(APPLIES TO ALL SHEETS)

- A. ALL DRAWINGS ARE SCHEMATIC. CONTRACTOR IS RESPONSIBLE FOR COORDINATION OF ALL WORK. REFER TO ARCHITECTURAL/STRUCTURAL DRAWINGS FOR EXACT LOCATIONS OF BUILDING STRUCTURAL ELEMENTS. COORDINATE ALL EQUIPMENT LOCATIONS, CONCEALMENT AND SURFACE FINISH TREATMENTS CAREFULLY WITH WORK OF ALL TRADES. IN ANY CASE OF DISCREPANCY BETWEEN THE PLANS OR IN ANY CASE WHERE SUCH ISSUES REQUIRE CLARIFICATION, NOTIFY ENGINEER IN WRITING.
- B. EXISTING CONSTRUCTION TO REMAIN SHALL BE PROTECTED DURING REMOVAL AND NEW WORK CONSTRUCTION ACTIVITIES. CONTRACTOR IS RESPONSIBLE TO PROTECT ALL EXISTING CONSTRUCTION SCHEDULED TO REMAIN. EACH CONTRACTOR IS RESPONSIBLE TO PATCH AND/OR REPAIR ANY AND ALL CONSTRUCTION AFFECTED BY REMOVALS. CONTRACTOR SHALL PATCH (SUBSTRATE AND FINISHED SURFACES) ANY EXISTING FINISHES AFFECTED BY THEIR RESPECTIVE
- C. DAMAGE TO EXISTING SYSTEMS (EQUIPMENT, PIPING, CONTROLS AND ACCESSORIES) SHOWN TO REMAIN AS A RESULT OF THE CONTRACTORS WORK IS THE RESPONSIBILITY OF THE CONTRACTOR. REPAIR AND/OR REPLACE WITH SIMILAR OR LIKE MATERIALS AT NO ADDITIONAL COST TO THE OWNER.
- D. THE EXTENT OF DEMOLITION INDICATED IS BASED ON INFORMATION PROVIDED BY THE OWNER AND FIELD OBSERVATIONS. ANY DISCREPANCIES BETWEEN ACTUAL CONDITIONS AND THOSE INDICATED ARE TO BE BROUGHT TO THE ATTENTION OF THE ARCHITECT AND ENGINEER AS SOON AS DISCREPANCIES ARE DISCOVERED.
- E. EXISTING CONDITIONS ARE TAKEN FROM FIELD OBSERVATIONS AND ARE NOT GUARANTEED. THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO BID.
- F. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO DISPOSE OF ALL DEMOLITION DEBRIS AND MATERIALS OFF SITE IN A PROPER LEGAL MANNER.
- G. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO ALLOW THE OWNER FIRST RIGHT OF REFUSAL TO RETAIN EQUIPMENT, INCLUDING CONTROL DEVICES, TO BE REMOVED. IF THE OWNER REFUSES TO RETAIN EQUIPMENT TO BE REMOVED, IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO DISCONNECT AND REMOVE EQUIPMENT AND DISPOSE OF PROPERLY. IF THE OWNER PREFERS TO RETAIN THE EQUIPMENT, THE CONTRACTOR SHALL DISCONNECT AND REMOVE THE EQUIPMENT FROM THE EXISTING SYSTEMS IN GOOD WORKING CONDITION AND DELIVER (INCLUDING LOADING AND UNLOADING) TO A STORAGE AREA WITHIN THE BUILDING AS SELECTED BY THE OWNER. IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO REPAIR ANY EQUIPMENT DAMAGED DURING REMOVAL AND DELIVERY FOR STORAGE. ANY DAMAGE TO EQUIPMENT PRIOR TO DISCONNECTING SHOULD BE REPORTED TO THE OWNER'S REPRESENTATIVE. IF NOT REPORTED, THE CONTRACTOR TAKES FULL RESPONSIBILITY FOR REPAIRS TO THE EQUIPMENT.
- H. FOR ANY REFRIGERANT SYSTEMS TO BE REMOVED, ALL REFRIGERANT SHALL BE RECLAIMED AND DISPOSED OF AS DICTATED BY THE AUTHORITY HAVING JURISDICTION PRIOR TO REMOVAL OF ANY REFRIGERANT SYSTEMS/EQUIPMENT.
- I. FOR ELECTRICAL POWER CONNECTION REMOVALS, REFER TO THE ELECTRICAL DEMOLITION DRAWINGS
- J. ANY CONTRACTOR REMOVING OR MODIFYING EQUIPMENT COVERED IN OR CONTAINING ASBESTOS OR SUSPECTED OF CONTAINING ASBESTOS SHALL NOTIFY THE OWNER AT ONCE AND STOP REMOVAL. IDENTIFICATION AND/OR REMOVAL OF ASBESTOS CONTAINING MATERIAL WILL BE THE RESPONSIBILITY OF THE OWNER.
- K. THE DEMOLITION DRAWINGS SHOW IN GENERAL MAJOR EQUIPMENT, DUCTWORK, AND PIPING REMOVALS. THE INTENT IS NOT TO IDENTIFY ALL MISCELLANEOUS PIPING, PIPING ACCESSORIES, SUPPORTS, HANGERS, RACKS, CONTROLS, CONTROL ACCESSORIES, CONTROL WIRING, CONDUIT, ETC. TO BE DISCONNECTED AND REMOVED BUT IS THE REQUIREMENTS UNDER THIS CONTRACT.
- L. ANY RESULTING OPENINGS FROM DUCT TAPS SHOWN TO BE REMOVED FROM A DUCT MAIN ARE TO BE SEALED AIRTIGHT WITH LIKE MATERIALS AS THE EXISTING DUCTWORK. IF SURROUNDING DUCTWORK IS INSULATED. THE CONTRACTOR SHALL INSULATE DUCT PATCH TO MATCH SURROUNDING INSULATION PROPERTIES.
- M. EXISTING TEMPERATURE CONTROL EQUIPMENT, ACCESSORIES, WIRING OR CONDUIT THAT WILL NOT BE UTILIZED FOR THE INSTALLATION OR OPERATION OF THE NEW CONTROL EQUIPMENT SHALL BE DISCONNECTED AND REMOVED. NO EQUIPMENT, ACCESSORIES, WIRING OR CONDUIT SHALL BE ABANDONED IN PLACE. BEFORE DISCONNECTING POWER AND/OR COMMUNICATIONS OF DDC HARDWARE IN THE FIELD, ALL DDC DEVICES TO BE DEMOLISHED WILL BE CLEARED OF ALARMS, GRAPHICS, TRENDS, UNBUNDLED POINTS, PROGRAM, USER GROUPS, EVENT/SCHEDULES, REPORTS AND SYSTEM PROFILE.
- N. AFTER REMOVING PIPING/DUCTWORK PENETRATING FIRE-RATED CONSTRUCTION, PACK OPENING WITH APPROVED FIRE-RATED PACKING.
- O. EXISTING SURFACES OR STRUCTURAL ELEMENTS IN THE EXISTING BUILDINGS WHICH ARE PENETRATED, ALTERED, OR DAMAGED IN ANY WAY BY THE WORK OF THIS MC CONTRACT SHALL BE REPAIRED SO AS TO MATCH THE ORIGINAL SURFACE OR STRUCTURE.
- P. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE ALL SHUTDOWNS OF SYSTEMS WITH THE OWNERS FACILITY PERSONNEL FOR TIE-IN CONNECTIONS. THE CONTRACTOR SHALL ASSIST THE OWNERS FACILITY PERSONNEL IN SHUTTING DOWN, DRAINING, VENTING, ETC. OF SYSTEMS TO FACILITATE THE INTENDED WORK.
- Q. COORDINATE ANY INTERRUPTION OF UTILITIES SERVICE WITH CONSTRUCTION MANAGER.
- R. IT IS THE RESPONSIBILITY OF THIS CONTRACT TO PATCH AND FINISH ALL EXISTING PENETRATIONS THROUGH FLOORS AND WALLS AFTER DEMOLITION.
- S. COORDINATE ALL EQUIPMENT LOCATIONS AND INSTALLATION WITH THE WORK OF OTHER TRADES. COORDINATE EQUIPMENT WITH WALL, CEILING AND FLOOR FINISHES.
- T. COORDINATE DIFFUSER LOCATIONS WITH LIGHTING, FIRE DETECTION, AND CEILING INSTALLERS. COORDINATE DUCTWORK WITH LIGHTING AND PIPING INSTALLERS TO ALLOW CLEARANCE FOR LIGHT FIXTURES, PIPING AND WORK OF OTHER TRADES.
- U. COORDINATE DIFFUSER AND GRILLE FRAME TYPES TO MATE AND MATCH ADJACENT WALL AND CEILING CONSTRUCTION.
- V. ALL SQUARE ELBOWS SHALL BE VANED, EXCEPT AS INDICATED ON PLANS.
- W. COORDINATE DUCTWORK WITH WORK OF OTHER TRADES TO ENSURE ALL DUCTWORK IS CONCEALED. COORDINATE EXACT DIFFUSER AND GRILLE LOCATIONS TO MATCH ARCHITECTURAL REQUIREMENTS FOR SPACING AND CENTERING.
- X. PROVIDE MANUAL BALANCING DAMPERS FOR ALL DUCT BRANCHES SERVING SUPPLY AIR GRILLES, RETURN AIR GRILLES, AND EXHAUST AIR GRILLES NOT PROVIDED WITH OPPOSED BLADE BALANCING DAMPERS. A VOLUME DAMPER IS REQUIRED AT EACH DIFFUSER/GRILLE EVEN IF NOT SHOWN ON PLANS.
- Y. ALL VOLUME DAMPERS LOCATED WITHIN INSULATED DUCTWORK SHALL BE INSTALLED WITH A SHAFT EXTENSION THAT EXCEEDS THE THICKNESS OF ASSOCIATED DUCT INSULATION.
- Z. COORDINATE EXACT LOCATION OF ALL THERMOSTATS AND SPACE SENSORS WITH ENGINEER, ARCHITECT, AND CM.
- AA. ALL PIPING AND DUCTWORK SIZES INDICATED ARE MINIMUM SIZES. LARGER SIZES MAY BE INSTALLED BY THE CONTRACTOR IN ALL CASES.
- BB. ALL NEW PENETRATIONS THROUGH WALLS, FLOORS AND ROOFS SHALL BE PROVIDED FOR INSTALLATION OF MECHANICAL SYSTEMS INCLUDING, BUT NOT LIMITED TO, EQUIPMENT, DUCTWORK, PIPING, ETC.. ALL PENETRATIONS THROUGH RATED WALLS AND FLOORS SHALL BE FIRE/SMOKE STOPPED. ALL PENETRATIONS THROUGH NON-RATED WALLS SHALL BE SEALED WITH A NON-HARDENING SEALANT ON BOTH SIDES OF WALL PENETRATION TO REDUCE NOISE TRANSMISSION.
- CC. ALL SURFACE MOUNTED EQUIPMENT SHALL BE FASTENED WITH ANCHORS OR FASTENERS AS
- SPECIFIED FOR THE SUBSTRATE. PLASTIC OR FIBER SHIELDS ARE NOT ACCEPTABLE.

  DD. INSTALLATIONS SHALL MEET ALL APPLICABLE STATE AND LOCAL CODES.
- EE. DO NOT SCALE DRAWINGS.
- FF. A PRETEST WAS CONDUCTED FOR ALL RTUS SERVING THE SCOPE AREA PRIOR TO COMPLETING DESIGN. IT WAS FOUND AS A RESULT OF THIS TESTING THAT THE RTUS ARE IN NEED OF SOME REPAIRS, AND THE OUTDOOR AIRFLOWS BEING PROVIDED TO THE SPACES WERE NOT SUFFICIENT TO MEET THE CODE REQUIRED AMOUNTS. M/E WAS TOLD BY ARCHITECT TO PROCEED UNDER THE ASSUMPTION THAT THE UNITS CAN MAINTAIN 25% OUTSIDE AIR WHILE PROVIDING PROPER CONDITIONED AIR.
- GG. AIRFLOWS NOTED TO BE SERVING EXISTING SPACES NOT IN SCOPE, WERE TAKEN FROM THE PRETEST DATED 02/22/2022.

	CONTROLS	SYMBO	L LIST
SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
↑ DI	DIGITAL INPUT (GENERAL)	DSD	DUCT SMOKE DETECTOR
_DO	DIGITAL OUTPUT (GENERAL)	CT	CURRENT TRANSDUCER
 ↑ AI	ANALOG INPUT (GENERAL)	\[ \langle \langle P \]	ELECTRIC/PNEUMATIC TRANSDUCER
AO	ANALOG OUTPUT (GENERAL)	- (IE)	ELECTRONIC/ELECTRIC TRANSDUCER
][	THERMOWELL		ELECTRICAL INTERFACE
	ALARM	SS	START/STOP
E	ELECTRIC ACTUATOR		
FZ	FREEZE-STAT	<u>%</u>	OPEN/CLOSE
H	HUMIDIFIER	ED	ENABLE/DISABLE
R	RELAY		HARD WIRE INTERFACE
S	STATUS		ELECTRONIC INTERFACE
$\langle M \rangle$	FLOW METER		PNEUMATIC CONTROL
(BTU)	BTU ENERGY METER		VALVE (3-WAY)
	AIR FLOW MEASURING		PNEUMATIC CONTROL VALVE (2-WAY)
<u> </u>	STATION	E	ELECTRIC/ELECTRONIC CONTROL VALVE (3-WAY)
}	AVERAGING SENSOR	E	ELECTRIC/ELECTRONIC CONTROL VALVE (2-WAY)
H	HUMIDITY SENSOR (DUCT MOUNTED)	S	SOLENOID VALVE
S	TEMPERATURE SENSOR (DUCT OR PIPE MOUNTED)		THERMOSTATIC EXPANSION
CO 2	CARBON DIOXIDE SENSOR (DUCT MOUNTED)	+++++	AUTOMATIC AIR DAMPER (PARALLEL BLADE)
<u>s</u> —	SPACE TEMPERATURE SENSOR (WALL MOUNTED)	<b>\</b>	AUTOMATIC AIR DAMPER (OPPOSED BLADE)
(H)—	SPACE HUMIDITY SENSOR (WALL MOUNTED)	뮤	PNEUMATIC ACTUATOR
<u>C</u> —	CARBON DIOXIDE ROOM SENSOR (WALL MOUNTED)	M	MAIN TEMPERATURE CONTROL AIR SOURCE
(CO)—	CARBON MONOXIDE ROOM SENSOR (WALL MOUNTED)	EA	EXHAUST AIR
	NITROGEN DIOXIDE ROOM	OA	OUTSIDE AIR
(T)	SENSOR (WALL MOUNTED)	RA	RETURN AIR
T <sub>E</sub>	PNEUMATIC THERMOSTAT  LINE VOLTAGE THERMOSTAT	SA	SUPPLY AIR
OS OS	OCCUPANCY SENSOR	SF	SUPPLY FAN
M	MOISTURE SENSOR	SC	SMOKE CONTROL FAN
	PROBE SENSOR	RF	RETURN AIR FAN
FS	FLOW SENSOR/SWITCH	EF_	EXHAUST AIR FAN
ES	END SWITCH		EXTROOT AIRT AIR
S <sub>M</sub>	MANUAL SWITCH		FILTER
△P	DIFFERENTIAL STATIC PRESSURE SWITCH		BASE MOUNTED PUMP
VP/	DIFFERENTIAL STATIC PRESSURE SENSOR		IN LINE PUMP
E/P	ELECTRIC/PNEUMATIC SWITCH OR RELAY	ASD	ADJUSTABLE SPEED DRIVE
PE	PNEUMATIC/ELECTRIC SWITCH OR RELAY	C/C	COOLING COIL
F	FLOW TRANSMITTER TRANSDUCER	H/C	HEATING COIL
P	PRESSURE SENSOR	HR/C	HEAT RECOVERY COIL
			REFRIGERANT R134a SENSO

		MBOL LIST	
SYMBOL	DESCRIPTION  EXISTING WORK TO BE DEMOVED	SYMBOL —— A ——	DESCRIPTION COMPRESSED AIR
	EXISTING WORK TO BE REMOVED	——A———————————————————————————————————	COMPRESSED AIR VENT
	POINT OF CONNECTION	BBD	BOILER BLOW DOWN
<b>H</b>	POINT OF DISCONNECTION	cs	CONDENSER WATER SUPPLY
		——CR——	CONDENSER WATER STURN
X	DRAWING KEYNOTE	CWS	CHILLED WATER SUPPLY CHILLED WATER RETURN
		D	DRAIN
X	DEMOLITION KEYNOTE	FOF	FUEL OIL FILL
MBH	THOUSAND BTU/HOUR	——FOG——	FUEL OIL GAUGE
NTS	NOT TO SCALE	—— FOS ——	FUEL OIL SUPPLY
(E)	EXISTING	——FOR——	FUEL OIL RETURN
(L)	ACOUSTIC THERMAL LINING - 1-1/2" THICK	—— FOV ——	FUEL OIL TANK VENT
(2L)	ACOUSTIC THERMAL LINING - 2" THICK	——G——	GAS
(DBL) FPM	DOUBLE WALL LINED DUCT FEET PER MINUTE	GS GR	GLYCOL SUPPLY GLYCOL RETURN
CFM	CUBIC FEET PER MINUTE	—HPWS—	HEAT PUMP WATER SUPPLY
AFF	ABOVE FINISHED FLOOR	—HPWR—	HEAT PUMP WATER RETURN
AD	ACCESS DOOR	——HWS——	HOT WATER SUPPLY
W/W	WALL TO WALL	HWR	HOT WATER RETURN
G.C.	GENERAL CONTRACTOR	——LPS ——	LOW PRESSURE STEAM
M.C. P.C.	MECHANICAL CONTRACTOR PLUMBING CONTRACTOR	—— LPC —— —— MPS ——	LOW PRESSURE CONDENSATE  MEDIUM PRESSURE STEAM
E.C.	ELECTRICAL CONTRACTOR	MPC	MEDIUM PRESSURE CONDENSATE
N.O.	NORMALLY OPEN	—— HPS ——	HIGH PRESSURE STEAM
N.C.	NORMALLY CLOSED	——НРС ——	HIGH PRESSURE CONDENSATE
+++++++++++++++++++++++++++++++++++++++	FLEXIBLE DUCTWORK	——PC ——	PUMPED CONDENSATE
AxB	DUCT SECTION - FLAT OVAL (FO)	——RD——	REFRIGERANT LIGHTS
FO		—— RL —— —— RS ——	REFRIGERANT LIQUID REFRIGERANT SUCTION
12"	ROUND DUCT - IN INCHES	—— RS —— —— HG ——	HOT GAS
	DUOT OFOTION OURSELY	VAC	VACUUM
	DUCT SECTION - SUPPLY	CW	DOMESTIC COLD WATER
	DUCT SECTION - RETURN	TD	TRIPLE DUTY VALVE
^			GLOBE VALVE
AB	WIDTH A x DEPTH B		BALL VALVE
		——————————————————————————————————————	GATE VALVE  CONTROL VALVE
	TRANSITION SQUARE TO ROUND		
<u> </u>			THREE WAY CONTROL VALVE
R	RISE IN DUCT - IN DIRECTION OF AIRFLOW	· • • • • • • • • • • • • • • • • • • •	CHECK VALVE
D	DROP IN DUCT - IN DIRECTION OF AIRFLOW	——⊗——	BALANCING VALVE
			BUTTERFLY VALVE
ON 24x12 UP	SUPPLY DUCT TURNING UP OR DOWN		RELIEF VALVE
		PRV	PRESSURE REDUCING VALVE
ON 24x12 UP	RETURN DUCT TURNING UP OR DOWN		PRESSURE/TEMPERATURE TEST PLUG
- 6" BOOT			SINGLE LINE PIPE CONTINUED
7 TAP	SUPPLY/RETURN RECTANGULAR MAIN		DOUBLE LINE PIPE OR
₹ 14x8 <del> </del> 14x8 <del> </del>	RECTANGULAR MAIN RECTANGULAR BRANCH	•	ROUND DUCT CONTINUED
- 6" BOOT			DOUBLE LINE RECTANGULAR
T / 6" BOOT	SUPPLY/RETURN		DUCT CONTINUED  AIR FLOW
74 / TAP	RECTANGULAR MAIN	— <del>√</del>	PIPE ANCHOR
14 6	ROUND BRANCH		PIPE GUIDE
CONICAL			EXPANSION COMPENSATOR WITH GUIDES
TEE TEE	SUPPLY/RETURN ROUND MAIN		PRE-FAB EXPANSION LOOP
14"	ROUND BRANCH		
- LATERAL			STRAINER CALICE
[8] \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	SUPPLY/RETURN	<u> </u>	PRESSURE GAUGE THERMOMETER
	ROUND MAIN		UNION
14"	ROUND BRANCH	† V	AIR VENT
		■ TT	THERMOSTATIC TRAP
	MITERED ELBOW WITH TURNING VANES	■ FT	FLOAT & THERMOSTATIC TRAP
	WITERED LEDOW WITH TURNING VANES	■ TD	THERMODYNAMIC TRAP
		■ BT	BUCKET TRAP
	SUPPLY DIFFUSER, REGISTER OR GRILLE		DIRECTION OF FLOW REDUCER
			CAP OR PLUG
	RETURN REGISTER		ELBOW DOWN
	EXHAUST GRILLE		ELBOW UP
			BOTTOM TAP
	FIN TUBE RADIATION		
	VALANCE	FD	FIRE DAMPER SMOKE DAMPER
A	REGISTER, GRILLE OR DIFFUSER TAG	SD	COMBINATION FIRE/SMOKE DAMPER
В	A = TYPE	BDD	
С	B = NECK SIZE C = CFM	FC	FLEX CONNECTOR - DUCTWORK
А	LINEAR DIFFUSER TAG	MD	MOTORIZED DAMPER
ВС	A = TYPE B = NECK SIZE	— BG	BLAST GATE
D	C = DIFFUSER LENGTH	SD	VOLUME DAMPER SUCTION DIFFUSER
	D = CFM FIN TUBE RADIATION TAG	<u> </u>	FLEXIBLE CONNECTOR - PIPING
FT-A B	FT-A = TYPE	0 0	DRAIN VALVE WITH HOSE CONNECTION,
С	B = FIN TUBE LENGTH C = ENCLOSURE LENGTH	<del>-•</del> -	CAP AND CHAIN
D	D = GPM	FS	WATER FLOW SENSOR
A	RADIANT CEILING PANEL TAG A = TYPE	TS -	WATER TEMPERATURE SENSOR
B C	B = LENGTH	SP-•	STATIC PRESSURE SENSOR
	C = GPM VALANCE TAG	(H) (S)	HUMIDISTAT TEMPERATURE SENSOR
A B	A = TYPE	©	CARBON DIOXIDE SENSOR
the second secon	B = COIL SIZE	<u> </u>	CARBON MONOXIDE SENSOR
С	C = COOLING GPM D = HEATING GPM	G	GAS SENSOR
			DIELINATIONE ECTRIC THERMOSTAT
C D		T TE	PNEUMATIC/ELECTRIC THERMOSTAT
С	AIR TERMINAL UNIT AND TAG (OPTION 1)	T TE	THERMOSTAT/SENSOR WITH GUARD
C D	AIR TERMINAL UNIT AND TAG (OPTION 1)  AIR TERMINAL UNIT TAG (OPTION 2)	TG SG	
C D	AIR TERMINAL UNIT AND TAG (OPTION 1)		THERMOSTAT/SENSOR WITH GUARD

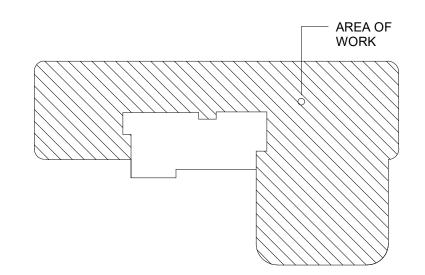
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-- 03/07/2022 BID ISSUE - MEP

03/16/2022 ADDENDA #03

CE AL

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IT IS A VIOLATION OF THE LAW FOR ANY
PERSON, UNLESS ACTING UNDER THE
DIRECTION OF A LICENSED ARCHITECT, TO
ALTER THIS DOCUMENT IN ANY WAY, IF
ALTERED, THE ALTERING ARCHITECT SHALL
AFFIX HIS SEAL AND THE NOTATION "ALTERED
BY" FOLLOWED BY HIS SIGNATURE AND THE
DATE OF SUCH ALTERATION, AND A SPECIFIC
DESCRIPTION OF THE ALTERATION.



DRAWING TITLE:

# MECHANICAL SYMBOLS LISTS, AND GENERAL NOTES

21035a
DATE
03/07/2022

CON #
PENDING
SCALE

AS NOTED

IVO O

	VENTILATION ABBREVIATION DEFINITIONS
ABBREVIATION	DEFINITION
AFP	PEOPLE OUTDOOR AIRFLOW RATE IN BREATHING ZONE (CFM/PERSON)
AFSF	AREA OUTDOOR AIRFLOW RATE IN BREATHING ZONE (CFM/SQ.FT.)
Vbz	OUTDOOR AIRFLOW RATE REQUIRED IN THE BREATHING ZONE
Ez	ZONE AIR DISTRIBUTION EFFECTIVENESS
Voz	ZONE OUTDOOR AIRFLOW RATE
	PRIMARY AIRFLOW: THE AIRFLOW RATE SUPPLIED TO THE ZONE FROM THE AIR HANDLING UNIT AT WHICH THE
	OUTDOOR AIR INTAKE IS LOCATED. IT INCLUDES OUTDOOR INTAKE AIR AND RECIRCULATED AIR FROM THAT AIR
Vpz	HANDLING UNIT BUT DOES NOT INCLUDE AIR TRANSFERRED OR AIR RECIRCULATED TO THE ZONE BY OTHER
νρ2	MEANS. FOR DESIGN PURPOSES, VPZ SHALL BE THE ZONE DESIGN PRIMARY AIRFLOW RATE, EXPECT FOR ZONES
	WITH VARIABLE AIR VOLUME SUPPLY AND VPZ SHALL BE THE LOWEST EXPECTED PRIMARY AIRFLOW TO THE
	ZONE WHEN IT IS FULLY OCCUPIED.
Zp	PRIMARY OUTDOOR AIR FRACTION
Vps	SYSTEM PRIMARY AIRFLOW
Vot	SYSTEM OUTDOOR AIR INTAKE FLOW RATE
Vou	UNCORRECTED OUTDOOR AIR INTAKE FLOW RATE
D	OCCUPANT DIVERSITY: THE RATIO OF THE SYSTEM POPULATION TO THE SUM OF THE ZONE POPULATIONS.
Ev	SYSTEM VENTILATION EFFICIENCY
AF Fixture (High Date)	EXHAUST AIRFLOW RATE (CFM/SQ.FT.). THE HIGH EXHAUST RATE, IT SHALL BE PROVIDED WHERE THE EXHAUST
AF Fixture (High Rate)	SYSTEM IS DESIGNED TO OPERATE INTERMITTENTLY.
AE Eivturo (Low Boto)	EXHAUST AIRFLOW RATE (CFM/SQ.FT.). THE LOW EXHAUST RATE, IT SHALL BE PERMITTED ONLY WHERE THE
AF FIXIUIE (LOW Rate)	EXHAUST SYSTEM IS DESIGNED TO OPERATE CONTINUOUSLY WHILE OCCUPIED.
Va	NATURAL VENTILATION MINIMUM OPENABLE AREA TO THE OUTDOORS
AF Fixture (High Rate)  AF Fixture (Low Rate)	EXHAUST AIRFLOW RATE (CFM/SQ.FT.). THE HIGH EXHAUST RATE, IT SHALL BE PROVIDED WHERE THE EXHAUS SYSTEM IS DESIGNED TO OPERATE INTERMITTENTLY.  EXHAUST AIRFLOW RATE (CFM/SQ.FT.). THE LOW EXHAUST RATE, IT SHALL BE PERMITTED ONLY WHERE THE EXHAUST SYSTEM IS DESIGNED TO OPERATE CONTINUOUSLY WHILE OCCUPIED.

