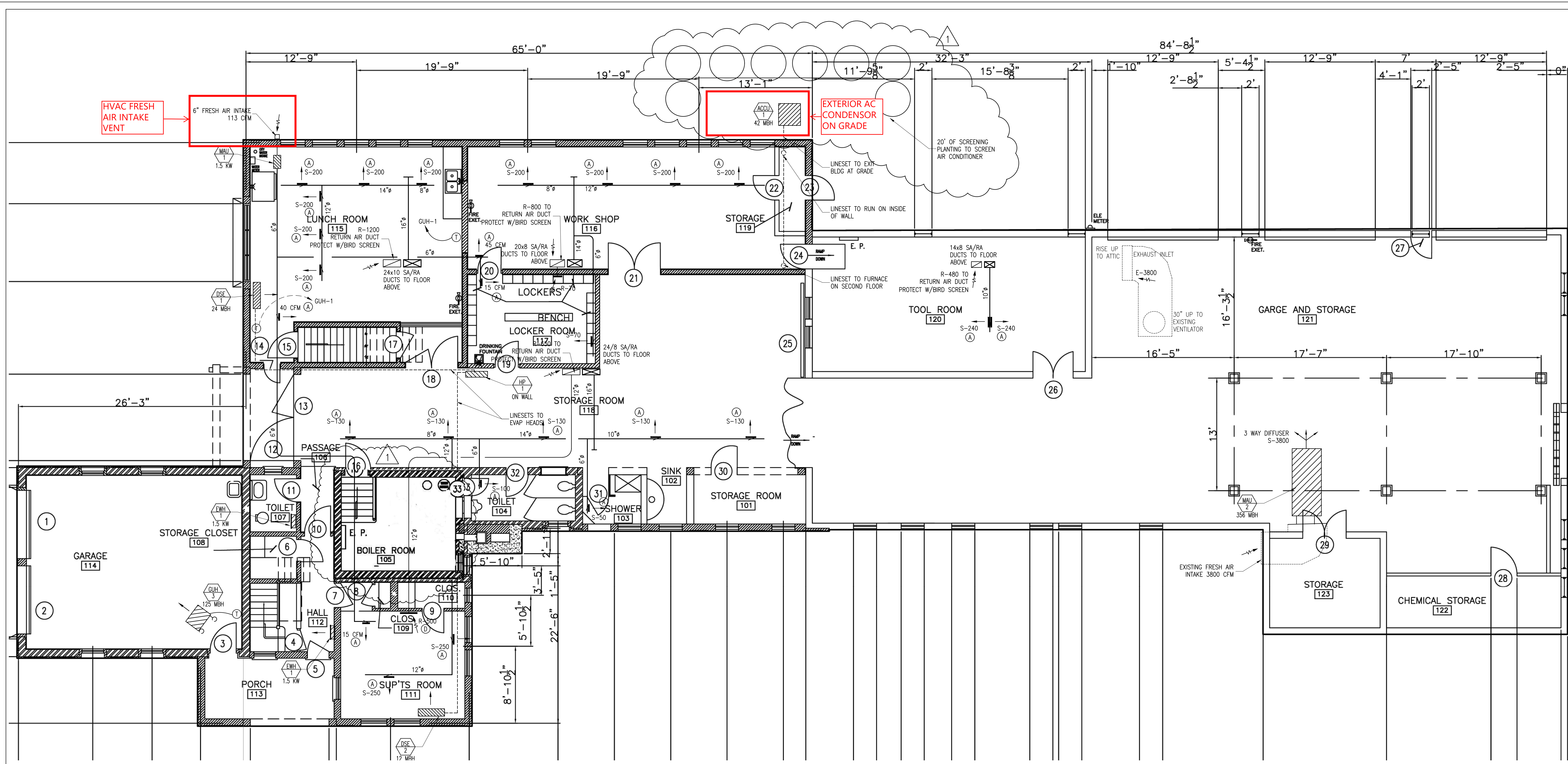
All work must be done in a craftsman-like manner. Staff must approve any changes or additions to this certificate before work begins. Work that is not completed in accordance with this certificate may be subject to correction orders or citations. If you require technical assistance, please contact Historic Preservation staff as follows: Phone: (414) 286-5712 E-mail: hpc@milwaukee.gov.

Permits and timeline

You are responsible for determining if permits are required and obtaining them prior to commencing work. Consult the Development Center on the web or by telephone for details www.milwaukee.gov/lms (414) 286-8210. If permits are not required, work must be completed within one year of the date this certificate was issued. If permits are required, permits must be obtained within one year of the date this certificate was issued.

10 pages total

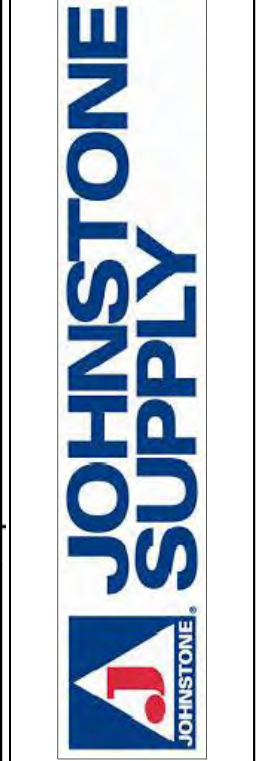
City of Milwaukee Historic Preservation




MECHANICAL FLOOR PLAN
 FIRST FLOOR HVAC PLAN SCALE: 3/16" = 1'-0"


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REVISIONS	
NO.	DATE
1	3/5/24

