

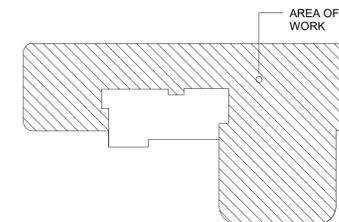
# Montefiore

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KEY PLAN: NOT TO SCALE



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ME PROJECT NO.: 212399

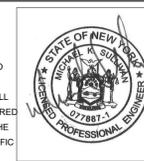
STRUCTURAL ENGINEER

## ISSUED DOCUMENTS:

No.	Date	Description
1	03/07/2022	BID ISSUE - MEP
1	03/16/2022	ADDENDA #03

## SEAL

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DRAWING TITLE:

## MECHANICAL SYMBOLS LISTS, AND GENERAL NOTES

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

# MO.0

## GENERAL NOTES

(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 WORK.

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. 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 SYMBOL LIST			
SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
↑ DI	DIGITAL INPUT (GENERAL)	⊘SD	DUCT SMOKE DETECTOR
↓ DO	DIGITAL OUTPUT (GENERAL)	⊘CT	CURRENT TRANSDUCER
↑ AI	ANALOG INPUT (GENERAL)	⊘IP	ELECTRIC/PNEUMATIC TRANSDUCER
↓ AO	ANALOG OUTPUT (GENERAL)	⊘IE	ELECTRONIC/ELECTRIC TRANSDUCER
⊏	THERMOWELL	⊘	ELECTRICAL INTERFACE
⊠	ALARM	⊘S	START/STOP
⊠E	ELECTRIC ACTUATOR	⊘C	OPEN/CLOSE
⊠FZ	FREEZE-STAT	⊘E	ENABLE/DISABLE
⊠H	HUMIDIFIER	⊘	ELECTRICAL INTERFACE
⊠R	RELAY	⊘	HARD WIRE INTERFACE
⊠S	STATUS	⊘I	ELECTRONIC INTERFACE
⊠M	FLOW METER	⊘	PNEUMATIC CONTROL VALVE (3-WAY)
⊠BTU	BTU ENERGY METER	⊘	PNEUMATIC CONTROL VALVE (2-WAY)
⊠	AIR FLOW MEASURING 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 VALVE
⊠CO2	CARBON DIOXIDE SENSOR (DUCT MOUNTED)	⊘	AUTOMATIC AIR DAMPER (PARALLEL BLADE)
⊠S	SPACE TEMPERATURE SENSOR (WALL MOUNTED)	⊘	AUTOMATIC AIR DAMPER (OPPOSED BLADE)
⊠H	SPACE HUMIDITY SENSOR (WALL MOUNTED)	⊘	PNEUMATIC ACTUATOR
⊠C	CARBON DIOXIDE ROOM SENSOR (WALL MOUNTED)	⊘M	MAIN TEMPERATURE CONTROL AIR SOURCE
⊠CO	CARBON MONOXIDE ROOM SENSOR (WALL MOUNTED)	EA	EXHAUST AIR
⊠N	NITROGEN DIOXIDE ROOM SENSOR (WALL MOUNTED)	OA	OUTSIDE AIR
⊠T	PNEUMATIC THERMOSTAT	RA	RETURN AIR
⊠TE	LINE VOLTAGE THERMOSTAT	SA	SUPPLY AIR
⊠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	⊠	FILTER
⊠SM	MANUAL SWITCH	⊠	BASE MOUNTED PUMP
⊠DP	DIFFERENTIAL STATIC PRESSURE SWITCH	⊠	IN LINE PUMP
⊠VP	DIFFERENTIAL STATIC PRESSURE SENSOR	⊠ASD	ADJUSTABLE SPEED DRIVE
⊠EP	ELECTRIC/PNEUMATIC SWITCH OR RELAY	⊠C	COOLING COIL
⊠PE	PNEUMATIC/ELECTRIC SWITCH OR RELAY	⊠H/C	HEATING COIL
⊠F	FLOW TRANSMITTER TRANSDUCER	⊠HR/C	HEAT RECOVERY COIL
⊠P	PRESSURE SENSOR	⊠R134a	REFRIGERANT R134a SENSOR (WALL MOUNTED)

HVAC SYMBOL LIST			
SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
⊠	EXISTING WORK TO BE REMOVED	⊠	COMPRESSED AIR
⊠	POINT OF CONNECTION	⊠V	VENT
⊠	POINT OF DISCONNECTION	⊠BBD	BOILER BLOW DOWN
⊠X	DRAWING KEYNOTE	⊠CS	CONDENSER WATER SUPPLY
⊠	DEMOLITION KEYNOTE	⊠CR	CONDENSER WATER RETURN
MBH	THOUSAND BTU/HOUR	⊠CWS	CHILLED WATER SUPPLY
NTS	NOT TO SCALE	⊠CWR	CHILLED WATER RETURN
(E)	EXISTING	⊠D	DRAIN
(L)	ACOUSTIC THERMAL LINING - 1-1/2" THICK	⊠FOF	FUEL OIL FILL
(2L)	ACOUSTIC THERMAL LINING - 2" THICK	⊠FOG	FUEL OIL GAUGE
(DBL)	DOUBLE WALL LINED DUCT	⊠FOS	FUEL OIL SUPPLY
FPM	FEET PER MINUTE	⊠FOR	FUEL OIL RETURN
CFM	CUBIC FEET PER MINUTE	⊠FOV	FUEL OIL TANK VENT
AFF	ABOVE FINISHED FLOOR	⊠G	GAS
AD	ACCESS DOOR	⊠GS	GLYCOL SUPPLY
WW	WALL TO WALL	⊠GR	GLYCOL RETURN
G.C.	GENERAL CONTRACTOR	⊠HPWS	HEAT PUMP WATER SUPPLY
M.C.	MECHANICAL CONTRACTOR	⊠HPWR	HEAT PUMP WATER RETURN
P.C.	PLUMBING CONTRACTOR	⊠HWS	HOT WATER SUPPLY
E.C.	ELECTRICAL CONTRACTOR	⊠HWR	HOT WATER RETURN
N.O.	NORMALLY OPEN	⊠LPS	LOW PRESSURE STEAM
N.C.	NORMALLY CLOSED	⊠LPC	LOW PRESSURE CONDENSATE
	FLEXIBLE DUCTWORK	⊠MPS	MEDIUM PRESSURE STEAM
⊠	DUCT SECTION - FLAT OVAL (FO)	⊠MPC	MEDIUM PRESSURE CONDENSATE
⊠12"	ROUND DUCT - IN INCHES	⊠HPS	HIGH PRESSURE STEAM
⊠	DUCT SECTION - SUPPLY	⊠HPC	HIGH PRESSURE CONDENSATE
⊠	DUCT SECTION - RETURN	⊠PC	PUMPED CONDENSATE
⊠	WIDTH A x DEPTH B	⊠RD	REFRIGERANT DISCHARGE
⊠	TRANSITION SQUARE TO ROUND	⊠RL	REFRIGERANT LIQUID
⊠	RISE IN DUCT - IN DIRECTION OF AIRFLOW	⊠RS	REFRIGERANT SUCTION
⊠	DROP IN DUCT - IN DIRECTION OF AIRFLOW	⊠HG	HOT GAS
DN 24x12 UP	SUPPLY DUCT TURNING UP OR DOWN	⊠VAC	VACUUM
DN 24x12 UP	RETURN DUCT TURNING UP OR DOWN	⊠CW	DOMESTIC COLD WATER
⊠	SUPPLY/RETURN RECTANGULAR MAIN ROUND BRANCH	⊠TD	TRIPLE DUTY VALVE
⊠	SUPPLY/RETURN RECTANGULAR MAIN ROUND BRANCH	⊠	GLOBE VALVE
⊠	SUPPLY/RETURN ROUND MAIN ROUND BRANCH	⊠	BALL VALVE
⊠	SUPPLY/RETURN ROUND MAIN ROUND BRANCH	⊠	GATE VALVE
⊠	SUPPLY/RETURN ROUND MAIN ROUND BRANCH	⊠	CONTROL VALVE
⊠	MITERED ELBOW WITH TURNING VANES	⊠	THREE WAY CONTROL VALVE
⊠	SUPPLY DIFFUSER, REGISTER OR GRILLE	⊠	CHECK VALVE
⊠	RETURN REGISTER	⊠	BALANCING VALVE
⊠	EXHAUST GRILLE	⊠	BUTTERFLY VALVE
⊠	FIN TUBE RADIATION	⊠PRV	RELIEF VALVE
⊠	VALANCE	⊠	PRESSURE REDUCING VALVE
⊠	REGISTER, GRILLE OR DIFFUSER TAG	⊠	PRESSURE/TEMPERATURE TEST PLUG
⊠	LINEAR DIFFUSER TAG	⊠	SINGLE LINE PIPE CONTINUED
⊠	RADIANT CEILING PANEL TAG	⊠	DOUBLE LINE PIPE OR ROUND DUCT CONTINUED
⊠	VALANCE TAG	⊠	DOUBLE LINE RECTANGULAR DUCT CONTINUED
⊠	AIR TERMINAL UNIT TAG (OPTION 1)	⊠	AIR FLOW
⊠	AIR TERMINAL UNIT TAG (OPTION 2)	⊠	PIPE ANCHOR
⊠	DUCT SMOKE DETECTOR	⊠	PIPE GUIDE
		⊠	EXPANSION COMPENSATOR WITH GUIDES
		⊠	PRE-FAB EXPANSION LOOP
		⊠	STRAINER
		⊠	PRESSURE GAUGE
		⊠	THERMOMETER
		⊠	UNION
		⊠	AIR VENT
		⊠	THERMOSTATIC TRAP
		⊠	FLOAT & THERMOSTATIC TRAP
		⊠	THERMODYNAMIC TRAP
		⊠	BUCKET TRAP
		⊠	DIRECTION OF FLOW
		⊠	REDUCER
		⊠	CAP OR PLUG
		⊠	ELBOW DOWN
		⊠	ELBOW UP
		⊠	BOTTOM TAP
		⊠	AUTOMATIC AIR DAMPER
		⊠	FIRE DAMPER
		⊠	SMOKE DAMPER
		⊠	COMBINATION FIRE/SMOKE DAMPER
		⊠	BACK DRAFT DAMPER
		⊠	FLEX CONNECTOR - DUCTWORK
		⊠	MOTORIZED DAMPER
		⊠	BLAST GATE
		⊠	VOLUME DAMPER
		⊠	SUCTION DIFFUSER
		⊠	FLEXIBLE CONNECTOR - PIPING
		⊠	DRAIN VALVE WITH HOSE CONNECTION, CAP AND CHAIN
		⊠	WATER FLOW SENSOR
		⊠	WATER TEMPERATURE SENSOR
		⊠	STATIC PRESSURE SENSOR
		⊠	HUMIDISTAT
		⊠	TEMPERATURE SENSOR
		⊠	CARBON DIOXIDE SENSOR
		⊠	CARBON MONOXIDE SENSOR
		⊠	GAS SENSOR
		⊠	PNEUMATIC/ELECTRIC THERMOSTAT
		⊠	THERMOSTAT/SENSOR WITH GUARD