IMC-2018	VENTILATION (	CALCUL	ATIONS - MULTIPLE	E UNIT	S													
			SYSTEM VALUES:							-	-							
			System Primary Air Flow (Vps) System Outdoor Air Flow (Vot)		OA %: Vou:	25.0 488.78												
		ZONE IDENTIF	FICATION	•		E	BASE CAS	SE PER A	UTHORIT	Υ	<u> </u>	DESI	SN CASE			ADDITIONAL I	NFO	
ROOM NUMBER	ROOM NAME	ZONE EQUIP. TAG#	OCCUPANCY CLASSIFICATION	AREA (SF)	ZONE OCCU. (ZO)	AFP (cfm)	AFSF (cfm)	Vbz (cfm)	Ez	Voz (cfm)	Vpz (cfm)	Zp	Voz (cfm)	DESIGN MEETS AUTHORITY	EXHAUST DCV REQUIRED REQUIRE	CO2 SENSOR	OCCU. SENSOR PROVIDED	NOTES
319.1.A	WAITING	VAV-4-7	Lobby - Office	228	8	5.0	0.06	54	0.8	68	300	0.23	75	YES				
301.4.A	SUPERVISOR OFFICE	VAV-4-6	Office Space	79	1	5.0	0.06	10	0.8	13	105	0.12	26	YES				
302.4.A	MD OFFICE	VAV-4-6	Office Space	109	1	5.0	0.06	12	0.8	15	150	0.10	37	YES				
303.4.A	MD OFFICE	VAV-4-6	Office Space	112	1	5.0	0.06	12	0.8	15	150	0.10	37	YES				
322.1.A	PROVIDER STATION	VAV-4-5	Office Space	109	2	5.0	0.06	17	0.8	21	85	0.25	21	YES				
320.1.A	RECEPTION	VAV-4-5	Reception Area	136	3	5.0	0.06	23	0.8	29	120	0.24	30	YES				
323.4.A	LPN	VAV-4-3	Office Space	70	1	5.0	0.06	9	0.8	12	60	0.20	15	YES				
311.3.A	STAFF LOUNGE	VAV-4-2	Office Space	208	8	5.0	0.06	52	0.8	66	275	0.24	69	YES				
312.4.A	DIR OFFICE CARMEN ARIAS	VAV-5-3	Office Space	82	1	5.0	0.06	10	0.8	13	80	0.16	20	YES				
313.4.A	NATACHA P LPN OFFICE	VAV-5-3	Office Space	91	1	5.0	0.06	10	0.8	14	90	0.16	22	YES				
332.1.A	PROVIDER STATION	VAV-5-1	Office Space	186	4	5.0	0.06	31	0.8	39	155	0.25	39	YES				
315.4.A	DR EMERSON OFFICE	VAV-5-3	Office Space	87	1	5.0	0.06	10	0.8	13	75	0.17	19	YES				
316.4.A	DR WAJID OFFICE	VAV-5-3	Office Space	86	1	5.0	0.06	10	0.8	13	75	0.17	19	YES				
317.4.A	DR KENDRICK OFFICE	VAV-5-3	Office Space	88	1	5.0	0.06	10	0.8	13	80	0.16	20	YES				
318.4.A	DEBRA G NP OFFICE	VAV-5-3	Office Space	87	1	5.0	0.06	10	0.8	13	90	0.14	22	YES				
358.1.A	WAITING	VAV-6-1	Lobby - Office	719	15	5.0	0.06	118	0.8	148	775	0.19	194	YES				
343.1.A	RECEPTION	VAV-5-5	Reception Area	146	4	5.0	0.06	29	0.8	36	150	0.24	37	YES				
350.1.A	PROVIDER STATION	VAV-5-5	Office Space	148	4	5.0	0.06	29	8.0	37	150	0.25	37	YES				
356.4.A	DR KELLY OFFICE	VAV-6-2	Office Space	98	1	5.0	0.06	11	0.8	14	90	0.16	22	YES				
355.4.A	MD OFFICE	VAV-6-2	Office Space	97	1	5.0	0.06	11	0.8	14	90	0.16	22	YES				
354.4.A	DR MASELI OFFICE	VAV-6-2	Office Space	97	1_	5.0	0.06	11	0.8	14	115	0.12	29	YES				

	ROOM			AIA-ASHR	AE 170 (Table 7.1)			≼∀	
NUMBER	NAME	SQ FT	CEILING HEIGHT	CLASSIFICATION	PRESSURE TYPE	OAC/HR	TAC/HR	AIA TOTAL AIRFLOW (CFM)	AIA OA (CFM)
326.5.A	STAFF TOILET	62	8	TOILET ROOM	NEGATIVE	0	10	82.7	0.0
327.5.A	STAFF TOILET	58	8	TOILET ROOM	NEGATIVE	0	10	77.3	0.0
329.1.A	SOILED HOLD	58	8	SOILED HOLDING	NEGATIVE	2	10	77.3	15.5
330.1.A	CLEAN HOLD	95	8	CLEAN HOLDING	POSITIVE	2	4	50.7	25.3
362.1.A	PASSAGE	236	8	PATIENT CORRIDOR	N/R	0	2	62.9	0.0
363.1.A	PASSAGE	82	8	PATIENT CORRIDOR	N/R	0	2	21.9	0.0
309.1.A	SOILED HOLD	61	8	SOILED HOLDING	NEGATIVE	2	10	81.3	16.3
310.1.A	CLEAN HOLD	88	8	CLEAN HOLDING	POSITIVE	2	4	46.9	23.5
321.2.A	EXAM #6	81	8	EXAM ROOM	N/R	2	4	43.2	21.6
324.5A	PATIENT TOILET	55	8	TOILET ROOM	NEGATIVE	0	10	73.3	0.0
325.6.A	1 OCC LAB	80	8	GENERAL LAB	NEGATIVE	2	6	64.0	21.3
304.2.A	EXAM #1	86	8	EXAM ROOM	N/R	2	4	45.9	22.9
305.2.A	EXAM #2	120	8	EXAM ROOM	N/R	2	4	64.0	32.0
306.2.A	EXAM #3	85	8	EXAM ROOM	N/R	2	4	45.3	22.7
307.2.A	EXAM #4	96	8	EXAM ROOM	N/R	2	4	51.2	25.6
308.2.A	EXAM #5	91	8	EXAM ROOM	N/R	2	4	48.5	24.3
360.1.A	PASSAGE	334	8	PATIENT CORRIDOR	N/R	0	2	89.1	0.0
361.1.A	PASSAGE	88	8	PATIENT CORRIDOR	N/R	0	2	23.5	0.0
	PROCEDURE ROOM	116	8	TREATMENT ROOM	N/R	2	6	92.8	30.9
366.1.A	PASSAGE	873	8	PATIENT CORRIDOR	N/R	0	2	232.8	0.0
314.6.A	LAB	80	8	GENERAL LAB	NEGATIVE	2	6	64.0	21.3
332.2.A	ULTRASOUND	127	8	X-RAY TREATMENT	N/R	2	6	101.6	33.9
334.5.A	PATIENT TOILET	62	8	TOILET ROOM	NEGATIVE	0	10	82.7	0.0
335.2.A	ULTRASOUND	128	8	X-RAY TREATMENT	N/R	2	6	102.4	34.
336.2.A	EXAM	82	8	EXAM ROOM	N/R	2	4	43.7	21.9
337.2.A	EXAM	82	8	EXAM ROOM	N/R	2	4	43.7	21.9
338.2.A	EXAM	82	8	EXAM ROOM	N/R	2	4	43.7	21.9
	PASSAGE	304	8	PATIENT CORRIDOR	N/R	0	2	81.1	0.0
357.6.A	LAB	80	8	GENERAL LAB	NEGATIVE	2	6	64.0	21.3
			_						_
347.2.A	PATIENT TOILET	81	8	EXAM ROOM	N/R	2	4	43.2	21.0
348.5.A		60	8	TOILET ROOM	NEGATIVE	0	10	80.0	0.0
349.2.A	EXAM	82	8	EXAM ROOM	N/R	2	4	43.7	21.9
351.2.A	EXAM	82	8	EXAM ROOM	N/R	2	4	43.7	21.9
352.2.A	EXAM	88	8	EXAM ROOM	N/R	2	4	46.9	23.
	EXAM	81	8	EXAM ROOM	N/R	2	4	43.2	21.0
339.6.A	EVS	32	8	JANITORS CLOSET	NEGATIVE	0	10	42.7	0.0
367.1.A	PASSAGE	233	8	PATIENT CORRIDOR	N/R	0	2	62.1	0.0
368.1.A	PASSAGE	149	8	PATIENT CORRIDOR	N/R	0	2	39.7	0.0
369.1.A	PASSAGE	149	8	PATIENT CORRIDOR	N/R	0	2	39.7	0.0
340.2.A	EXAM	80	8	EXAM ROOM	N/R	2	4	42.7	21.
341.5.A	PATIENT TOILET	57	8	TOILET ROOM	NEGATIVE	0	10	76.0	0.0
342.2.A	EXAM	82	8	EXAM ROOM	N/R	2	4	43.7	21.
344.2.A	EXAM	82	8	EXAM ROOM	N/R	2	4	43.7	21.
345.2.A	EXAM	96	8	EXAM ROOM	N/R	2	4	51.2	25.
346.2.A	EXAM	80	8	EXAM ROOM	N/R	2	4	42.7	21

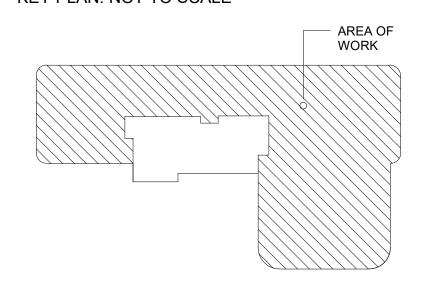
# Montefiore

MONTEFIORE NYACK HOSPITAL

160 NORTH MIDLAND AVENUE NYACK, NY 10960

OUTPATIENT CLINIC THIRD FLOOR 17 SQUADRON BLVD NEW CITY, NY 10956

KEY PLAN: NOT TO SCALE





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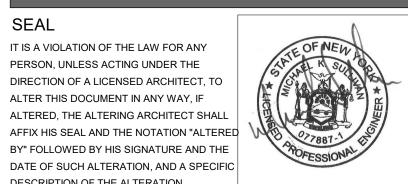
M/E PROJECT NO.: 213299

433 STATE STREET, SUITE 410 SCHENECTADY, NY 12305

STRUCTURAL ENGINEER

No:	<u>Date:</u>	Description:
	03/07/2022	BID ISSUE - MEP
1	03/16/2022	ADDENDA #03

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DRAWING TITLE: MECHANICAL

**AIRFLOWS** 

DESCRIPTION OF THE ALTERATION.

PROJECT NUMBER 21035a DATE

CON # PENDING SCALE

AS NOTED 03/07/2022 DRAWING NUMBER

- A. A PRETEST WAS CONDUCTED FOR ALL RTUS SERVING THE SCOPE AREA PRIOR TO COMPLETING DESIGN. IT WAS FOUND AS A RESULT OF THIS TESTING THAT THE RTUS ARE IN NEED OF SOME REPAIRS. AND THE OUTDOOR AIRFLOWS BEING PROVIDED TO THE SPACES WERE NOT SUFFICIENT TO MEET THE CODE REQUIRED AMOUNTS. M/E WAS TOLD BY ARCHITECT TO PROCEED UNDER THE ASSUMPTION THAT THE UNITS CAN MAINTAIN 25% OUTSIDE AIR WHILE PROVIDING PROPER CONDITIONED AIR.
- AIRFLOWS NOTED TO BE SERVING EXISTING SPACES NOT IN SCOPE, WERE TAKEN FROM THE PRETEST DATED 02/22/2022.

## **MD1.0 REMOVALS NOTES**

1 REMOVE EXISTING DUCTWORK BACK TO THIS POINT AND PREPARE FOR NEW CONNECTION. SEE M1.1 FOR NEW WORK.

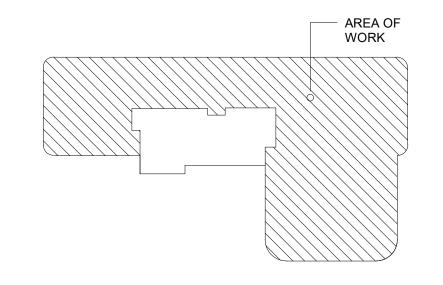
- 2 REMOVE EXISTING DUCTWORK BACK TO EXISTING CHASE. CAP AND SEAL AIR TIGHT. 3 CAP EXISTING DUCTWORK AND SEAL AIR TIGHT.

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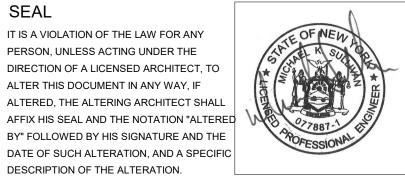
ISSUED DOCUMENTS:

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**DRAWING TITLE:** 

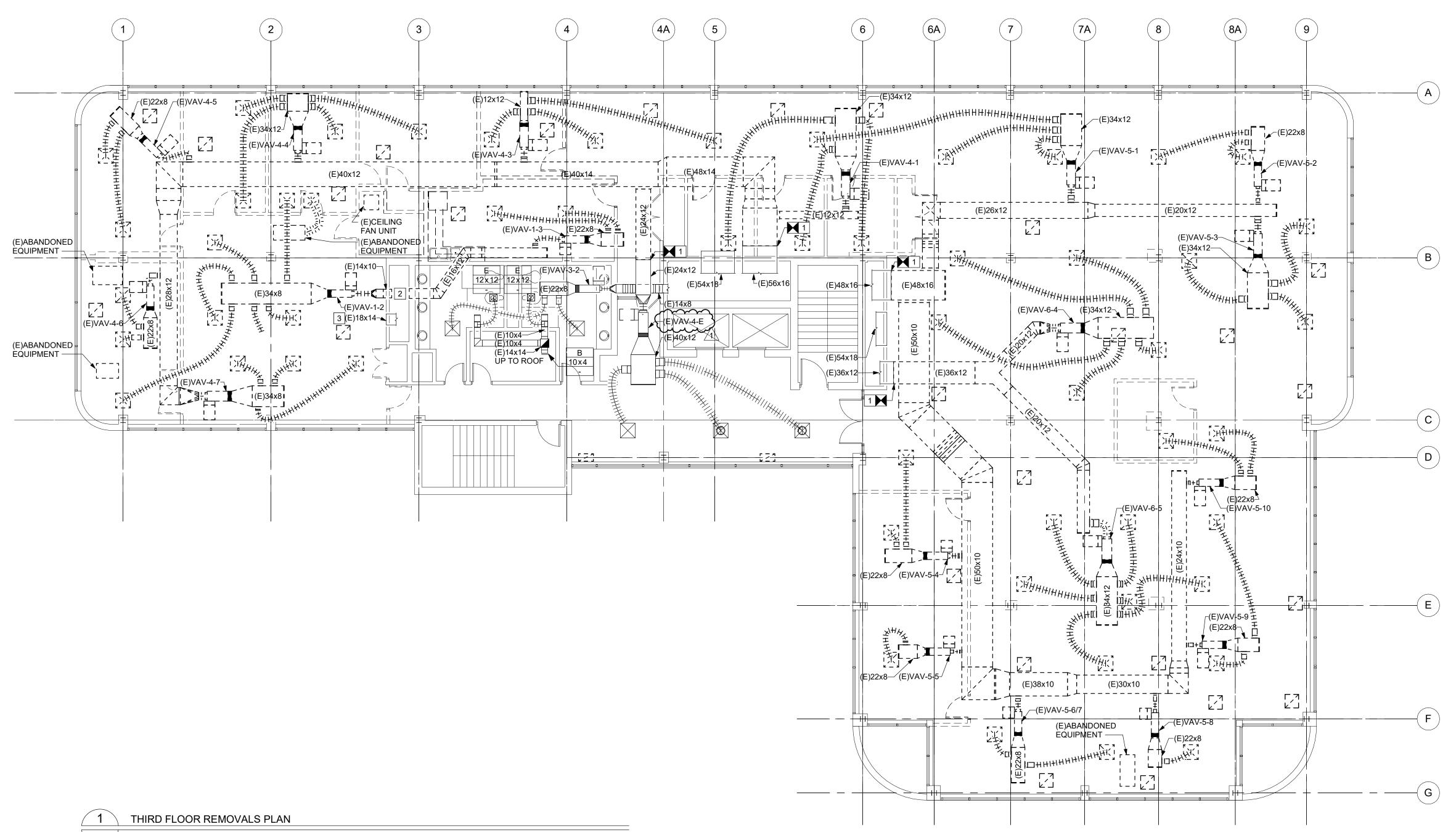
THIRD FLOOR MECHANICAL REMOVALS PLAN

PROJECT NUMBER 21035a DATE 03/07/2022

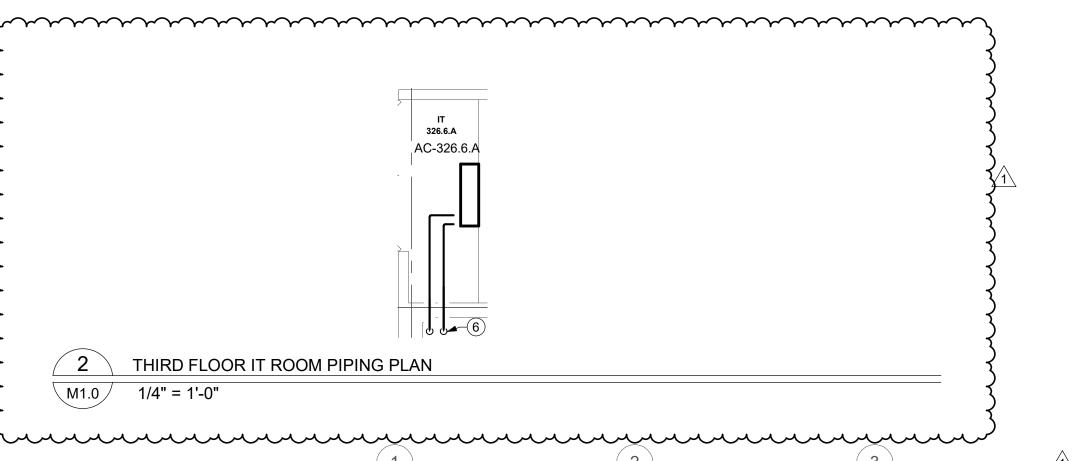
CON# PENDING SCALE

AS NOTED

DRAWING NUMBER



1/8" = 1'-0"



THE DRAWING IS 8x8.

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- AIRFLOWS NOTED TO BE SERVING EXISTING SPACES NOT IN SCOPE, WERE TAKEN FROM THE PRETEST DATED 02/22/2022. ALL RETURNS OUTSIDE OF PASSAGES ARE PLENUM RETURN GRILLES WITH SOUND TRAP. SEE DETAIL ON M5.1. ALL RETURNS IN PASSAGES ARE STANDARD PLENUM RETURN GRILLE. D. ANY TRANSFER GRILLE OR SOUND TRAP THAT IS NOT LABELED ON

### **M1.0 DRAWING NOTES**

- PROVIDE 10x10 EXHAUST UP TO ROOF. SEE M1.1 FOR CONTINUATION. THIS LOCATION WAS CHOSEN FROM LIMITED FIELD INVESTIGATION AND EXISTING DRAWINGS. CONTRACTOR TO VERIFY EXACT LOCATION IN CHASE FOR RISER.
- 2 3 WAY DIFFUSER.
- 3 CONNECT NEW DUCTWORK TO EXISTING DUCTWORK.
- 4 2 WAY DIFFUSER.

- M1.1 FOR CONTINUATION.
- PROVIDE WIREMESH SCREEN ON OPEN ENDED RETURN DUCT.
- 8 EXISTING 18x14 RETURN DUCT LOCATION BASED ON LIMITED FIELD VERIFICATION. IF LOCATED WITHIN NEW WALL, REMOVE ENTIRE RETURN DUCT. CONNECT EXISTING FLEX DUCT TO EXISITING DIFFUSER.

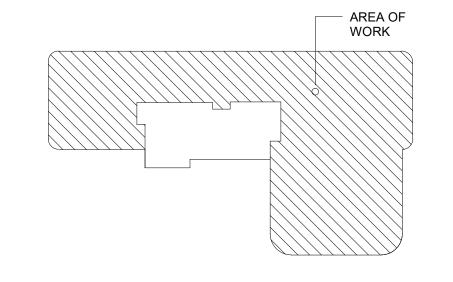
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M/E PROJECT NO.: 213299

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STRUCTURAL ENGINEER

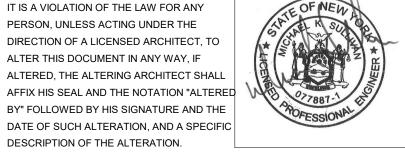
**ISSUED DOCUMENTS:** 03/16/2022 ADDENDA #03

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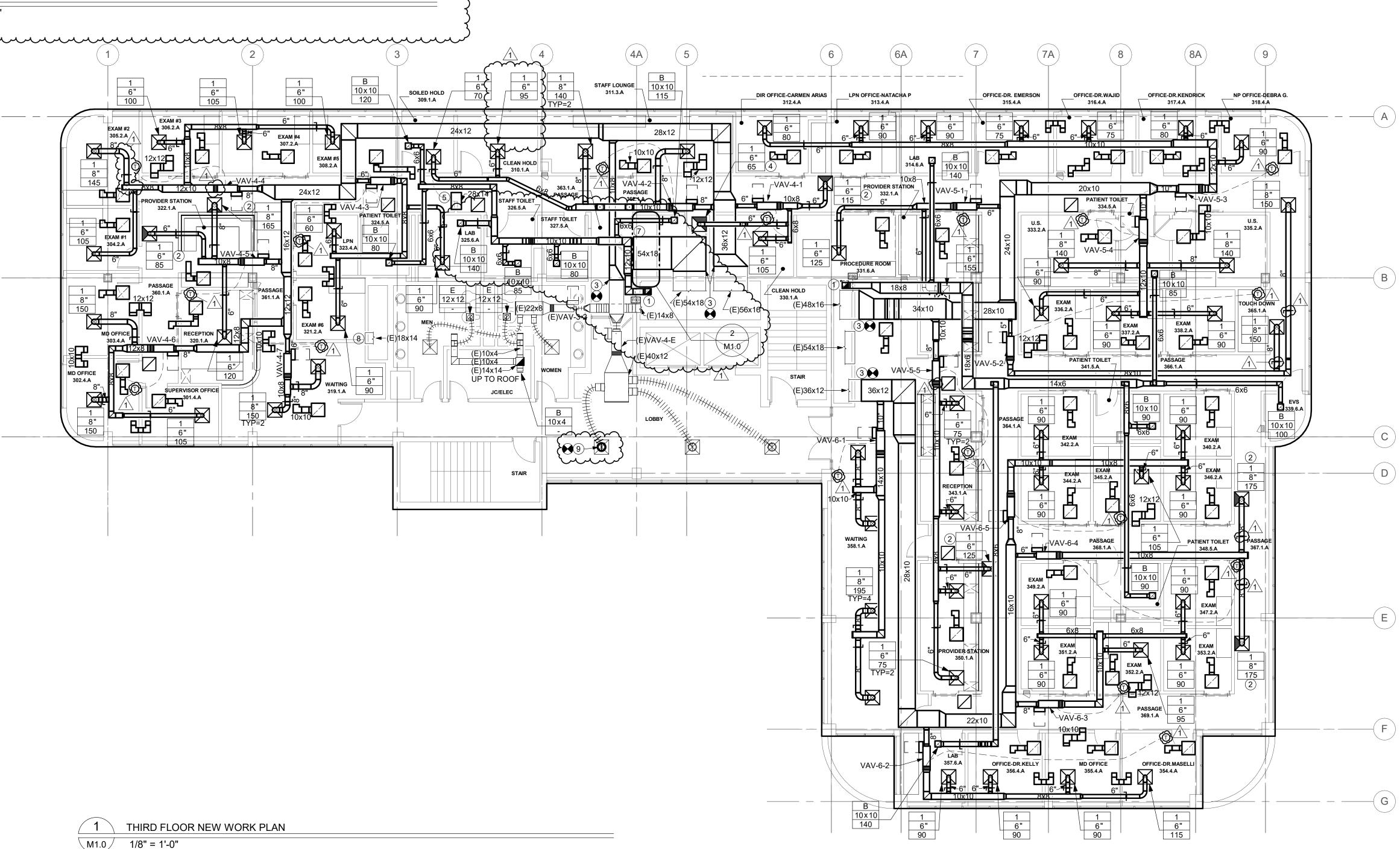
# THIRD FLOOR MECHANICAL NEW **WORK PLAN**

PROJECT NUMBER 21035a DATE 03/07/2022

DRAWING NUMBER

CON# PENDING SCALE

AS NOTED



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- B. AIRFLOWS NOTED TO BE SERVING EXISTING SPACES NOT IN SCOPE, WERE TAKEN FROM THE PRETEST DATED 02/22/2022.

WHILE PROVIDING PROPER CONDITIONED AIR.

## **M1.1 DRAWING NOTES**

- 1 PROVIDE 10x10 EXHAUST DOWN TO FLOOR BELOW. SEE M1.0 FOR CONTINUATION.
  2 PROVIDE PLENUM CURB AND TAP 10x10 EXHAUST DUCT IN TO SIDE OF PLENUM. KEEP EF
  25' AWAY FROM ANY OUTSIDE AIR INTAKES.
  3 PROVIDE RS&RL DOWN TO FLOOR BELOW. SIZE PER MANUFACTURER'S
  RECOMMENDATIONS. SEE M1.0 FOR CONTINUATION.
- 4 EXHAUST FAN LOCATION CHOSEN FROM LIMITED FIELD VERIFICATION AND MINIMAL EXISTING CONDITIONS. CONTRACTOR TO CONFIRM LOCATION IS 25 FEET FROM OUTSIDE AIR INTAKES, AND EITHER 10 FEET OR MORE FROM ROOF EDGE OR IN A LOCATION WITH RAILS ARE. IF LOCATION DOES NOT WORK, CONTRACTOR TO SUBMIT ALTERNATE LOCATION IN AN RFI TO ENGINEER ON RECORD.
- 5 PROVIDE ACCU ON EQUIPMENT RAILS. SEE SPECIFICATION FOR DETAILS.