CONTRACTOR:
Artega Construction



LAKE PARK SERVICE BUILDING
3233 EAST KENWOOD BLVD, MILWAUKEE, WI

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 8/30/23
 EXPIRES 1/31/26

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SHEET	M-1
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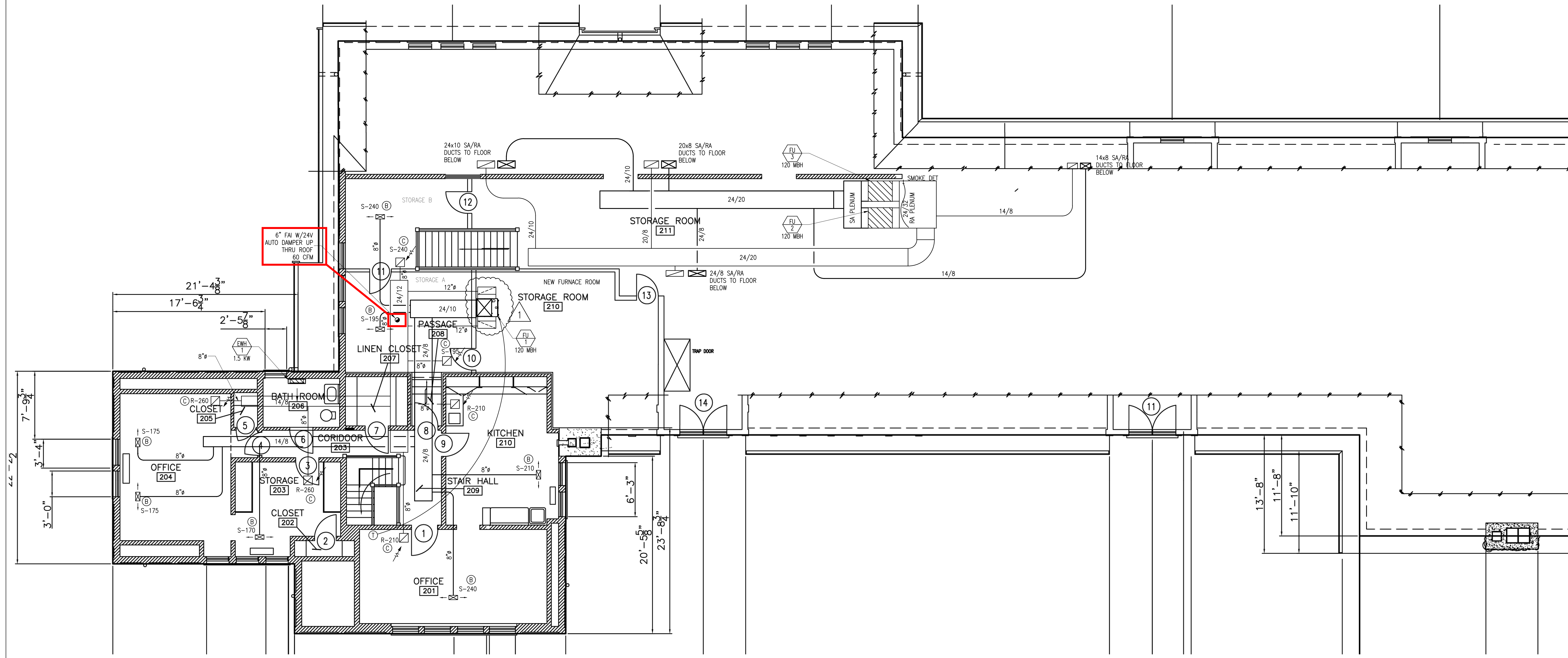
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LAKE PARK SERVICE BUILDING
3233 EAST KENWOOD BLVD, MILWAUKEE, WI

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MECHANICAL FLOOR PLAN
SECOND FLOOR HVAC PLAN SCALE: 3/16" = 1'-0"

GENERAL NOTES

- PLANS ARE SCHEMATIC IN NATURE. LAYOUT OF DUCTWORK IS BASED ON THE BEST AVAILABLE INFORMATION. THE CONTRACTOR SHALL FIELD VERIFY ALL STRUCTURAL CONDITIONS FOR CEILING SPACE AND EXACT DUCTWORK ROUTING PRIOR TO FABRICATION.
- ALL WORK SHALL COMPLY WITH STATE AND LOCAL CODES.
- CONTRACTOR SHALL VERIFY EXACT LOCATION OF EQUIPMENT, DUCTWORK AND PIPING AT JOBSITE.
- INSTALL ALL MATERIAL AND EQUIPMENT PER MANUFACTURERS INSTRUCTIONS.
- CONTRACTORS NEED PRIOR APPROVAL FOR QUOTING ALTERNATIVE EQUIPMENT. ALTERNATIVE EQUIPMENT MAY REQUIRE OPTIONAL ACCESSORIES TO MATCH BASE BID EQUIPMENT. CONTRACTORS ARE RESPONSIBLE FOR FURNISHING ALL SUCH ITEMS. PROVIDE OWNER WITH ALL OPERATING AND MAINTENANCE MANUALS.
- ALL DUCTWORK PENETRATIONS TO EXTERIOR SHALL BE SEALED WATERTIGHT.
- ALL DUCTWORK SHALL BE INSTALLED PER SMACNA REQUIREMENTS.
- INSTALL TURNING VANES, AIR EXTRACTORS, AND VOLUME DAMPERS AS REQUIRED.
- COORDINATE DIFFUSER LOCATION WITH LIGHTING LAYOUT.
- LOW VOLTAGE WIRING SHALL BE BY HVAC CONTRACTOR.
- ALL COMMERCIAL SYSTEMS SHALL BE EQUIPPED WITH AUTOMATIC CONTROLS THAT WILL SHUT OFF THE SYSTEM OR SETBACK THE SETPOINT TO UNOCCUPIED CONDITIONS.
- ALL GAS PIPING SHALL BE BY HVAC CONTRACTOR. ALL GAS PIPING AND GAS PIPING INSTALLATIONS SHALL COMPLY WITH NFPA 54, NATIONAL FUEL GAS CODE AS REQUIRED BY SPS 365.0400.
- COMMERCIAL DUCTWORK IN UNCONDITIONED SPACES SHALL HAVE A MIN. R-6 INSULATION. ALL COMMERCIAL DUCTWORK OUTSIDE OF THE BUILDING SHALL HAVE A MIN. R-12 INSULATION. (IECC C403.2.9)
- TESTING AND BALANCING OF SYSTEM SHALL BE BY INSTALLING CONTRACTOR.