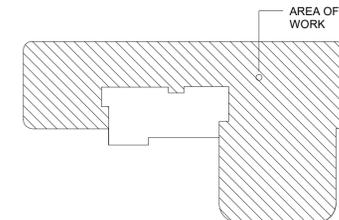
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M/E PROJECT NO.: 210359

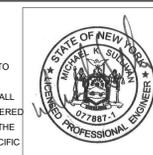
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No.	Date	Description
1	03/07/2022	BID ISSUE - MEP
1	03/16/2022	ADDENDA #03

## SEAL

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DRAWING TITLE:

**MECHANICAL AIRFLOWS**

PROJECT NUMBER  
**21035a**

CON #  
PENDING

DATE  
03/07/2022

SCALE  
AS NOTED

DRAWING NUMBER

# MO.1

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
Vpz	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 HANDLING UNIT BUT DOES NOT INCLUDE AIR TRANSFERRED OR AIR RECIRCULATED TO THE ZONE BY OTHER 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 Rate)	EXHAUST AIRFLOW RATE (CFM/SQ.FT.). THE HIGH EXHAUST RATE, IT SHALL BE PROVIDED WHERE THE EXHAUST SYSTEM IS DESIGNED TO OPERATE INTERMITTENTLY.
AF Fixture (Low Rate)	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.
Va	NATURAL VENTILATION MINIMUM OPENABLE AREA TO THE OUTDOORS

## IMC-2018 VENTILATION CALCULATIONS - MULTIPLE UNITS

SYSTEM VALUES:		System Primary Air Flow (Vps):	3260	OA %:	25.0	D:	1.00	DESIGN MEETS AUTHORITY:	YES										
		System Outdoor Air Flow (Vot):	815	Vou:	488.78	Ev:	0.90												
ZONE IDENTIFICATION		BASE CASE PER AUTHORITY					DESIGN CASE			ADDITIONAL INFO									
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 REQUIRED	DCV REQUIRED	CO2 SENSOR PROVIDED	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	0.8	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 MASELLI OFFICE	VAV-6-2	Office Space	97	1	5.0	0.06	11	0.8	14	115	0.12	29	YES					

## ROOM AIRFLOW CALCULATIONS (2018 OUTPATIENT FGI)

ROOM		AIA-ASHRAE 170 (Table 7.1)										AIA TOTAL AIRFLOW (CFM)		AIA OA (CFM)	
NUMBER	NAME	SQ FT	CEILING HEIGHT	CLASSIFICATION	PRESSURE TYPE	OACHR	TACHR								
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
331.6.A	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		34.1
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
364.A.1	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	EXAM	81	8	EXAM ROOM	N/R	2	4						43.2		21.6
348.5.A	PATIENT TOILET	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		23.5
353.2.A	EXAM	81	8	EXAM ROOM	N/R	2	4						43.2		21.6
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		21.3
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		21.9
344.2.A	EXAM	82	8	EXAM ROOM	N/R	2	4						43.7		21.9
345.2.A	EXAM	96	8	EXAM ROOM	N/R	2	4						51.2		25.6
346.2.A	EXAM	80	8	EXAM ROOM	N/R	2	4						42.7		21.3





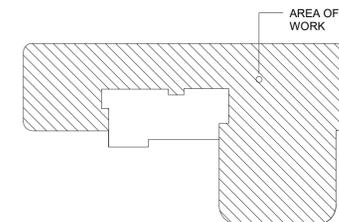
# Montefiore

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OUTPATIENT CLINIC  
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KEY PLAN: NOT TO SCALE



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M/E PROJECT NO.: 210359

STRUCTURAL ENGINEER

ISSUED DOCUMENTS:

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

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DRAWING TITLE:  
**THIRD FLOOR  
MECHANICAL NEW  
WORK PLAN**

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

# M1.0

**GENERAL NOTES:**

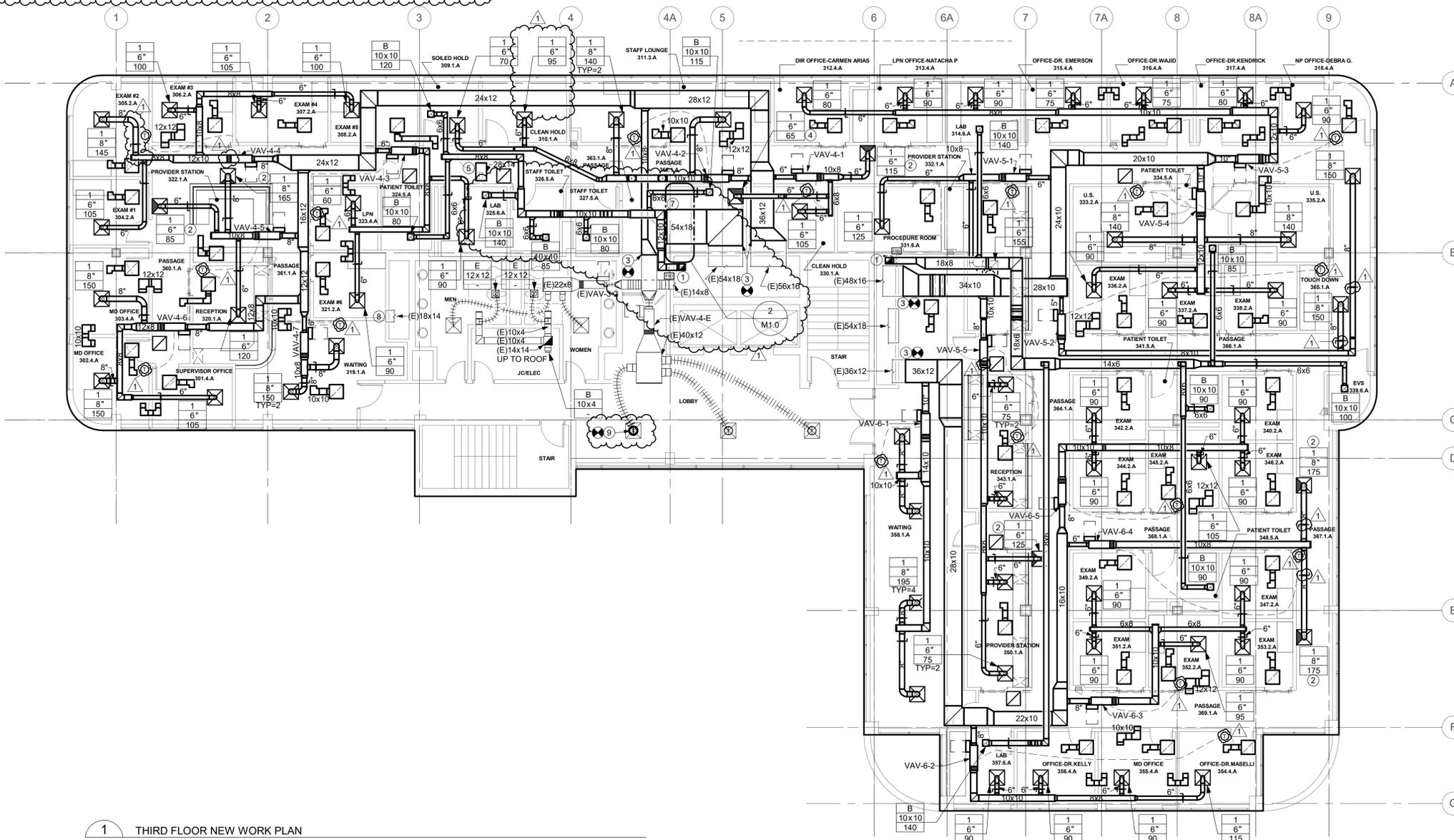
- A PRETEST WAS CONDUCTED FOR ALL RTUs SERVING THE SCOPE AREA PRIOR TO COMPLETING DESIGN. IT WAS FOUND AS A RESULT OF THIS TESTING THAT THE RTUs ARE IN NEED OF SOME REPAIRS, AND THE OUTDOOR AIRFLOWS BEING PROVIDED TO THE SPACES WERE NOT SUFFICIENT TO MEET THE CODE REQUIRED AMOUNTS. I WAS TOLD BY ARCHITECT 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.
- 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.
- ANY TRANSFER GRILLE OR SOUND TRAP THAT IS NOT LABELED ON THE DRAWING IS 8x8.

**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.
- 3 WAY DIFFUSER.
- CONNECT NEW DUCTWORK TO EXISTING DUCTWORK.
- 2 WAY DIFFUSER.
- TRANSFER DUCT BETWEEN PASSAGES.
- PROVIDE RS&RL UP TO ROOF. SIZE PER MANUFACTURER'S RECOMMENDATIONS. SEE M1.1 FOR CONTINUATION.
- PROVIDE WIREMESH SCREEN ON OPEN ENDED RETURN DUCT.
- EXISTING 18x14 RETURN DUCT LOCATION BASED ON LIMITED FIELD VERIFICATION. IF LOCATED WITHIN NEW WALL, REMOVE ENTIRE RETURN DUCT.
- CONNECT EXISTING FLEX DUCT TO EXISTING DIFFUSER.