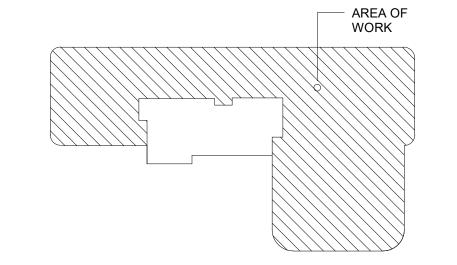
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# KEY PLAN: NOT TO SCALE





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433 STATE STREET, SUITE 410 SCHENECTADY, NY 12305 M/E PROJECT NO.: 213299

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DRAWING TITLE:

# ROOF MECHANICAL NEW WORK PLAN

PROJECT NUMBER 21035a

DATE 03/07/2022

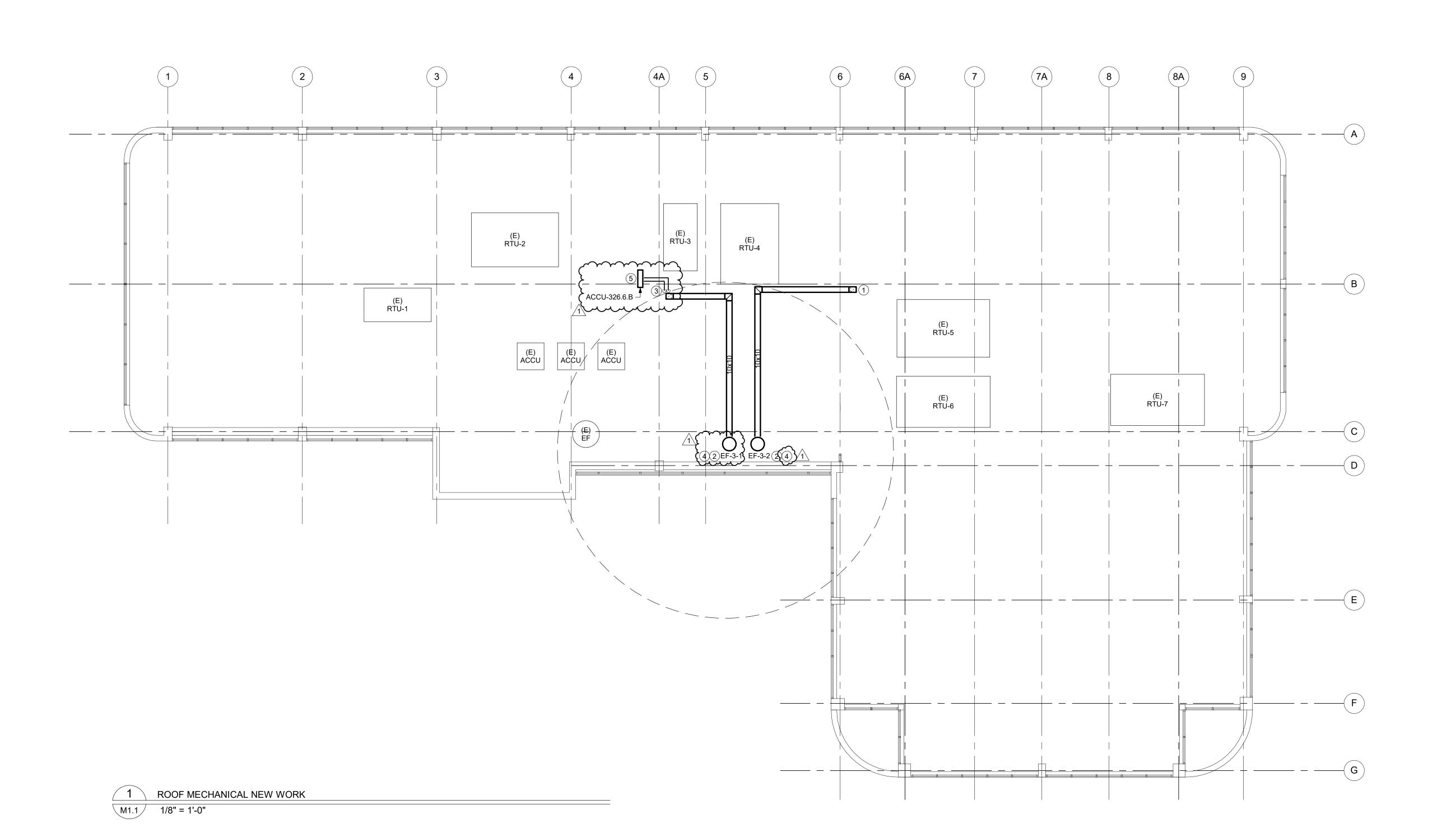
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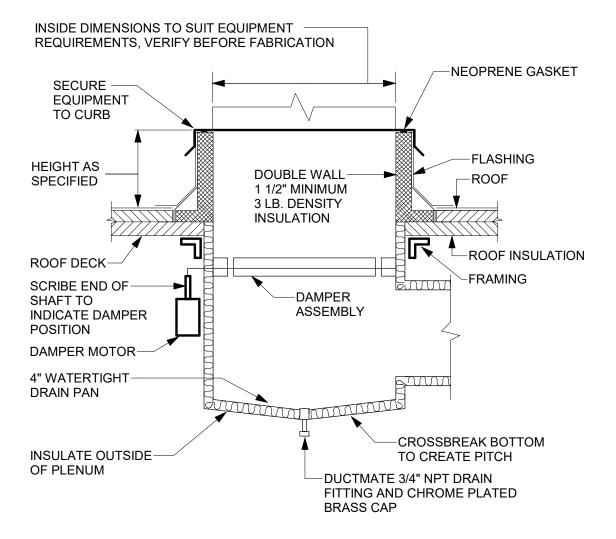
SCALE AS NOTED

CON#

PENDING

M1.1





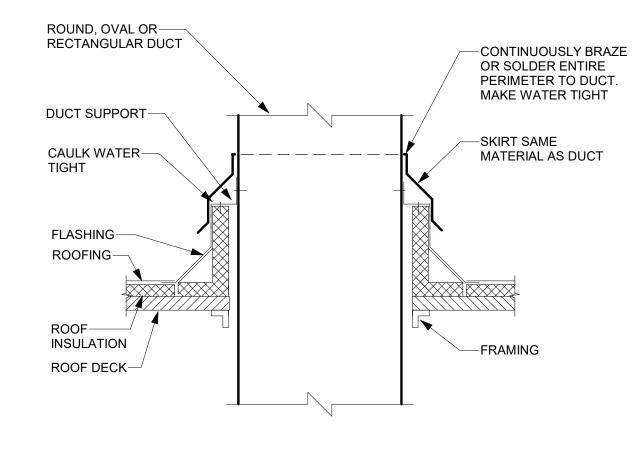
### **DETAIL NOTES:**

- A. G.C. TO PROVIDE ROOF OPENING, FRAMING AND FLASHING.
- B. M.C. TO LOCATE, SET AND SECURE CURB.
- C. PROVIDE SHIMS WHERE REQUIRED TO LEVEL CURB.
- D. PROVIDE WIND RESTRAINT PER SPECIFICATION SECTION 230550-WIND RESTRAINT FOR HVAC SYSTEMS.



√M5.0 /





### **DETAIL NOTES:**

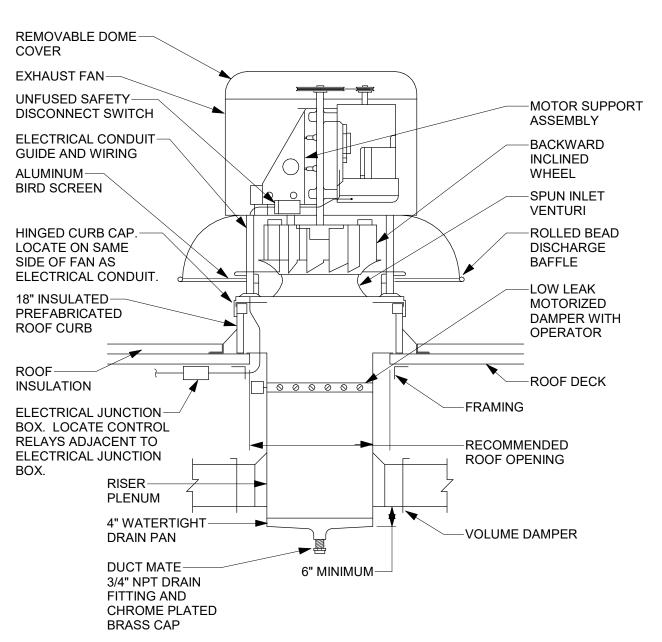
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- D. PROVIDE WIND RESTRAINT PER SPECIFICATION SECTION 230550-WIND RESTRAINT FOR HVAC SYSTEMS.



### **DUCT PENETRATION CURB DETAIL**

M5.0 /



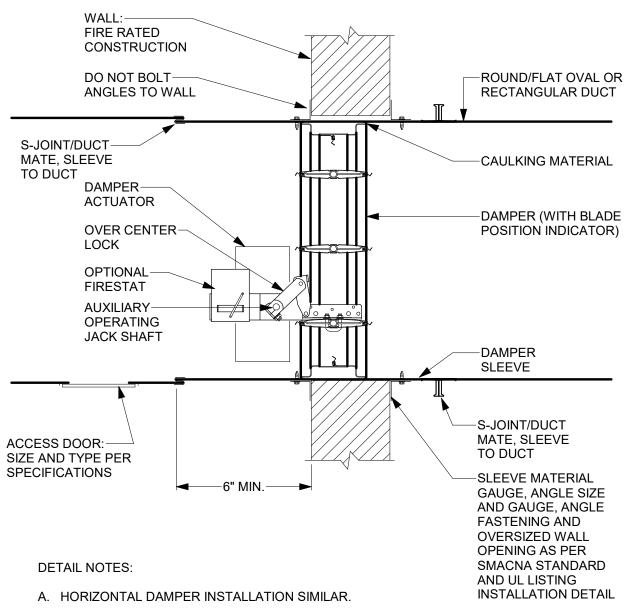


## **DETAIL NOTES:**

- A. BELT DRIVEN FAN SHOWN, DIRECT DRIVE SIMILAR.
- B. REFER TO ROOF CURB DETAIL.
- C. PROVIDE WIND RESTRAINT PER SPECIFICATION SECTION 230550-WIND
- RESTRAINT FOR HVAC SYSTEMS.



DOWNBLAST EXHAUST FAN DETAIL

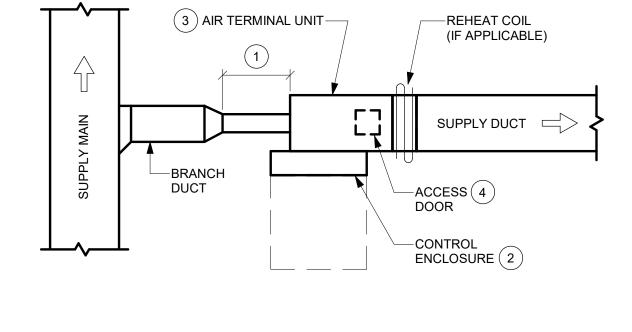


- B. FOR DOUBLE WALL DUCT, USE INSULATION END CAP, INSULATE SLEEVE.
- C. FOR COMBINATION FIRE/SMOKE DAMPERS TO BE PROVIDED IN EXISTING OR NEW DUCTS PENETRATING EXISTING WALLS, THIS CONTRACTOR IS REQUIRED TO REFRAME AND RECONSTRUCT THE EXISTING WALL PENETRATION AND FRAMING AS PER SMACNA FIRE DAMPER OPENING PROTOCOL DETAIL FIG. 3-1 (FIRE DAMPER GUIDE) AS WELL AS MANUFACTURER AND UL LISTING INSTALLATION DETAIL.



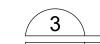
## COMBINATION FIRE/SMOKE DAMPER INSTALLATION DETAIL

M5.0 NTS



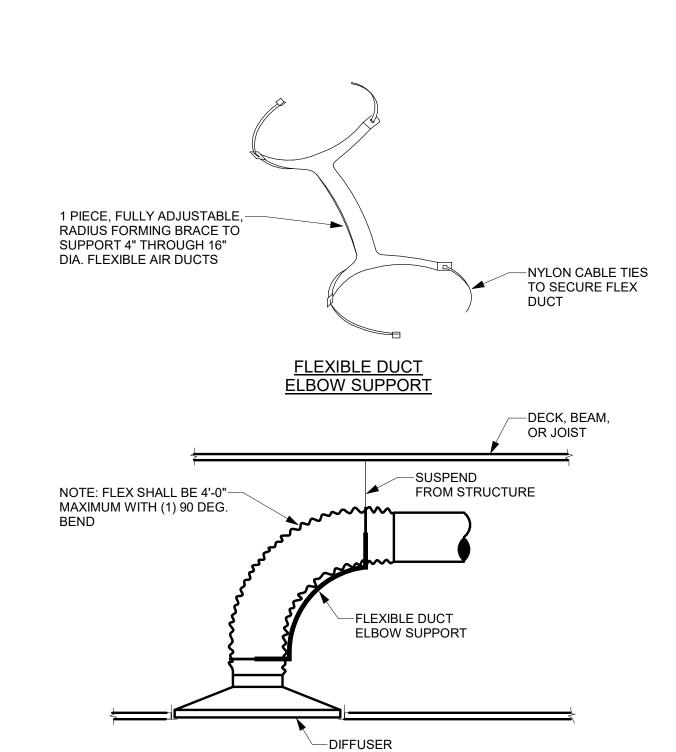
### **KEYED NOTES:**

- (1) RIGID STRAIGHT DUCTWORK UPSTREAM OF THE TERMINAL UNIT SHALL BE A MINIMUM OF 3 TIMES THE DIAMETER OF INLET. NOT TO EXCEED 5'-0" TOTAL IN LENGTH.
- (2) MAINTAIN MINIMUM 1'-6" SERVICE CLEARANCE IN FRONT OF ENCLOSURE TO ALLOW FOR SERVICE/ACCESS.
- (3) COMPONENT ARRANGEMENT MAY VARY BY MANUFACTURER. PROVIDE INSULATION VAPOR BARRIER AS SPECIFIED.
- (4) ACCESS DOOR TO BE LOCATED AT THE BOTTOM OF THE UNIT. CONTRACTOR TO COORDINATE COIL AND CONTROL ENCLOSURE HANDING. ROTATING UNIT IN FIELD SUCH THAT ACCESS DOOR IS ON TOP OF UNIT IS NOT ACCEPTABLE.



VAV BOX DETAIL

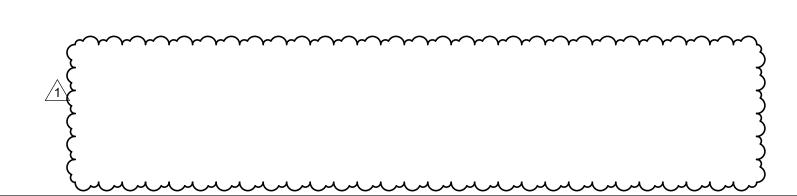
√M5.0 /





SUPPLY AIR DIFFUSER DETAIL - RADIUS FLEXIBLE DUCT - BRACE

**√** M5.0 */* 



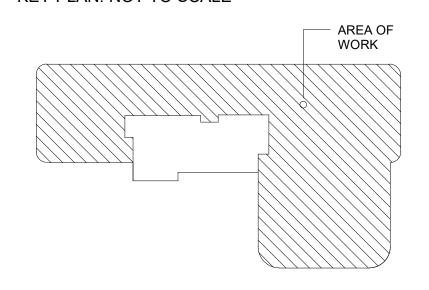
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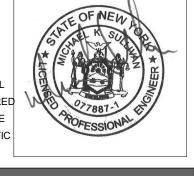
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# **ISSUED DOCUMENTS:** Date: 03/07/2022 BID ISSUE - MEP 03/16/2022 ADDENDA #03

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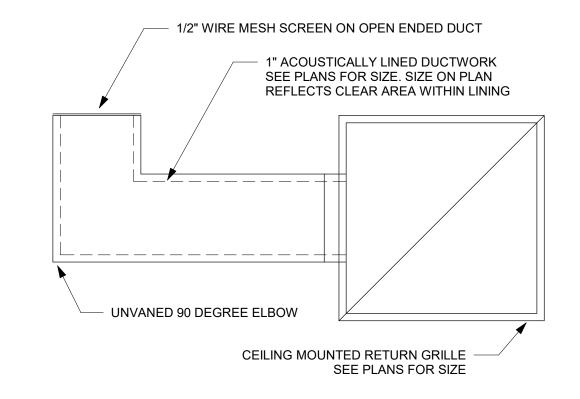
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## DRAWING TITLE:

# MECHANICAL DETAILS

PROJECT NUMBER CON# 21035a PENDING DATE SCALE 03/07/2022 AS NOTED DRAWING NUMBER



TRANSFER GRILLE DETAIL

NOT TO SCALE

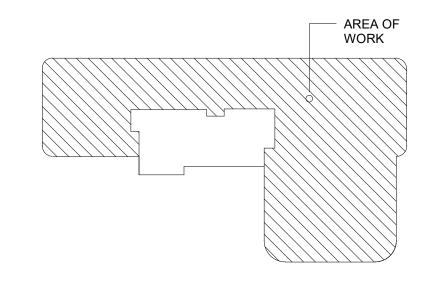
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433 STATE STREET, SUITE 410 SCHENECTADY, NY 12305

www.meengineering.com M/E PROJECT NO.: 213299

STRUCTURAL ENGINEER

ISSUED DOCUMENTS: 
 No:
 Date:
 Description:

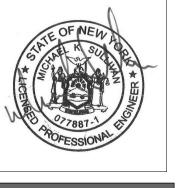
 - 03/07/2022
 BID ISSUE - MEP
 03/16/2022 ADDENDA #03

SEAL

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DATE OF SUCH ALTERATION, AND A SPECIFIC

DESCRIPTION OF THE ALTERATION.



DRAWING TITLE:

MECHANICAL DETAILS

PROJECT NUMBER 21035a DATE 03/07/2022

CON# PENDING

SCALE **AS NOTED** 

VAV - SIN	IGLE DUCT - AIR TER	MINAL	_ UNIT	SCHEDU	JLE - E	ELECTR	IC REHEA	<b>Υ</b> Τ											
UNIT NO.	SERVICE	MAX	MIN	MIN INLET	INLET	RAD N.C.	DISCH N.C.	CAPACITY	NO. OF	AIR SIDE				ELEC. Ch	HARACTE	RISTICS	3	MANUFACTURER & MODEL NO.	REMARKS
		AIR	AIR	PRESS AT	SIZE	AT 1" S.P.	AT 1" S.P.	(KW)	STEPS	HEATING	ENT. AIR	LVG. AIR	AIR P.D.	VOLTS	PHASE	MCA	MOP		
		FLOW	FLOW	MAX CFM	(ln.)					AIR FLOW	TEMP.	TEMP.	(In. WC)						
		(CFM)	(CFM)	(In. WC)	, ,					(CFM)	(DEG. F)	(DEG. F)							
VAV-4-1	PASSAGE	285	170	1	06	15	21	2	SCR	170	50	92	.02	208	3	6.9	15	TRANE VCEF	(1) (2) (3)
VAV-4-2	STAFF LOUNGE	440	430	1	80	20	19	5.5	SCR	430	50	95	.02	208	3	19.1	20	TRANE VCEF	(1) (2) (3)
VAV-4-3	EXAM AND LAB	240	225	1	06	-	19	2.5	SCR	225	50	90	.05	208	3	8.67	10	TRANE VCEF	(1) (2) (3)
VAV-4-4	EXAM ROOMS	555	545	1	80	22	22	7.0	SCR	545	50	95	.04	208	3	24.2	25	TRANE VCEF	(1) (2) (3)
VAV-4-5	PASSAGE AND RECEPTION	370	200	1	08	19	16	2.5	SCR	200	50	94	.05	208	3	8.7	15	TRANE VCEF	(1) (2) (3)
VAV-4-6	MD OFFICES	405	395	1	08	20	17	5.0	SCR	395	50	94	.02	208	3	17.3	20	TRANE VCEF	(1) (2) (3)
VAV-4-7	WAITING ROOM	300	275	1	06	15	20	3.5	SCR	275	50	95	.03	208	3	12.1	15	TRANE VCEF	(1) (2) (3)
VAV-5-1	PROCEDURE AND PROVIDER	280	280	1	06	15	21	4.0	SCR	280	50	99	.01	208	3	13.9	15	TRANE VCEF	(1) (2) (3)
VAV-5-2	PASSAGE	300	200	1	05	19	25	2.5	SCR	200	50	94	.07	208	3	8.7	15	TRANE VCEF	(1) (2) (3)
VAV-5-3	OFFICES	580	540	1	10	17	16	7.0	SCR	540	50	96	.04	208	3	24.2	25	TRANE VCEF	(1) (2) (3)
VAV-5-4	EXAM ROOMS	550	540	1	10	15	15	7.0	SCR	540	50	96	.04	208	3	24.2	25	TRANE VCEF	(1) (2) (3)
VAV-5-5	PASSAGE AND RECEPTION	425	295	1	08	20	19	4.0	SCR	295	50	97	.02	208	3	13.9	15	TRANE VCEF	(1) (2) (3)
VAV-6-1	WAITING ROOM	775	595	1	10	20	17	8.0	SCR	595	50	97	.05	208	3	27.8	30	TRANE VCEF	(1) (2) (3)
VAV-6-2	OFFICES AND LAB	385	385	1	08	19	17	4.5	SCR	385	50	92	.05	208	3	15.6	20	TRANE VCEF	(1) (2) (3)
VAV-6-3	EXAM ROOMS	455	450	1	08	20	20	6.0	SCR	450	50	97	.03	208	3	20.8	25	TRANE VCEF	(1) (2) (3)
VAV-6-4	PASSAGE	350	345	1	06	18	23	4.0	SCR	345	50	92	.04	208	3	13.8	15	TRANE VCEF	(1) (2) (3)
VAV-6-5	EXAM ROOMS	465	460	1	08	21	20	6.0	SCR	460	50	96	.03	208	3	20.8	25	TRANE VCEF	(1) (2) (3)

### REMARKS: PROVIDE DISCONNECT SWITCH.

PROVIDE 1/2" LINER.

FAN SCH	IEDULE																	
UNIT NO.	LOCATION	SERVICE	FAN CHARACTERIST	ICS							MOTOR	R CHA	RACTER	ISTICS			MANUFACTURER & MODEL NO.	REI
			TYPE	BLADE	CFM	S.P.	MAX.	FAN	SONES	DRIVE	RPM	HP	VOLTS	HZ	PHASE	STARTER		
				TYPE		(In. WC)	BHP	RPM										
EF-3-1	ROOF	THIRD FLOOR EXHAUST	DOWNBLAST	BI	775	0.5	0.101	1127	6.3	DIRECT	1300	1/4	115	60	1	(5)	COOK ACE-D 120C13D	(1) (
EF-3-2	ROOF	THIRD FLOOR EXHAUST	DOWNBLAST	BI	775	0.5	0.101	1127	6.3	DIRECT	1300	1/4	115	60	1	(5)	COOK ACE-D 120C13D	(1) (2

PROVIDE DISCONNECT SWITCH. PROVIDE 115V MOTORIZED DAMPER. PROVIDE 120V PREWIRED FAN SPEED CONTROLLER. PROVIDE ALUMINIMUM BIRDSCREEN AND HINGED BASE KIT. REFER TO ELECTRICAL DRAWINGS FOR STARTER INFORMATION. 

( 2. PROVIDE 115V MOTORIZED DAMPER. 3. PROVIDE 120V PREWIRED FAN SPEED CONTROLLER.	REGISTE	R GRILLE ANI	D DIFFUSER S	CHEDULE		
4. PROVIDE ALUMINIMUM BIRDSCREEN AND HINGED BASE KIT. 5. REFER TO ELECTRICAL DRAWINGS FOR STARTER INFORMATION.	TYPE	APPLICATION	MATERIAL	FINISH	MANUFACTURER & MODEL NO.	REMARKS
	1	SUPPLY	STEEL	WHITE	TITUS MODEL OMNI	
	А	RETURN	STEEL	WHITE	TITUS MODEL 355-RL	
	В	EXHAUST	ALUMINUM	ANODIZED	TITUS MODEL 355-FL	

· [	DUCTLES	SS SPLIT SYS	STEM AIR CONDITIO	NING UNIT	SCHEDULE															}
L [	UNIT NO.		LOCATION		INDOOR UNIT				OUTDOOR UNIT						EFFICIENCY		MANUFACTURER & MODEL No.			)
	INDOOR	OUTDOOR	INDOOR	OUTDOOR	UNIT TYPE	AIR FLOW (CFM)	COOLING CAPACITY (MBH)	SOUND PRESSURE (dBA)	REFRIGERANT	VOLTS	PHASE	МСА	BREAKER SIZE (AMPS)	SOUND PRESSURE (dBA)	MINMUM (SEER)	TEST PROCEDURE	INDOOR UNIT	OUTDOOR UNIT	REMARKS	}
	AC-326.6.A	ACCU-326.6.A	ML00 EQUIPMENT ROOM	ROOF	HIGH WALL	382	12	47	R-410A	208	1	15	15	56	25.5	AHRI 210/240	CARRIER 40MAHBQ12XA3	CARRIER 38MARBQ12AA3	1,2,3,4,5,6,7	}

I. INSTALL PER MANUFACTURER'S INSTRUCTIONS.
PROVIDE 120V CONDENSATE PUMP.

- PROVIDE OUTDOOR UNIT STAND TO MOUNT UNIT A MINIMUM OF 18 INCHES ABOVE ROOF LEVEL. QUICKSLING OR EQUAL.
- PROVIDE HARD WIRED CONTROLLER WITH BMS INTEGRATION FOR MONITORING. PROVIDE NECESSARY ACCESSORIES FOR LOW AMBIENT COOLING INCLUDING WIND BAFFLE AND LOW AMBIENT SETTINGS.
- EC TO PROVIDE DISCONNECT.
- INDOOR UNIT AIRFLOW AND SOUND PRESSURE DATA TAKEN FROM MEDIUM FAN SPEED SETTING.

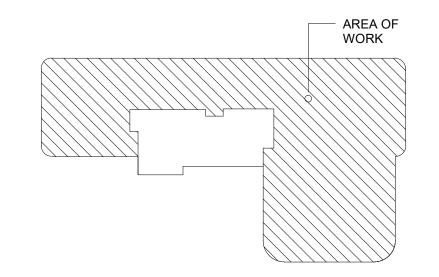
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OUTPATIENT CLINIC THIRD FLOOR 17 SQUADRON BLVD NEW CITY, NY 10956

KEY PLAN: NOT TO SCALE





ARCHITECT 

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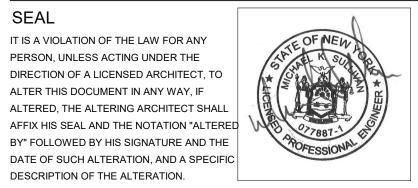
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	03/07/2022	BID ISSUE - MEP
1	03/16/2022	ADDENDA #03
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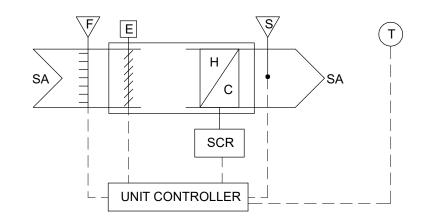


DRAWING TITLE:

**MECHANICAL** SCHEDULES

DESCRIPTION OF THE ALTERATION.

PROJECT NUMBER 21035a DATE 03/07/2022 DRAWING NUMBER CON# PENDING SCALE AS NOTED



CONTROL SEQUENCE FOR VAV W/ ELECTRIC REHEAT:

A. RUN CONDITIOINS - CONTINUOUS: VAV TERMINALS SHALL RUN ACCORDING TO A USER DEFINABLE TIME SCHEDULE IN THE FOLLOWING MODES:

1. OCCUPIED MODE: WHEN THE UNIT IS IN THE OCCUPIED MODE THE VAV SHALL MAINTAIN THE SPACE TEMPERATURE AT THE ACTIVE OCCUPIED HEATING (70°F ADJ.) OR COOLING (75°F ADJ) SETPOINT, APPLICABLE VENTILATION AND AIRFLOW SETPOINTS SHALL BE ÉNFORCED. THE OCCUPIED MODE SHALL BE THE DEFAULT MODE OF THE VAV.

2. UNOCCUPIED MODE: NORMAL OPERATING MODE FOR UNOCCUPIED SPACES OR NIGHTTIME OPERATION. WHEN THE UNIT IS IN UNOCCUPIED MODE THE VAV CONTROLLER SHALL MAINTAIN THE SPACE TEMPERATURE AT THE STORED UNOCCUPIED HEATING (55°F ADJ) OR COOLING (85°F ADJ) SETPOINT. WHEN THE SPACE TEMPERATURE EXCEEDS THE ACTIVE UNOCCUPIED SETPOINT THE VAV SHALL MODULATE TO THE SCHEDULED MINIMUM POSITION.

B. HEAT/COOL SETPOINT: THE SPACE TEMPERATURE SETPOINT SHALL BE DETERMINED BY A LOCAL COMMUNICATED VALUE FROM THE ZONE THERMOSTAT. THE VAV SHALL USE LOCALLY STORED DEFAULT SETPOINTS WHEN NEITHER A LOCAL SETPOINT NOR COMMUNICATED SETPOINT IS PRESENT. IF BOTH A LOCAL SETPOINT AND COMMUNICATED SETPOINT EXIST, THE VAV SHALL USE THE COMMUNICATED VALUE.

C. ZONE UNOCCUPIED OVERRIDE: USED TO TEMPORARILY PLACE THE UNIT INTO THE OCCUPIED OPERATION. OCCUPANTS SHALL BE ABLE TO OVERRIDE THE UNOCCUPIED MODE FROM THE SPACE SENSOR. THE OVERRIDE SHALL LAST FOR A MAXIMUM OF 2 HOURS (ADJ.). THE OCCUPANTS SHALL BE ABLE TO CANCEL THE OVERRIDE FROM THE SPACE SENSOR AT ANY TIME. DURING THE OVERRIDE THE UNIT SHALL OPERATE IN OCCUPIED MODE.

D. COOLING MODE: THE CONTROLLER SHALL MODULATE THE VAV BETWEEN IT'S MAXIMUM COOLING AIRFLOW AND IT'S MINIMUM AIRFLOW TO MAINTAIN SPACE

E. REHEAT COIL: THE CONTROLLER SHALL MEASURE THE ZONE TEMPERATURE AND MODULATE THE REHEATING COIL TO MAINTAIN ITS HEATING SETPOINT.

F. REHEAT HIGH DISCHARGE AIR TEMPERATURE LIMIT: THE CONTROLLER SHALL MEASURE THE DISCHARGE AIR TEMPERATURE AND LIMIT REHEATING IF THE DISCHARGE AIR TEMPERATURE IS MORE THAN 25°F (ADJ.) ABOVE THE ZONE TEMPERATURE.

G. ELECTRIC SILICON CONTROLLED RECTIFIER REHEAT (SCR): IF THE SPACE TEMPERATURE IS AT THE HEATING SETPOINT. THE ELECTRIC HEATER SHALL MODULATE AS REQUIRED TO MAINTAIN SPACE TEMPERATURE AT ITS HEATING SETPOINT WHILE THE VAV OPERATES AT ITS HEATING AIRFLOW SETPOINT. UNIT SHALL MAINTAIN A NEUTRAL DISCHARGE AIR TEMPERATURE AS TO NOT EFFECT SPACE TEMPERATURE. UPON CALL FOR HEATING FROM THE SPACE, THE UNIT SHALL MODULATE THE HEATER AS DESCRIBED IN "E" ABOVE.