AIR BALANCING:
ALL SYSTEMS SHALL BE BALANCED TO WITHIN +10% TO -5% OF THE CFM SHOWN. READINGS SHALL BE TAKEN AND TABULATED AT ALL GRILLES, REGISTERS, ETC. AND FOR ALL SYSTEMS AND UNITS. ALL SYSTEMS SHALL BE IDENTIFIED AS TO SERVICE MANUFACTURER, MODEL #, RPM, HORSEPOWER, VOLTAGE, AMPERAGE ETC. COPY OF REPORT SHALL BE SUBMITTED TO DESIGN PROFESSIONAL BEFORE COMPLIANCE STATEMENT CAN BE SIGNED.

- OUTSIDE AIR INTAKE SHALL BE A MIN. 10'-0" HORIZONTALLY FROM ANY BUILDING EXHAUST, VENTS, FLUES, PLUMBING VENTS, STREETS, ALLEYS, PARKING LOTS AND LOT LINES.
- INTAKE OPENINGS SHALL BE LOCATED NOT LESS THAN 3'-0" BELOW CONTAMINANT SOURCES WHERE SUCH SOURCES ARE LOCATED WITHIN 10'-0" OF THE OPENING.
- OUTSIDE AIR INTAKE SHALL BE A MIN 12" ABOVE GRADE, ADJOINING ROOF SURFACES OR BOTTOM OF AREAWAY. (IMC 401.4)
- MOTORIZED DAMPER ON OUTSIDE AIR INTAKE SHALL BE POWER OPEN, SPRING CLOSE. (IECC C403.2.4.3) MOTOR SHALL BE INTERLOCKED WITH EQUIPMENT "OCC" CYCLE.
- ENVIRONMENTAL EXHAUST TERMINATIONS TO BE LOCATED NOT LESS THAN 3'-0" FROM PROPERTY LINES, 3'-0" FROM OPERABLE OPENINGS INTO BUILDINGS, 10'-0" FROM MECHANICAL AIR INTAKES (IMC 501.3.1(3))
- VENTILATION EXHAUST TO BE INTERLOCKED WITH EQUIPMENT "OCC" CYCLE. (IMC 401.3)
- ROOMS WITHOUT RETURN AIR GRILLES OR TRANSFER GRILLES, SHALL HAVE DOORS WITH A 1" UNDERCUT. TO BE PERFORMED BY CONTRACTOR FOR RETURN AIR.
- DUCT SIZES LISTED ON PLANS SHALL BE THE REQUIRED CLEAR INTERIOR DIMENSION.
- VENTILATION SHALL CONFORM TO SPS 364.0403, TABLE 364.0403
- COMBUSTION AIR SHALL CONFORM TO IFGC 304, IMC CH. 7
- DIRECT VENT (SEALED COMBUSTION OR SEPARATED COMBUSTION) TERMINAL CLEARANCE REQ:
1. 12" ABOVE GRADE
2. 10,000 BTU'S OR LESS: 6" FROM OPERABLE WINDOWS AND DOORS
3. 10,001-50,000 BTU'S: 9" FROM OPERABLE WINDOWS AND DOORS
4. 50,000 BTU'S AND UP: 12" FROM OPERABLE WINDOWS AND DOORS
5. CONSULT INSTALLATION MANUAL (IFGC APPENDIX C, IMC 804.1)

- MECHANICAL DRAFT (FAN INDUCED DRAFT OR FAN FORCED DRAFT) VENT TERMINAL CLEARANCE REQ:
1. 12" ABOVE GRADE, 94" ABOVE A WALKWAY
2. 4' HORIZONTALLY OR BELOW OPERABLE WINDOWS AND DOORS
3. 12" ABOVE OPERABLE WINDOWS AND DOORS
4. 3'-0" ABOVE FORCED AIR INTAKES LESS THAN 10'-0" AWAY
5. 3'-0" FROM GAS METER
7. CONSULT INSTALLATION MANUAL (IMC 804.3)
- MECHANICAL DRAFT HORIZONTAL TERMINATIONS CLEARANCE REQUIREMENTS (PER IMC 804.3.4)

- 1. WHERE LOCATED ADJACENT TO WALKWAYS, THE TERMINATION OF MECHANICAL DRAFT SYSTEMS SHALL NOT BE LESS THAN 7 FEET ABOVE THE LEVEL OF THE WALKWAY
- 2. VENTS SHALL TERMINATE AT LEAST 3 FEET ABOVE ANY FORCED AIR INLET LOCATED WITHIN 10 FEET
- 3. THE VENT SHALL TERMINATE AT LEAST 4 FEET BELOW, 4 FEET HORIZONTALLY FROM OR 1 FOOT ABOVE ANY DOOR, WINDOW, OR GRAVITY AIR INLET FOR THE BUILDING
- 4. THE VENT TERMINATION POINT SHALL NOT BE LOCATED ANY CLOSER THAN 3 FEET TO AN INTERIOR CORNER FORMED BY TWO WALLS PERPENDICULAR TO EACH OTHER
- 5. THE VENT TERMINATION SHALL NOT BE MOUNTED DIRECTLY ABOVE OR WITHIN 3 FEET HORIZONTALLY FROM AN OIL TANK OR GAS METER
- 6. THE BOTTOM OF THE VENT TERMINATION SHALL BE LOCATED AT LEAST 12 INCHES ABOVE FINISHED GRADE

