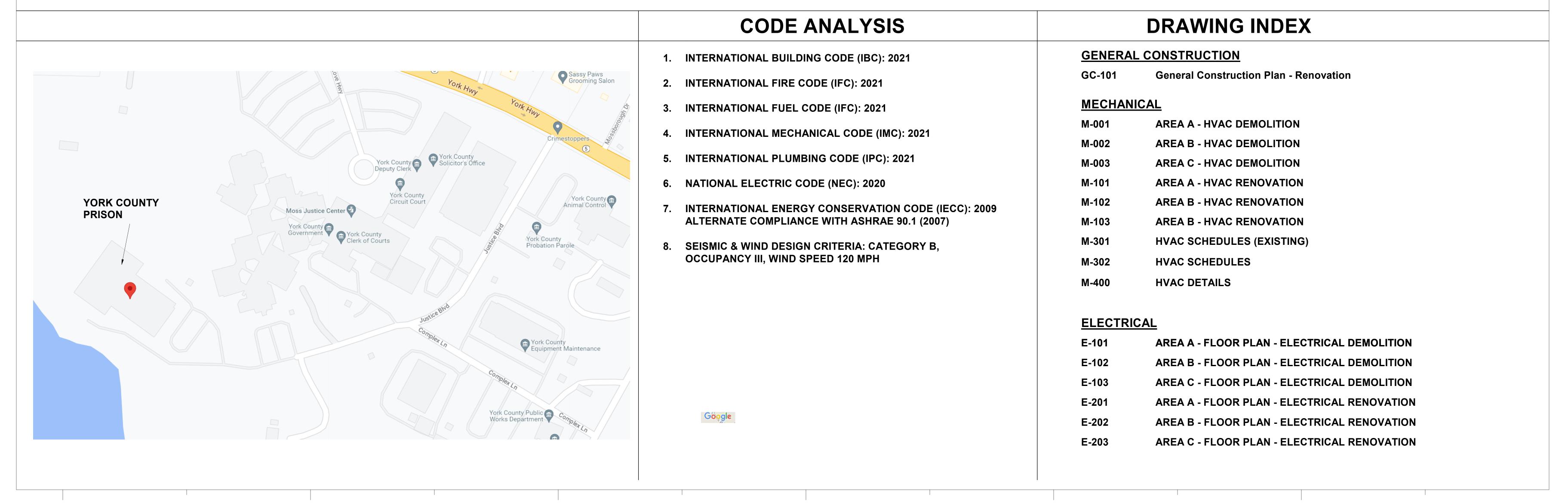
YORK COUNTY PRISON HVAC RENOVATIONS 778 JUSTICE BOULEVARD YORK, SOUTH CAROLINA 29745 AUGUST 18, 2023

MECHANICAL - ELECTRICAL - PLUMBING

BUFORD GOFF & ASSOCIATES, INC.

1331 ELMWOOD AVENUE, SUITE 200 COLUMBIA, SOUTH CAROLINA 29201 TEL: (803) 254-6302 FAX: (803) 771-6142



Principal in Charge: DEI JEB/DEF

Project Engineer: JEB LAM

Revisions:

No. Date Description

Drawn By: JEB

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YORK COUNTY PRISON HVAC RENOVATIONS

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Sheet Number:

CS

1 1 AREA A - GENERAL CONSTRUCTION PLAN

1/8" = 1'-0" — SLOPE AWAY FROM BUILDING

6" ALL AROUND \

3" CLR. TYP — MECHANICAL EQUIPMENT

1'-0" 1'-6"

 EXTEND THE TOE FOOTING DEPTH TO ENSURE LEVEL PAD AND EQUIPMENT AND ADJUST FOR GRADES.

EQUIPMENT PAD DETAIL

NOT TO SCALE

COMPACTED SUBGRADE. REMOVE TOP SOIL AND ANY

ORGANICS. TYPICAL.

— (2) #4 CONT.

GENERAL NOTES:

CONTRACTOR TO FIELD VERIFY EXISTING CONDITIONS PRIOR TO ORDERING EQUIPMENT.