TYPICAL VAV W/ ELECTRIC REHEAT CONTROL SEQUENCE

EXHAUST FAN EF-3-1 AND EF-3-2 CONTROLS SEQUENCE:

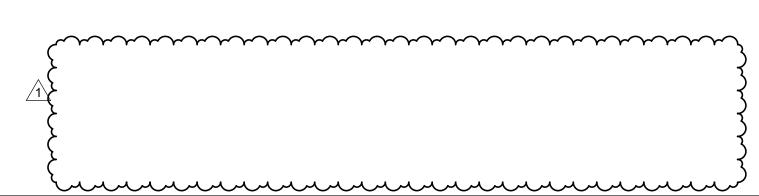
A. RUN CONDITIOINS - THE FAN SHALL BE ENERGIZED UPON SIGNAL FROM AN AUTOMATED TIMECLOCK BY MC. TIMECLOCK TO BE 7-DAY PROGRAMMABLE AND FULLY ADJUSTABLE. COORDINATE WITH EC TO POWER TIE-IN. 1. TIMECLOCK TO BE INTIALLY SCHEDULE TO BE RUN FROM 8AM - 5PM (ADJ.). COORDINATE OCCUPANCY SCHEDULE WITH OWNER'S REPRESENTATIVÉ.

B. MOTORIZED DAMPER TO BE WIRED IN PARALLEL WITH FAN MOTOR SUCH THAT WHEN FAN IS ENERGIZED, THE DAMPER ACUTATOR IS ENERGIZED.

C. FAN SPEED CONTROLLER PRE-WIRED ON FAN.

EF-3-1 AND EF-3-1 CONTROL SEQUENCE

M8.0



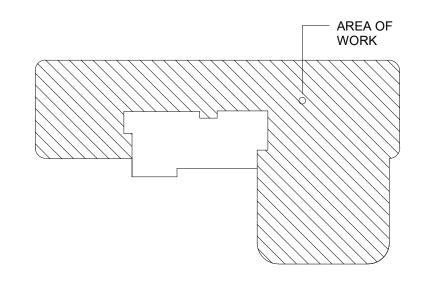
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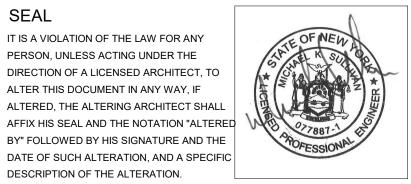
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**DRAWING TITLE:** 

**MECHANICAL** CONTROLS

PROJECT NUMBER 21035a DATE 03/07/2022

DRAWING NUMBER

SCALE AS NOTED

PENDING

CON#

## **DEFINITIONS (APPLY TO ALL DRAWINGS):**

- A. INDICATE: THE TERM "INDICATE" REFERS TO GRAPHIC REPRESENTATIONS, OR SCHEDULES ON THE DRAWINGS, OTHER PARAGRAPHS OR SCHEDULES IN THE SPECIFICATIONS, AND SIMILAR REQUIREMENTS IN THE CONTRACT DOCUMENTS. WHERE SUCH AS "SHOWN", "NOTED", "SCHEDULED", AND "SPECIFIED" ARE USED, IT IS TO HELP THE READER LOCATE THE REFERENCE, NO LIMITATION ON LOCATION IS INTENDED.
- B. DESCRIBED: TERMS SUCH AS "DIRECTED", "REQUESTED", "AUTHORIZED", "SELECTED", "APPROVED", "REQUIRED", AND "PERMITTED" MEAN "DIRECTED BY THE ENGINEER", "REQUESTED BY THE ENGINEER", AND
- C. APPROVE: THE TERM "APPROVED", WHERE USED IN CONJUNCTION WITH THE ENGINEER'S ACTION ON THE CONTRACTOR'S SUBMITTALS, APPLICATIONS, AND REQUESTS, IS LIMITED TO THE ENGINEER'S DUTIES AND RESPONSIBILITIES AS STATED IN GENERAL AND SUPPLEMENTARY CONDITIONS.
- D. FURNISH: THE TERM "FURNISH" IS USED TO MEAN "SUPPLY AND DELIVER TO THE PROJECT SITE, READY FOR UNLOADING, UNPACKING, ASSEMBLY, INSTALLATION, AND SIMILAR OPERATIONS."
- E. INSTALL: THE TERM "INSTALL IS USED TO DESCRIBE OPERATIONS AT PROJECT SITE INCLUDING THE ACTUAL "UNLOADING, UNPACKING, ASSEMBLY, ERECTION, PLACING, ANCHORING, APPLYING, WORKING TO DIMENSION, FINISHING, CURING, PROTECTING, CLEANING, AND SIMILAR OPERATIONS."
- F. PROVIDE: THE TERM "PROVIDE" MEANS "TO FURNISH AND INSTALL COMPLETE AND READY FOR THE INTENDED
- G. INSTALLER: AN "INSTALLER" IS THE CONTRACTOR OR AN ENTITY ENGAGED BY THE CONTRACTOR, EITHER AS AN EMPLOYEE, SUBCONTRACTOR, OR SUB-SUBCONTRACTOR, FOR PERFORMANCE OF A PARTICULAR CONSTRUCTION ACTIVITY, INCLUDING INSTALLATION, ERECTION, APPLICATION, AND SIMILAR OPERATIONS. INSTALLERS ARE REQUIRED TO BE EXPERIENCED IN THE OPERATIONS THEY ARE ENGAGED TO PERFORM.
- H. ELECTRONIC SYSTEMS: THE TERM "ELECTRONIC SYSTEMS" IS USED TO DESCRIBE ALL LOW VOLTAGE SYSTEMS GENERALLY REFERRED TO AS "SPECIAL SYSTEMS." THESE SYSTEMS INCLUDE BUT NOT NECESSARILY LIMITED TO ALL SYSTEMS WHICH UTILIZE VOLTAGES OF LESS THAN 71 VOLTS SUCH AS SOUND SYSTEMS, VIDEO SYSTEMS, TV SYSTEMS, SECURITY SYSTEMS, VOICE AND DATA CABLING SYSTEMS, ETC.

## **GENERAL REMOVAL NOTES:**

- A. DISCONNECT AND REMOVE ALL EXISTING ELECTRICAL EQUIPMENT SHOWN TO BE REMOVED, OR REQUIRED TO BE REMOVED AS A RESULT OF CEILING, PARTITION OR WALL DEMOLITION WORK, COORDINATE REQUIREMENT WITH GENERAL CONTRACTOR. DISCONNECT AND REMOVE ALL EXISTING LIGHTING FIXTURES AND WIRING DEVICES INDICATED TO BE REMOVED OR REQUIRED TO BE REMOVED, AND ALL ASSOCIATED BRANCH CIRCUIT AND SPECIAL SYSTEMS WIRING AND RACEWAYS. WHERE EXISTING DEVICES ARE NOT BEING REUSED, THEY AND THEIR ASSOCIATED WIRING SHALL BE COMPLETELY REMOVED. DISCONNECT AND REMOVE ALL EMPTY AND ABANDONED RACEWAYS. CUT FLUSH WITH FLOOR OR WALL WHERE APPLICABLE AND PLUG CONDUIT WATERTIGHT.
- B. SALVAGEABLE MATERIALS SHALL BE REVIEWED AND IDENTIFIED BY THE OWNER. ITEMS SELECTED BY THE OWNER SHALL BE DELIVERED TO A SELECTED LOCATION ON THE OWNER'S PROPERTY BY THIS CONTRACT IN AN EQUAL CONDITION PRIOR TO THIS WORK. THIS SHALL INCLUDE (BUT NOT BE LIMITED TO) ALL LUMINAIRES AND LIGHTING CONTROLS; REFER TO THE SPECIFICATIONS FOR ADDITIONAL SALVAGEABLE
- C. PROVIDE ALL WIRING AND CONNECTIONS REQUIRED TO MAINTAIN BRANCH CIRCUITS OR SPECIAL SYSTEMS CIRCUIT CONTINUITY TO DEVICES AND EQUIPMENT REQUIRED TO REMAIN WHETHER LOCATED WITHIN OR OUTSIDE OF THE PROJECT AREA, EITHER UPSTREAM OR DOWNSTREAM OF DEVICES REQUIRED TO BE

G/GND

HVAC

KVA

LED

LTG

MC

MCB

MLO

NEC

NTS

PNL

RMC

SPEC

SWBD

TYP

UNO

UON

UPS

WP

IDF

MDF

GROUND

KILOVOLT

KILOWATT

LIGHTING

MICROWAVE

MAIN LUG ONLY

NOT APPLICABLE

NORMALLY CLOSED

NOT IN CONTRACT

NORMALLY OPEN

NOT TO SCALE

PHOTOVOLTAIC

REFRIGERATOR

SPECIFICATION

SWITCHBOARD

UNDERGROUND

WIRE OR WATT

WEATHERPROOF

**TELEVISION** 

**TYPICAL** 

VOLT

RIGID METAL CONDUIT

OVERHEAD

**PANEL** 

PHASE

POLE

PULL BOX

SPACE

NON-METALLIC TUBING

HAND HOLE

HORSEPOWER

JUNCTION BOX

KILOVOLT AMPERE

KILOWATT HOUR

LIGHT EMITTING DIODE

MAIN CIRCUIT BREAKER

MINERAL INSULATED CABLE

MANUAL TRANSFER SWITCH

NATIONAL ELECTRICAL CODE

MOUNTED ABOVE COUNTER

POTENTIAL TRANSFORMER

PLUMBING CONTRACTOR OR PHOTO CELL

MOUNTED UNDER COUNTER HEIGHT OR

UNDERGROUND COMMUNICATION

UNDERGROUND ELECTRICAL

UNDERWRITER'S LABORATORY

UNLESS NOTED OTHERWISE

UNLESS OTHERWISE NOTED

MAIN DISTRIBUTION FRAME

UNINTERRUPTIBLE POWER SUPPLY

INTERMEDIATE DISTRIBUTION FRAME

NON-METALLIC SHEATHED CABLE

METAL CLAD CABLE

HEATING, VENTILATING AND AIR CONDITIONING

- D. PARTIAL BRANCH CIRCUIT WIRING DENOTING EXISTING CIRCUITING OR CONTROL IS SHOWN FOR REFERENCE ONLY, AND IS NOT INTENDED TO ILLUSTRATE COMPLETE WIRING SYSTEM. FIELD VERIFY EXISTING WIRING AND CONNECTIONS.
- E. CUTTING AND PATCHING OF EXISTING BUILDING FINISHES AND ELEMENTS TO FACILITATE ELECTRICAL REMOVAL WORK SHALL BE THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR.
- F. PROVIDE A TEST, PRIOR TO BEGINNING ELECTRICAL REMOVAL WORK, OF EACH AND EVERY SYSTEM AFFECTED BY THE WORK TO ASCERTAIN AND DOCUMENT PRE-CONSTRUCTION CONDITIONS OF EACH INDIVIDUAL DEVICE ON EACH SYSTEM. SYSTEMS AND DEVICES WHICH ARE UNTESTED WILL BE ASSUMED TO BE IN PERFECT WORKING ORDER PRIOR TO THE BEGINNING OF CONSTRUCTION. TEST THESE AND NEW DEVICES AND SYSTEMS AFTER CONSTRUCTION TO INDICATE AND DOCUMENT POST-CONSTRUCTION CONDITIONS. ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR RETURNING ALL EXISTING SYSTEMS AND DEVICES TO PRE-CONSTRUCTION CONDITION OR BETTER. OBTAIN THE SERVICES OF A CERTIFIED TESTING ORGANIZATION TO TEST AND DOCUMENT EACH SYSTEM. BOTH PRE AND POST CONSTRUCTION. SUCH SYSTEMS SHALL INCLUDE, BUT ARE NOT NECESSARILY LIMITED TO: GENERATOR DISTRIBUTION SYSTEM, SECURITY ACCESS CONTROL SYSTEM, PUBLIC ADDRESS SYSTEM, LOCAL AREA NETWORK SYSTEM, TELEPHONE SYSTEM, NURSE CALL SYSTEM, EMERGENCY EGRESS LIGHTING SYSTEM, INTRUSION DETECTION SYSTEMS, AUTOMATIC LIGHTING CONTROL SYSTEM AND FIRE ALARM SYSTEM. SUBMIT TEST RESULTS TO OWNER AND ENGINEER FOR REVIEW AND APPROVAL.

# **GENERAL NOTES (APPLY TO ALL DRAWINGS):**

- A. ALL ELECTRICAL WORK SHALL BE DONE IN ACCORDANCE WITH THE LATEST ADOPTED N.E.C./NFPA 70
- B. THE CONTRACTOR SHALL PERFORM HIS WORK BY COORDINATING WITH THE FACILITY REPRESENTATIVE REGARDING SUCH THINGS AS NOISE, WORK AREA LIMITATIONS, ALLOWABLE WORKING HOURS, UTILITY INTERRUPTIONS, ETC.
- C. ALL EXISTING SYSTEMS THAT PASS THROUGH OR ORIGINATE IN THE RENOVATED SPACE SHALL BE MAINTAINED, REROUTED, RELOCATED, ETC. SUCH THAT THE FACILITY DOES NOT EXPERIENCE LOSS OF ANY SYSTEMS AND/OR UTILITIES. WORK FOR SUCH ITEMS MUST BE COORDINATED WITH THE FACILITY REPRESENTATIVE FOR TEMPORARY OPERATIONS AND/OR INTERRUPTION.
- D. THE CONTRACTOR SHALL INSTALL TEMPORARY FACILITIES/PRECAUTIONS TO GUARD AGAINST WORK THAT IS AN INFECTION CONTROL HAZARD OR NUISANCE (SUCH AS NOISE, DUST, OPERATIONS INTERRUPTION, ETC.). THE CONTRACTOR SHALL COMPLY WITH FACILITY REPRESENTATIVES FOR THE COORDINATION, LOCATION, AND QUALITY OF THESE TEMPORARY PROVISIONS.
- E. ALL WORK AREAS SHALL BE KEPT CLEAN AND ORDERLY AT ALL TIMES. OPEN-ENDED ITEMS SUCH AS CONDUITS SHALL ALWAYS BE COVERED AND PROTECTED TO PROHIBIT ACCUMULATION OF CONSTRUCTION DUST/DEBRIS.
- F. CONTRACTOR SHALL COORDINATE ALL THIRD PARTY SYSTEM INSPECTIONS, TESTING, AND CERTIFICATIONS. THE CONTRACTOR SHALL PROVIDE THE REQUIRED CERTIFICATIONS AND A LETTER STATING THAT SYSTEMS HAVE BEEN INSTALLED AND PERFORMED IN ACCORDANCE WITH THE PLANS, SPECIFICATIONS AND MEET PROJECT/CONTRACT REQUIREMENTS.
- G. CONDUIT RUNS ARE SCHEMATIC ONLY. ALL CONDUIT RUNS SHOULD TAKE THE SHORTEST MOST DIRECT ROUTE POSSIBLE. CONDUIT RUNS MAY HAVE A MAXIMUM OF (3) 90` BENDS. IF ADDITIONAL BENDS ARE REQUIRED, PROVIDE PULLBOX.
- H. ALL CIRCUITS SHALL HAVE A CONTINUOUS NEUTRAL. NO SHARING OF NEUTRALS WILL BE ALLOWED ON ANY BRANCH CIRCUIT WIRING.
- I. BRANCH CIRCUITS MAY BE TYPE MC CABLE BETWEEN HOMERUN JUNCTION BOX AND EQUIPMENT/DEVICE CONNECTION IN DRYWALL PARTITIONS AND ABOVE CEILING. HOMERUN JUNCTION BOX TO BE A MAXIMUM OF 20 FT. FROM EQUIPMENT/DEVICE. REFER TO SPECIFICATION SECTION 260501.
- J. ALL POWER/DATA/SYSTEMS SHALL BE ROUTED THROUGH CORRIDOR IN A NEAT AND WORKLIKE MANNER, WHILE ENTERING THE ROOM AT A COMMON LOCATION. PROVIDE A FIRE RATED SLEEVE FOR EACH PENETRATION IN A RATED WALL, AND A TYPICAL SLEEVE FOR ALL NON-RATED PENETRATION LOCATIONS.
- K. PROVIDE INSULATED GREEN GROUND WIRE IN ALL BRANCH CIRCUITS SIZED PER N.E.C. REQUIREMENTS. ALL CIRCUITS TO BE INSTALLED IN METALLIC CONDUIT SUITABLE FOR GROUNDING.
- L. PROVIDE OUTLET BOX MOLDABLE PUTTY PADS ON BACK, SIDES OF ALL OUTLETS AND BACK BOXES IN COMMON WALLS TO MEET OR EXCEED COMPLIANCE WITH UL FIRE RATING OF WALL. MOLDABLE PUTTY PADS SHALL BE PROVIDED FOR DEVICE BOXES MOUNTED WITHIN 24" OF HORIZONTAL SPACING, BOXES EXCEEDING 16 SQUARE INCHES IN SIZE. OR THE AGGREGATE AREA OF THE BOXES EXCEEDS 100 SQUARE FEET OF THE WALL. ALSO PROVIDE MOLDABLE PUTTY PADS FOR BOXES INSTALLED BACK-TO-BACK CLOSER THAN 2'-0" IN RATED WALLS.
- M. ALL LOW VOLTAGE WIRING, CONNECTIONS, TESTING OF THE DOOR ACCESS SYSTEM IS BY OTHERS. EC TO COORDINATE ALL PATHWAYS WITH DOOR HARDWARE PROVIDER & SECURITY SYSTEM PROVIDER.
- N. EACH BRANCH CIRCUIT HOMERUN CONDUIT SHALL HAVE NO MORE THAN THREE BRANCH CIRCUITS.

	ABBREVIATIONS	BASIC	MATERIALS AND METHODS
ABBREV.	DESCRIPTION	SYMBOL	DESCRIPTION
A AIC AFF	AMPERE AMPERE INTERRUPTING CURRENT ABOVE FINISHED FLOOR	TVIP SP	GANGED DEVICES
AFG AL ASD AUTO AV AWG C	ABOVE FINISHED GRADE ALUMINUM ADJUSTABLE SPEED DRIVE AUTOMATIC AUDIOVISUAL AMERICAN WIRE GAUGE CONDUIT	Φ	DUPLEX RECEPTACLE, SUBSCRIPTS INDICATE TYPE:  R - REFRIGERATOR GFI - GROUND FAULT CIRCUIT INTERRUPTER U - (2) INTEGRATED USB PORTS AC - ABOVE COUNTER UC - UNDER COUNTER
CATV CB	CABLE TELEVISION CIRCUIT BREAKER	₩	TWO DUPLEX RECEPTACLE, SINGLE COVER
CCTV CLG	CLOSED CIRCUIT TELEVISION CEILING		CAMERA (FOR COORDINATION PURPOSES ONLY)
CM CONTR	CONSTRUCTION MANAGER CONTRACTOR	(E)	EXISTING TO REMAIN - INDICATES EXISTING ITEM SHALL REMAIN. MAINTAIN EXISTING ELECTRICAL CONNECTIONS UNLESS OTHERWISE NOTED.
CONT CPT CT CU	CONTACTOR CONTROL POWER TRANSFORMER CABLE TRAY COPPER	(ER)	EXISTING TO BE RELOCATED - INDICATES EXISTING ITEM SHALL BE RELOCATED. DISCONNECT AND REMOVE, REINSTALL AT NEW LOCATION AND RECONNECT ITEM AS REQUIRED.
DP DN EA EC	DISTRIBUTION PANEL  DOWN  EACH  ELECTRICAL CONTRACTOR	(R)	EXISTING TO BE REPLACED - INDICATES EXISTING ITEM SHALL BE REPLACED. RECONNECT TO EXISTING ELECTRICAL CONNECTIONS UNLESS OTHERWISE NOTED.
EG ELEC	EQUIPMENT GROUND ELECTRIC	×	REFERENCE TO DRAWING NOTE
EM EMT	EMERGENCY ELECTRICAL METALLIC TUBING	X	REFERENCE TO DEMOLITION NOTE
EWC EX	ELECTRIC WATER COOLER EXISTING	φ	EXISTING ELECTRICAL OR EQUIPMENT OR DEVICE, DASHED LIGHT LINE WEIGHT IS EXISTING TO BE REMOVED.
FA FACP FBO	FIRE ALARM  FIRE ALARM CONTROL PANEL  FURNISHED BY OTHERS	Φ	EXISTING WIRING OR EQUIPMENT, SOLID LIGHT LINE WEIGHT IS EXISTING.
GC	GENERAL CONTRACTOR  GENERATOR	Φ	HEAVY SOLID LINE WEIGHT IS NEW
GEN GFI	GENERATOR  GROUND FAULT CIRCUIT INTERRUPTER		

POWER DISTRIBUTION AND CONTROL									
SYMBOL DESCRIPTION									
PP-XX	208/120 VOLT PANELBOARD								
M	ELECTRICAL CONNECTION. REFER TO ELECTRIC EQUIPMENT AND CONTROL SCHEDULE FOR DESCRIPTION. LETTERS AND NUMBERS REFER TO "ITEM DESIGNATION" ON THE SCHEDULE.								
<b>+</b>	SINGLE POINT CONNECTION TO EQUIPMENT								

FĀIG Y Y	SCHEDULE, LOWER CASE LETTER INDICATES CONTROL DESIGNATION.
	WALL MOUNTED EMERGENCY LUMINAIRE WITH BATTERY PACK
$\overline{\otimes}$	CEILING MOUNTED EXIT LUMINAIRE
	WALL MOUNTED EXIT LUMINAIRE
	LIGHTING CONTROL
SYMBOL	DESCRIPTION
S3,b	SWITCH, VOLTAGE AS INDICATED ON FIXTURE SCHEDULE, SUBSCRIPTS INDICATE TYPE:
	3 - THREE WAY SWITCH OS - INTEGRAL OCCUPANCY SENSOR VS - INTEGRAL VACANCY SENSOR a,b,c - SWITCHING DESIGNATIONS NUMBER OF LETTERS EQUALS NO. OF GANGED SWITCHES
	DIMMER SWITCH, SUBSCRIPTS INDICATE TYPE:
	OS - INTEGRAL OCCUPANCY SENSOR VS - INTEGRAL VACANCY SENSOR a,b,c - SWITCHING DESIGNATIONS NUMBER OF LETTERS EQUALS NO. OF GANGED SWITCHES
OS	CEILING MOUNTED OCCUPANCY SENSOR
VS	CEILING MOUNTED VACANCY SENSOR. PROVIDE WITH SWITCH CAPABLE OF MANUAL ON AND AUTOMATIC OFF FUNCTIONALITY

C	CALL FOR AID SYSTEM									
SYMBOL	DESCRIPTION									
H	PROVIDE CALL FOR AID TOILET STATIONS SUCH THAT PULL CORD ILLUMINATES LOCAL CALL SYSTEM DOME LIGHT OUTSIDE OF BATHROOM. 36" AFF MOUNTING HEIGHT									
Ю	EMERGENCY CALL SYSTEM DOME LIGHT									
	ACCESS CONTROL									
SYMBOL	DESCRIPTION									

	LUMINAIRES		СОМ	MUNICATIONS SYMBOLS
SYMBOL	DESCRIPTION		SYMBOL	DESCRIPTION
	LUMINAIRE. UPPER CASE LETTERS INDICATE FIXTURE TYPE ON SCHEDULE, LOWER CASE LETTER INDICATES CONTROL DESIGNATION.		□ 2P	COMBINATION POWER & COMMUNICATIONS OUTLET(S). PROVIDE DUPLEX RECEPTACLES, BACKBOX AND 1"C STUBBED TO ABOVE ACCESSIBLE
<b>₽</b> ₽ 9	WALL MOUNTED LUMINAIRE. UPPER CASE LETTERS INDICATE FIXTURE TYPE ON SCHEDULE, LOWER CASE LETTER INDICATES CONTROL DESIGNATION.	/	~~~~	CEILING SPACE WITH PULLCORD FOR DATA.  SUBSCRIPT INDICATES QUANTITIES:  2P (2) PURLEX RECERTACLES
	WALL MOUNTED EMERGENCY LUMINAIRE WITH BATTERY PACK	\ \ \ \	•	DATA OUTLET ONLY. PROVIDE BACKBOX AND 1" CONDUIT STUBBED TO ABOVE ACCESSIBLE CEILING SPACE WITH PULLCORD FOR DATA.
$\otimes$	CEILING MOUNTED EXIT LUMINAIRE	{		SUBSCRIPT INDICATES TYPE: T - TELEPHONE MOUNTED AT 48" AFF
$\overline{\otimes} \overline{\otimes}$	WALL MOUNTED EXIT LUMINAIRE	] \ -	TV	TELEVISION. PROVIDE DUPLEX RECEPTACLE, SINGLE GANG BACKBOX MOUNTED AT 78" AFF, 1" CONDUIT STUBBED TO ACCESSIBLE CEILING WITH PULLCORD. FIELD VERIFY EXACT LOCATION.
	IGHTING CONTROL		DR	DATA RACK

	LIGHTING CONTROL	DK	DATA RACK
//BOL	DESCRIPTION		
3 a,b	SWITCH, VOLTAGE AS INDICATED ON FIXTURE SCHEDULE, SUBSCRIPTS INDICATE TYPE:	ONE	LINE DIAGRAM SYMBOLS
	3 - THREE WAY SWITCH	SYMBOL	DESCRIPTION
	OS - INTEGRAL OCCUPANCY SENSOR VS - INTEGRAL VACANCY SENSOR a,b,c - SWITCHING DESIGNATIONS NUMBER OF		FUSED DISCONNECT SWITCH
	LETTERS EQUALS NO. OF GANGED SWITCHES	_~	NON-FUSED DISCONNECT SWITCH
3 a,b,c	DIMMER SWITCH, SUBSCRIPTS INDICATE TYPE:		THERMAL MAGNETIC MOLDED CASE CIRCUIT BREAKER
4,5,0	OS - INTEGRAL OCCUPANCY SENSOR VS - INTEGRAL VACANCY SENSOR a,b,c - SWITCHING DESIGNATIONS NUMBER OF LETTERS EQUALS NO. OF GANGED SWITCHES	SST LSIG #AT #AF	CIRCUIT BREAKER SOLID STATE TRIP CHARACTERISTICS INDICATED BY SUBSCRIPTS:  AT - TRIP COIL AMPERE RATING AF - FRAME SIZE AMPERE RATING CL - CURRENT LIMITING
os	CEILING MOUNTED OCCUPANCY SENSOR	#/4	L - LONG TIME TRIP S - SHORT TIME TRIP I - INSTANTANEOUS TRIP
<b>/</b> S	CEILING MOUNTED VACANCY SENSOR. PROVIDE WITH SWITCH CAPABLE OF MANUAL ON AND AUTOMATIC OFF FUNCTIONALITY		G - GROUND FAULT TRIP SH - SHUNT TRIP GA - GROUND FAULT TRIP ALARM
			CURRENT TRANSFORMER

	ACCESS CONTROL		
SYMBOL	DESCRIPTION		FIRE ALARM
\(\lambda \text{IC}\rangle	INTERCOM SUB STATION	SYMBOL	DESCRIPTION
CR	CARD READER	F	MANUAL PULL STATION
•	PUSH BUTTON	S	SMOKE DETECTOR
	DOOR OPERATOR	F ◀ A/V	NOTIFICATION APPLIANCE, AUDIBLE AND \ # INDICATES STROBE CANDELA IF OTHER THAN 75. C - INDICATES CEILING
WO	WAVE TO OPEN	F \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	NOTIFICATION APPLIANCE, VISUAL # INDICATES STROBE CANDELA IF OTHER THAN 75. C - INDICATES CEILING

DAMPER.

**POWER METER** 

**GROUND CONNECTION** 

FEEDER SCHEDULE

PANELBOARD

FEEDER DESIGNATION - REFER TO

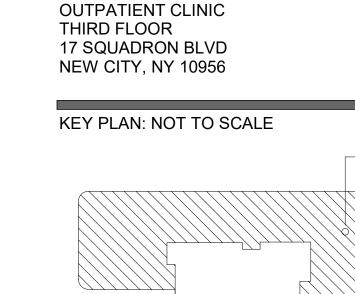
TRANSFORMER, REFER TO SCHEDULE OR ONE-LINE

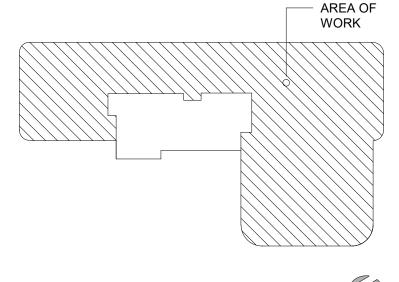
SMOKE DAMPER. PROVIDE 120V CONNECTION AND

ASSOCIATED DUCT SMOKE DETECTOR WITHIN 5' OF

VISUAL

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STRUCTURAL ENGINEER

ISSUED DOCUMENTS: 03/07/2022 BID ISSUE - MEP 03/16/2022 ADDENDA #03

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BY" FOLLOWED BY HIS SIGNATURE AND THE

DATE OF SUCH ALTERATION, AND A SPECIFIC



DRAWING TITLE:

DESCRIPTION OF THE ALTERATION.