**2** THIRD FLOOR IT ROOM PIPING PLAN

M1.0 1/4" = 1'-0"



**1** THIRD FLOOR NEW WORK PLAN

M1.0 1/8" = 1'-0"



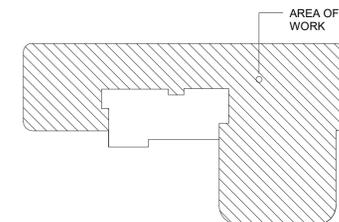
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KEY PLAN: NOT TO SCALE



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M/E PROJECT NO.: 210359

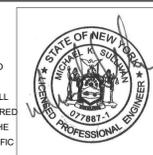
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DRAWING TITLE:

**MECHANICAL DETAILS**

PROJECT NUMBER  
**21035a**

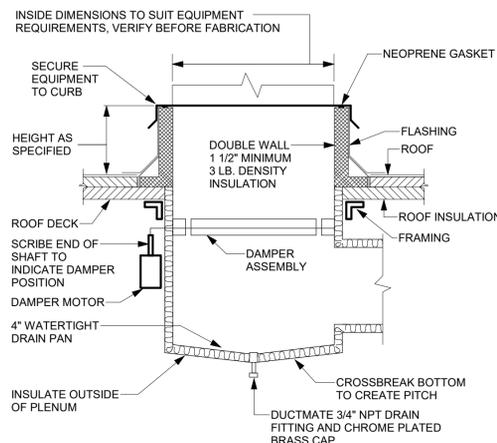
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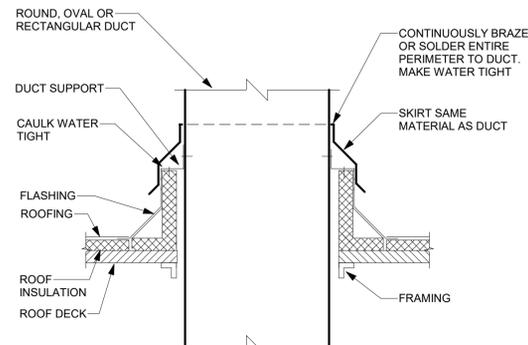
DRAWING NUMBER

# M5.0



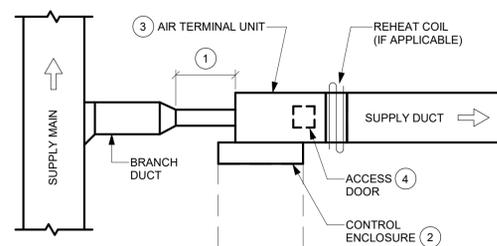
DETAIL NOTES:

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



DETAIL NOTES:

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



KEYED NOTES:

- 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.
- MAINTAIN MINIMUM 1'-6" SERVICE CLEARANCE IN FRONT OF ENCLOSURE TO ALLOW FOR SERVICE/ACCESS.
- COMPONENT ARRANGEMENT MAY VARY BY MANUFACTURER. PROVIDE INSULATION VAPOR BARRIER AS SPECIFIED.
- 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.

## 1 ROOF CURB DETAIL

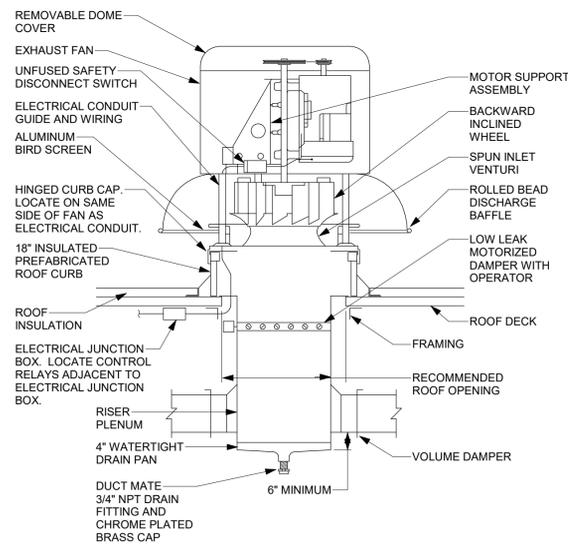
M5.0 NTS

## 2 DUCT PENETRATION CURB DETAIL

M5.0 NTS

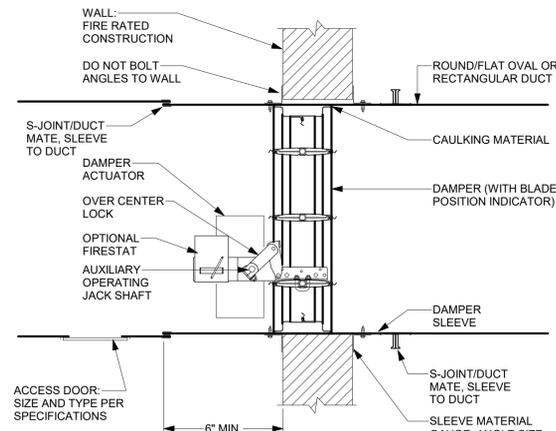
## 3 VAV BOX DETAIL

M5.0 NTS



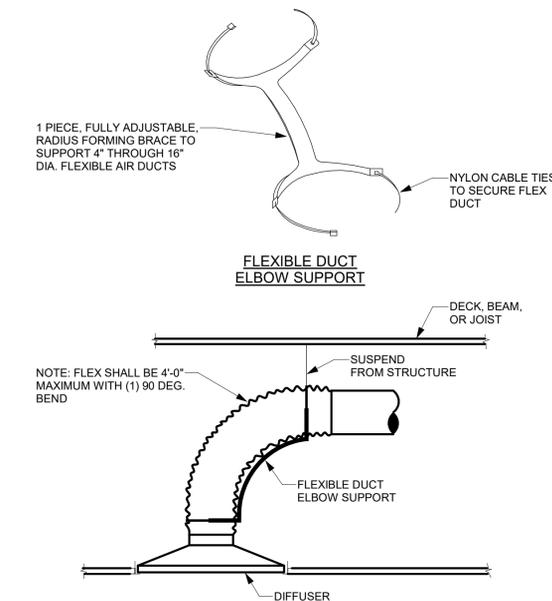
DETAIL NOTES:

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



DETAIL NOTES:

- HORIZONTAL DAMPER INSTALLATION SIMILAR.
- FOR DOUBLE WALL DUCT, USE INSULATION END CAP, INSULATE SLEEVE.
- 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.



## 4 DOWNBLAST EXHAUST FAN DETAIL

M5.0 NTS

## 5 COMBINATION FIRE/SMOKE DAMPER INSTALLATION DETAIL

M5.0 NTS

## 6 SUPPLY AIR DIFFUSER DETAIL - RADIUS FLEXIBLE DUCT - BRACE

M5.0 NTS











**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.

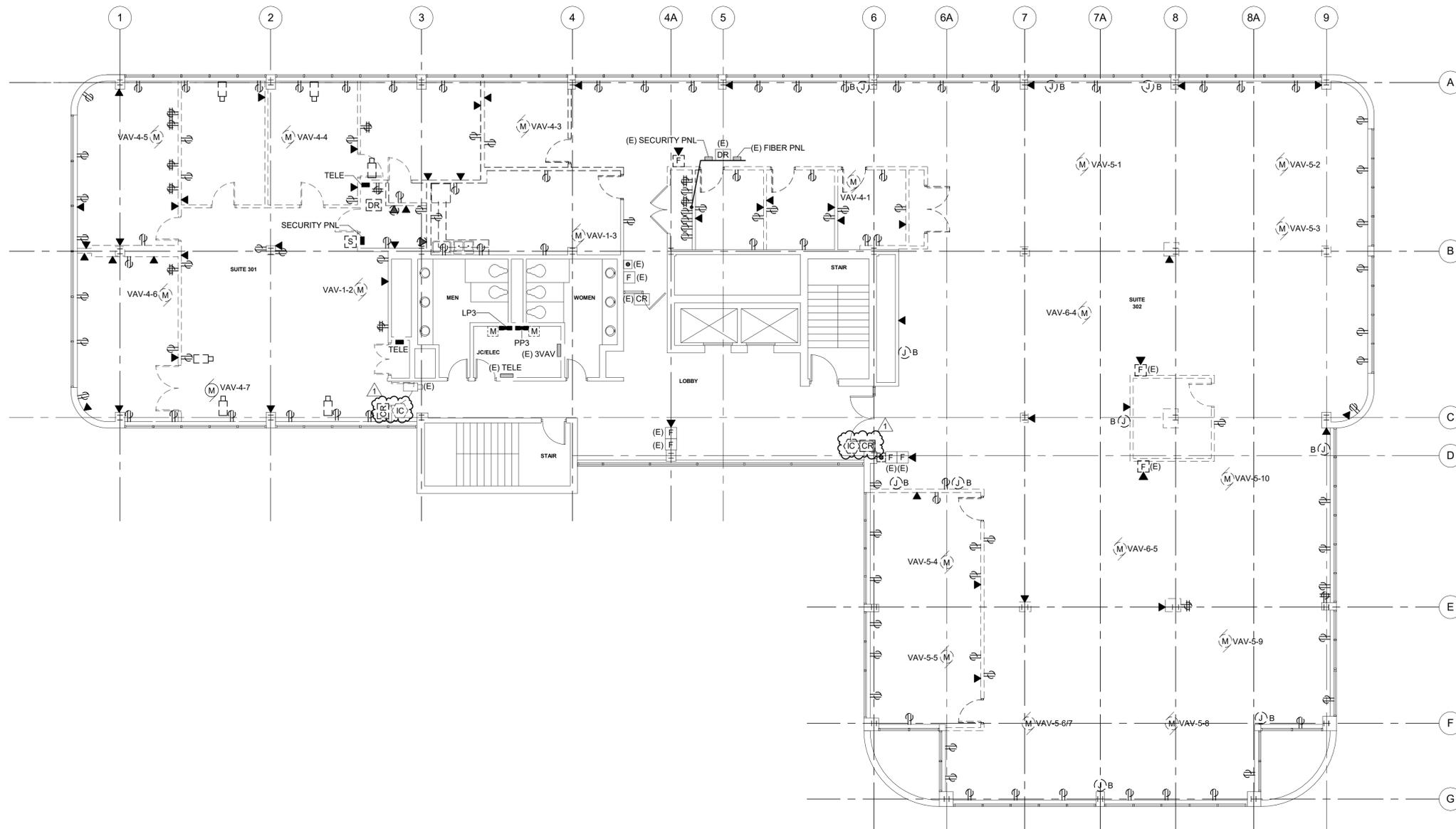
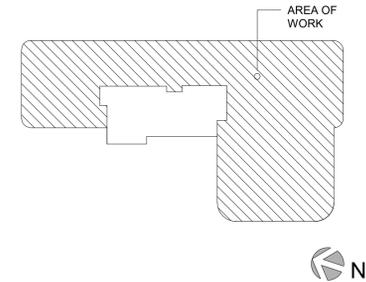
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NYACK, NY 10960

OUTPATIENT CLINIC  
THIRD FLOOR  
17 SQUADRON BLVD  
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KEY PLAN: NOT TO SCALE