GENERAL CONSTRUCTION KEYNOTES:

EXTEND EXISTING PAD AS REQUIRED FOR NEW UNIT.

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Project Engineer: JEB

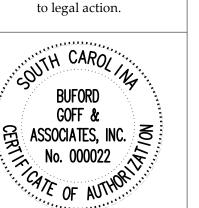
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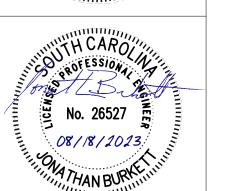
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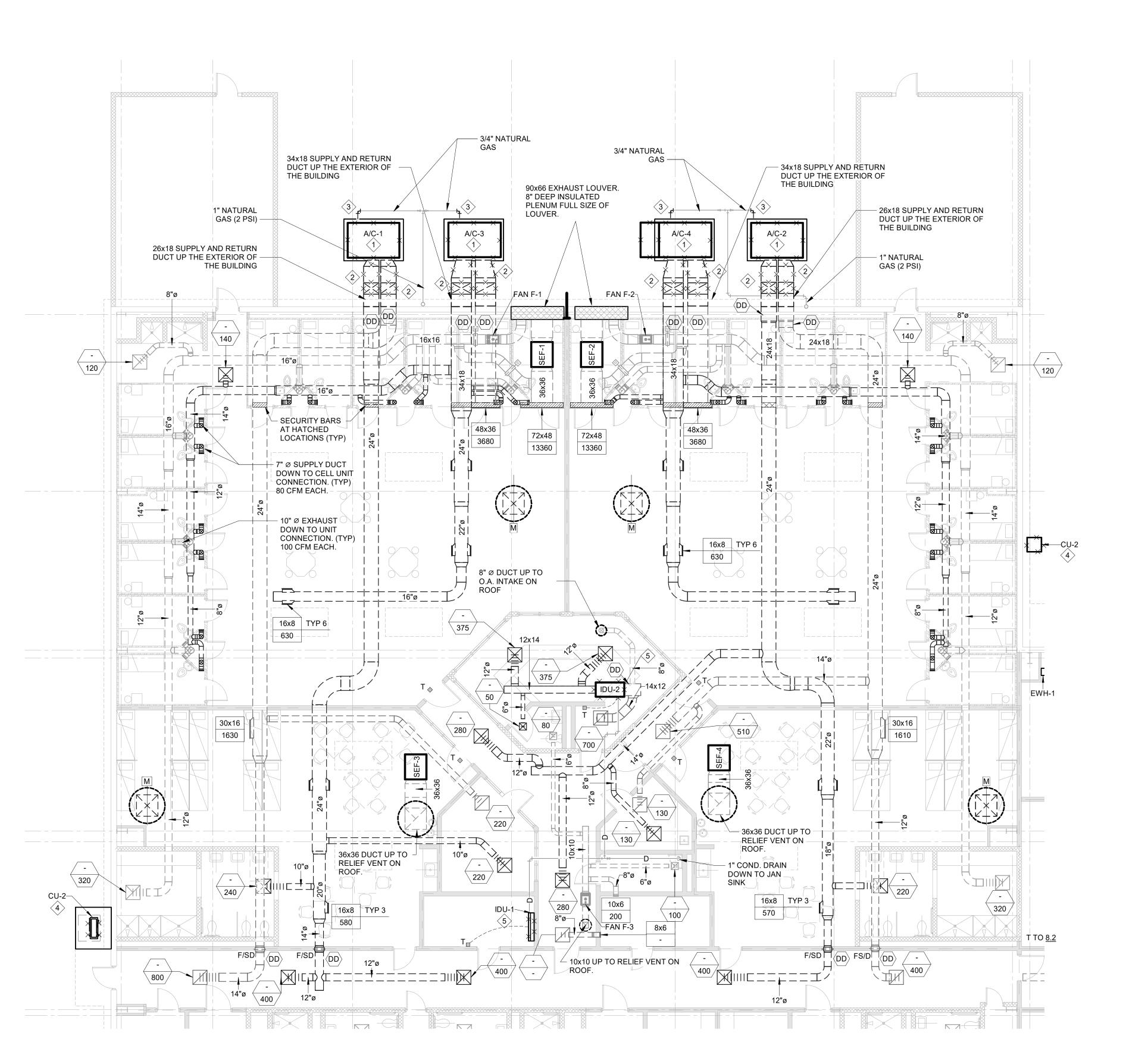
KEY PLAN