# ELECTRICAL LEGEND, **ABBREVIATIONS &** NOTES

PROJECT NUMBER 21035a DATE 03/07/2022

DRAWING NUMBER

PENDING SCALE AS NOTED

CON#

# **GENERAL REMOVAL NOTES**

A. ELECTRICAL DEVICES INDICATED AS EXISTING TO BE RELOCATED (ER) SHALL BE DISCONNECTED AND REMOVED, STORED IN A SECURE LOCATION, AND REINSTALLED IN NEW LOCATIONS AS INDICATED ON

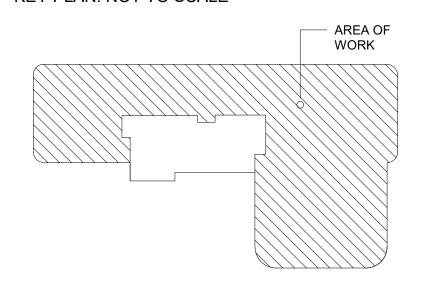
# Montefiore

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OUTPATIENT CLINIC THIRD FLOOR 17 SQUADRON BLVD NEW CITY, NY 10956

### KEY PLAN: NOT TO SCALE





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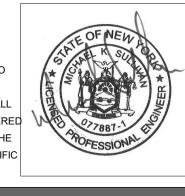
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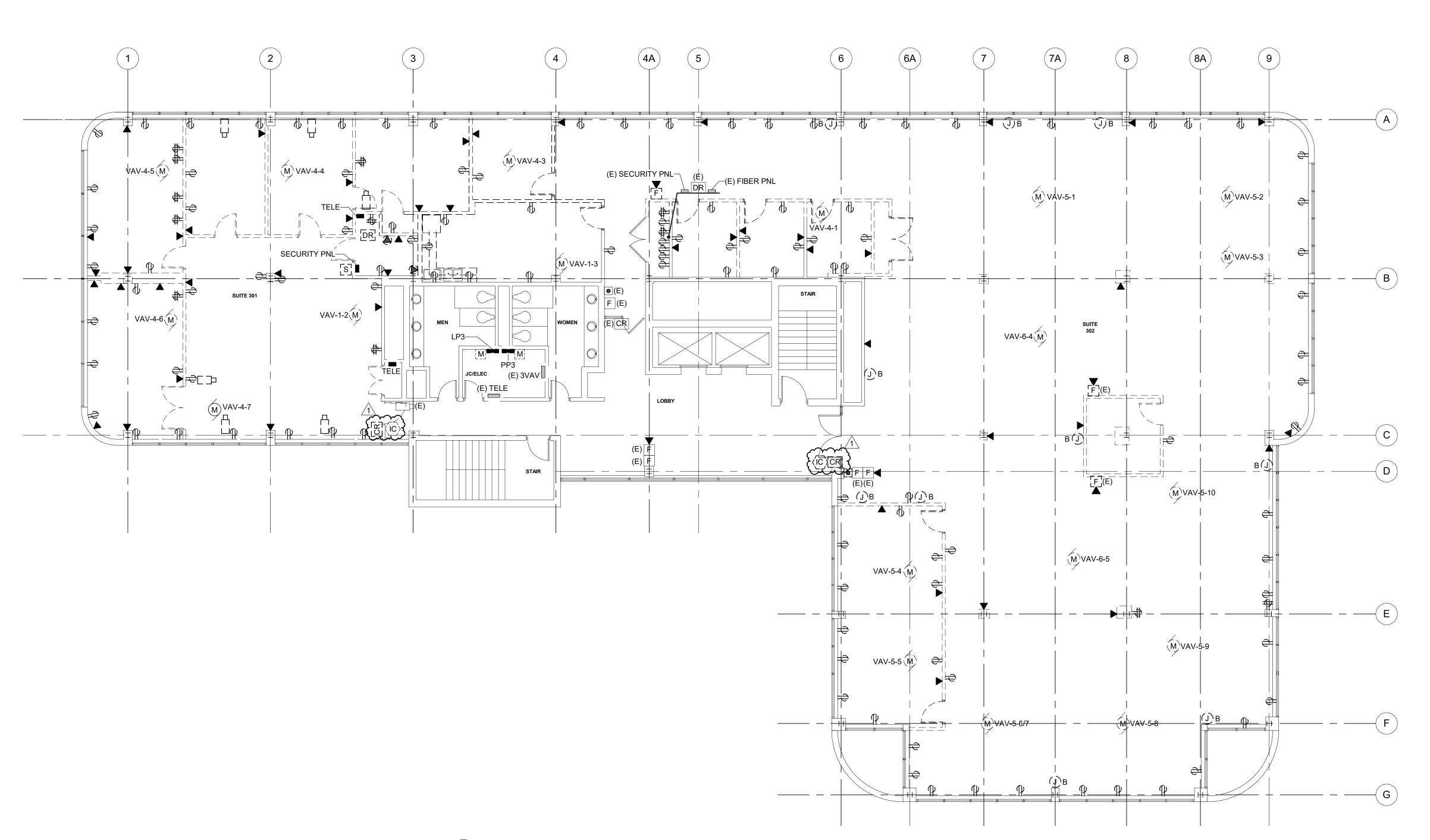
## DRAWING TITLE:

# THIRD FLOOR ELECTRICAL REMOVALS PLAN

PROJECT NUMBER 21035a DATE 03/07/2022

CON # PENDING AS NOTED

DRAWING NUMBER



THIRD FLOOR ELECTRICAL REMOVALS PLAN

ED1.0 1/8" = 1'-0"

# **GENERAL REMOVAL NOTES**

A. ELECTRICAL DEVICES INDICATED AS EXISTING TO BE RELOCATED (ER) SHALL BE DISCONNECTED AND REMOVED, STORED IN A SECURE LOCATION, AND REINSTALLED IN NEW LOCATIONS AS INDICATED ON PLANS. DISCONNECT AND REMOVE ASSOCIATED EXISTING BRANCH CIRCUIT WIRING, CONTROLS, AND SUPPORTS BACK TO SOURCE.

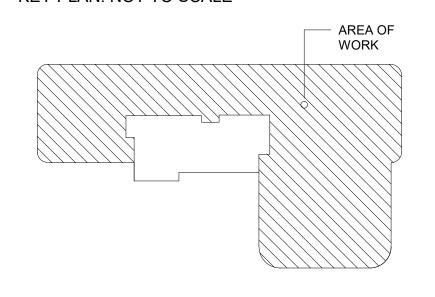
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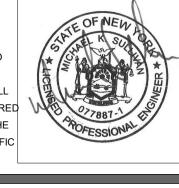
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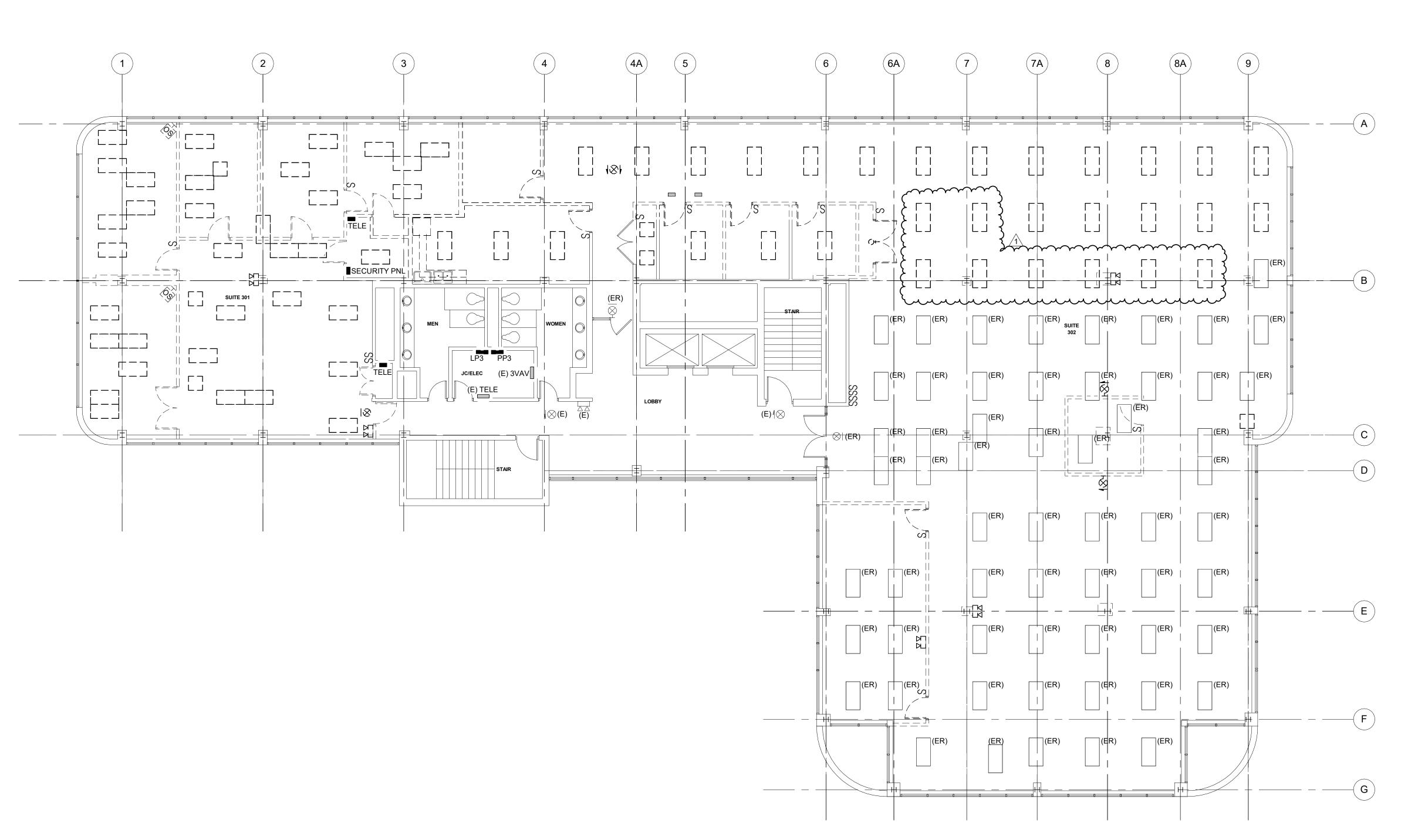
DRAWING TITLE:

# THIRD FLOOR LIGHTING REMOVALS **PLAN**

PROJECT NUMBER 21035a DATE 03/07/2022

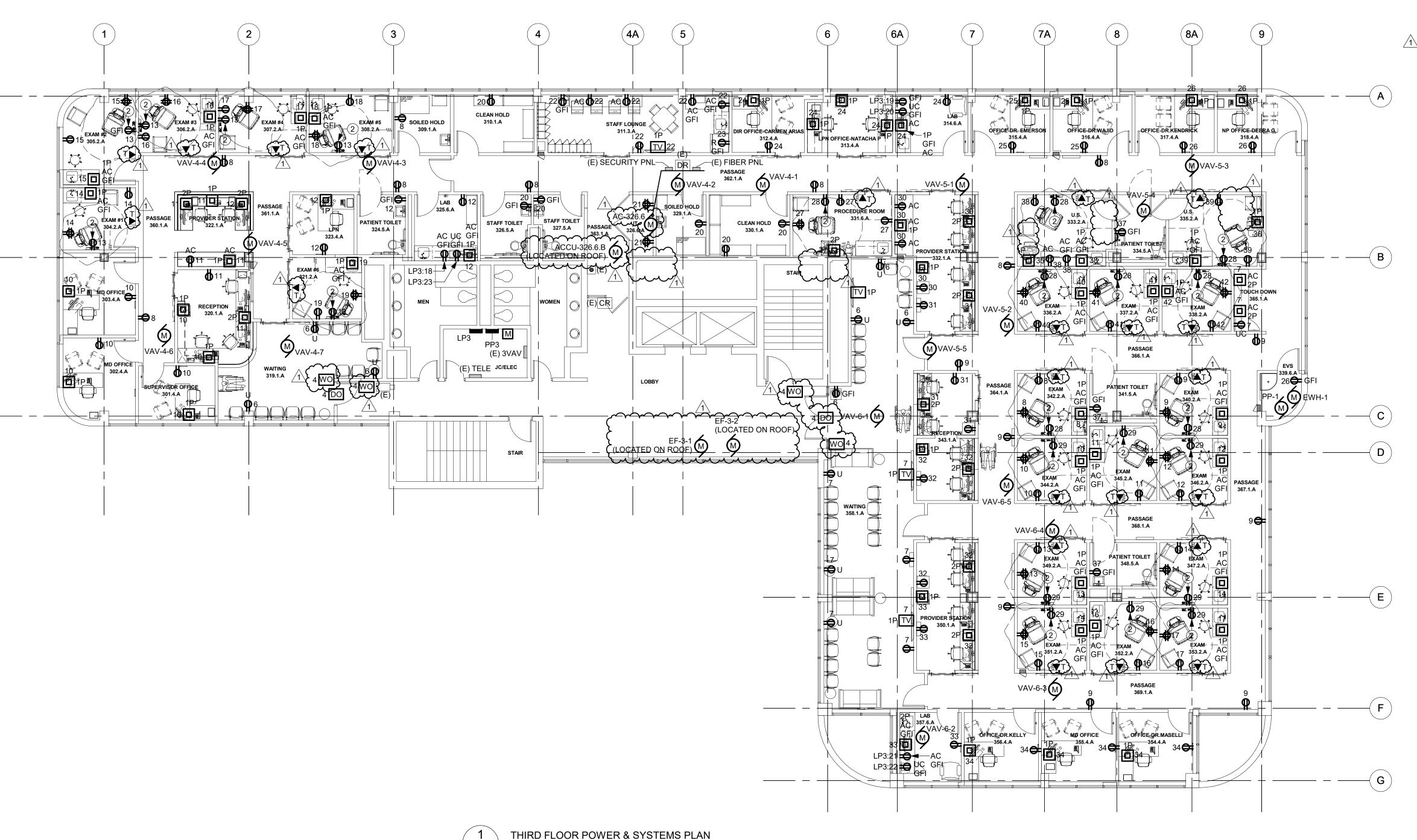
CON # PENDING AS NOTED

DRAWING NUMBER



THIRD FLOOR LIGHTING REMOVALS PLAN

1/8" = 1'-0"



E1.0 1/8" = 1'-0"

# **GENERAL NOTES**

- A. ALL DEVICE MOUNTING HEIGHTS ARE TO BE COORDINATED WITH ARCHITECTURAL ELEVATIONS.
- B. ALL LOW VOLTAGE WIRING, CONNECTIONS AND TESTING OF THE DOOR ACCESS SYSTEM IS BY OTHERS. EC TO COORDINATE ALL PATHWAYS WITH DOOR HARDWARE PROVIDER AND SECURITY SYSTEM PROVIDER. PROVIDE 120V POWER AT ALL ACCESS CONTROL DEVICES AND PROVIDE BACKBOX AND 3/4" CONDUIT STUBBED TO ABOVE ACCESSIBLE CEILING SPACE WITH PULLCORD.
- C. ELECTRICAL DEVICES INDICATED AS EXISTING TO BE RELOCATED (ER) SHALL BE DISCONNECTED AND REMOVED, STORED IN A SECURE LOCATION, AND REINSTALLED IN NEW LOCATIONS AS INDICATED ON
- D. ALL NEW DEVICES ON THIS FLOOR SHALL BE CIRCUITED TO NEW PANELS "LP3" OR "PP3" UNLESS OTHERWISE
- E. HOSPITAL GRADE RECEPTACLES SHALL BE PROVIDED AS REQUIRED BY NFPA 70 AT ALL PATIENT CARE
- F. TAMPER PROOF RECEPTACLES SHALL BE PROVIDED AS REQUIRED BY NFPA 70 AT ALL TOILET ROOMS, WAITING SPACES, OFFICES AND CORRIDORS.

# DRAWING NOTES

. NOT USED. www 2. DUPLEX RECEPTACLE TO BE MOUNTED AT 5'-0" AFF TO POWER MEDICAL WALL PLATES. COORDINATE EXACT LOCATION IN FIELD.

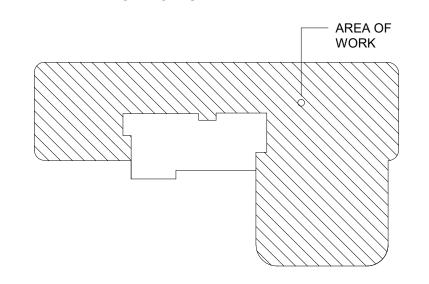
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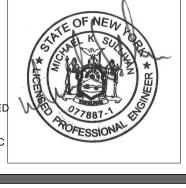
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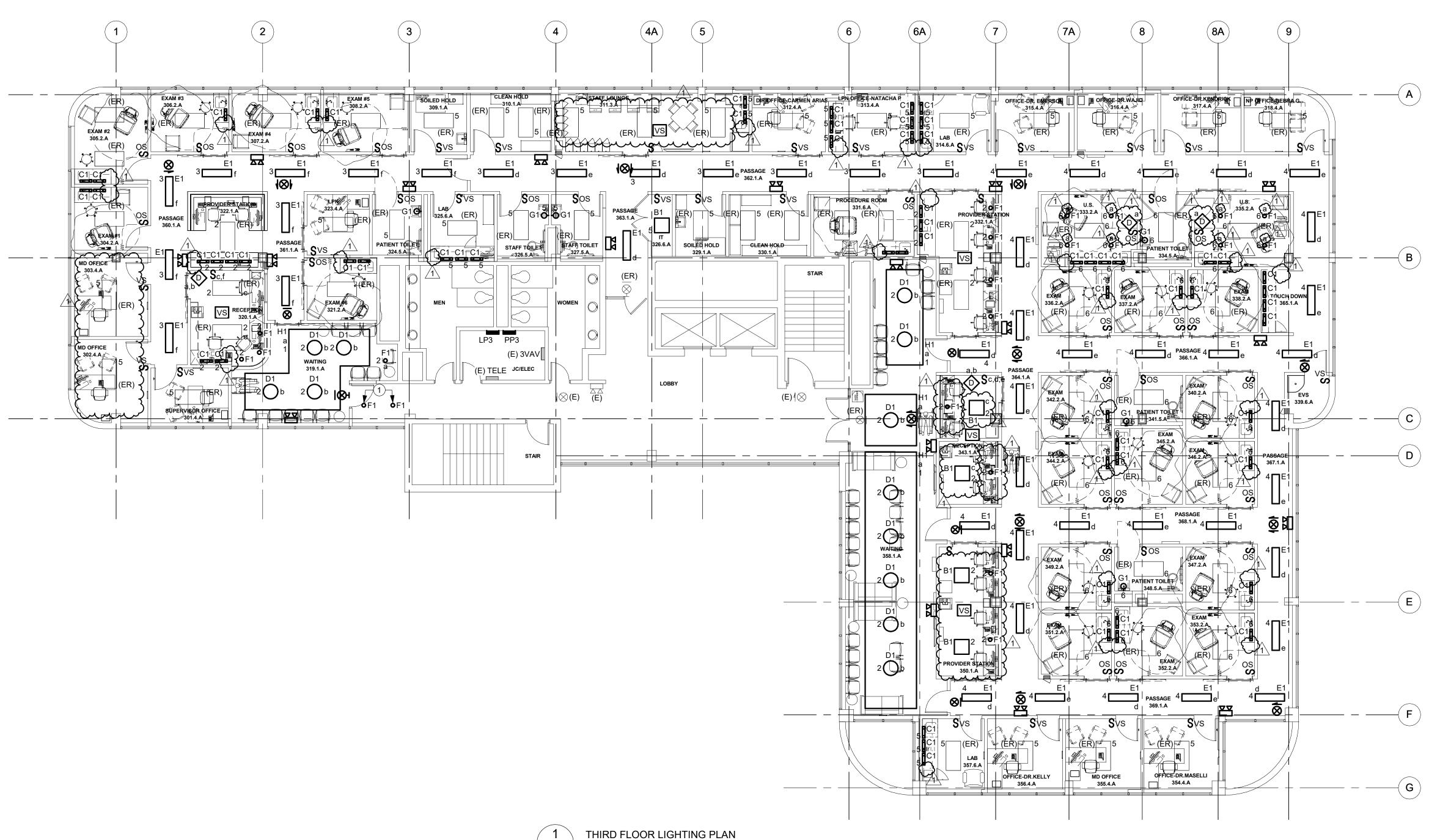


## DRAWING TITLE:

THIRD FLOOR POWER & SYSTEMS PLAN

PROJECT NUMBER 21035a 03/07/2022

CON # PENDING AS NOTED



E2.0

1/8" = 1'-0"

# **GENERAL NOTES**

- A. ALL LIGHTING ON THIS FLOOR SHALL BE CIRCUITED TO NEW PANEL "LP3" UNLESS OTHERWISE NOTED.
- B. EMERGENCY LIGHTING UNITS (ELU'S) AND EXIT SIGNS SHALL BE CONNECTED TO THE LIGHTING CIRCUIT SERVING THAT AREA AHEAD OF ANY CONTROLS.
- C. CONTRACTOR SHALL COORDINATE FIXTURE LOCATIONS WITH ALL EQUIPMENT, MECHANICAL DIFFUSERS AND ALL DEVICES ON THE CEILING. ALL LIGHT FIXTURES SHALL BE INSTALLED SO THAT DOORS OPEN FULLY FOR MAINTENANCE AND ARE NOT OBSTRUCTED BY ANY EQUIPMENT OR EQUIPMENT SUPPORTS/RAILS.
- D. COORDINATE ALL FIXTURE LOCATIONS WITH ARCHITECTURAL REFLECTED CEILING PLANS AND CEILING CONSTRUCTION IN FIELD. REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR ALL CEILING TYPES AND EXACT LOCATIONS OF ALL CEILING MOUNTED LIGHT FIXTURES.
- E. DRAWINGS ARE DIAGRAMMATIC AND INDICATE SWITCHING AND DIMMING INTENT. PROVIDE ALL COMPONENTS NECESSARY TO ACHIEVE DESIRED SWITCHING/DIMMING THAT IS COMPATIBLE WITH SCHEDULES LIGHTING FIXTURES.
- F. ELECTRICAL FIXTURES INDICATED AS EXISTING TO BE RELOCATED (ER) SHALL BE DISCONNECTED AND REMOVED, STORED IN A SECURE LOCATION AND REINSTALLED IN NEW LOCATION AS INDICATED ON
- G. UNDERCABINET LIGHTING ELECTRICAL CONNECTIONS ARE TO BE HIDDEN FROM VIEW.

## **DRAWING NOTES**

 $\cdots$ 

1. EXTEND LOCAL LIGHTING CIRCUIT WIRING TO CONNECT NEW LIGHT FIXTURES. MATCH EXISTING WIRING CHARACTERISTICS.

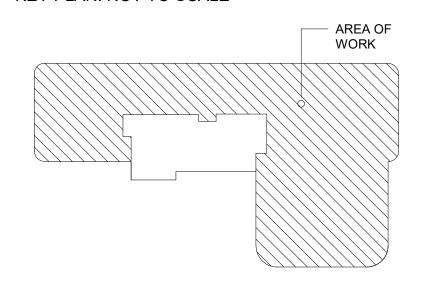
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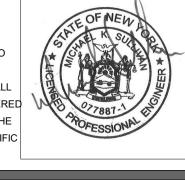
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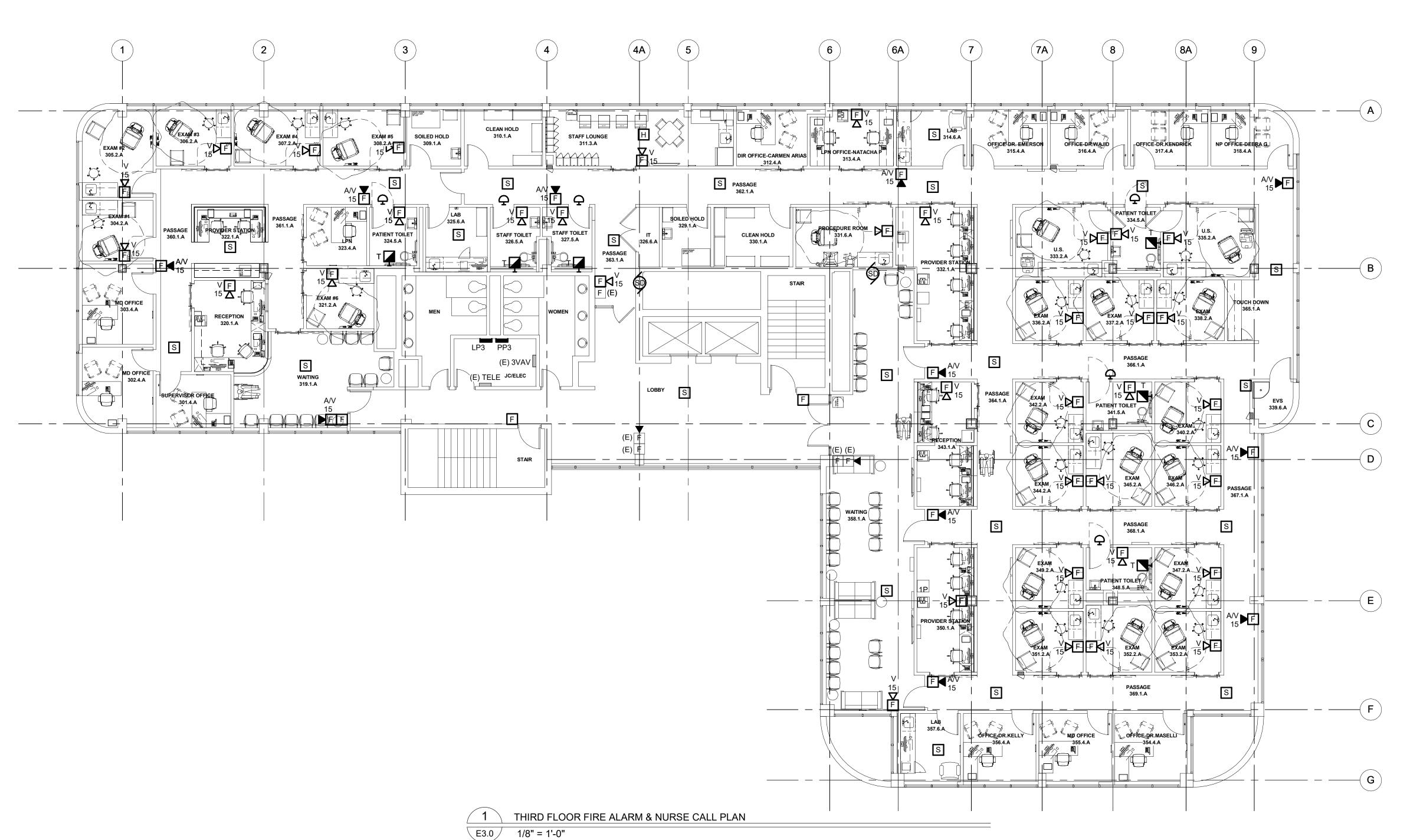
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DRAWING TITLE:

THIRD FLOOR LIGHTING PLAN

PROJECT NUMBER 21035a 03/07/2022 CON # PENDING AS NOTED



- A. ALL DEVICE MOUNTING HEIGHTS ARE TO BE COORDINATED WITH ARCHITECTURAL ELEVATIONS.
- B. ELECTRICAL DEVICES INDICATED AS EXISTING TO BE RELOCATED (ER) SHALL BE DISCONNECTED AND REMOVED, STORED IN A SECURE LOCATION, AND REINSTALLED IN NEW LOCATIONS AS INDICATED ON
- C. COORDINATE EXACT LOCATIONS OF CALL FOR AID DEVICES WITH OWNER'S REPRESENTATIVE IN THE FIELD PRIOR TO ROUGH-IN.
- D. PROVIDE ALL EQUIPMENT, PROGRAMMING AND WIRING REQUIRED FOR A CODE COMPLIANT SYSTEM.
- E. VISUAL FIRE ALARM APPLIANCES WITHIN ROOM OR FIELD OF VIEW SHALL BE SYNCHRONIZED.
- F. CEILING MOUNTED SMOKE DETECTORS SHALL NOT BE LOCATED CLOSER THAN 3FT. FROM ANY AIR SUPPLY
- G. ALL STROBE LIGHTS SHALL MEET A.D.A. (AMERICANS WITH DISABILITY ACT) AND NFPA 72 REQUIREMENTS.