- MECHANICAL DRAFT VERTICAL TERMINATIONS CLEARANCE REQUIREMENTS (PER IMC 804.3.5)
- 1. WHERE LOCATED ADJACENT TO WALKWAYS, THE TERMINATION OF MECHANICAL DRAFT SYSTEMS SHALL NOT BE LESS THAN 7 FEET ABOVE THE LEVEL OF THE WALKWAY
- 2. VENTS SHALL TERMINATE AT LEAST 3 FEET ABOVE ANY FORCED AIR INLET LOCATED WITHIN 10 FEET HORIZONTALLY
- 3. WHERE THE VENT TERMINATION IS LOCATED BELOW AN ADJACENT ROOF STRUCTURE, THE TERMINATION POINT SHALL BE LOCATED AT LEAST 3 FEET FROM SUCH STRUCTURE.
- 4. THE VENT SHALL TERMINATE AT LEAST 4 FEET BELOW, 4 FEET HORIZONTALLY FROM OR 1 FOOT ABOVE ANY DOOR, WINDOW, OR GRAVITY AIR INLET FOR THE BUILDING
- 5. A VENT CAP SHALL BE INSTALLED TO PREVENT RAIN ENTERING THE VENT SYSTEM
- 6. THE VENT TERMINATION POINT SHALL BE LOCATED AT LEAST 3 FEET HORIZONTALLY FROM ANY PORTION OF THE ROOF STRUCTURE

- THERMOSTAT LOCATIONS SHALL BE REVIEWED BY OWNER, TENANT AND CONTRACTOR BEFORE INSTALLATION. CONTROLS SHALL BE LOCATED 48" ABOVE FINISHED FLOOR.
- PROVIDE RETURN AIR DUCT SMOKE DETECTOR FOR SYSTEMS OVER 2000 CFM PER IMC 606. DUCT SMOKE DETECTORS SHALL BE CONNECTED TO THE BUILDINGS FIRE ALARM CONTROL PANEL AND SHALL INITIATE A VISIBLE AND AUDIBLE SUPERVISORY SIGNAL UPON ACTIVATION. SMOKE DETECTION SYSTEM SHALL SHUT DOWN THE AIR DISTRIBUTION SYSTEM UPON ACTIVATION.

DUCT LOCATION	COOLING INSULATION R-VALUE	HEATING INSULATION R-VALUE
OUTDOORS	12.0	12.0
UNCONDITIONED SPACES	6.0	6.0
WITHIN BUILDING ENVELOPE	NONE REQUIRED	NONE REQUIRED

NOTE:
EXTERIOR IS OUTSIDE OF THE BUILDING ENVELOPE. ATTIC IS UNCONDITIONED SPACE
DUCTWORK IN RETURN AIR PLENUMS DO NOT REQUIRE INSULATION PROVIDED THE PLENUM IS INSULATED TO THE OUTSIDE TO A MINIMUM R-VALUE OF THE OUTDOOR DUCT REQUIREMENT (IECC C403.2.9.7.11)
ALL DUCTWORK EXTERIOR OF THE BUILDING MUST BE WEATHERTIGHT WITH AN APPROVED WEATHER COATING.
UNDERGROUND DUCT INSULATION MUST MEET UNCONDITIONED SPACE R-VALUE

SEALANT DUCT CONNECTION TYPE	UL LISTING
PRESSURE SENSITIVE TAPES	181A-P
MASTIC	181A-M
HEAT SENSITIVE TAPE	181A-H
FLEXIBLE AIR DUCT	181B-FX
FLEXIBLE AIR DUCT	181B-M

- ALL TRANSVERSE AND LONGITUDE SEAMS, JOINTS AND CONNECTIONS OF SUPPLY, RETURN AND EXHAUST DUCTS TO BE SECURELY FASTENED AND SEALED.
- DUCT PRESSURE CLASSIFICATIONS: LOW <=2" W.G., MEDIUM >2" BUT <3" AND HIGH PRESSURE >=3" OR GREATER. PLAN TO SHOW WHICH ONE WAS USED FOR DESIGN

TAG	SERVES	COMPRESSOR					CONDENSER		MFR.	MODEL No.	LOCATIONS/REMARKS
		MBH	REFRIG.	ER/SEER	UNLOADING STEPS	HOT GAS BYPASS	No. OF COMP.	AMB. YDB			
1	FU-1	42	R410A	13 SEER2	-	-	1	95F	GOODMAN	GSXN34210	DE: CAP7496104 AWR# 210567353

TAG	SERVES	HEATING		COOLING MBH	HP	CFM	O.A.	ESP	EFF	MFR	MODEL No.	REMARKS
		INPUT BTUH	OUTPUT BTUH									
1	2ND FLOOR	120,000	115,000	42	1	1400	75	.5	96%	GOODMAN	GM9596120	-
2	1ST FLOOR	120,000	96,000	-	1	1900	-	.5	80%	GOODMAN	GM95801205DN	-
3	1ST FLOOR	120,000	96,000	-	1	1900	-	.5	80%	GOODMAN	GM95801205DN	-

TAG	MBH		CFM	ATR	HP	RPM	MOUNT. HEIGHT	DISCHR. NOZZLE	MFR	MODEL No.	REMARKS
	INPUT	OUTPUT									
1	125	102	1980	48	1/8	675	8'-0" AFF	-	MODNE	HD6125A9111FA	-