AREA C

//AREA A//

AREA B

GC-101



1 AREA A - HVAC DEMOLITION

1/8" = 1'-0"

GENERAL HVAC DEMOLITION NOTES

- 1. DRAWINGS SHOW GENERAL INTENT OF DEMOLITION. QUANTITIES, LOCATIONS, SIZES AND EQUIPMENT ARE SHOWN TO INDICATE TYPE OF SYSTEM INSTALLED AND DOES NOT NECESSARILY REPRESENT EXACT CONDITIONS. CONTRACTOR SHALL FIELD VERIFY BEFORE BIDDING.
- 2. DEMOLITION OF EQUIPMENT, SYSTEMS, AND COMPONENTS SHALL INCLUDE ALL SUPPORTS, PADS, HANGERS, INSULATION, CONTROLS, STARTERS, ACCESSORIES, AND APPURTENANCES NOT REQUIRED FOR THE INSTALLATION OF THE NEW SYSTEM.
- 3. PATCHING OF BUILDING STRUCTURES AND FINISHES SHALL PERTAIN TO ALL WALLS, FLOORS, SLABS, ROOFS, STRUCTURES, AND FINISHES. PATCHES SHALL MATCH EXISTING STRUCTURE, FIRE RATING AND FINISH.
- 4. ALL OPENINGS CREATED BY THE ABANDONMENT OR REMOVAL OF EXISTING SYSTEMS SHALL BE PATCHED.
- 5. ALL WALL, ROOFS, SLABS, STRUCTURES AND FINISHES WHOSE FINISH IS IRREGULAR DUE TO THE REMOVAL OF SYSTEMS, SUPPORTS, PADS, ACCESSORIES AND APPURTENANCES SHALL BE PATCHED.
- 6. ALL FINISHES SHALL MATCH EXISTING FINISH. WHEN FINISH OBVIOUSLY DOES NOT MATCH EXISTING FINISH SUCH AS SHADE OF PAINT, AGE OF FINISH, ETC., THE FINISH SHALL BE APPLIED TO THE PATCH AND THE SURFACE IN ALL DIRECTIONS UNTIL A SURFACE CHANGE OF A MINIMUM 45 DEGREE.
- 7. REMOVAL OF SYSTEMS SHALL INCLUDE COMPLETE SYSTEM WHENEVER PRACTICAL. IF NOT, SYSTEM (PIPE, CONDUIT, ETC.) SHALL BE REMOVED TO 1 INCH BELOW SURFACE.

HVAC DEMOLITION KEYNOTES

- . DEMOLISH EXISTING GRADE MOUNTED GAS PACK UNITS.
- DEMOLISH DUCTWORK BACK TO BUILDING.
- 3. DEMOLISH GAS PIPING BACK PAST THE EXISTING REGULATOR.
- 4. DEMOLISH EXISTING CONDENSING UNIT AND ASSOCIATED REFRIGERANT PIPING BACK TO INDOOR UNIT.
- DEMOLISH INDOOR AHU AND DUCTWORK AS REQUIRED FOR NEW UNIT.

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Principal in Charge: DER

Project Engineer: JEB

Drawn By: JEB

Revisions:

No. Date Description



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YORK COUNTY PRISON HVAC RENOVATIONS