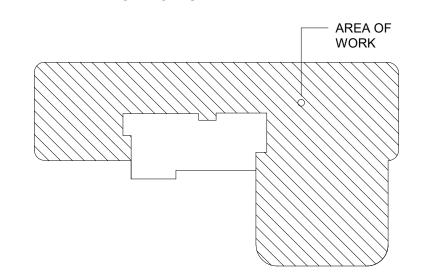
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KEY PLAN: NOT TO SCALE





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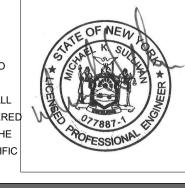
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M/E PROJECT NO.: 213299

STRUCTURAL ENGINEER

ISSUED DOCUMENTS: 03/16/2022 ADDENDA #03

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DRAWING TITLE:

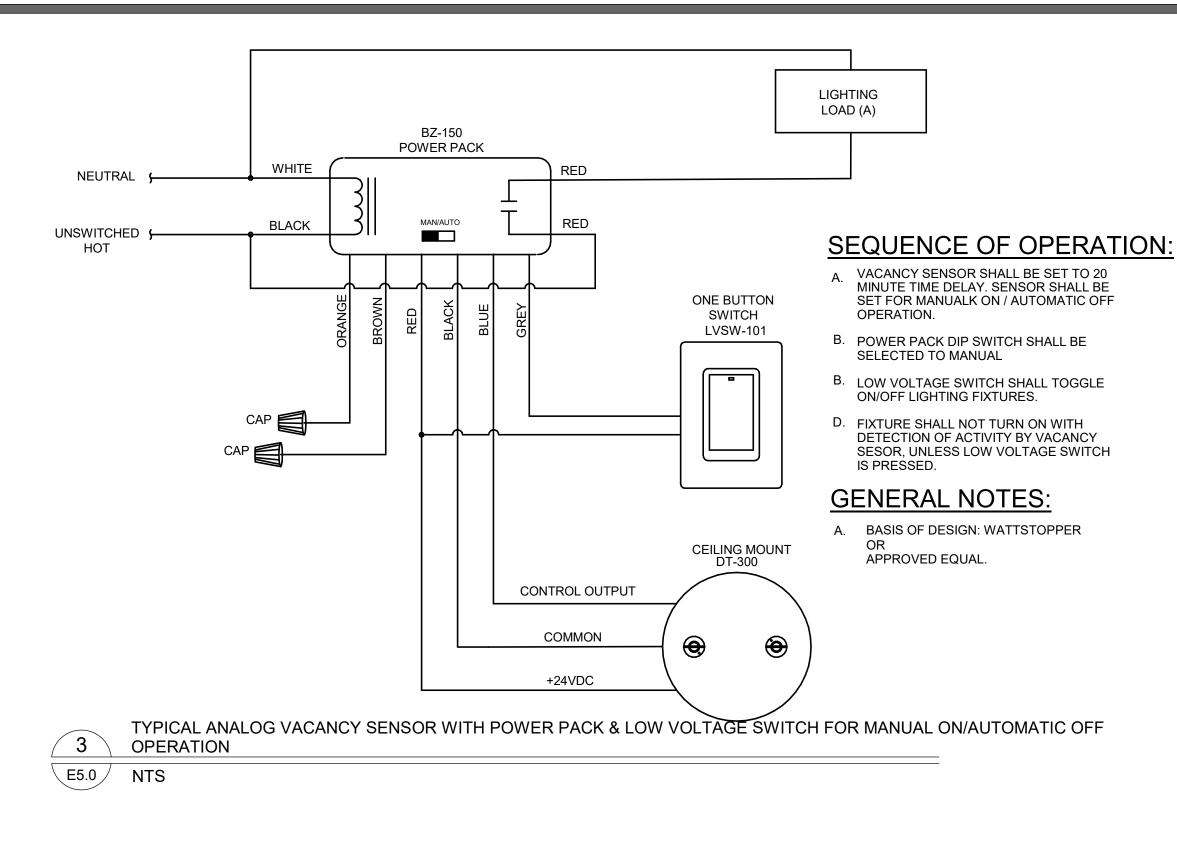
# THIRD FLOOR FIRE **ALARM & NURSE CALL PLAN**

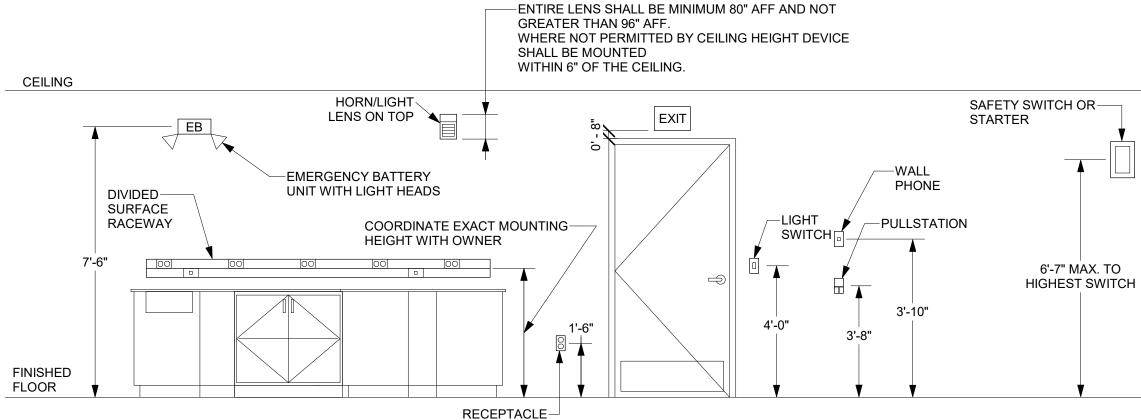
PROJECT NUMBER 21035a

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CON # PENDING

03/07/2022 DRAWING NUMBER AS NOTED



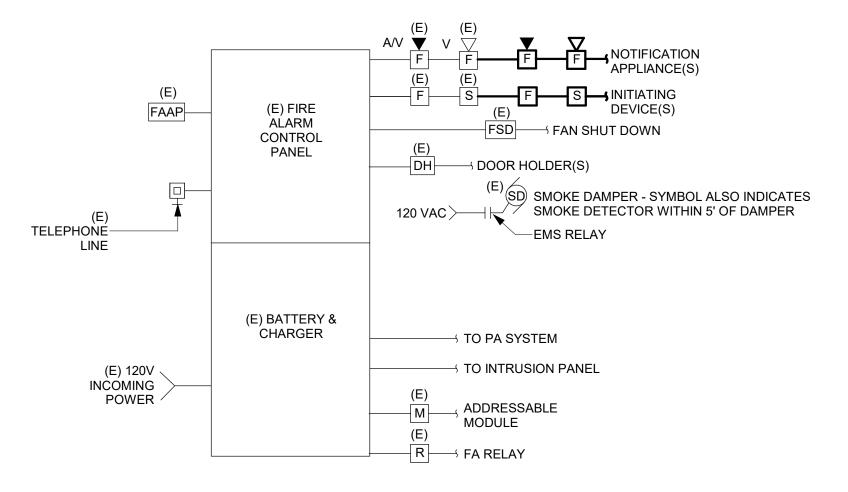


## **DETAIL NOTES:**

- MOUNTING HEIGHTS TO CENTER OF OUTLETS UNLESS OTHERWISE NOTED. IN MASONRY CONSTRUCTION THE ABOVE MOUNTING HEIGHTS SHALL BE USED FOR REFERENCE TO NEAREST BLOCK OR BRICK
- 2. THE ABOVE MOUNTING HEIGHTS SHALL BE ADHERED TO UNLESS SPECIFICALLY NOTED OR DETAILED OTHERWISE ON THE DRAWINGS.

TYPICAL EQUIPMENT AND WIRING DEVICES MOUNTING HEIGHTS

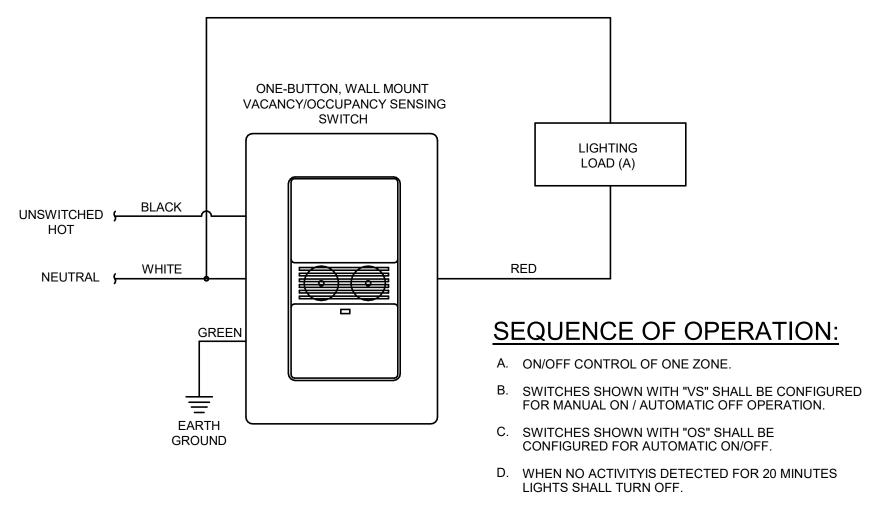
E5.0



### **DETAIL GENERAL NOTES:**

A. EXTEND EXISTING FIRE ALARM SYSTEM TO PICK UP NEWLY RENOVATED SPACE.

FIRE ALARM SYSTEM RISER DIAGRAM E5.0 NTS



# **GENERAL NOTES:**

A. BASIS OF DESIGN: WATTSTOPPER: DSW-100

TYPICAL ANALOG WALL MOUNT VACANCY/OCCUPANCY SENSOR DETAIL

		LUMINAIR	RE SC	<b>HEDULE</b>	<u> </u>		
TYPE	DESCRIPTION	MFR. & CATALOG No.	LAMP	VOLTAGE/BALLAS	MOUNTING	UNIT WATTS	REFERENCE NOTE
A1	2X4 RECESSED TROFFER	SAYLITE UCPF SERIES LOW PROFILE CENTER BASKET X1LED	T8 LED 3500K 4500 LUMEN	120V	RECESSED	36	1,3
B1	2X2 RECESSED TROFFER	SAYLITE UCPF SERIES LOW PROFILE CENTER BASKET X1LED	T8 LED 3500K 3750 LUMEN	120V	RECESSED	30	1,3
C (	POWER AND ROCKER SWITCH TO CONTROL FIXTURES IN LINKED CIRCUIT	HILIPS DAY-BRITE LINCS UNDERCABINET	LED 3000K	120V	SURFACE	5	1
D1	24" ROUND SURFACE FIXTURE WITH 0-10V DIMMING	ALW MOONDISH RPD06/R2	LED 3500K 1547 LUMENS	120V	SURFACE	57	1
E1	1X4 LED RECESSED TROFFER	SAYLITE UCPF SERIES LOW PROFILE CENTER BASKET X1LED	T8 LED 3500K 4500 LUMEN	120V	RECESSED	36	1,3
F1	6" ROUND DOWNLIGHT WITH 0-10V DIMMING	HALO COMMERCIAL HC6	LED 3500K 1000 LUMENS	120V	RECESSED	10	1,3
G1	17.625" VANITY FIXTURE	OXYGEN LIGHTING FUGIT VANITY	LED 3000K	120V	SURFACE	16	1
H1	LED STRIP WITH 0-10V DIMMING	ACOLYTE LIGHTING 120V STATIC WHITE DIRECT AC RIBBONLYTE	LED 3500K 311LM/FT	120V	COVE	4W/FT	1,2
	EMERGENCY LIGHTING UNIT WITH 90 MINUTE BATTERY BACKUP	LITHONIA LIGHTING: WDGE2 SERIES	LED	120V	SURFACE	10	1
$\overline{\otimes}$	LED EXIT SIGN WITH RED LETTERING AND 90 MINUTE BATTERY BACKUP	LITHONIA LE-NY	LED	120V	CEILING/ SURFACE		1

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## **REFERENCE NOTES:**

E5.0 NTS

1. FINISH/COLOR TO BE SELECTED BY ARCHITECT. 2. PROVIDE ALL LINKING CORDS, POWER SUPPLIES AND END CAPS TO POWER NUMBER OF FIXTURES INDICATED. 3. COORDINATE WITH RCP FOR EXACT MOUNTING FLANGE TYPE. (GRID/GYP BOARD)

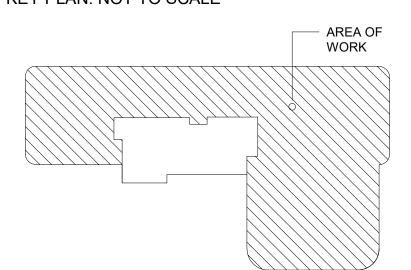
Montefiore

MONTEFIORE NYACK HOSPITAL

160 NORTH MIDLAND AVENUE NYACK, NY 10960

**OUTPATIENT CLINIC** THIRD FLOOR 17 SQUADRON BLVD NEW CITY, NY 10956

KEY PLAN: NOT TO SCALE





518.533.2171

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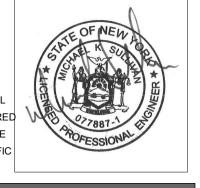
www.meengineering.com M/E PROJECT NO.: 213299

STRUCTURAL ENGINEER

No:	ED DOCUM	Description:
	03/07/2022	BID ISSUE - MEP
1	03/16/2022	ADDENDA #03
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## SEAL

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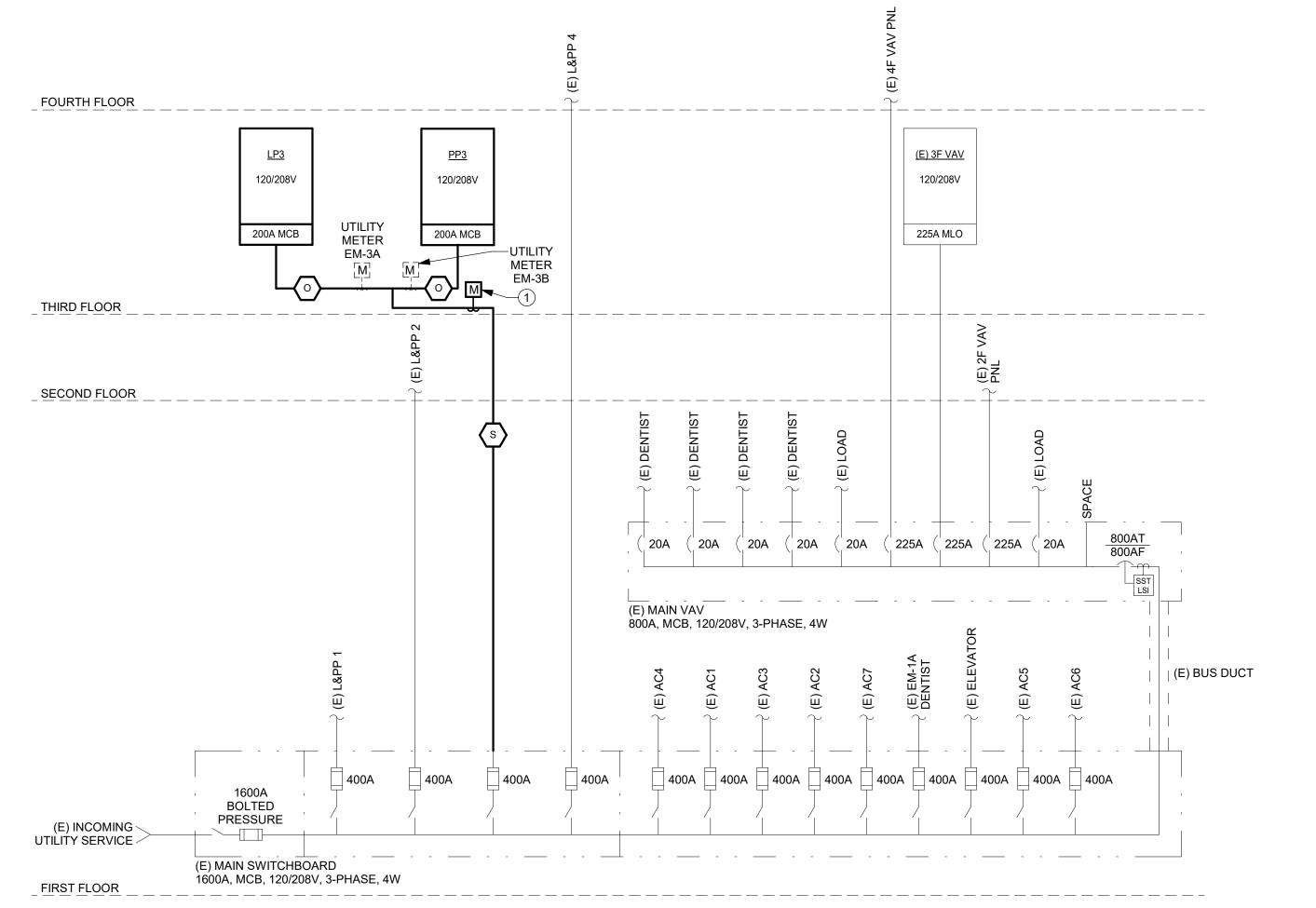
# ~ DRAWING TITLE: ELECTRICAL DETAILS & SCHEDULES

PROJECT NUMBER 21035a	CON # PENDING
DATE 03/07/2022	SCALE AS NOTED

			COP	PER FEED	ER SIZE SC	HEDULE (6	00V)			
	EQ		RE FEEDER ROUNDING		TOR	EC		RE FEEDER SROUNDING		TOR
OCPD RATING			IDENT.	NUMBER OF SETS	WIRE SIZE	EGC	EMT CONDUIT			
20	A1	1	12	12	3/4"	А	1	12	12	1/2"
25,30	B1	1	10	10	3/4"	В	1	10	10	1/2"
35,40	C1	1	8	10	3/4"	С	1	8	10	3/4"
45	D1	1	6	10	3/4"	D	1	8	10	3/4"
50	E1	1	6	10	3/4"	Е	1	6	10	1"
60	F1	1	6	10	3/4"	F	1	6	10	1"
70,80	G1	1	4	8	1"	G	1	4	8	1 1/4"
90	H1	1	3	8	1"	Н	1	3	8	1 1/4"
100	I1	1	2	8	1 1/4"	I	1	3	8	1 1/4"
110	J1	1	2	6	1 1/4"	J	1	2	6	1 1/4"
125	K1	1	2	6	1 1/4"	K	1	1	6	1 1/2"
150	L1	1	1/0	6	1 1/2"	L	1	1/0	6	1 1/2"
175	M1	1	2/0	6	1 1/2"	М	1	2/0	6	2"
200	N1	1	3/0	6	2"	N	1	3/0	6	2"
225	01	1	4/0	4	2"	0	1	4/0	4	2 1/2"
250	P1	1	4/0	4	2"	Р	1	250	4	2 1/2"
300	Q1	1	300	4	2 1/2"	Q	1	350	4	2 1/2"
350	R1	1	400	3	2 1/2"	R	1	500	3	3"
400	S1	1	500	3	2 1/2"	S	1	600	3	3 1/2"
450	T1	1	600	2	3"	Т	2	4/0	2	2 1/2"
500	U1	2	4/0	2	2"	U	2	250	2	2 1/2"
600	V1	2	300	1	2 1/2"	V	2	350	1	2 1/2"
700	W1	2	400	1/0	2 1/2"	W	2	400	1/0	3"
800	X1	2	600	1/0	2 1/2"	Х	2	600	1/0	3 1/2"
1000	Y1	3	400	2/0	2 1/2"	Υ	3	500	2/0	3"
1200	Z1	3	600	3/0	3"	Z	4	400	3/0	3"
1600	AA1	4	600	4/0	3"	AA	5	500	4/0	3"
2000	BB1	5	600	250	3"	BB	6	500	250	3"
2500	CC1	6	600	350	3"	CC	7	600	350	3 1/2"
3000	DD1	8	500	400	3"	DD	8	600	400	3 1/2"
4000	EE1	10	600	500	3"	EE	11	600	500	3 1/2"
5000	FF1	12	600	700	3 1/2"	FF	14	600	700	4"
6000	GG1	15	600	800	3 1/2"	GG	16	600	800	4"

- A. WHERE MULTIPLE SETS ARE SPECIFIED, PROVIDE INDICATED SIZE AND FEEDER WIRE QUANTITY OF CONDUCTORS IN EACH CONDUIT. CONDUCTORS AND CONDUITS SHALL BE EQUAL IN LENGTH AND EACH BE OF SAME MANUFACTURER.
- B. MINIMUM EMT CONDUIT SIZE IS BASED ON 40% FILL.
- C. A 3-WIRE FEEDER IS (3) PHASE CONDUCTORS WHEN PROTECTED BY A 3-POLE OCPD.

  A 3-WIRE FEEDER IS (2) PHASE CONDUCTORS AND (1) NEUTRAL CONDUCTOR WHEN PROTECTED BY A 2-POLE
- A 4-WIRE FEEDER IS (3) PHASE CONDUCTORS & (1) NEUTRAL CONDUCTOR. A 5-WIRE FEEDER IS (3) PHASE CONDUCTORS & (2) NEUTRAL CONDUCTORS.
- D. VOLTAGE DROP HAS BEEN ACCOUNTED FOR IF IDENTIFICATION OF CONDUCTORS IS ABOVE OCPD RATING.



## **DRAWING NOTES**

- 1. PROVIDE NEW CUSTOMER POWER METER FOR NEW PANELBOARDS. THE POWER METER SHALL BE CAPABLE OF COMMUNICATIONS VIA MODBUS OR TCIP. DESIGN MAKE IS SHARK OR APPROVED EQUAL WITH THE FOLLOWING
- A. PHASE CURRENT
- B. LINE VOLTAGE
- C. PHASE VOLTAGE
- D. FREQUENCY E. POWER FACTOR PER PHASE AND THREE PHASE TOTAL
  F. REAL POWER PER PHASE AND TOTAL.

ELECTRICAL ONE-LINE DIAGRAM

\E6.0 ∕ NTS

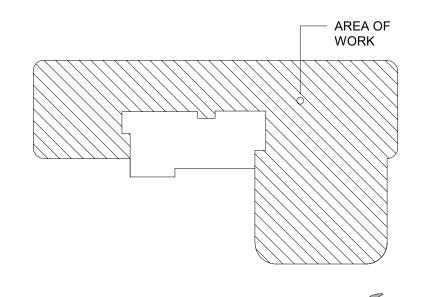
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M/E PROJECT NO.: 213299

STRUCTURAL ENGINEER

ISSUED DOCUMENTS: 
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 Description:

 03/07/2022
 BID ISSUE - MEP
 03/16/2022 ADDENDA #03

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DRAWING TITLE:

# **ELECTRICAL ONE-LINE** DIAGRAM

PROJECT NUMBER 21035a DATE 03/07/2022

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CON# PENDING SCALE AS NOTED

1. ALL STARTERS/DRIVES SHALL BE FURNISHED BY OTHERS & INSTALLED BY THE E.C.

2. UNLESS NOTED OTHERWISE, SAFETY SWITCHES SHALL BE FURNISHED & INSTALLED BY THE E.C.

COORDINATE LOCATION AND MOUNTING OF ALL STARTERS/DRIVES WITH THE M.C.
 PROVIDE OVERLOADS, SIZE AS REQUIRED, BY THE DIVISION 15 CONTRACTOR.

5. ALL DEVICES SHALL BE SURFACE MOUNTED UNLESS OTHERWISE NOTED.6. ITEM NUMBER INDICATES EQUIPMENT NUMBER

7. "AU" INDICATES CONTROL DEVICES IS LOCATED AT THE UNIT.

8. "NF" INDICATES NON-FUSED.
9. "IU" INDICATES INTEGRAL WITH UNIT.

9. "IU" INDICATES INTEGRAL WITH UNIT.
10. "RE" INDICATES REMOTELY LOCATED; REFER TO PLAN VIEW.

160 NORTH MIDLAND AVENUE NYACK, NY 10960

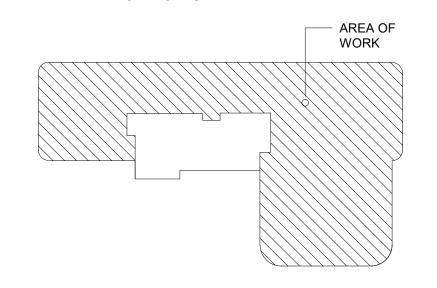
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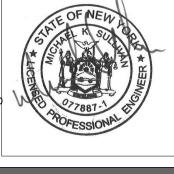
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DRAWING TITLE:

ELECTRICAL SCHEDULES

PROJECT NUMBER 21035a

DATE 03/07/2022

CON #
PENDING
SCALE
AS NOTED

DRAWING NUMBER

AS NO

E7.0

EQUIPMENT					POWER SOURCE, PROTECTION & WIRING						NEMA DEVICE, TYPE AND CONTROLS															
ITEM ID	NAME	ROOM LOCATION HP		KW	PHASE	SYSTEM	MCA or SYSTEM AMPS	PANEL or CONTROL CENTER	CIRCUIT BREAKE R or "FU" FOR FUSE	PC	OWER WIRIN		MA SIZE STARTER	MANUAL MOTOR STARTER MANUAL MOTOR	ER WII	COMBINATION GNETIC STARTER JUSTABLE SPEED	DRIVE KAGED CONTROL IT FURNISHED BY	FIRE ALARM FAN UTDOWN REQUIRED JPPLY DUCT SMOKE TECTOR W/ REMOTE TEST STATION STURN DUCT SMOKE TECTOR W/ REMOTE TECTOR W/ REMOTE	THERMOSTAT CONNECTION	START/STOP PUSHBUTTONS	TORIZED DAMPER  DNTROL DEVICE  LOCATION	SWITCH	l FUSE	SWITCH LOC.	NEMA	REF. NOTES
										PHASE	GROUN C	T	Z		<u> </u>	MAC	PACK	SHU SUP SUP DETE			NO LON I	AMPS	SIZE		ENC.	
EWH-1	ELECTRIC WATER HEATER	EVS 339.6.A		24	3	208	83.25	PP3	90A/3P	(3)#3	(1)#8	1-1/4"					Х				راز ک	100	NF	AU	1	-
PP-1	CIRCULATOR PUMP	EVS 339.6.A	1/8		1	120	1.76	PP3	15A/1P	(2)#12	(1)#12	1/2"					Х				) IU	30	NF	AU	1	
VAV-4-1	VARIABLE AIR VOLUME	PASSAGE 362			3	208	6.9	(E) 3VAV	15A/3P	(3)#12	(1)#12	3/4"					X				( IU	3		IU		
VAV-4-2	VARIABLE AIR VOLUME	PASSAGE 362			3	208	19.10	(E) 3VAV	20A/3P	(3)#12	(1)#12	3/4"					X				) IU	Τ		IU		
VAV-4-3	VARIABLE AIR VOLUME	PASSAGE 361			3	208	8.67	(E) 3VAV	15A/3P	(3)#12	(1)#12	3/4"					X				) IU	$\supset$		IU		
VAV-4-4	VARIABLE AIR VOLUME	PASSAGE 360			3	208	24.20	(E) 3VAV	25A/3P	(3)#10	(1)#10	3/4"					X				( IU	3		IU		
VAV-4-5	VARIABLE AIR VOLUME	PASSAGE 361			3	208	8.70	(E) 3VAV	15A/3P	(3)#12	(1)#12	3/4"					X				) IU	Υ		IU		
VAV-4-6	VARIABLE AIR VOLUME	PASSAGE 360			3	208	17.30	(E) 3VAV	20A/3P	(3)#12	(1)#12	3/4"					X				) IU			IU		
VAV-4-7	VARIABLE AIR VOLUME	WAITING 319			3	208	12.10	(E) 3VAV	15A/3P	(3)#12	(1)#12	3/4"					X				( IU	}		IU		
VAV-5-1	VARIABLE AIR VOLUME	PASSAGE 362			3	208	13.90	(E) 3VAV	15A/3P	(3)#12	(1)#12	3/4"					X				) IU	1		IU		
VAV-5-2	VARIABLE AIR VOLUME	PASSAGE 364			3	208	8.70	(E) 3VAV	15A/3P	(3)#12	(1)#12	3/4"					X				) IU	$\rightarrow$		IU		
VAV-5-3	VARIABLE AIR VOLUME	PASSAGE 362			3	208	24.20	(E) 3VAV	25A/3P	(3)#10	(1)#10	3/4"					X				( IU	}		IU		
VAV-5-4	VARIABLE AIR VOLUME	TOILET 334			3	208	24.20	(E) 3VAV	25A/3P	(3)#10	(1)#10	3/4"					X				<del>J</del> iu	1		IU		
VAV-5-5	VARIABLE AIR VOLUME	PASSAGE 366			3	208	13.90	(E) 3VAV	15A/3P	(3)#12	(1)#12	3/4"					X				<u> </u>	$\cup$		IU		
VAV-6-1	VARIABLE AIR VOLUME	WAITING 358			3	208	27.80	(E) 3VAV	30A/3P	(3)#10	(1)#10	3/4"					X				\ iu	}		IU		
VAV-6-2	VARIABLE AIR VOLUME	LAB 357			3	208	15.60	(E) 3VAV	20A/3P	(3)#12	(1)#12	3/4"					X					<del>\{</del>		IU		
VAV-6-3	VARIABLE AIR VOLUME	PASSAGE 369			3	208	20.80	(E) 3VAV	25A/3P	(3)#10	(1)#10	3/4"					X				J IU	$\downarrow$		IU		
VAV-6-4	VARIABLE AIR VOLUME	PASSAGE 368			3	208	13.80	(E) 3VAV	15A/3P	(3)#12	(1)#12	3/4"					X				γ iυ	}		IU		
VAV-6-5	VARIABLE AIR VOLUME	PASSAGE 364			3	208	20.80	(E) 3VAV	25A/3P	(3)#10	(1)#10	3/4"		1			$\frac{\lambda}{\lambda}$ $\frac{\lambda}{\lambda}$					$\prec$		IU		
EF-3-1	EXHAUST FAN	ROOF	1/8		1	120	4.88	(E) 3VAV	20A/1P	(2)#12		1/2"		Frankly Company of the Company of th			/1 <b>/~~~</b>	<b>Y</b>			X AU	$\rightarrow$		IU		
~EF-3-3~	CATAGOTTAN		1/0		<u> </u>	-12A	7.00	(E) 3VAV	20A/1P	(2)#12	4)#12	1/2	0	3R X 3			_	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \				3		~#\~		
ACCU-326.6.A	AIR CONDITIONER CONDENSING UNIT	BUUE BUUE	h h high	~ ~ ~	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	208	15.00	L AVITATION AND AND AND AND AND AND AND AND AND AN	20Δ/1P	(2)#12	(1)#12	1/2"	0		1 Ar Ar	+	Y X	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	Y	$\gamma \gamma \gamma \gamma$	777 0 70	30	NF	AU	3B	~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~
AC-326.6.A	AIR CONDITIONER  AIR CONDITIONER	IT 326.6.A			1	200	13.00	ACCU-326.6.A	ZUAV IF	(2)#12	(1)#12	1/2"					Y		1		10	30	NE	AU	1	1
( AU-320.0.A	AIR CONDITIONER	11 J20.0.A		L	~ <del>~</del> ~	سككرا	~ ~ ~	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	استسلا	ر کسر کسر	~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~	. لمر کمرا	ىلرىد	~ ~ ~ ~ ~ ~	<del>ر بر ب</del>	~ ~ ~ ~ ~	بشلب	~ ~ ~ ~ ~ ~ ~ ~ ~	سرسل	لسسل	بشلي		م ملامل		<del>~ ~ ~</del>	تملم
ELECTRIC 1. PROVIDE 120V	AL EQUIPMENT CONTROL SO POWER AND ASSOCIATED DISCONNECTED			•	}								ئى ئىر													一