1 THIRD FLOOR ELECTRICAL REMOVALS PLAN  
ED1.0 1/8" = 1'-0"

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DRAWING TITLE:  
**THIRD FLOOR  
ELECTRICAL  
REMOVALS PLAN**

PROJECT NUMBER  
**21035a**

CON #  
PENDING

DATE  
**03/07/2022**

SCALE  
AS NOTED

DRAWING NUMBER

**ED1.0**

**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.

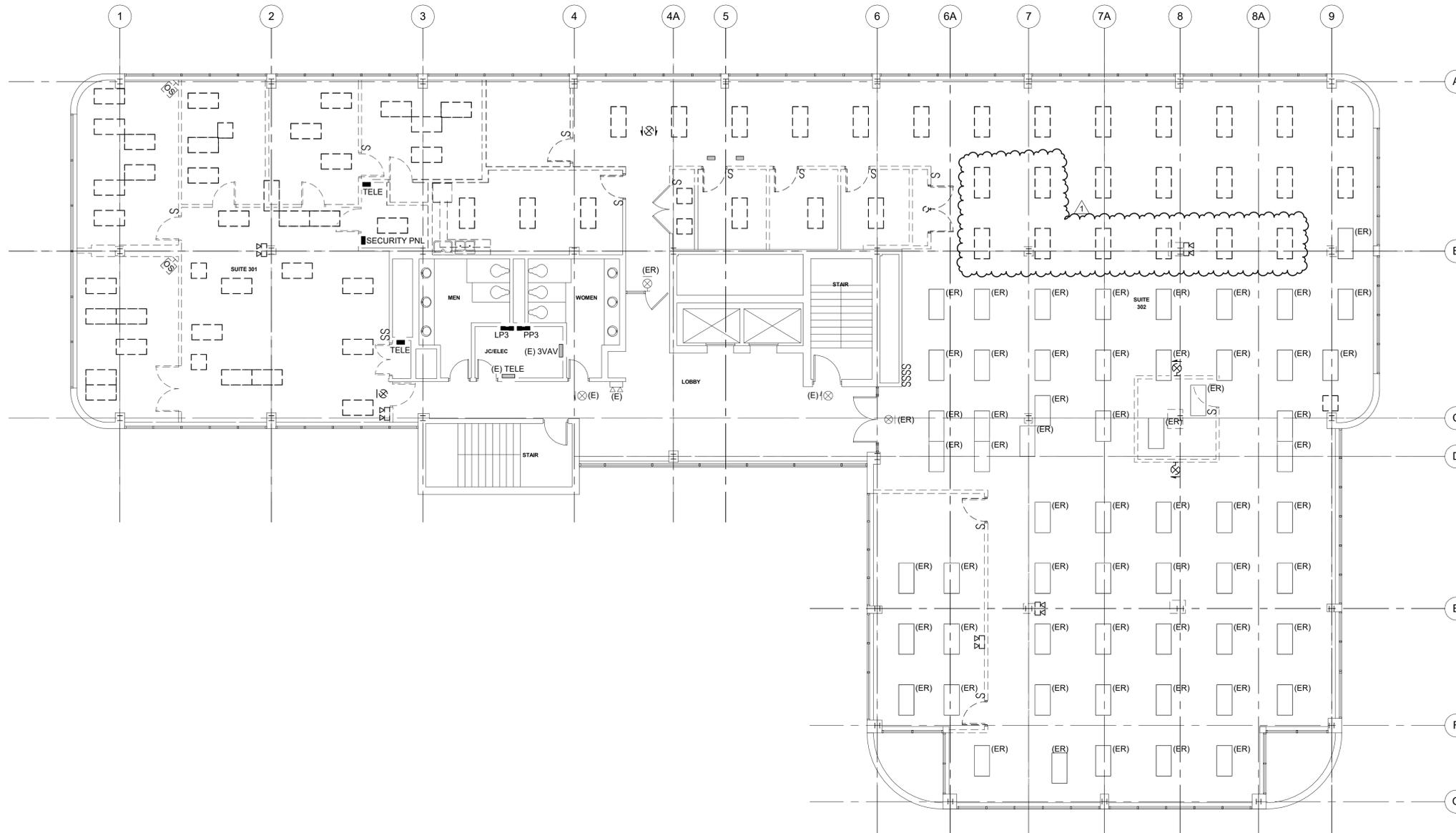
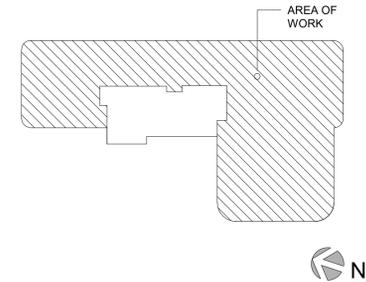
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NEW CITY, NY 10956

KEY PLAN: NOT TO SCALE



1 THIRD FLOOR LIGHTING REMOVALS PLAN  
ED2.0 1/8" = 1'-0"

ARCHITECT

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DRAWING TITLE:  
**THIRD FLOOR  
LIGHTING REMOVALS  
PLAN**

PROJECT NUMBER  
**21035a**

CON #  
PENDING

DATE  
**03/07/2022**

SCALE  
AS NOTED

DRAWING NUMBER

**ED2.0**

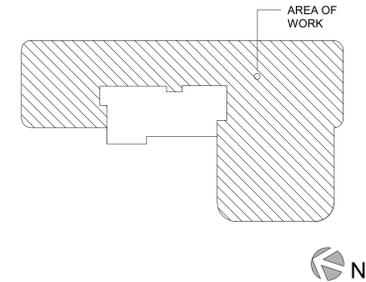
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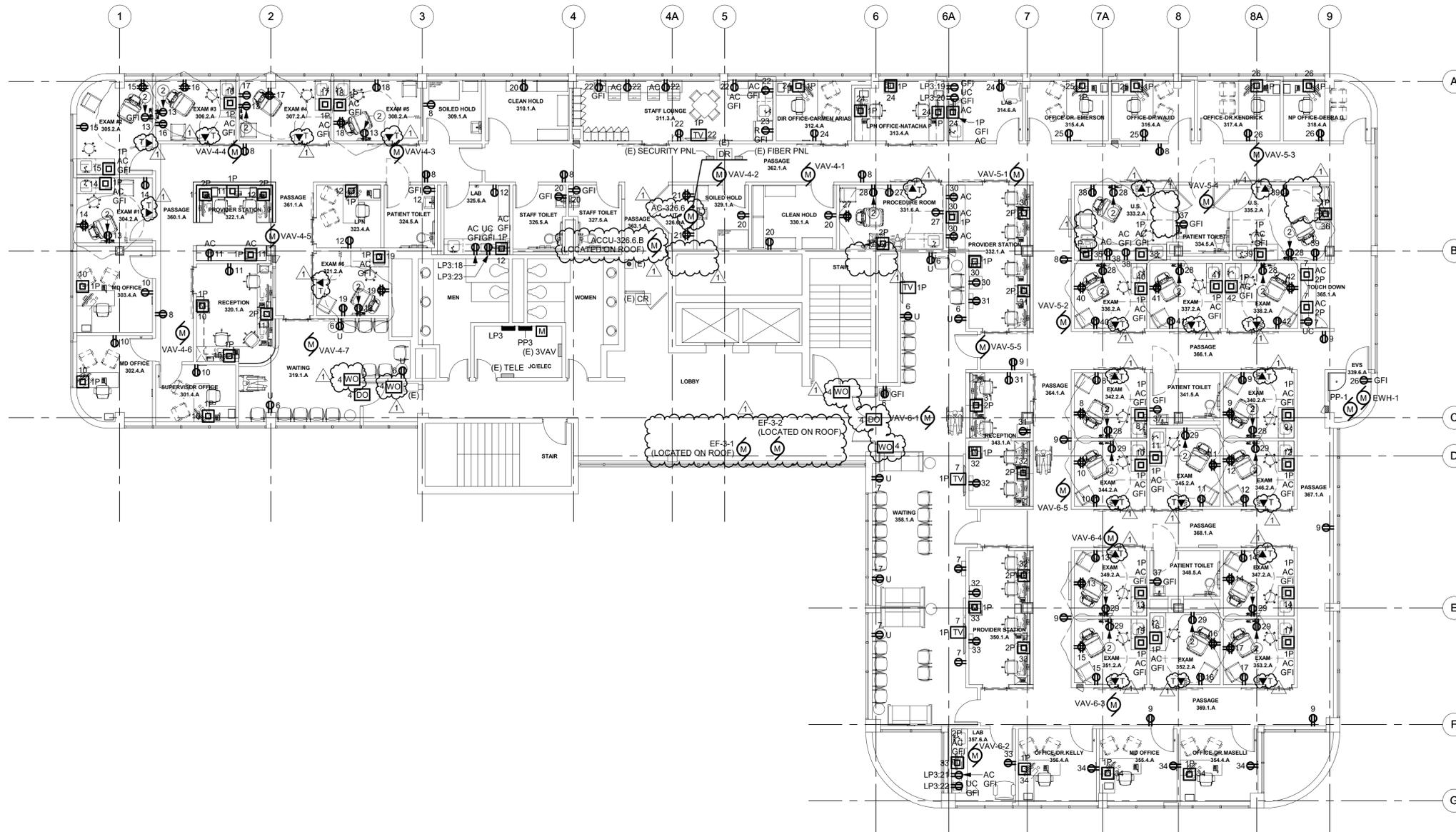


## GENERAL NOTES

- ALL DEVICE MOUNTING HEIGHTS ARE TO BE COORDINATED WITH ARCHITECTURAL ELEVATIONS.
- 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.
- 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.
- ALL NEW DEVICES ON THIS FLOOR SHALL BE CIRCUITED TO NEW PANELS "LP3" OR "PP3" UNLESS OTHERWISE NOTED.
- HOSPITAL GRADE RECEPTACLES SHALL BE PROVIDED AS REQUIRED BY NFPA 70 AT ALL PATIENT CARE LOCATIONS.
- TAMPER PROOF RECEPTACLES SHALL BE PROVIDED AS REQUIRED BY NFPA 70 AT ALL TOILET ROOMS, WAITING SPACES, OFFICES AND CORRIDORS.