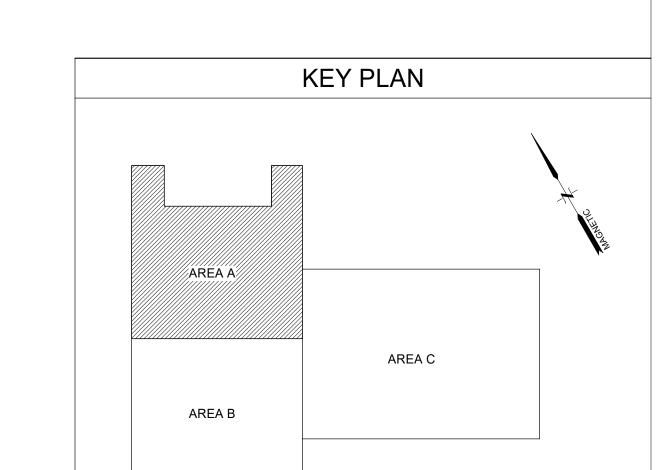
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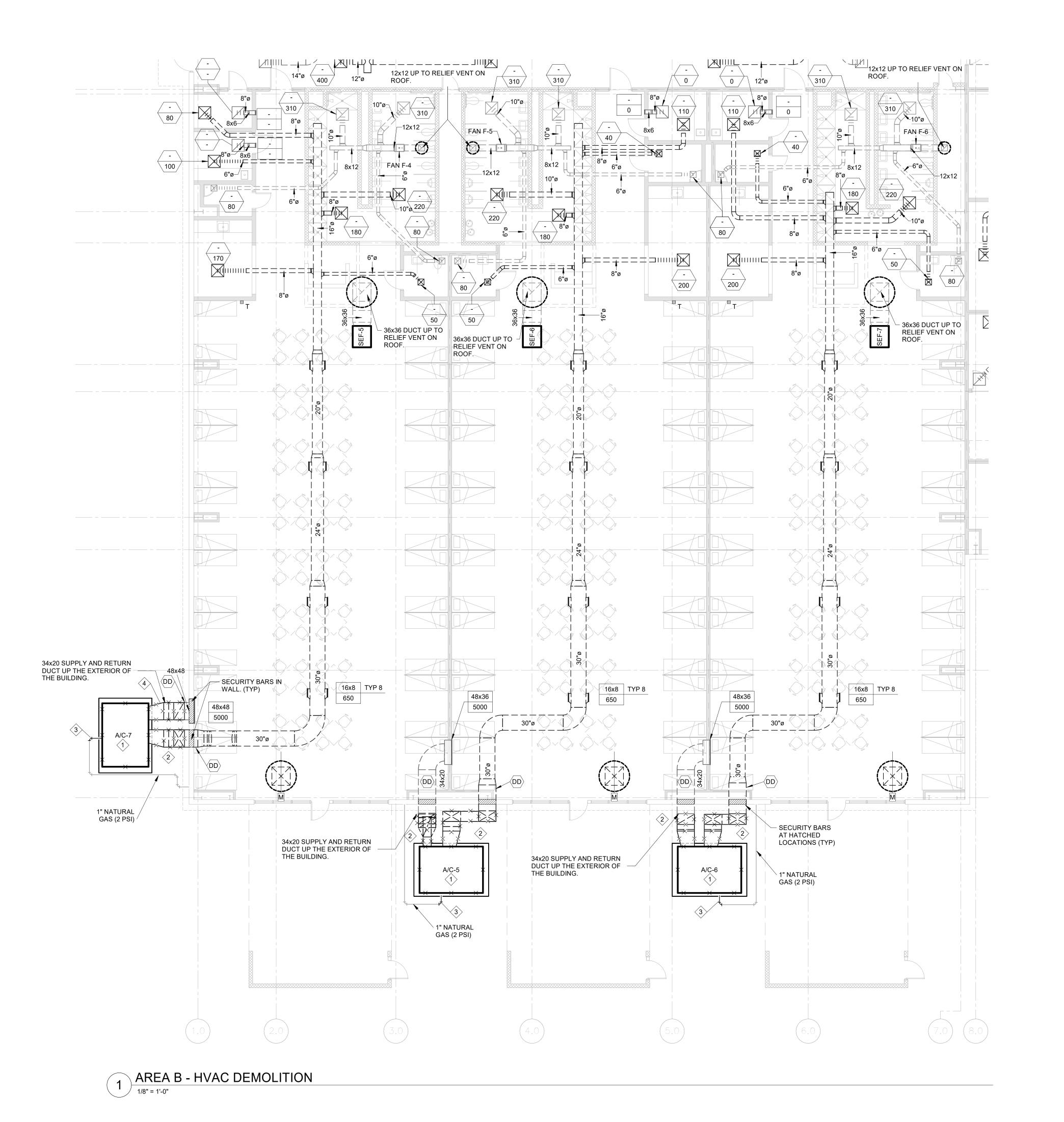
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GENERAL HVAC DEMOLITION NOTES