							PANEL	BOAR	D DIRE	CTORY								
M/E PROJE	ECT:	MNH	- 17 SQUA	DRON 3F		PANEL N	ΔMΕ·			PP3			TYPE:		BRA	NCH		
PROJECT	NO.:	21329	99.00										MOUNTIN	1G:				
FACILITY:			17 SQUADRON THIRD FLOOR			VOLTAG	Ε:	208		ļ .	PHASE:	3	OCP TYP	E:	MCB			
LOCATION	:	JANITOR/ELECTRICAL CLOSET			AIC:		42		\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	NIRE:	<u> </u>	BUS RAT	ING:	200				
						SOURCE	•						MCB RAT		200			
DESCRIPTION	CKT	TRIP	LTG.	RECEPT.	MOTOR	EQUIP.	HVAC	KIT	KIT	HVAC	EQUIP.	MOTOR	RECEPT.	LTG.	TRIP	CKT	DESCRIPT	ION
DESCRIPTION	NO.	INF	VA	VA	VA	VA	VA	VA	VA	VA	VA	VA	VA	VA	IINIF	NO.	DESCRIPT	ION
	1a				7993							211			20/1	2a	PP-1	
EWH-1	3b	90/3			7993								360		20/1	4b	DOOR OPER	.ATOR
	5c				7993								1260		20/1	6c	REC-WAIT	ING
REC-WAITING	7a	20/1		1260									1440		20/1	8a	REC-CORRII	ORS
REC-CORRIDORS	9b	20/1		1260									1440		20/1	10b	REC-301,302,3	303,320
REC-320,322	11c	20/1		1440									1080		20/1	12c	REC-322,323,32	1,324,325
REC-MED WALL PLATES	13a	20/1		1080									720		20/1	14a	REC-EXAM	
REC-EXAM 305	15b	20/1		720									720		20/1	16b	REC-EXAM	306
REC-EXAM 307	17c	20/1		720									720		20/1	18c	REC-EXAM	308
REC-EXAM 321	19a	20/1		720 720									1080		20/1	20a	REC-210,326,32	<u>7,329,330                                   </u>
REC-IT 326	21b	20/1		720									1260		20/1	22b	REC-311 LOI	JNGE
FRIDGE - 311	23c	20/1		1000									1260		20/1	24c	REC-312,313	3,314
REC-214,315,316	25a	20/1		720									900		20/1	26a	REC-317,318	
REC-331 PROCEDURE	27b	20/1		1080									1440		20/1	28b	REC-MED WALL	<u>. PLATES</u>
REC-MED WALL PLATES	29c	20/1		1440									1260		20/1	30c	REC-332 PRO	
REC-332,343	31a	20/1		1260									1260		20/1	32a	REC-343,3	
REC-350,357	33b	20/1		1260									1080		20/1	34b	REC-357,356,3	355,354
REC-333 US MACHINE	35c	20/1		500									500		20/1	36c	REC-335 US M	<u>ACHINE</u>
REC-334,341,348	37a	20/1		540									900		20/1	38a	REC-333 ULTRA	
REC-335 ULTRASOUND	39b	20/1		900									720		20/1	40b	REC-EXAM	336

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ELECTRIC EQUIPMENT AND CONTROL SCHEDULE

							PANEL	BOARI	D DIRE	CTORY								
M/E PROJECT I	CT:		- 17 SQUA	DRON 3F		PANEL N	AME:			LP3			TYPE: MOUNTIN	NG.	BRA	NCH		
FACILITY:			VOLTAGE: AIC:		208 42	208 PHASE: 42 WIRE:		3 4	3 OCP TYPE: 4 BUS RATING:		200	MCB 200						
DESCRIPTION	CKT	TRIP	LTG.	RECEPT.	MOTOR	SOURCE EQUIP.	HVAC	KIT	KIT	HVAC	EQUIP.	MOTOR	MCB RAT	LTG.	Z00	CKT	DESCE	RIPTION
LTG-WAITING RIBBON LED	NO. 1a	20/1	VA 816	VA	VA	VA	VA	VA	VA	VA	VA	VA	VA	VA 1213	20/1	NO. 2a		C.PROVIDER
LTG-CORRIDOR LTG-OFFICES&SUPPORT	3b 5c	20/1 20/1 20/1 20/1	612 1279											1116 1250	20/1 20/1 20/1	4b 6c	LTG-CO	RRIDOR PROCEDURE
REC-365 REC-EXAM 340	7a 9b	20/1	1270	900 720									720 720	1200	20/1	8a 10b	REC-E	(AM 342 (AM 344
REC-EXAM 345 REC-EXAM 349	11c 13a	20/1 20/1		720 720									720 720		20/1 20/1	12c 14a	REC-E	(AM 346 (AM 347
REC-EXAM 351 REC-EXAM 353	15b 17c	20/1 20/1		720 720									720 1400		20/1 20/1	16b 18c	REC-EX AUTOCL	(AM 352 AVE 325
AUTOCLAVE 314 AUTOCLAVE 357	19a 21b	20/1 20/1		1400 1400						$\sim$			1000 1000		20/1 -20/1	20a 22b	FRIDG	E - 314
FRIDGE - 325 SPARE	23c 25a	20/1 20/1		1000						1560	}				20/2	24c 26a		326.6.A
SPARE SPARE	27b 29c	20/1 20/1													20/1	30c	1\ SPA	ARE
SPARE SPARE	31a 33b	20/1 20/1													20/1 20/1	32a 34b	SPA	ARE ARE
SPARE SPARE	35c 37a	20/1 20/1													20/1 20/1	36c 38a	SPA	ARE ARE
SPARE SPARE	39b 41c	20/1 20/1													20/1 20/1	40b 42c		ARE ARE

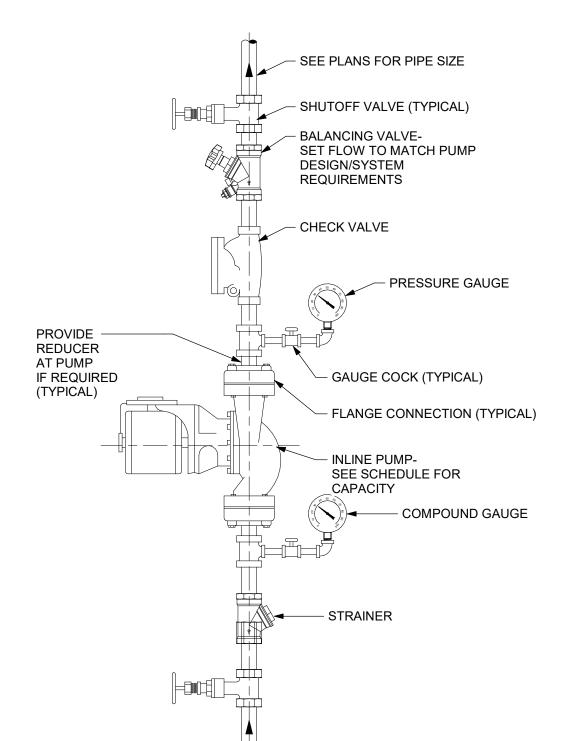
							PANEI	LBOARI	D DIRE	CTORY							
M/E PROJ PROJECT FACILITY: LOCATION	NO.:	21329 17 S0	99.00 DUADRON	ADRON 3F THIRD FLOO TRICAL CLO	DR	PANEL N VOLTAG AIC:		208 42		(E) 3VAV	PHASE: VIRE:	3	TYPE: MOUNTIN OCP TYP BUS RAT	E:	BRANCH MLO 225		
LOCATION	٧.	JAN	IOIVELEC	TINICAL CLO	OLI	SOURCE	:	42		V	VIIX.	1 <b>7</b>	MCB RAT	ING:	223		
DESCRIPTION	CKT NO.	TRIP	LTG. VA	RECEPT. VA	MOTOR VA	EQUIP. VA	HVAC VA	KIT VA	KIT VA	HVAC VA	EQUIP. VA	MOTOR VA	RECEPT. VA	LTG. VA	TRIP CKT NO.	DESCRIPTION	ON 4
VAV-4-1	1a 3b 5c	15/3			666 666 666							1832 1832 1832			20/3 2a 4b 6c	VAV-4-2	
VAV-4-3	7a 9b 11c	15/3			833 833 833							2332 2332 2332			25/3 8a 10b 12c	VAV-4-4	S
VAV-4-5	13a 15b 17c	15/3			833 833 833							1666 1666 1666			20/3 14a 16b 18c	VAV-4-6	
VAV-4-7	19a 21b 23c	15/3			1166 1166 1166							1332 1332 1332			15/3 20a 22b 24c	VAV-5-1	
VAV-5-2	25a 27b 29c	15/3			833 833 833							2332 2332 2332			25/3 28b 30c	VAV-5-3	
VAV-5-4	31a 33b 35c	25/3			2332 2332 2332							1332 1332 1332			15/3 32a 34b 36c	VAV-5-5	
VAV-6-1	37a 39b 41c	30/3			2665 2665 2665							1499 1499 1499			20/3 38a 40b 42c	VAV-6-2	ISSU
VAV-6-3	43a 45b 47c	25/3			1998 1998 1998							1332 1332 1332			15/3 44a 46b 48c	VAV-6-4	No: 
VAV-6-5	49a 51b 53c	25/3			1998 1998 1998							468 696			20/1 50a 20/1 52b 20/1 54c	EF-3-1 EF-3-2 SPARE	

_	ING FIXTURE CONNE BING SPECIFICATIONS FOR COI		_	)N				
TAG NO.	DESCRIPTION		COLD WATER	HOT WATER	WASTE	SANITARY	VENT	REMARKS
WC-A	WATER CLOSET	ADA	1"	-	-	3"	2"	AMERICAN STANDARD 3351.101 WALL MOUNT, TOP SPUD; CHURCH 9500SCC OPEN FRONT, LESS COVER, BATTERY SENSOR FLUSH VALVE 1.6 GPF
LV-A	LAVATORY	ADA	1/2"	1/2"	1-1/2"	-	1-1/2"	AMERICAN STARDARD 0356.421 LUCERNE, WALL HUNG, DECK MOUNTED SENSOR FAUCET (CHICAGO-116.878.AB.1), 0.5 GPM NON-AERATING SPRAY OUTLET.
SK-A	SINK	ADA	1/2"	1/2"	1-1/2"	-	1-1/2"	ELKAY LRAD191855, DROP-IN, SINGLE BOWL, STAINLESS STEEL, DECK MOUNTED SENSOR FAUCET (CHICAGO-116.878.AB.1), 1.5 GPM INSERT
SK-B	SINK	ADA	1/2"	1/2"	1-1/2"	-	1-1/2"	AMERICAN STARDARD 0356.421 LUCERNE, WALL HUNG, DECK MOUNTED SENSOR FAUCET (CHICAGO-116.878.AB.1), 0.5 GPM NON-AERATING SPRAY OUTLET.
MB-A	MOP BASIN		1/2"	1/2"	3"	-	2"	AMERICAN STANDARD FLORWELL ENAMELED CAST IRON, CORNER MODEL, WITH REMOVABLE RIM GUARD. UTILITY FAUCET WITH VACUUM BREAKER AND MOP BUCKET BRACKET

EXPANS	EXPANSION TANK SCHEDULE								
TAG NO.	LOCATION	SERVICE	MAXIMIUM SYSTEM PRESSURE (PSI)	TANK VOLUME (GALS.)	ACCEPTANCE FACTOR	MANUFACTURER AND REMARKS			
ET-1	B104A	DOMESTIC HOT WATER	150	2.0	0.45	ST-5			

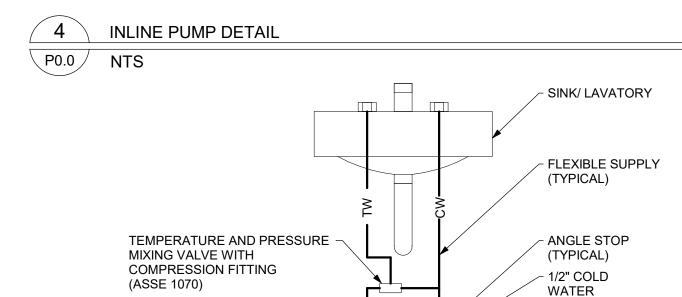
ELECTRIC WATER HEATER SCHEDULE								
TAG NO.	LOCATION	kW STORAGE CAPACITY (GAL)		GPH RECOVERY @ 100°F RISE	REFERENCE MANUFACTURER			
EWH-1	EVS 339.6.A	24	30	98	AOSMITH DSE-30-24			

PUMP SC	PUMP SCHEDULE									
	NO. LOCATION SERVICE GPM		0.714	HEAD FT	МОТО	R				
NO.			GPM	WATER	HP	VOLTAGE	PHASE	RPM	TYPE	DESIGN MAKE
PP-1	EVS	DOM. HOT WATER	0.5	12	1/8	115	1	3250	IN LINE	TACO 0011



## **DETAIL NOTES:**

- PRESSURE GAUGES SELECT GAUGE RANGE TO PLACE MAXIMUM SYSTEM OPERATING PRESSURE IN MIDDLE THIRD OF RANGE.
- B. PROVIDE UNION ON PUMP INLET AND OUTLET IF PUMP IS NOT FLANGED.
- INSTALL PUMP WITH SHAFT HORIZONTAL. PIPING MAY BE INSTALLED VERTICAL, AS SHOWN, OR HORIZONTAL DEPENDING ON SITE CONDITIONS.
- D. INSTALL CHECK VALVE HORIZONTALLY OR VERTICALLY WITH FLOW UPWARD.



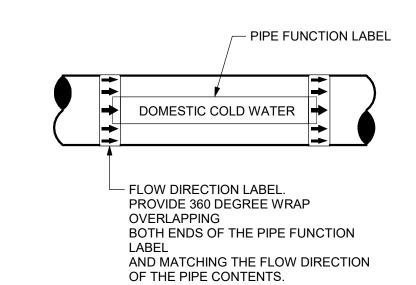
## DETAIL NOTE:

PROVIDE A MIXING VALVE FOR EACH HAND SINK AND LAVATORY.

1/2" HOT WATER -

B. MIXING VALVE SHALL BE ADJUSTED TO DELIVER TEMPERED WATER AT 105°F.

POINT OF USE MIXING VALVE DETAIL P0.0 /

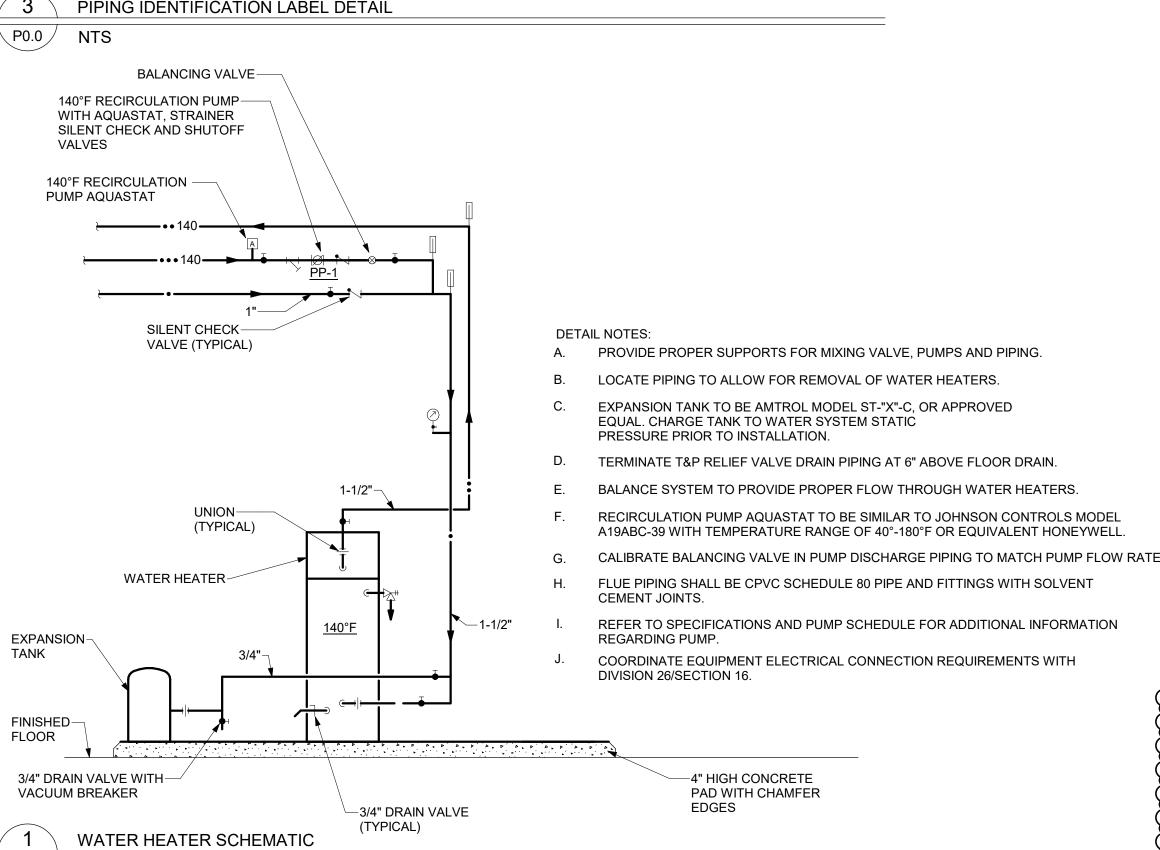


### **DETAIL NOTES:**

- PROVIDE A PIPE LABEL FOR EACH PIPE FUNCTION.
- PROVIDE AT LEAST ONE LABEL ON EACH PIPE FOR EVERY ROOM THE PIPE PASSES THROUGH.
- PROVIDE LABELS IN LARGE SPACES ON MAXIMUM 20'-0" CENTERS FOR EVERY PIPE UNLESS OTHERWISE NOTED IN THE SPECIFICATIONS.
- LABELS TO BE LOCATED IN AN EASILY VISIBLE LOCATION AS THEY
- WOULD NORMALLY BE SEEN. IE. ON THE BOTTOM HALF OF PIPES IN THE AIR AND ON THE TOP HALF OR SIDES OF PIPES MOUNTED LOW
- LABELS SHALL BE, COLOR CODED, PRE-PRINTED, SELF ADHESIVE VINYL. SEE SPECIFICATION FOR OTHER REQUIREMENTS AND LIST OF PIPE FUNCTIONS.

	1. SEE SI ECII IOATIONI ON OTILEN NEQUINE
/ 2 \	DIDING IDENTIFICATION LADEL DETAIL

P0.0 / NTS



# PLUMBING GENERAL NOTES

- A THESE NOTES ARE APPLICABLE TO THE FULL SET OF CONTRACT DRAWINGS
- B EXISTING CONDITIONS ARE TAKEN FROM FIELD OBSERVATIONS AND PRIOR CONSTRUCTION DOCUMENTS WHEN AVAILABLE. THE LOCATIONS SHOWN MUST BE CONSIDERED APPROXIMATE. OTHER SUCH WORK MAY EXIST, HOWEVER LOCATION AND SIZE ARE NOT PRESENTLY KNOWN. WHEN EXISTING CONSTRUCTION IS DAMAGED BY WORK BY THIS CONTRACTOR, REPAIR AND/OR REPLACE WITH SIMILAR MATERIALS AS MUCH AS
- POSSIBLE, SUBJECT TO ARCHITECTS APPROVAL D DISPOSE OF ALL DEMOLITION AND/OR OTHER WASTE MATERIALS CAUSE BY WORK OF THIS CONTRACTOR. LEGALLY DISPOSE ALL MATERIALS TO A
- LOCATION OFF SITE.
- COORDINATE AND SCHEDULE WORK AND SHUTDOWNS WITH THE OWNER AND OTHER TRADES PRIOR TO DEMOLITION.
- ALL EXISTING PIPING TO REMAIN SHALL BE RECONNECTED TO ACTIVE SERVICE PIPING.  $\mathsf{G}$   $|\mathsf{ALL}$  PIPING TO BE REMOVED SHALL BE REMOVED BACK TO ACTIVE SERVICE PIPING AND CAPPED. VALVE AND CAP ALL WATER PIPING. REMOVE ALL
- INACTIVE PIPING UNLESS OTHER WISE NOTED. ALL PIPING TO BE REMOVED AND IN A WALL TO REMAIN MAY BE ABANDONED IN PLACE UNLESS NOTED.
- PATCH HOLES IN EXISTING CONSTRUCTION LEFT BY THE REMOVAL OF PIPING OR EQUIPMENT WITH MATERIALS TO MATCH EXISTING
- DEMOLITION SHALL INCLUDE, BUT NOT LIMITED TO: PIPING, VALVES, FIXTURES, EQUIPMENT, HANGERS, SUPPORTS AND INSULATION, EXCEPT
- REMOVE EXISTING CONSTRUCTION IN THE WAY OF NEW WORK. PROTECT BUILDINGS AND FURNISHINGS FROM DAMAGE.
- WHERE NEW WORK IS TO BE INSTALLED ABOVE AN EXISTING CEILING, PROVIDE FOR THE REMOVAL OF THE CEILING. UPON COMPLETION OF WORK,
- REPAIR ALL DAMAGED CEILING SURFACES, REPLACE ALL DAMAGED TILES. M | SLEEVE AND SEAL ALL WALL AND FLOOR PENETRATIONS. PROVIDE FIRESTOPPING FOR ALL PENETRATIONS.
- MAINTAIN SERVICE CLEARANCES OF ALL EQUIPMENT. ADVISE OTHER TRADES OF REQUIRED CLEARANCES. O PROVIDED FOR THE DRAINAGE AND REFILLIING OF PIPING SYSTEMS, INCLUDING AIR REMOVAL, RESETTING OF FLUSH VALVES, FLUSHING SYSTEMS
- P REFER TO EQUIPMENT/FIXTURE SCHEDULE FOR FINAL CONNECTION SIZES.

OF DIRT AND SCALE CAUSED BY SHUTDOWNS AND STARTUPS.

CONSTRUCTION. MAINTAIN FIRE SMOKE RATING.

- Q PROVIDE CLEANOUTS AT THE BASE OF ALL STORM, SANITARY AND WASTE STACKS.
- R PITCH 4" AND LARGER SANITARY AND WASTE PIPING AT 1/8" PER FOOT UNLESS NOTED OTHERWISE. FOR SANITARY AND WASTE PIPING 3" AND SMALLER, PITCH AT 1/4" PER FOOT UNLESS NOTED OTHERWISE.
- COORDINATE LOCATION AND ELEVATION OF STORM AND SANITARY LATERALS AND WATER SERVICE PIPING WITH THE SITE CONTRACTOR. NO ALLOWANCES WILL BE MADE FOR ADDITIONAL COST DUE TO THE CONTRACTORS FAILURE TO COORDINATE TERMINATION POINTS. THE PLUMBING CONTRACTOR IS RESPONSIBLE FOR THE FINAL CONNECTIONS TO THE SITE UTILITIES.
- MINIMUM SIZE OF WASTE PIPING BELOW SLAB SHALL BE 3" EXCEPT PIPING SERVING FLOOR DRAINS SHALL BE 4". MINIMUM SIZE OF VENT PIPING
- BELOW SLAB SHALL BE 2" UNLESS NOTED OTHERWISE.
- U PITCH 4" AND LARGER STORM PIPING AT 1/4" PER FOOT UNLESS NOTED OTHERWISE.