## DRAWING NOTES

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



1 THIRD FLOOR POWER & SYSTEMS PLAN  
E1.0 1/8" = 1'-0"

## ARCHITECT

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ME PROJECT NO.: 213299

## STRUCTURAL ENGINEER

## ISSUED DOCUMENTS:

No.	Date	Description
-	03/07/2022	BID ISSUE - MEP
1	03/18/2022	ADDENDA #03

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DRAWING TITLE:  
**THIRD FLOOR POWER & SYSTEMS PLAN**

PROJECT NUMBER  
**21035a**

CON #  
PENDING

DATE  
**03/07/2022**

SCALE  
AS NOTED

DRAWING NUMBER

# E1.0

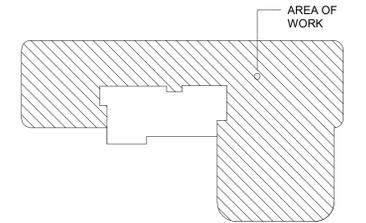
# Montefiore

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

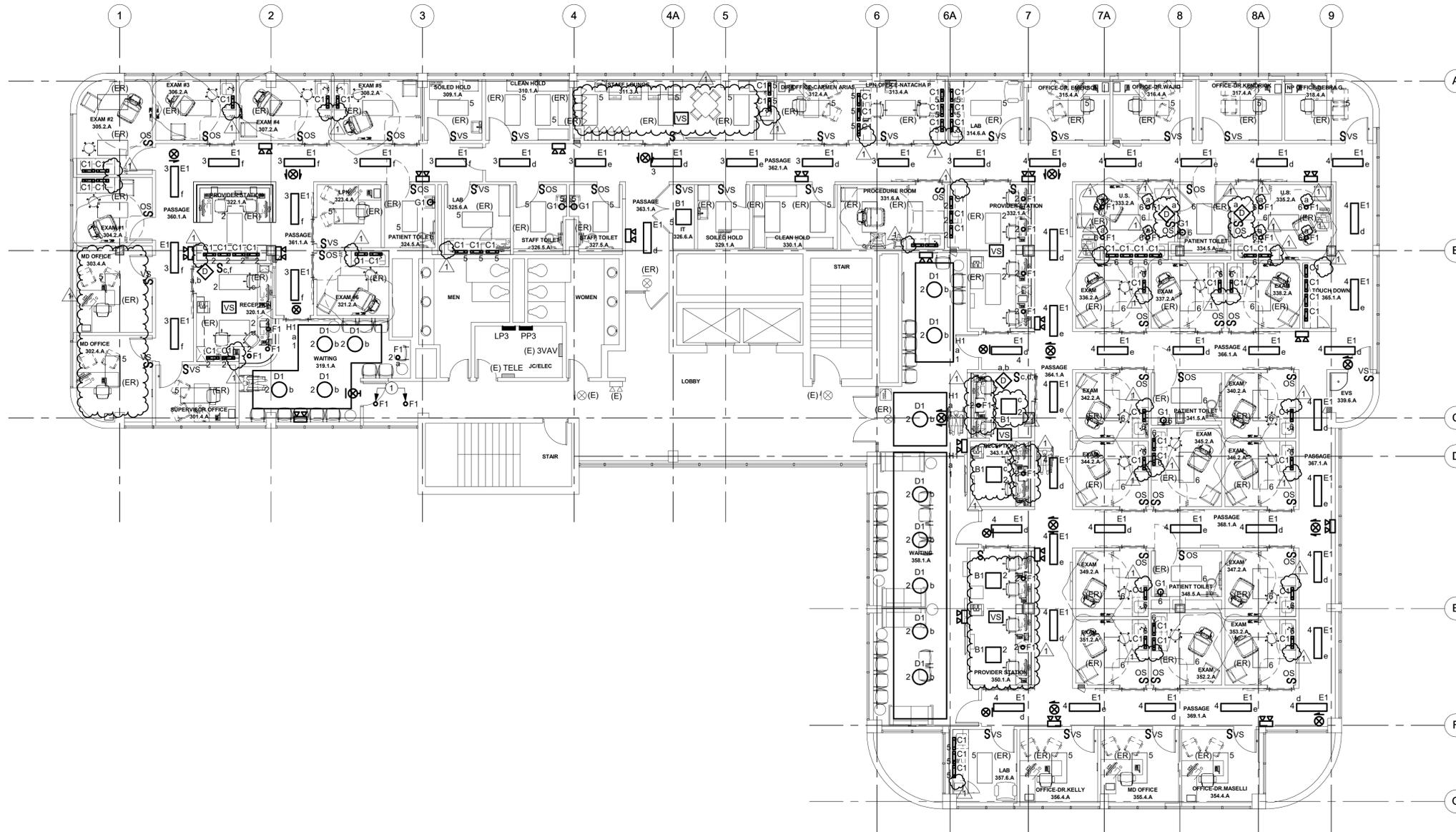


## GENERAL NOTES

- ALL LIGHTING ON THIS FLOOR SHALL BE CIRCUITED TO NEW PANEL "LP3" UNLESS OTHERWISE NOTED.
- EMERGENCY LIGHTING UNITS (ELU'S) AND EXIT SIGNS SHALL BE CONNECTED TO THE LIGHTING CIRCUIT SERVING THAT AREA AHEAD OF ANY CONTROLS.
- 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.
- 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.
- 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.
- 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 PLANS.
- UNDERCABINET LIGHTING ELECTRICAL CONNECTIONS ARE TO BE HIDDEN FROM VIEW.

## DRAWING NOTES

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



**1** THIRD FLOOR LIGHTING PLAN  
E2.0 1/8" = 1'-0"

## ARCHITECT

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DRAWING TITLE:  
**THIRD FLOOR  
LIGHTING PLAN**

PROJECT NUMBER  
**21035a**

CON #  
PENDING

DATE  
**03/07/2022**

SCALE  
AS NOTED

DRAWING NUMBER

# E2.0

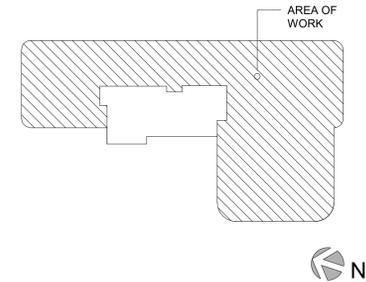
# Montefiore

MONTEFIORE  
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160 NORTH MIDLAND AVENUE  
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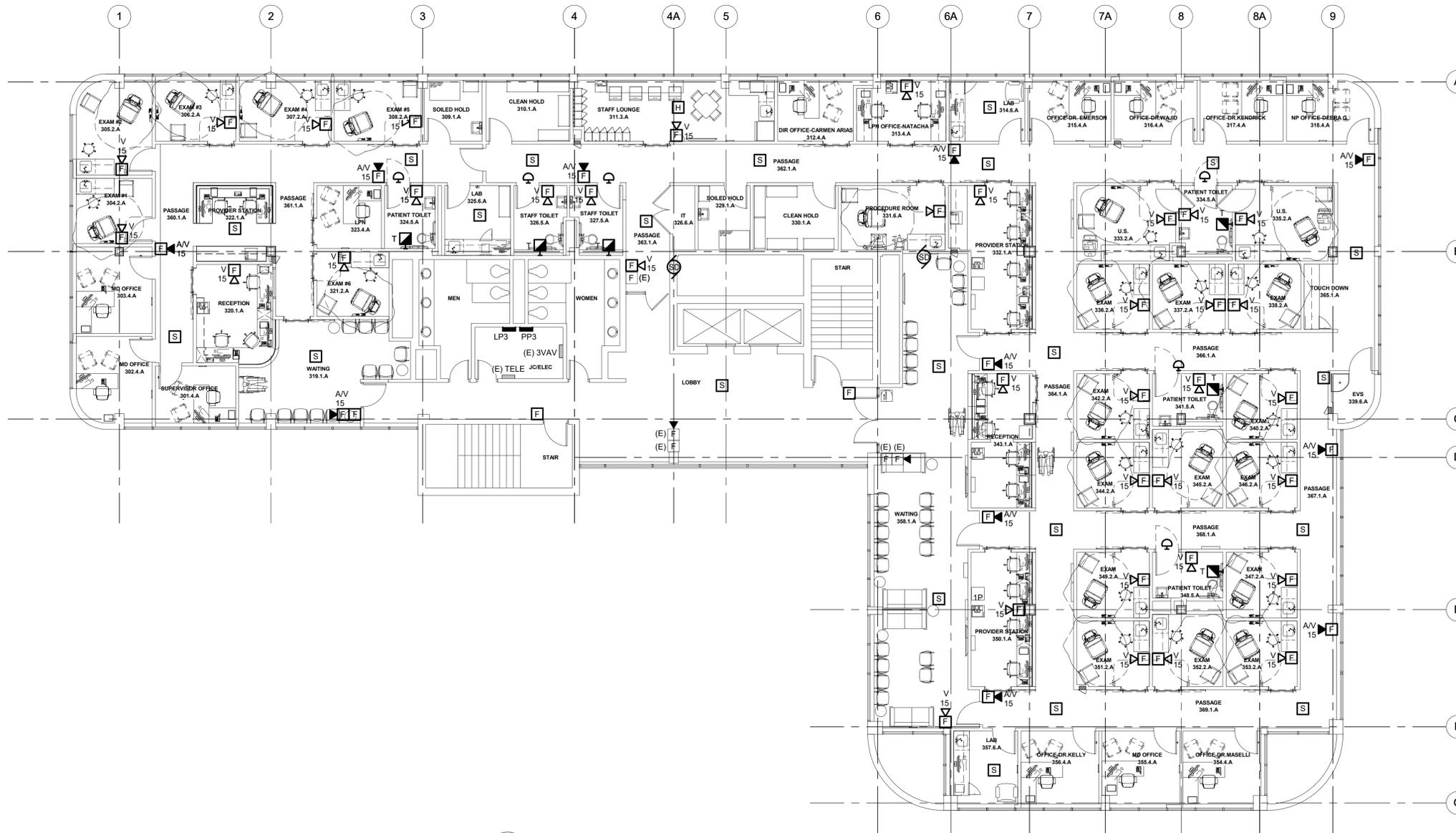
OUTPATIENT CLINIC  
THIRD FLOOR  
17 SQUADRON BLVD  
NEW CITY, NY 10956

KEY PLAN: NOT TO SCALE



## GENERAL NOTES

- ALL DEVICE MOUNTING HEIGHTS ARE TO BE COORDINATED WITH ARCHITECTURAL ELEVATIONS.
- 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.
- COORDINATE EXACT LOCATIONS OF CALL FOR AID DEVICES WITH OWNER'S REPRESENTATIVE IN THE FIELD PRIOR TO ROUGH-IN.
- PROVIDE ALL EQUIPMENT, PROGRAMMING AND WIRING REQUIRED FOR A CODE COMPLIANT SYSTEM.
- VISUAL FIRE ALARM APPLIANCES WITHIN ROOM OR FIELD OF VIEW SHALL BE SYNCHRONIZED.
- CEILING MOUNTED SMOKE DETECTORS SHALL NOT BE LOCATED CLOSER THAN 3 FT. FROM ANY AIR SUPPLY DIFFUSERS.
- ALL STROBE LIGHTS SHALL MEET A.D.A. (AMERICANS WITH DISABILITY ACT) AND NFPA 72 REQUIREMENTS.