TAG	SERVES	COMPRESSOR				CONDENSER		MFR.	MODEL No.	LOCATION/REMARKS	
		REFRIG.	SEER	UNLOADING STEPS	COOLING CAPACITY	HEATING CAPACITY	No. OF COMP.				
1	-	R410A	17.7	2	36 MBH	36 MBH	1	95F	DAIKIN	AMXS36RMVJUA	INSIDE WHSE

TAG	LOCATION	COOLING MBH	HTG KW	CFM	HP	TYPE	DIMENSIONS			MFR	MODEL No.	REMARKS
							LEN.	DPTH.	HT.			
1	LUNCH	24	-	-	-	WALL	41	10	13	DAIKIN	FTXS24LVJU	-
2	SUPT'S ROOM	12	-	-	-	WALL	31	9	12	DAIKIN	FTXS12LVJU	-

TAG	SERVICE	KW	BTUH	MOUNTING SURF/RECESS	MTG ABOVE FLOOR	MFR	MODEL	REMARKS

TAG	LOCATION	CFM	AIR TEMP	RISE	ESP	HP	MBH		MFR	MODEL No.	REMARKS
							INPUT	OUTPUT			
1	LUNCH	113	45F	.25	-	1.5 KW	1.5 KW	THERMOLEC	FER-6-1.5-240/1	-	
2	GARAGE	3800	80F	.25	-	356,200	327,704	MOONE	MOV3158X375	-	

No.	UNIT	LOCATION	SERVICE	KW	HP	F.L. AMPS	L.R. AMPS	STARTER No.	FORM	LOCATION	INTER-LOCKED W/No.	VOLT/PHASE	MCA	MOCP
2	FU-1	2ND FLOOR	-	-	-	-	-	NEAR UNIT	-	-	120 1φ	13.3	20	
3	FU-2	ATTIC	-	-	-	-	-	NEAR UNIT	-	-	120 1φ	15.3	20	
4	FU-3	ATTIC	-	-	-	-	-	NEAR UNIT	-	-	120 1φ	15.3	20	
5	MAU-2	SEE PLANS	-	1.5	-	6.3	-	NEAR UNIT	-	-	115 1φ	30	50	
6	GUH-1	SMALL GARAGE	-	-	1/8	2.2	-	NEAR UNIT	-	-	120 1φ	-	-	
7	HP-1	WHSE	-	-	-	-	-	WP DISCONNECT	-	-	230 1φ	23.9	25	
8	EW-1	SEE PLANS	-	1.5	-	-	-	INTEGRAL TO UNIT	-	-	230 1φ	-	-	
9	MAU-1	SEE PLANS	-	1.5	-	6.3	-	INTEGRAL TO UNIT	-	-	230 1φ	-	-	

TAG	LOCATION	THROW	MAX NC	NECK DIM.	FACE DIM.	MFR.	MODEL No.	REMARKS
B	SEE PLANS	5'	<35	12X6	14X8	H/C	92 VHV	W/OPP BLD DAMPER
C	SEE PLANS	-	<35	12X12	14X14	H/C	672	-
D	SEE PLANS	-	<35	16X16	18X18	H/C	672	-

NOTES/SCHEDULES

NOMENCLATURE
S-XXX.....SUPPLY AIR CFM
R-XXX.....RETURN AIR CFM
E-XXX.....EXHAUST AIR CFM
TR-XXX.....TRANSFER AIR CFM
TFA.....TO FLOOR ABOVE
TFB.....TO FLOOR BELOW
FFA.....FROM FLOOR ABOVE
FFB.....FROM FLOOR BELOW
AD.....AUTOMATIC DAMPER
FD.....FIRE DAMPER
FSD.....FIRE/SMOKE DAMPER
UC.....DOOR UNDERCUT

- ⊕.....POINT OF CONNECTION
- ①.....THERMOSTAT
- ②.....TEMPERATURE SENSOR
- ③.....HUMIDISTAT/DEHUMIDISTAT
- ④.....CARBON MONOXIDE SENSOR
- ⑤.....NITROGEN DIOXIDE SENSOR

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NO. DATE
1 3/5/24

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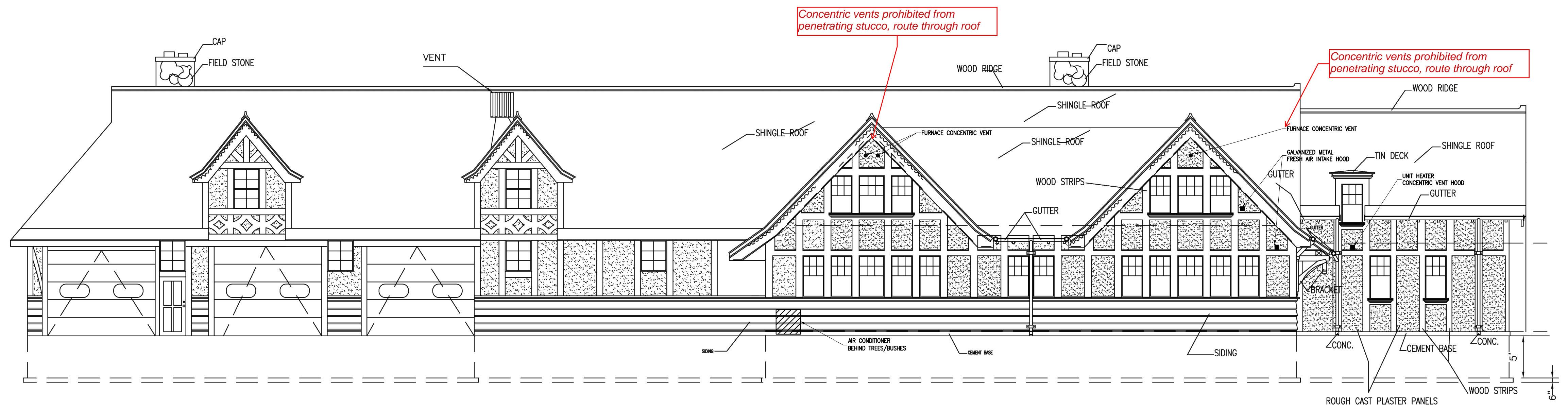
LAKE PARK SERVICE BUILDING
3233 EAST KENWOOD BLVD, MILWAUKEE, WI