	PLUMBING SYMBOL LIST
YMBOL	DESCRIPTION
	- EXISTING WORK TO BE REMOVED
•	POINT OF CONNECTION
H	POINT OF DISCONNECTION
NTS	NOT TO SCALE
(E)	EXISTING
(ETR)	EXISTING TO REMAIN
AFF	ABOVE FINISHED FLOOR
BFF	BELOW FINISHED FLOOR
VTR	VENT THRU ROOF
GC	GENERAL CONTRACTOR
MC	MECHANICAL CONTRACTOR
PC	PLUMBING CONTRACTOR
EC	ELECTRICAL CONTRACTOR
(E)	- EXISTING PIPING
_ (_)	- COLD WATER PIPING (CW)
	HOT WATER PIPING (HW)
	HOT WATER RECIRCULATING PIPING (HWR)
SAN —	- SANITARY SEWER PIPING
-IW	- INDIRECT WASTE PIPING (IW)
	- VENT PIPING
G	
	ELBOW DOWN
	45°OFFSET
	ELBOW UP
	BOTTOM/TEE CONNECTION
	TOP TEE CONNECTION
	"P" TRAP
	PIPE CONTINUATION  CAP OR PLUG
ф	DECK PLATE CLEANOUT (DPCO)
——Ψ ——∈II	WALL PLATE CLEANOUT (WPCO)
	CLEANOUT (CO)
	FLOOR DRAIN (FD) / FLOOR SINK (FS)
<u> </u>	WALL HYDRANT (WH) / HOSE BIBB (HB)
	STRAINER WATER METER
M M	
<u> </u>	CATCH BASIN
•	SHUT OFF VALVE
<u></u> ⊗	BALANCING VALVE
<u> </u>	CHECK VALVE
	UNION PREVENTER (PER)
*	BACKFLOW PREVENTER (BFP)
	SHOWER HEAD
	SHOCK ABSORBER (SA)
$- \emptyset $	RECIRCULATION PUMP

THERMOMETER

PRESSURE GAUGE

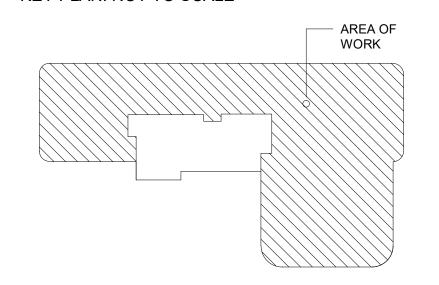
# Montefiore

MONTEFIORE NYACK HOSPITAL

160 NORTH MIDLAND AVENUE NYACK, NY 10960

**OUTPATIENT CLINIC** THIRD FLOOR 17 SQUADRON BLVD NEW CITY, NY 10956

KEY PLAN: NOT TO SCALE





518.533.2171

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Mechanical/Electrical Engineering Consultants Capital District | Rochester | Buffalo | Syracuse

433 STATE STREET, SUITE 410 SCHENECTADY, NY 12305 www.meengineering.com

M/E PROJECT NO.: 213299 STRUCTURAL ENGINEER

ISSUED DOCUMENTS:

03/07/2022 BID ISSUE - MEP 03/16/2022 ADDENDA #03

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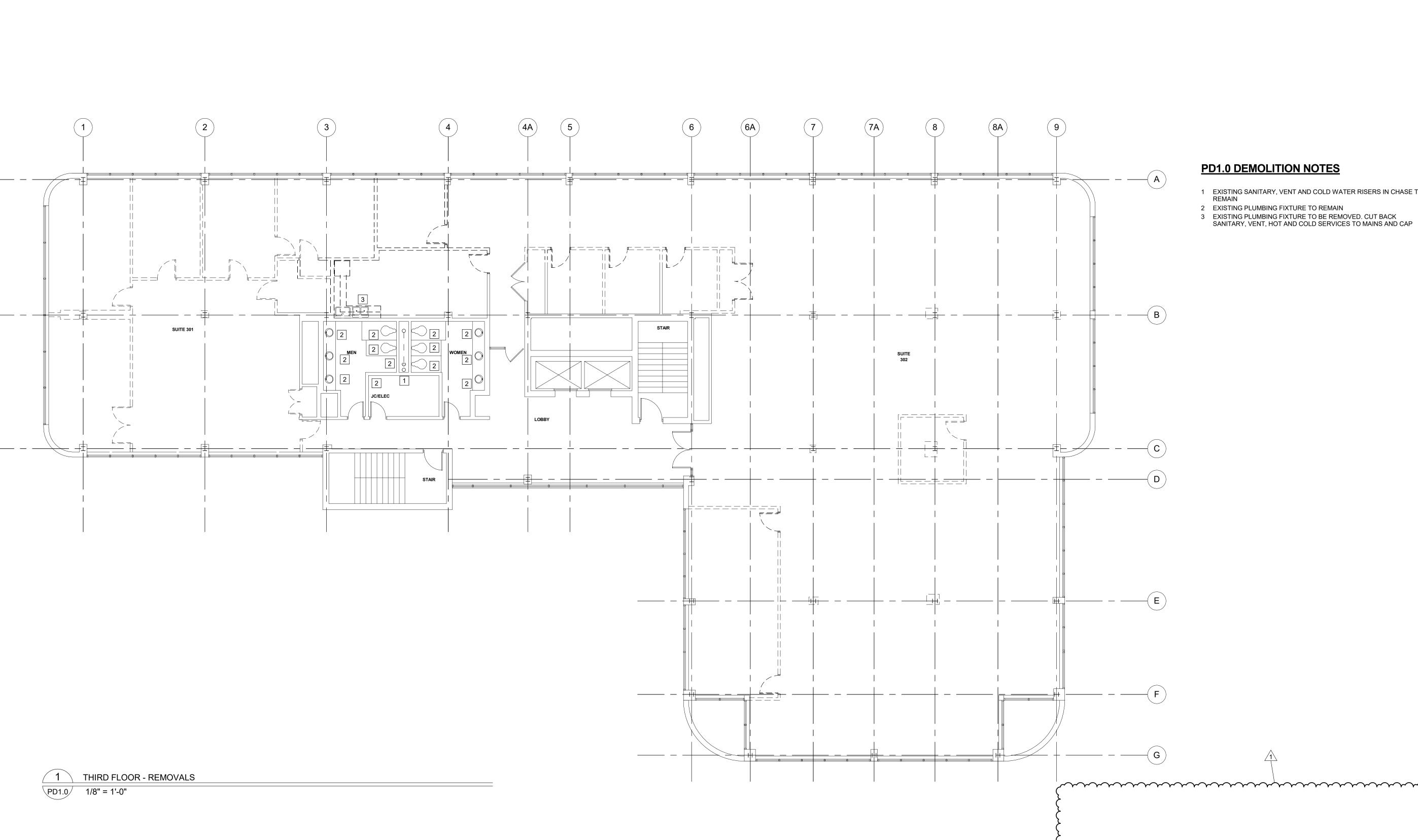
DRAWING TITLE:

PLUMBING SYMBOLS, NOTES AND **SCHEDULES** 

03/07/2022

PENDING SCALE AS NOTED

CON#



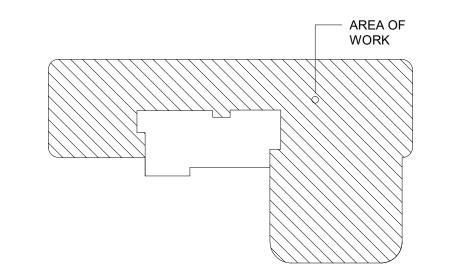
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## PD1.0 DEMOLITION NOTES

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- 1 EXISTING SANITARY, VENT AND COLD WATER RISERS IN CHASE TO
- 2 EXISTING PLUMBING FIXTURE TO REMAIN 3 EXISTING PLUMBING FIXTURE TO BE REMOVED. CUT BACK SANITARY, VENT, HOT AND COLD SERVICES TO MAINS AND CAP
- Pomarico Design Studio Architecture, PLLC Michael A. Pomarico, Architect 19 Front Street Newburgh, NY 12550 33 Irving Place, 3rd Floor

New York License No.: 019680 Telephone: 845.561.0448 Facsimile: 845.561.0446 pds@HealthCareDesign.com www.healthcaredesign.com New York, NY 10004



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M/E PROJECT NO.: 213299

STRUCTURAL ENGINEER

ISSUED DOCUMENTS: 
 No:
 Date:
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 - 03/07/2022
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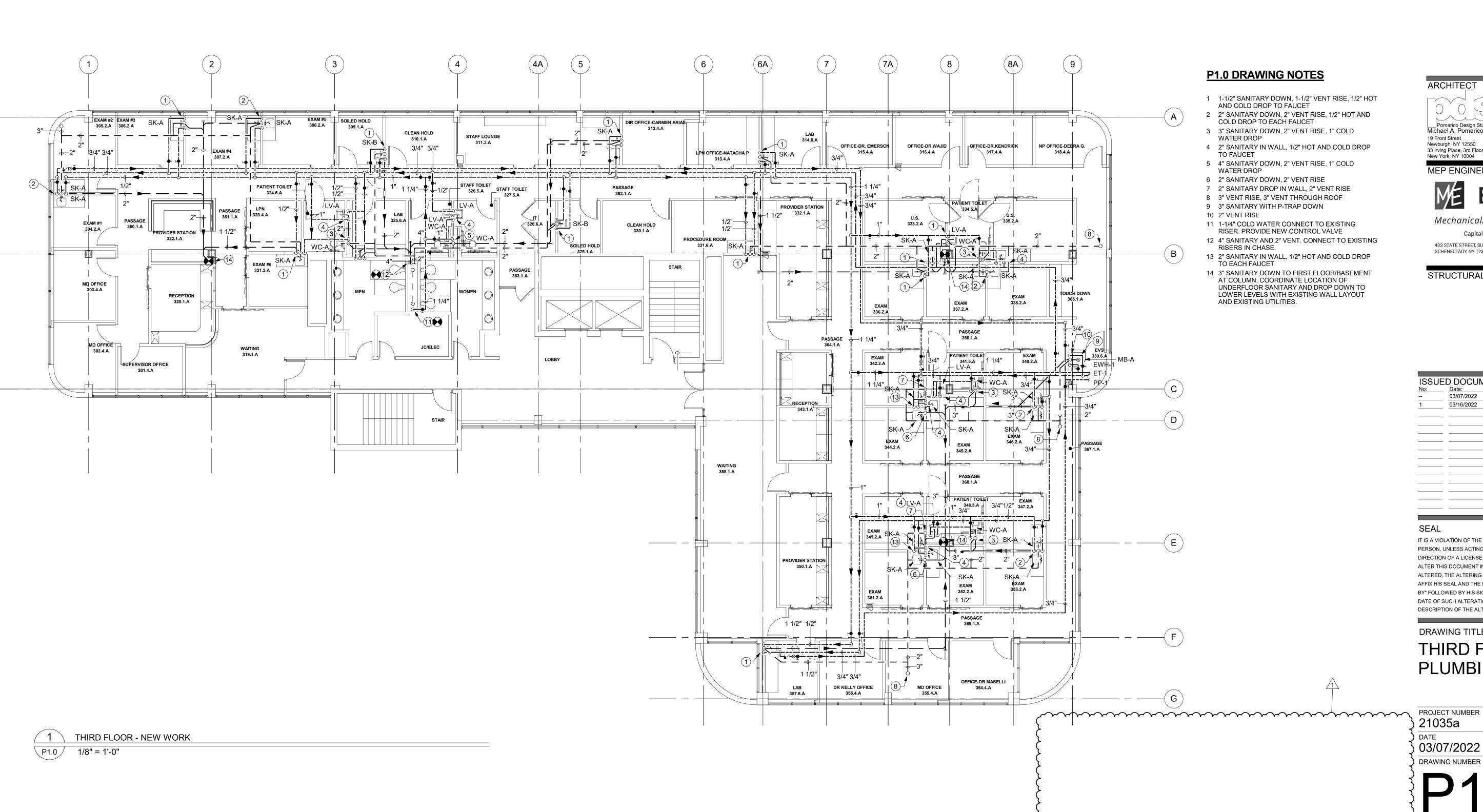


DRAWING TITLE:

THIRD FLOOR PLUMBING REMOVALS PLAN

PROJECT NUMBER 21035a 03/07/2022

CON# PENDING AS NOTED



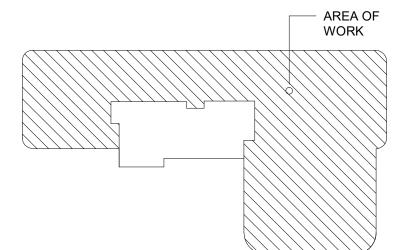
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MONTEFIORE NYACK HOSPITAL

160 NORTH MIDLAND AVENUE NYACK, NY 10960

**OUTPATIENT CLINIC** THIRD FLOOR 17 SQUADRON BLVD NEW CITY, NY 10956

KEY PLAN: NOT TO SCALE





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M/E PROJECT NO.: 213299

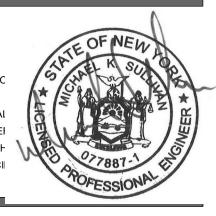
STRUCTURAL ENGINEER

ISSUED DOCUMENTS:

 
 Date:
 Description:

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## DRAWING TITLE:

THIRD FLOOR PLUMBING PLAN

03/07/2022

CON# PENDING SCALE AS NOTED

# SPRINKLER HYDRAULIC DESIGN SCHEDULE

SPACE	HAZARD CLASS	GROUP	DENSITY (GPM/S.F.)	AREA*	DESIGN ADJUSTMENT	SYSTEM	MAX./AREA SPRINKLER	HOSE DEMAND
OFFICE, TOILET ROOMS, PATIENT ROOMS, CORRIDORS AND WAITING	LIGHT	N/A	0.10	1,500 SQ.FT.	NONE	WET	225 SQ.FT.	100 GPM
STORAGE, MECHANICAL, ELECTRIC, DATA, ECT.	ORDINARY	1	0.15	1,500 SQ.FT.	NONE	WET	130 SQ.FT.	250 GPM

	FIRE PROTECTION GENERAL NOTES
#	General Note

- THE WORK COVERED CONSISTS OF FURNISHING ALL LABOR AND MATERIAL NECESSARY TO INSTALL, COMPLETE AND MAKE READY FOR CONTINUOUS OPERATION OF THE FIRE PROTECTION SYSTEM. APARATUS AND EQUIPMENT FOR THIS PROJECT, AS SHOWN ON THESE DRAWINGS, AND INCLUDED IN THE PROJECT SPECIFICATIONS.
- THIS PROJECT IS "DESIGN BUILD". THESE DRAWINGS AND SPECIFICATIONS ARE INTENDED TO INDICATE MINIMUM WORK AND MINIMUM STANDARDS FOR EQUIPMENT, MATERIALS AND PROCEDURES.
- ANY AND ALL PERMITS REQUIRED FOR INSTALLATION OF ANY MATERIAL SHALL BE OBTAINED BY THE SPRINKLER CONTRACTOR AS PART OF THE WORK, INCLUDING ALL FEES OR EXPENSES INCURRED.
- ROUTING OF SPRINKLER MAINS, BRANCHLINES AND SPRINKLERS SHALL BE THOROUGHLY COORDINATED BY THE SPRINKLER CONTRACTOR WITH OTHER TRADES AND BUILDING STRUCTURES PRIOR TO SUBMISSION OF COORDINATED SHOP DRAWINGS, ORDERING OF FABRICATED PIPING AND INSTALLATION.
- THE SPRINKLER CONTRACTOR SHALL PERFORM A NEW HYDRANT FLOW TEST AND SHALL BASE THE HYDRAULIC CALCULATIONS ON THESE RESULTS.
- PRESSURE TEST ALL NEW PIPING AND ALARMS PER NFPA 13 2017 ED. COMPLETE AND FILE ALL REPORTS AND CERTIFICATIONS REQUIRED. SUBMIT TO OWNER COPIES OF ALL REPORTS AND CERTIFICATIONS, TOGETHER WITH A COPY OF NFPA 25 2015 ED.
- ALL SPRINKLER SYSTEM PIPING IS TO BE CONCEALED ABOVE CEILINGS UNLESS OTHERWISE NOTED. SPRINKLER INSTALLED IN AREAS WITH NO FINISHED CEILING SHALL BE LOCATED AS HIGH AS POSSIBLE. SPRINKLERS SUBJECT TO PHYSICAL DAMAGE, OR WITH A DEFLECTOR ELEVATION OF 7'-6" AFF OR LESS, SHALL BE INSTALLED WITH APPROVED AND LISTED SPRINKLER GUARDS.
- WHERE SPRINKLER PIPING IS TO BE LEFT EXPOSED, THE SPRINKLER CONTRACTOR CLEAN PIPING AND MAKE READY FOR PAINTING.
- THE SPRINKLER CONTRACTOR SHALL PROVIDE SPRINKLER PROTECTION UNDER ALL MECHANICAL DUCTWORK OR OTHER OBSTRUCTION IN EXCESS OF 4'0" IN WIDTH, IN EXPOSED STRUCTURE AREAS, IN ACCORDANCE WITH NFPA 13 2015 ED.
- ALL PIPING THROUGH CONCRETE FLOORS AND FIRE RATED WALLS OR PARTITIONS SHALL BE PROVIDED WITH SLEEVE AND FIRE STOPPING WITH UL RATED ASSEMBLIES OF EQUAL FIRE RATING.
- THE FIRE SPRINKLER CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL, STORAGE AND CUTTING OF ANY CEILING TILES TO ACCOMMODATE SPRINKLERS AND PIPING. THE SPRINKLER CONTRACTOR SHALL ALSO REINSTALL THE CEILING TILES UPON COMPLETION OF THE WORK AND REPLACE ANY DAMAGED TILES.
- THE SPRINKLER CONTRACTOR SHALL DELIVER MATERIAL TO THE JOB. UNLOAD AND STORE MATERIALS IN A LOCATION AS DETERMINED BY THE OWNERS REPRESENTATIVE.
- THE SPRINKLER CONTRACTOR SHALL MAINTAIN THE WORK PREMISES FREE FROM ACCUMULATION OF WASTE MATERIAL OR REFUSED COVERED BY THIS WORK. AT THE COMPLETION OF THE WORK, REMOVE ALL SURPLUS MATERIALS, TOOLS, ECT. AND LEAVE THE PREMISES CLEAN.
- THESE SPRINKLER DRAWINGS ARE DIAGRAMATIC AND SHOWN AS A REPRESENTATIVE DESIGN ONLY. THE CONTRACTOR SHALL VISIT THE SITE, READ ALL DRAWINGS, AND MAKE DETAILED NOTES OF NECESSARY OFFSETS REQUIRED FOR INSTALLATION OF THE WORK.
- THE CONTRACTOR SHALL INSTALL A SINGLE AIR VENT WITH A MINIMUM 1/2" CONNECTION, AUTOMATIC, LOCATED NEAR THE FURETHEST HIGH POINT OF THE SYSTEM.

1	FIRE PROTECTION SYMBOL LIST
SYMBOL	DESCRIPTION
	EXISTING WORK TO BE REMOVED
•	POINT OF CONNECTION
X	POINT OF DISCONNECTION
NTS	NOT TO SCALE
(E)	EXISTING
(ETR)	EXISTING TO REMAIN
AFF	ABOVE FINISHED FLOOR
GC	GENERAL CONTRACTOR
MC	MECHANICAL CONTRACTOR
PC	PLUMBING CONTRACTOR
EC	ELECTRICAL CONTRACTOR
FC	FLUSHING CONNECTION
—— (E) ——	EXISTING PIPING
	NEW PIPING
—— FP ——	FIRE PROTECTION SERVICE (FP)
s	SPRINKLER MAIN/BRANCH PIPING (S)
<u> </u>	SPRINKLER DRAIN PIPING (D)
<del></del>	ELBOW DOWN
<del></del>	45°OFFSET
	ELBOW UP
<del></del>	BOTTOM/TEE CONNECTION
<u> </u>	TOP TEE CONNECTION
<del></del> }	PIPE CONTINUATION
	FLUSHING CONNECTION
0	STANDARD SPRAY QUICK RESPONSE UPRIGHT SPRINKLE
•	SEMI RECESSED PENDENT SPRINKLER HEAD
<del></del>	DRAIN VALVE
<u> </u>	CHECK VALVE
<del></del>	RELIEF VALVE
	BACKFLOW PREVENTER (BFP)
Ø N	SHUT-OFF VALVE WITH TAMPER SWITCH (TS)
	ALARM CHECK VALVE WITH TRIM (ACV)
<u> </u>	WATER MOTOR GONG
***	FIRE DEPARTMENT CONNECTION (FDC)

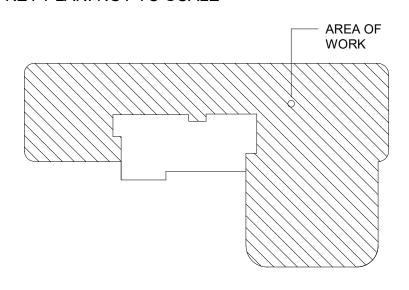
# Montefiore

MONTEFIORE NYACK HOSPITAL

160 NORTH MIDLAND AVENUE NYACK, NY 10960

**OUTPATIENT CLINIC** THIRD FLOOR 17 SQUADRON BLVD NEW CITY, NY 10956

**KEY PLAN: NOT TO SCALE** 





518.533.2171

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Mechanical/Electrical Engineering Consultants Capital District | Rochester | Buffalo | Syracuse

433 STATE STREET, SUITE 410 SCHENECTADY, NY 12305

www.meengineering.com M/E PROJECT NO.: 213299

STRUCTURAL ENGINEER

IF OFFSET LENGTH EXCEEDS 2'-0", PROVIDE - THREADED 90° **ELBOW** PIPE HANGER (TYPICAL) CLOSE NIPPLE → DROP NIPPLE SPRINKLER —► **BRANCH LINE** - REDUCER - SUSPENDED CEILING SPRINKLER PER SPEC (CONCEALED

SPRINKLER SHOWN)

**ISSUED DOCUMENTS:** Date: Description: BID ISSUE - MEF 03/16/2022 ADDENDA #03

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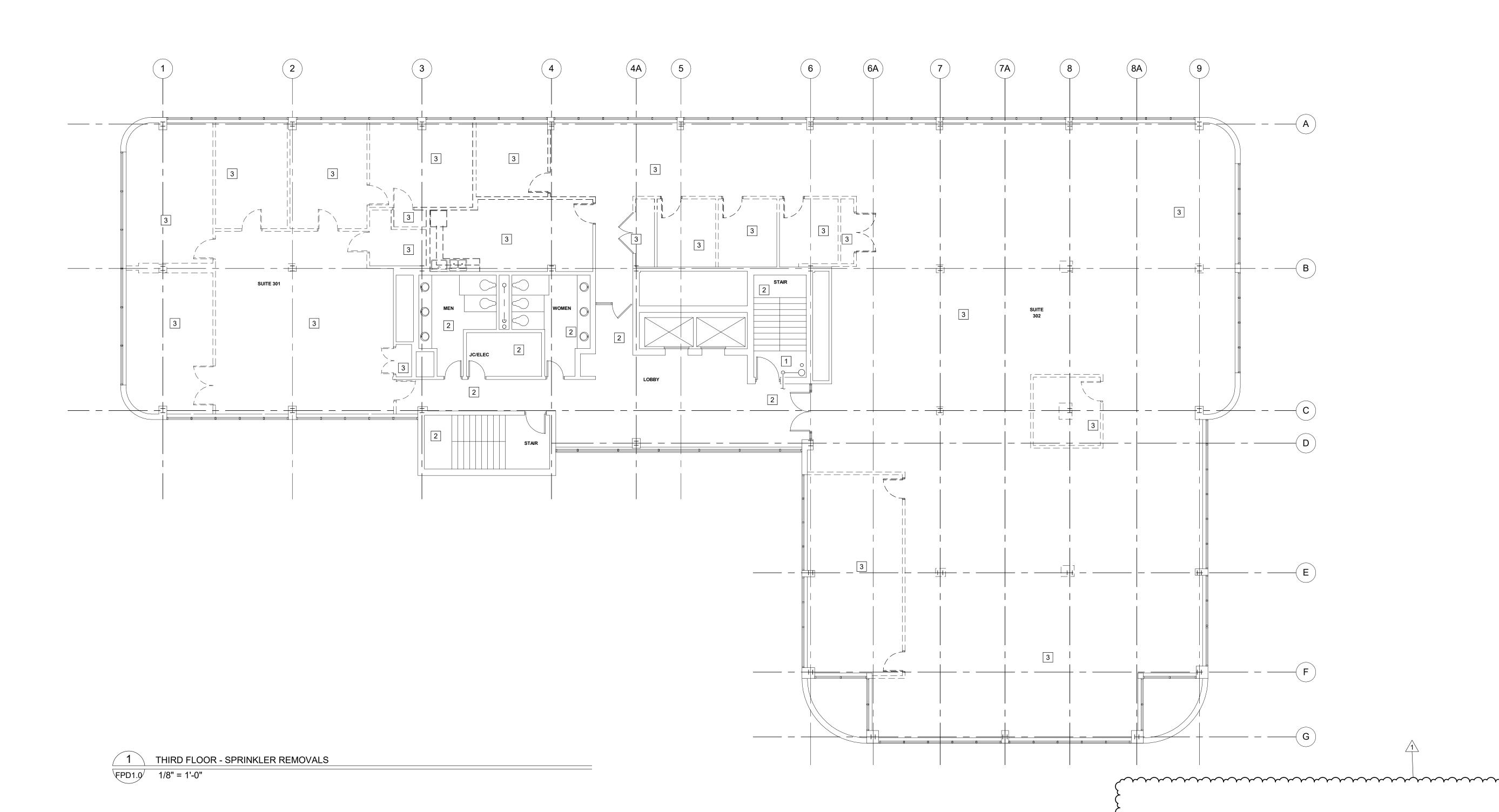
FIRE SPRINKLER SYMBOLS, NOTES AND SCHEDULES

21035a 03/07/2022

CON# PENDING SCALE AS NOTED

DRAWING NUMBER

RETURN BEND DETAIL



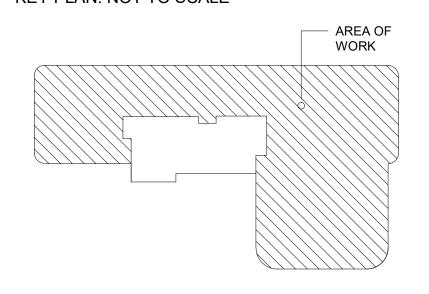
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160 NORTH MIDLAND AVENUE NYACK, NY 10960

OUTPATIENT CLINIC THIRD FLOOR 17 SQUADRON BLVD NEW CITY, NY 10956

KEY PLAN: NOT TO SCALE





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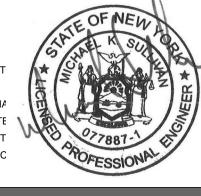
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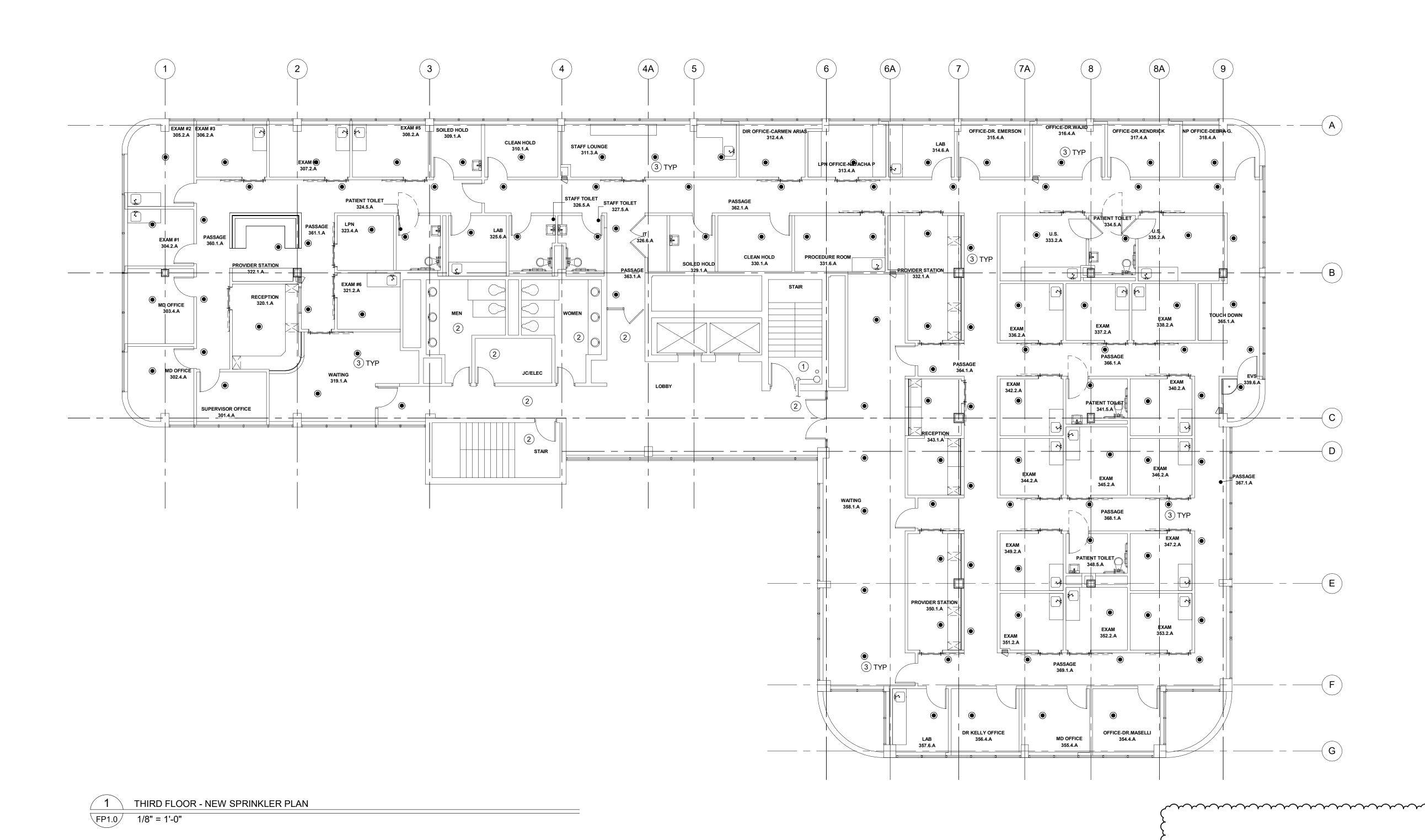
DRAWING TITLE:

THIRD FLOOR FIRE SPRINKLER REMOVALS PLAN

21035a 03/07/2022 DRAWING NUMBER

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CON # PENDING AS NOTED



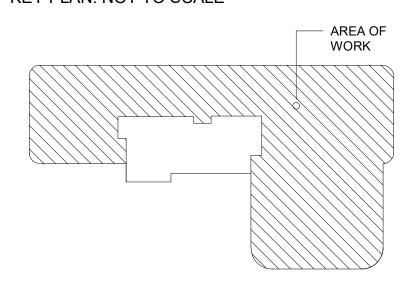
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KEY PLAN: NOT TO SCALE





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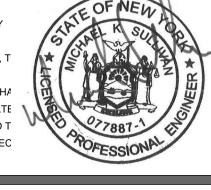
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DRAWING TITLE:

THIRD FLOOR FIRE SPRINKLER NEW WORK

PROJECT NUMBER
21035a
DATE
03/07/2022

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SCALE
AS NOTED