1 THIRD FLOOR FIRE ALARM & NURSE CALL PLAN  
E3.0 1/8" = 1'-0"

ARCHITECT

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STRUCTURAL ENGINEER

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DRAWING TITLE:  
**THIRD FLOOR FIRE ALARM & NURSE CALL PLAN**

PROJECT NUMBER  
**21035a**

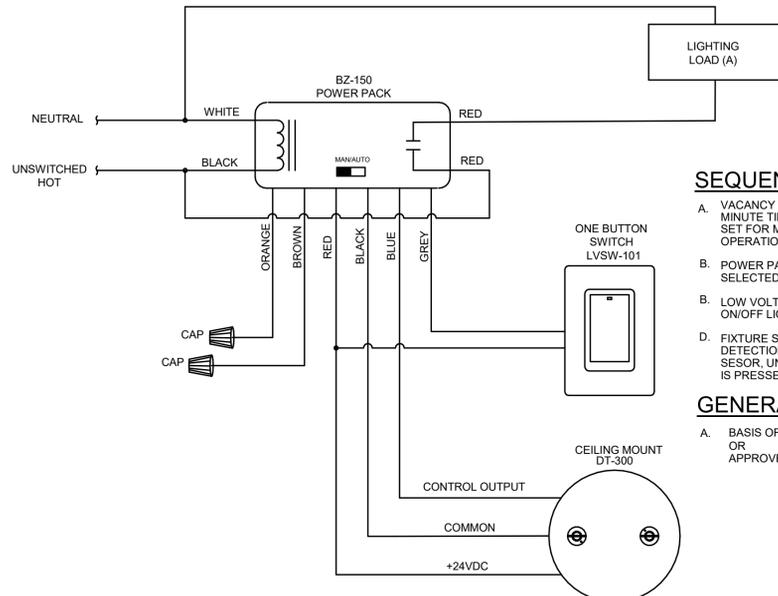
CON #  
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DATE  
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SCALE  
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DRAWING NUMBER

# E3.0



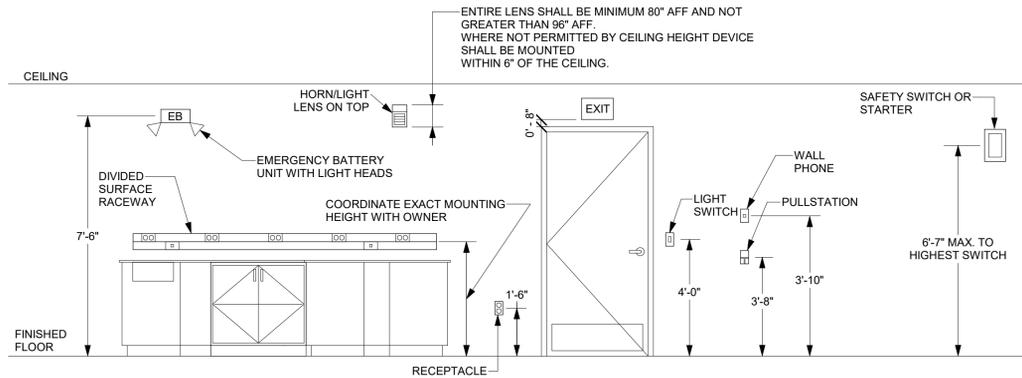
**SEQUENCE OF OPERATION:**

- A. VACANCY SENSOR SHALL BE SET TO 20 MINUTE TIME DELAY. SENSOR SHALL BE SET FOR MANUAL ON / AUTOMATIC OFF OPERATION.
- B. POWER PACK DIP SWITCH SHALL BE SELECTED TO MANUAL
- C. LOW VOLTAGE SWITCH SHALL TOGGLE ON/OFF LIGHTING FIXTURES.
- D. FIXTURE SHALL NOT TURN ON WITH DETECTION OF ACTIVITY BY VACANCY SENSOR, UNLESS LOW VOLTAGE SWITCH IS PRESSED.

**GENERAL NOTES:**

- A. BASIS OF DESIGN: WATTSTOPPER OR APPROVED EQUAL.

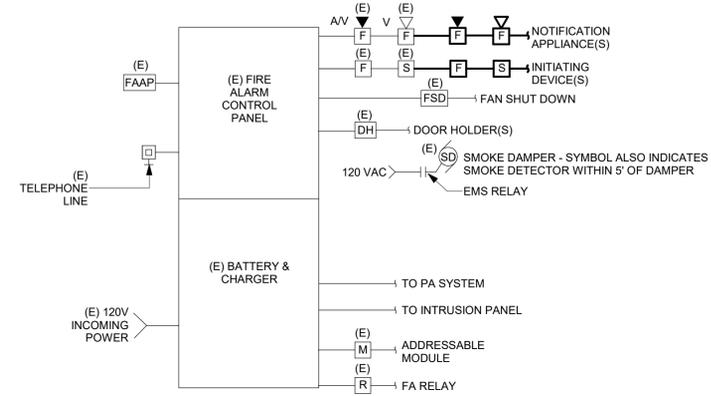
**3** TYPICAL ANALOG VACANCY SENSOR WITH POWER PACK & LOW VOLTAGE SWITCH FOR MANUAL ON/AUTOMATIC OPERATION  
E5.0 NTS



**DETAIL NOTES:**

- 1. 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 COURSING.
- 2. THE ABOVE MOUNTING HEIGHTS SHALL BE ADHERED TO UNLESS SPECIFICALLY NOTED OR DETAILED OTHERWISE ON THE DRAWINGS.

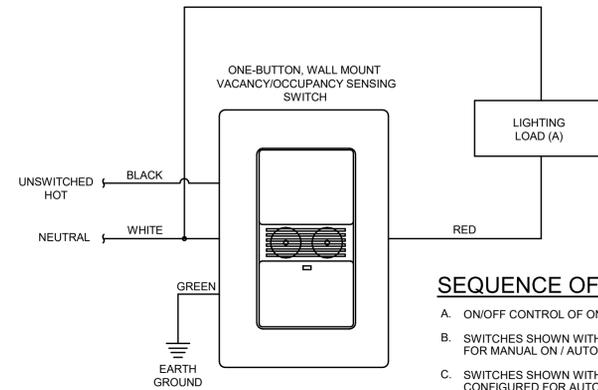
**4** TYPICAL EQUIPMENT AND WIRING DEVICES MOUNTING HEIGHTS  
E5.0 NTS



**DETAIL GENERAL NOTES:**

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

**1** FIRE ALARM SYSTEM RISER DIAGRAM  
E5.0 NTS



**SEQUENCE OF OPERATION:**

- A. ON/OFF CONTROL OF ONE ZONE.
- B. SWITCHES SHOWN WITH "VS" SHALL BE CONFIGURED FOR MANUAL ON / AUTOMATIC OFF OPERATION.
- C. SWITCHES SHOWN WITH "OS" SHALL BE CONFIGURED FOR AUTOMATIC ON/OFF.
- D. WHEN NO ACTIVITY IS DETECTED FOR 20 MINUTES LIGHTS SHALL TURN OFF.

**GENERAL NOTES:**

- A. BASIS OF DESIGN: WATTSTOPPER: DSW-100

**2** TYPICAL ANALOG WALL MOUNT VACANCY/OCCUPANCY SENSOR DETAIL  
E5.0 NTS

LUMINAIRE SCHEDULE							
TYPE	DESCRIPTION	MFR. & CATALOG No.	LAMP	VOLTAGE/BALLAS	MOUNTING	UNIT WATTS	REFERENCE NOTES
A1	2X4 RECESSED TROFFER	SAYLITE UC PF SERIES LOW PROFILE CENTER BASKET X1LED	T8 LED 3500K 4500 LUMEN	120V	RECESSED	36	1,3
B1	2X2 RECESSED TROFFER	SAYLITE UC PF SERIES LOW PROFILE CENTER BASKET X1LED	T8 LED 3500K 3750 LUMEN	120V	RECESSED	30	1,3
C1	19" UNDERCABINET WITH INTEGRAL OCCUPANCY SENSOR AND LINKED INPUT POWER AND ROCKER SWITCH TO CONTROL FIXTURES IN LINKED CIRCUIT	PHILIPS DAY-BRITE LINC'S 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 UC PF 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
LED EXIT SIGN WITH RED LETTERING AND 90 MINUTE BATTERY BACKUP		LITHONIA LE-NY	LED	120V	CEILING/SURFACE		1

**REFERENCE NOTES:**

- 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)

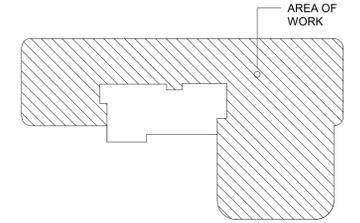
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17 SQUADRON BLVD  
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KEY PLAN: NOT TO SCALE



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**ELECTRICAL DETAILS & SCHEDULES**

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

**E5.0**

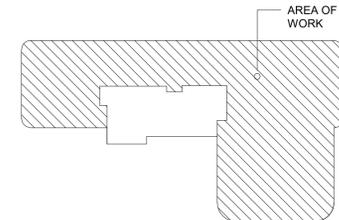
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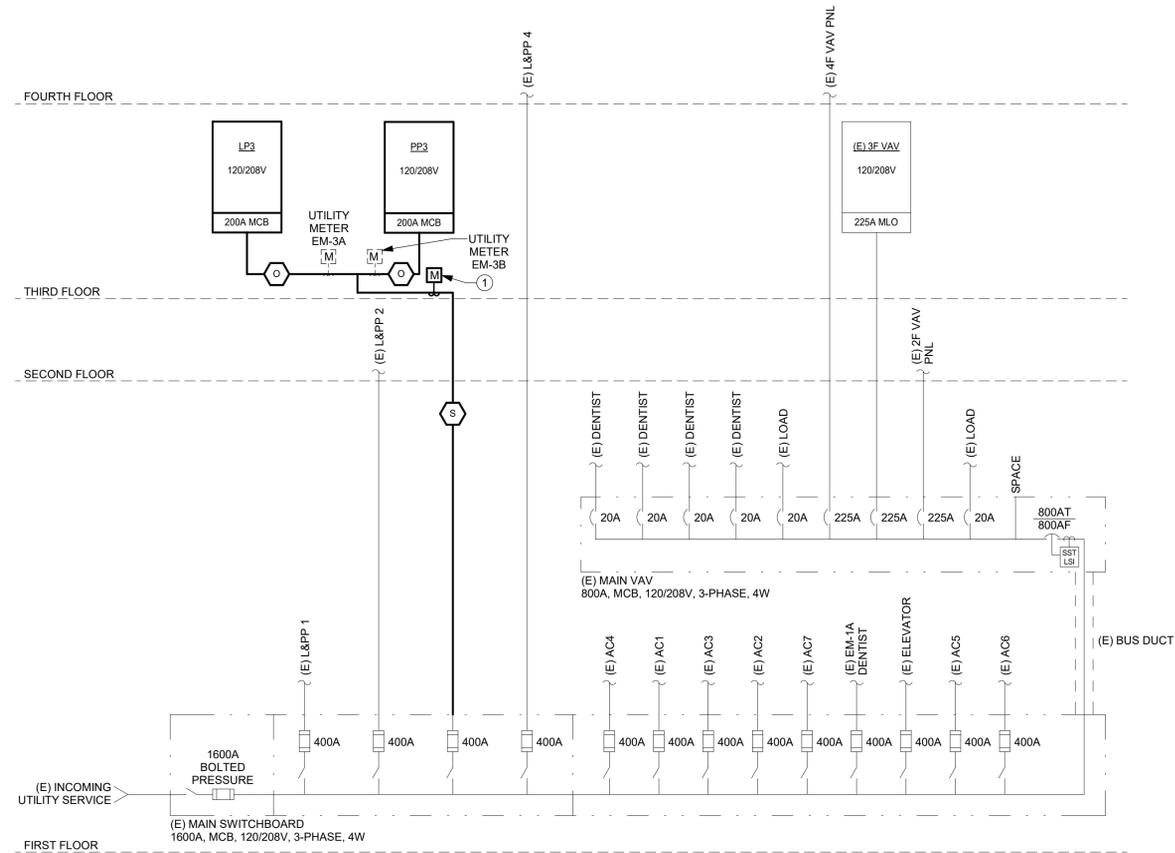
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COPPER FEEDER SIZE SCHEDULE (600V)										
OCPD RATING	3-WIRE FEEDER WITH EQUIPMENT GROUNDING CONDUCTOR					4-WIRE FEEDER WITH EQUIPMENT GROUNDING CONDUCTOR				
	IDENT.	NUMBER OF SETS	WIRE SIZE	EGC	EMT CONDUIT	IDENT.	NUMBER OF SETS	WIRE SIZE	EGC	EMT CONDUIT
20	A1	1	12	12	3/4"	A	1	12	12	1/2"
25,30	B1	1	10	10	3/4"	B	1	10	10	1/2"
35,40	C1	1	8	10	3/4"	C	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"	E	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"	H	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"	M	1	2/0	6	2"
200	N1	1	3/0	6	2"	N	1	3/0	6	2"
225	O1	1	4/0	4	2"	O	1	4/0	4	2 1/2"
250	P1	1	4/0	4	2"	P	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"	T	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"	X	2	600	1/0	3 1/2"
1000	Y1	3	400	2/0	2 1/2"	Y	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"