PROJECT NO. 122422

DATE 8/30/23

SHEET M-3

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1 NORTH ELEVATION
5 SCALE: 1/8"=1'-0"

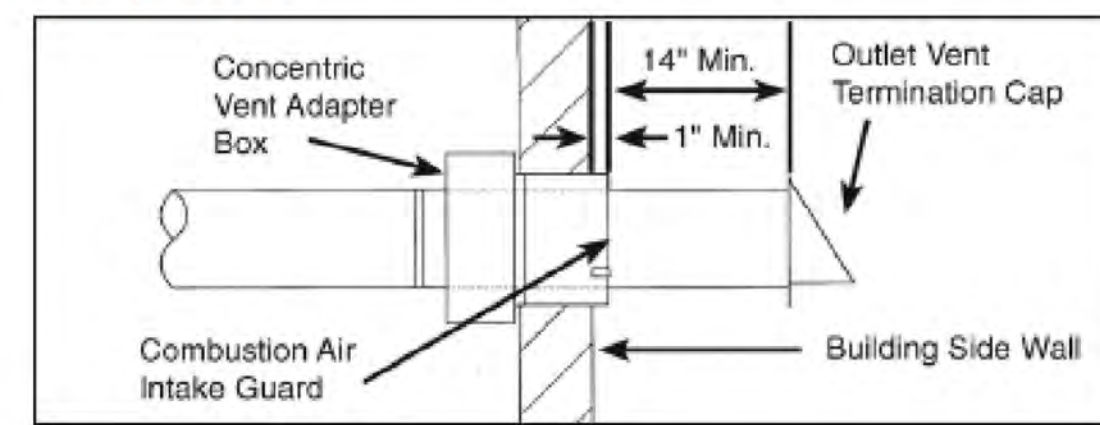


SIZE	A	B	W	H
3	6	6 1/4	5	3 1/4
4	6	6 1/4	5	3 1/4
5	7	7 3/4	6	3 3/4
6	8	8 3/4	7	4 1/4
7	9	9 3/4	8	4 3/4
8	10	10 3/4	9	5 1/4
10	13	12 1/2	12	6 1/2
12	15	14 1/2	14	7 3/4
14	17 1/2	17 1/4	16	9 1/4

FRESH AIR HOOD

- For Horizontally Vented Units (Refer to Figure 3.2):**
- Concentric adapter assembly (same for horizontal and vertical kits)
 - Special vent termination cap (part #5H75150B1)
 - Special inlet air guard

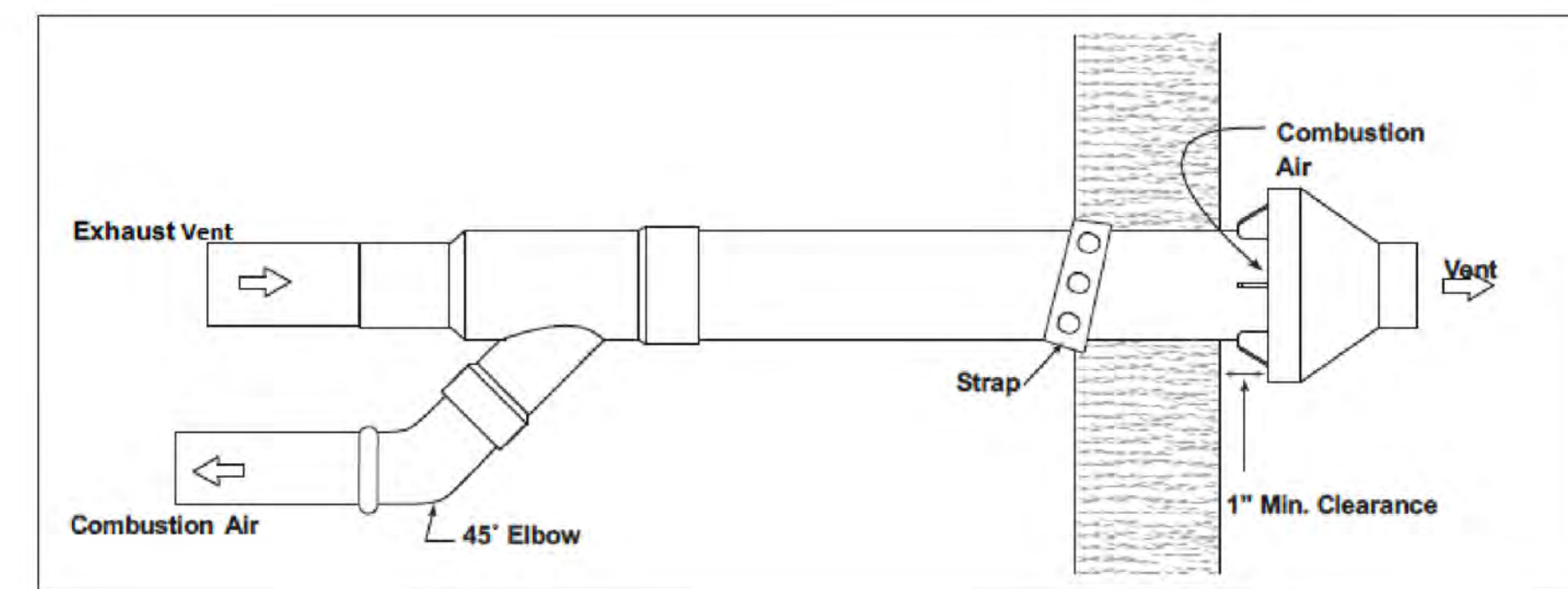
Figure 3.2 - Horizontal Concentric Vent Kit Components