- NOTES**
- 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 OCPD.  
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 TCP/IP. DESIGN MAKE IS SHARK OR APPROVED EQUAL WITH THE FOLLOWING PARAMETERS:  
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.

**2** ELECTRICAL ONE-LINE DIAGRAM  
E6.0 NTS



**ISSUED DOCUMENTS:**

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1	03/07/2022	BID ISSUE - MEP
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DRAWING TITLE:  
**ELECTRICAL ONE-LINE DIAGRAM**

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

**E6.0**



PLUMBING FIXTURE CONNECTION SCHEDULE								
SEE PLUMBING SPECIFICATIONS FOR COMPLETE FIXTURE INFORMATION								
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 STANDARD 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 STANDARD 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 FLOWWELL ENAMELED CAST IRON, CORNER MODEL WITH REMOVABLE RIM GUARD, UTILITY FAUCET WITH VACUUM BREAKER AND MOP BUCKET BRACKET

EXPANSION TANK SCHEDULE						
TAG NO.	LOCATION	SERVICE	MAXIMUM 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
EW-1	EVS 339.6.A	24	30	98	AOSMITH DSE-30-24	

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

PLUMBING GENERAL NOTES	
#	Note
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.
C	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 CAUSED BY WORK OF THIS CONTRACTOR. LEGALLY DISPOSE ALL MATERIALS TO A LOCATION OFF SITE.
E	COORDINATE AND SCHEDULE WORK AND SHUTDOWNS WITH THE OWNER AND OTHER TRADES PRIOR TO DEMOLITION.
F	ALL EXISTING PIPING TO REMAIN SHALL BE RECONNECTED TO ACTIVE SERVICE PIPING.
G	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 OTHERWISE NOTED.
H	ALL PIPING TO BE REMOVED AND IN A WALL TO REMAIN MAY BE ABANDONED IN PLACE UNLESS NOTED.
I	PATCH HOLES IN EXISTING CONSTRUCTION LEFT BY THE REMOVAL OF PIPING OR EQUIPMENT WITH MATERIALS TO MATCH EXISTING CONSTRUCTION. MAINTAIN FIRE SMOKE RATING.
J	DEMOLITION SHALL INCLUDE, BUT NOT LIMITED TO: PIPING, VALVES, FIXTURES, EQUIPMENT, HANGERS, SUPPORTS AND INSULATION, EXCEPT ASBESTOS.
K	REMOVE EXISTING CONSTRUCTION IN THE WAY OF NEW WORK. PROTECT BUILDINGS AND FURNISHINGS FROM DAMAGE.
L	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.
N	MAINTAIN SERVICE CLEARANCES OF ALL EQUIPMENT. ADVISE OTHER TRADES OF REQUIRED CLEARANCES.
O	PROVIDED FOR THE DRAINAGE AND REFILLING OF PIPING SYSTEMS, INCLUDING AIR REMOVAL, RESETTING OF FLUSH VALVES, FLUSHING SYSTEMS OF DIRT AND SCALE CAUSED BY SHUTDOWNS AND STARTUPS.
P	REFER TO EQUIPMENT/FIXTURE SCHEDULE FOR FINAL CONNECTION SIZES.
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.
S	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.
T	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.

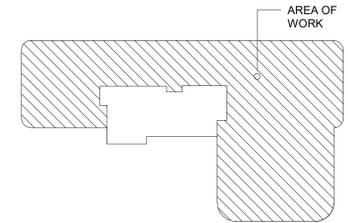
# Montefiore

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KEY PLAN: NOT TO SCALE



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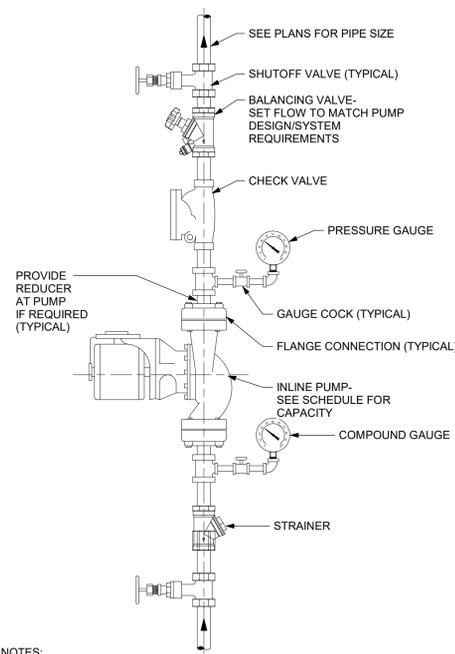
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DRAWING TITLE:  
**PLUMBING SYMBOLS, NOTES AND SCHEDULES**

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

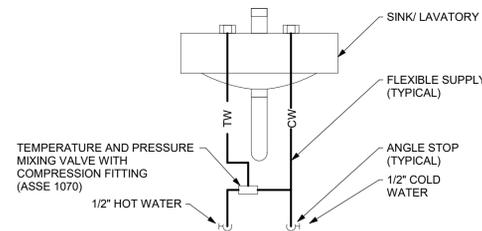
# P0.0



- DETAIL NOTES:
- PRESSURE GAUGES - SELECT GAUGE RANGE TO PLACE MAXIMUM SYSTEM OPERATING PRESSURE IN MIDDLE THIRD OF RANGE.
  - 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.
  - INSTALL CHECK VALVE HORIZONTALLY OR VERTICALLY WITH FLOW UPWARD.

## 4 INLINE PUMP DETAIL

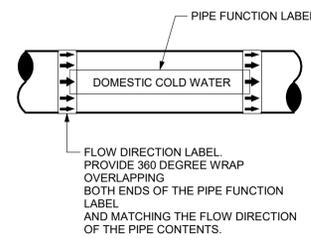
P0.0 NTS



- DETAIL NOTE:
- PROVIDE A MIXING VALVE FOR EACH HAND SINK AND LAVATORY.
  - MIXING VALVE SHALL BE ADJUSTED TO DELIVER TEMPERED WATER AT 105°F.

## 2 POINT OF USE MIXING VALVE DETAIL

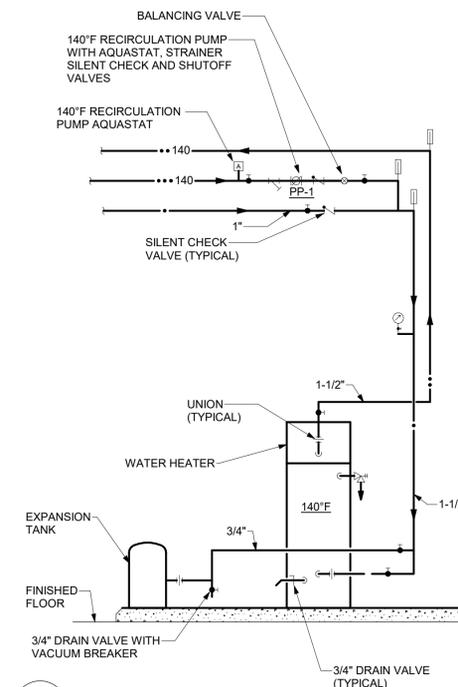
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- DETAIL NOTES:
- PROVIDE A PIPE LABEL FOR EACH PIPE FUNCTION.
  - PROVIDE AT LEAST ONE LABEL ON EACH PIPE FOR EVERY ROOM THE PIPE PASSES THROUGH.
  - PROVIDE LABELS IN LARGE SPACES ON MAXIMUM 20'-0" CENTERS FOR EVERY PIPE UNLESS OTHERWISE NOTED IN 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.

## 3 PIPING IDENTIFICATION LABEL DETAIL

P0.0 NTS



- DETAIL NOTES:
- PROVIDE PROPER SUPPORTS FOR MIXING VALVE, PUMPS AND PIPING.
  - LOCATE PIPING TO ALLOW FOR REMOVAL OF WATER HEATERS.
  - EXPANSION TANK TO BE AMTROL MODEL ST-X-C, OR APPROVED EQUAL. CHARGE TANK TO WATER SYSTEM STATIC PRESSURE PRIOR TO INSTALLATION.
  - TERMINATE T&P RELIEF VALVE DRAIN PIPING AT 6" ABOVE FLOOR DRAIN.
  - BALANCE SYSTEM TO PROVIDE PROPER FLOW THROUGH WATER HEATERS.
  - RECIRCULATION PUMP AQUASTAT TO BE SIMILAR TO JOHNSON CONTROLS MODEL A19ABC-39 WITH TEMPERATURE RANGE OF 40°-180°F OR EQUIVALENT HONEYWELL.
  - CALIBRATE BALANCING VALVE IN PUMP DISCHARGE PIPING TO MATCH PUMP FLOW RATE.
  - FLUE PIPING SHALL BE CPVC SCHEDULE 80 PIPE AND FITTINGS WITH SOLVENT CEMENT JOINTS.
  - REFER TO SPECIFICATIONS AND PUMP SCHEDULE FOR ADDITIONAL INFORMATION REGARDING PUMP.
  - COORDINATE EQUIPMENT ELECTRICAL CONNECTION REQUIREMENTS WITH DIVISION 26/SECTION 16.

## 1 WATER HEATER SCHEMATIC

P0.0 NTS



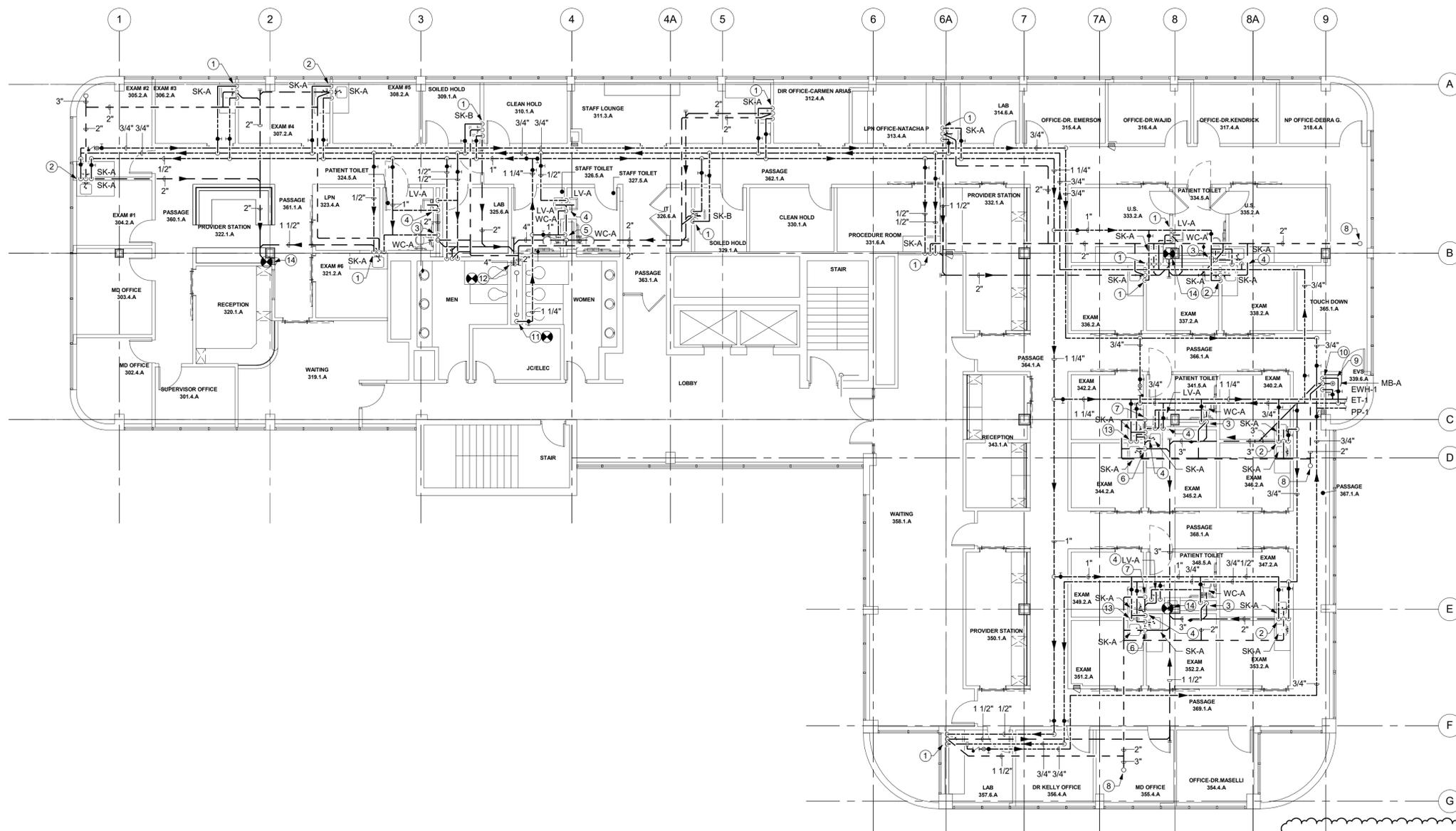
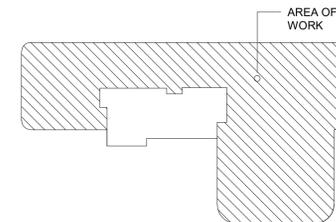
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### P1.0 DRAWING NOTES

- 1 1-1/2" SANITARY DOWN, 1-1/2" VENT RISE, 1/2" HOT AND COLD DROP TO FAUCET
- 2 2" SANITARY DOWN, 2" VENT RISE, 1/2" HOT AND COLD DROP TO EACH FAUCET
- 3 3" SANITARY DOWN, 2" VENT RISE, 1" COLD WATER DROP
- 4 2" SANITARY IN WALL, 1/2" HOT AND COLD DROP TO FAUCET
- 5 4" SANITARY DOWN, 2" VENT RISE, 1" COLD WATER DROP
- 6 2" SANITARY DOWN, 2" VENT RISE
- 7 2" SANITARY DROP IN WALL, 2" VENT RISE
- 8 3" VENT RISE, 3" VENT THROUGH ROOF
- 9 3" SANITARY WITH P-TRAP DOWN
- 10 2" VENT RISE
- 11 1-1/4" COLD WATER CONNECT TO EXISTING RISER, PROVIDE NEW CONTROL VALVE
- 12 4" SANITARY AND 2" VENT, CONNECT TO EXISTING RISERS IN CHASE
- 13 2" SANITARY IN WALL, 1/2" HOT AND COLD DROP TO EACH FAUCET
- 14 3" SANITARY DOWN TO FIRST FLOOR/BASEMENT AT COLUMN, COORDINATE LOCATION OF UNDER-FLOOR SANITARY AND DROP DOWN TO LOWER LEVELS WITH EXISTING WALL LAYOUT AND EXISTING UTILITIES.

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### STRUCTURAL ENGINEER

### ISSUED DOCUMENTS:

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### DRAWING TITLE:

**THIRD FLOOR  
PLUMBING PLAN**

PROJECT NUMBER <b>21035a</b>	CON # PENDING
DATE <b>03/07/2022</b>	SCALE AS NOTED
DRAWING NUMBER <b>P1.0</b>	

1 THIRD FLOOR - NEW WORK  
P1.0 1/8" = 1'-0"

**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
A	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, APPARATUS AND EQUIPMENT FOR THIS PROJECT, AS SHOWN ON THESE DRAWINGS, AND INCLUDED IN THE PROJECT SPECIFICATIONS.
B	THIS PROJECT IS "DESIGN BUILD". THESE DRAWINGS AND SPECIFICATIONS ARE INTENDED TO INDICATE MINIMUM WORK AND MINIMUM STANDARDS FOR EQUIPMENT, MATERIALS AND PROCEDURES.
C	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.
D	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.
E	THE SPRINKLER CONTRACTOR SHALL PERFORM A NEW HYDRANT FLOW TEST AND SHALL BASE THE HYDRAULIC CALCULATIONS ON THESE RESULTS.
F	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.
G	ALL SPRINKLER SYSTEM PIPING IS TO BE CONCEALED ABOVE CEILINGS UNLESS OTHERWISE NOTED.
H	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.
I	WHERE SPRINKLER PIPING IS TO BE LEFT EXPOSED, THE SPRINKLER CONTRACTOR CLEAN PIPING AND MAKE READY FOR PAINTING.
J	THE SPRINKLER CONTRACTOR SHALL PROVIDE SPRINKLER PROTECTION UNDER ALL MECHANICAL DUCTWORK OR OTHER OBSTRUCTION IN EXCESS OF 4" IN WIDTH, IN EXPOSED STRUCTURE AREAS, IN ACCORDANCE WITH NFPA 13 2015 ED.
K	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.
L	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.
M	THE SPRINKLER CONTRACTOR SHALL DELIVER MATERIAL TO THE JOB, UNLOAD AND STORE MATERIALS IN A LOCATION AS DETERMINED BY THE OWNERS REPRESENTATIVE.
N	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.
O	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.
P	THE CONTRACTOR SHALL INSTALL A SINGLE AIR VENT WITH A MINIMUM 1/2" CONNECTION, AUTOMATIC, LOCATED NEAR THE FURETHEST HIGH POINT OF THE SYSTEM.

**FIRE PROTECTION SYMBOL LIST**

SYMBOL	DESCRIPTION
---	EXISTING WORK TO BE REMOVED
⊕	POINT OF CONNECTION
⊗	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)
D	SPRINKLER DRAIN PIPING (D)
---	ELBOW DOWN
---	45° OFFSET
---	ELBOW UP
---	BOTTOM TEE CONNECTION
---	TOP TEE CONNECTION
---	PIPE CONTINUATION
---	FLUSHING CONNECTION
○	STANDARD SPRAY QUICK RESPONSE UPRIGHT SPRINKLER
⊙	SEMI RECESSED PENDENT SPRINKLER HEAD
⊖	DRAIN VALVE
⊕	CHECK VALVE
⊖	RELIEF VALVE
⊖	BACKFLOW PREVENTER (BFP)
⊖	SHUT-OFF VALVE WITH TAMPER SWITCH (TS)
⊖	ALARM CHECK VALVE WITH TRIM (ACV)
⊖	WATER MOTOR GONG
⊖	FIRE DEPARTMENT CONNECTION (FDC)

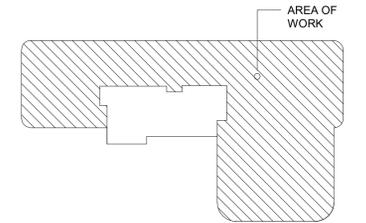
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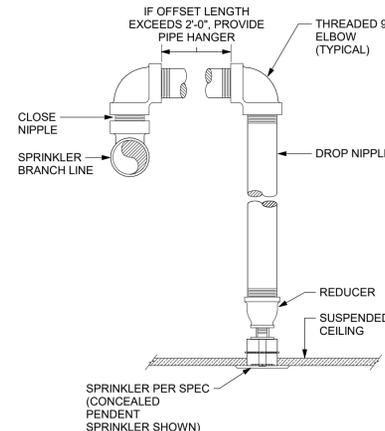
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**DRAWING TITLE:**  
**FIRE SPRINKLER SYMBOLS, NOTES AND SCHEDULES**

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DATE <b>03/07/2022</b>	SCALE AS NOTED
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**1** RETURN BEND DETAIL  
FP0.0 NTS