GARAGE UNIT HEATER CONCENTRIC VENT KIT



Concentric vents shall be installed through roof rather than walls and be black or painted to match roof shingle color



FURNACE CONCENTRIC KIT

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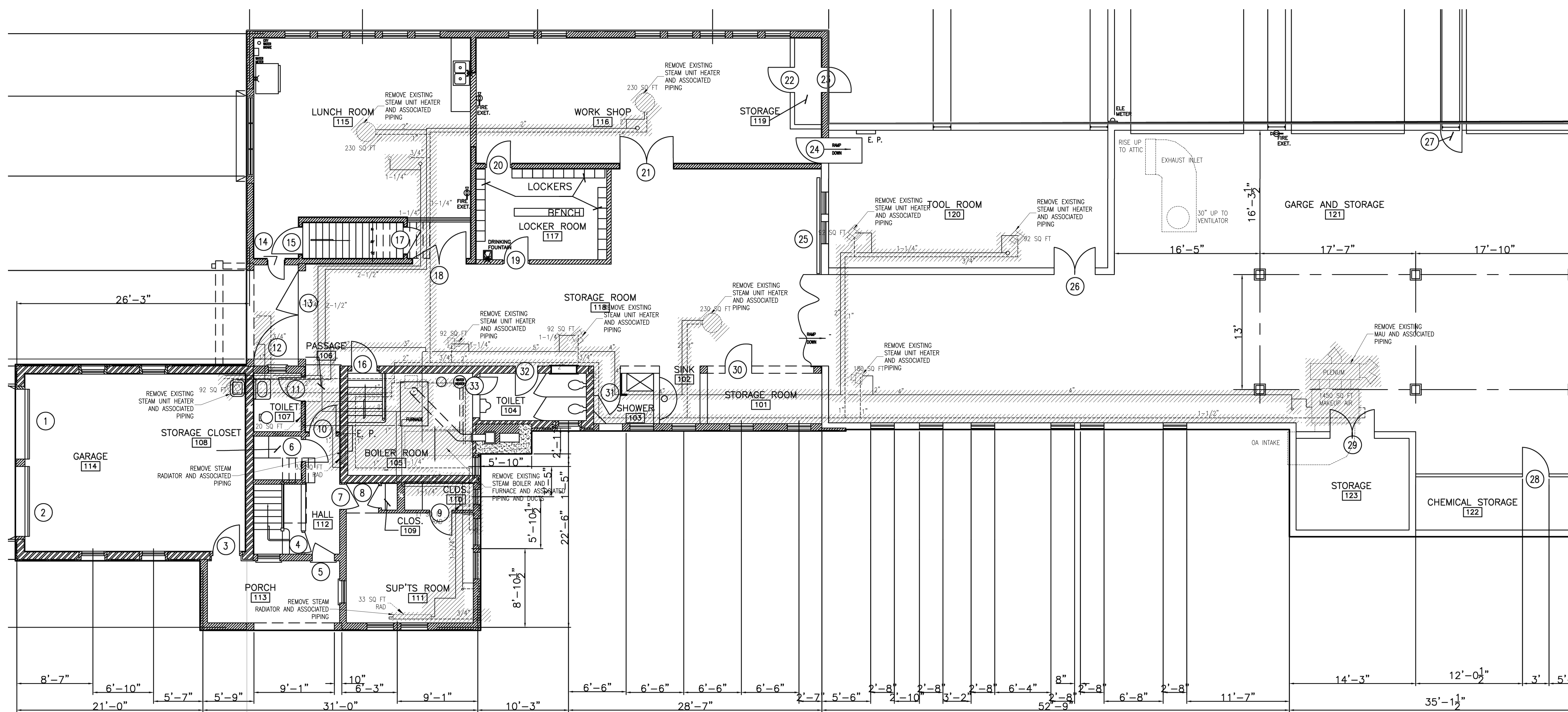
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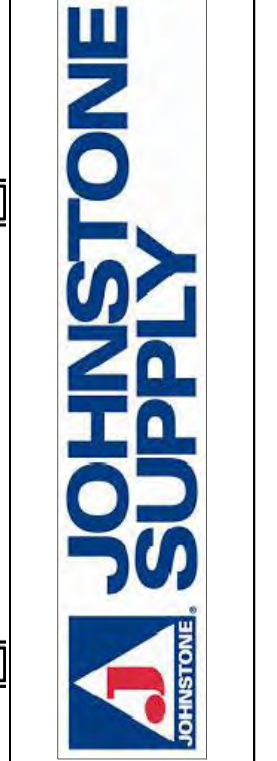
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MECHANICAL FLOOR PLAN
FIRST FLOOR HVAC DEMOLITION PLAN SCALE: 3/16" = 1'-0"

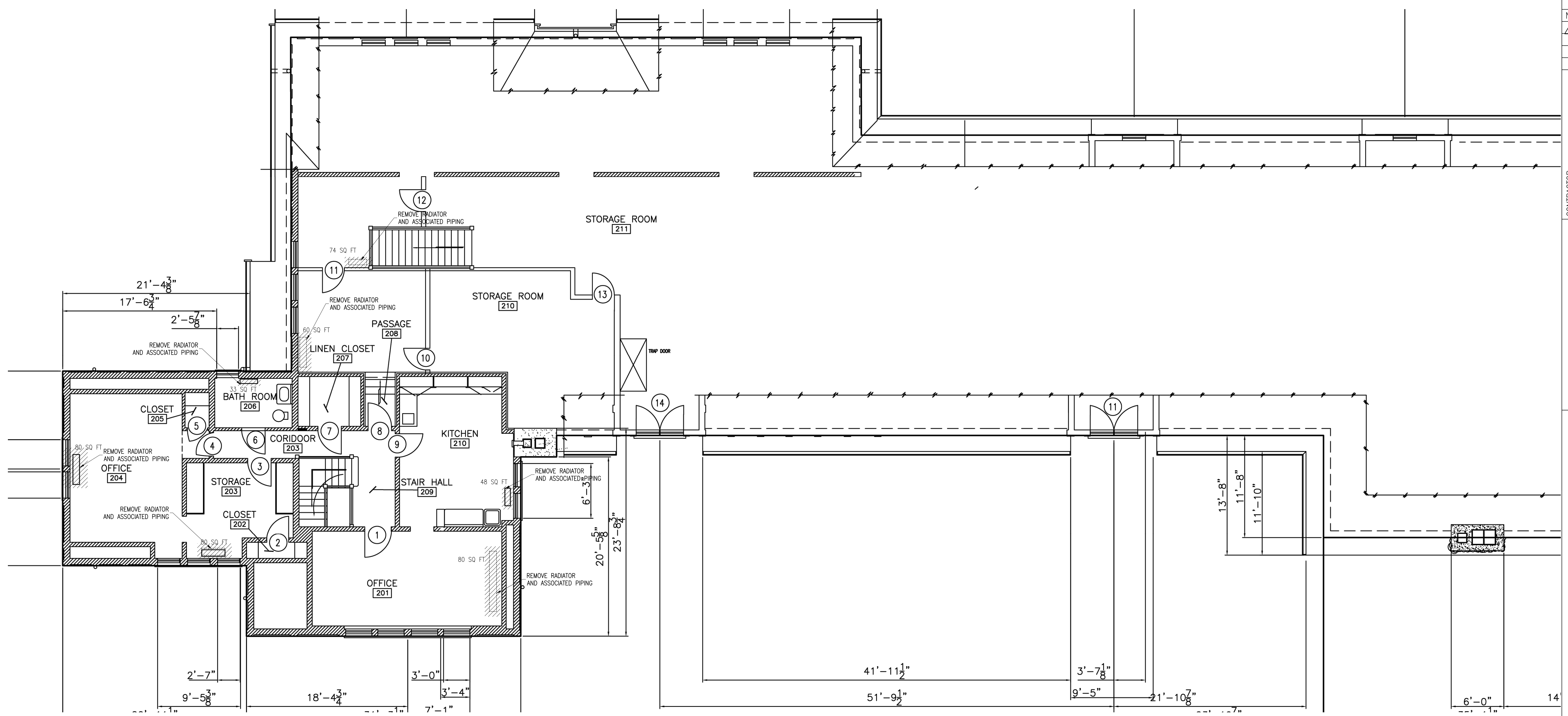
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MECHANICAL FLOOR PLAN
SECOND FLOOR HVAC DEMOLITION PLAN SCALE: 3/16" = 1'-0"

CURRENT PHOTOGRAPHS

NORTH FACING WALL



NORTHWEST CORNER OF BUILDING

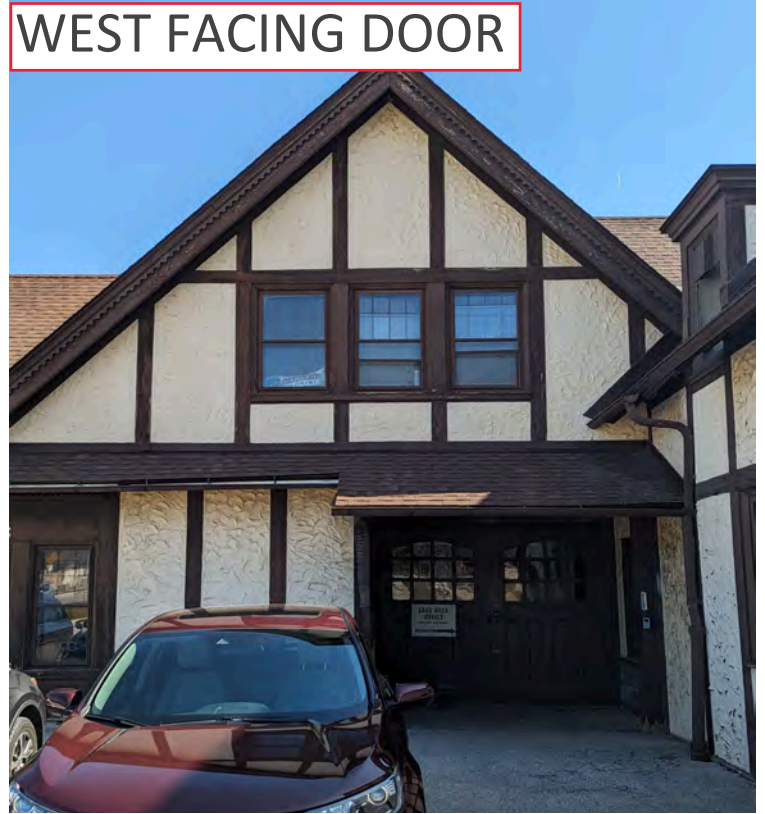


CURRENT PHOTOGRAPHS

WEST FACING WALL





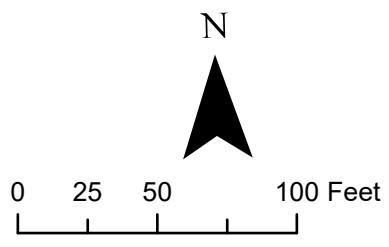
WEST FACING DOOR





Lake Park Service Yard

-  Park Boundary
-  Land Parcel



3/12/2024