- 1. DRAWINGS SHOW GENERAL INTENT OF DEMOLITION. QUANTITIES, LOCATIONS, SIZES AND EQUIPMENT ARE SHOWN TO INDICATE TYPE OF SYSTEM INSTALLED AND DOES NOT NECESSARILY REPRESENT EXACT CONDITIONS. CONTRACTOR SHALL FIELD VERIFY BEFORE BIDDING.
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SHALL MATCH EXISTING STRUCTURE, FIRE RATING AND FINISH.

- 3. PATCHING OF BUILDING STRUCTURES AND FINISHES SHALL PERTAIN TO ALL WALLS, FLOORS, SLABS, ROOFS, STRUCTURES, AND FINISHES. PATCHES
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- REMOVAL OF SYSTEMS SHALL INCLUDE COMPLETE SYSTEM WHENEVER PRACTICAL. IF NOT, SYSTEM (PIPE, CONDUIT, ETC.) SHALL BE REMOVED TO 1 INCH BELOW SURFACE.

HVAC DEMOLITION KEYNOTES

KEY PLAN

AREA C

AREA A

//AREA B//

- DEMOLISH EXISTING GRADE MOUNTED GAS PACK UNITS.
- DEMOLISH DUCTWORK BACK TO BUILDING.
- 3. DEMOLISH GAS PIPING BACK PAST THE EXISTING REGULATOR.
- 4. DEMOLISH DUCTWORK UP TO ELBOW. DO NOT DEMOLISH DUCT DETECTOR.

infringement will be subject to legal action.

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Project Engineer: JEB

Drawn By: JEB

No. Date Description

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YORK COUNTY PRISON HVAC RENOVATIONS

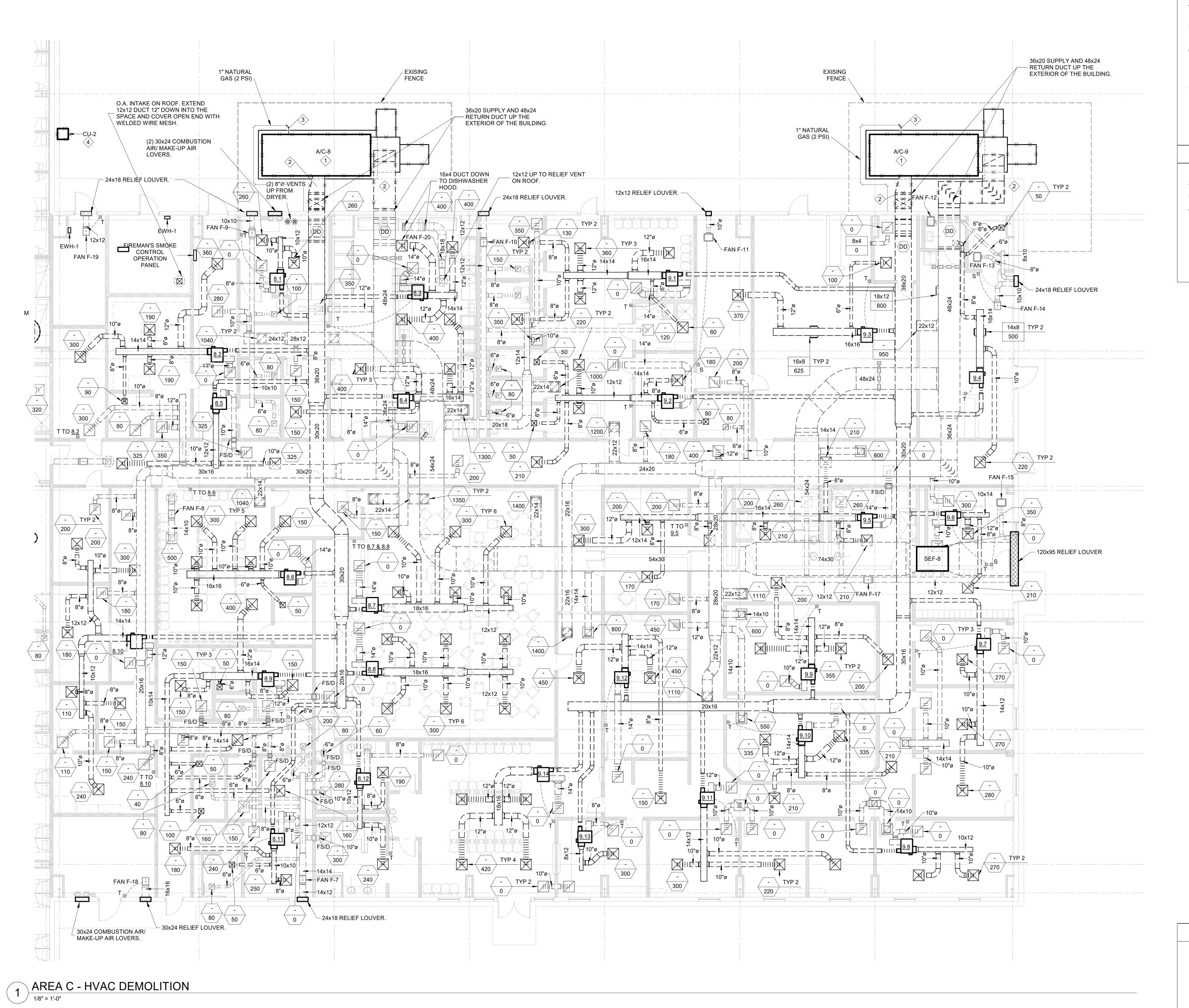
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Sheet Number:

M-002



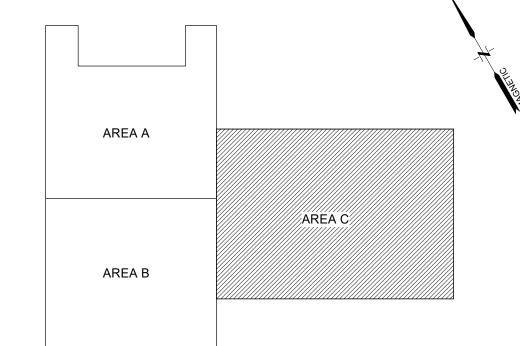
GENERAL HVAC DEMOLITION NOTES

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- PATCHING OF BUILDING STRUCTURES AND FINISHES SHALL PERTAIN TO ALL WALLS, FLOORS, SLABS, ROOFS, STRUCTURES, AND FINISHES. PATCHES SHALL MATCH EXISTING STRUCTURE, FIRE RATING AND FINISH.
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- ALL WALL, ROOFS, SLABS, STRUCTURES AND FINISHES WHOSE FINISH IS IRREGULAR DUE TO THE REMOVAL OF SYSTEMS, SUPPORTS, PADS, ACCESSORIES AND APPURTENANCES SHALL BE PATCHED.
- ALL FINISHES SHALL MATCH EXISTING FINISH. WHEN FINISH OBVIOUSLY DOES NOT MATCH EXISTING FINISH SUCH AS SHADE OF PAINT, AGE OF FINISH, ETC., THE FINISH SHALL BE APPLIED TO THE PATCH AND THE SURFACE IN ALL DIRECTIONS UNTIL A SURFACE CHANGE OF A MINIMUM 45
- REMOVAL OF SYSTEMS SHALL INCLUDE COMPLETE SYSTEM WHENEVER PRACTICAL. IF NOT, SYSTEM (PIPE, CONDUIT, ETC.) SHALL BE REMOVED TO 1 INCH BELOW SURFACE.

HVAC DEMOLITION KEYNOTES

- DEMOLISH EXISTING GRADE MOUNTED GAS PACK UNITS.
- DEMOLISH DUCTWORK BACK TO BUILDING.
- DEMOLISH GAS PIPING BACK PAST THE EXISTING REGULATOR.
- DEMOLISH EXISTING CONDENSING UNIT AND ASSOCIATED REFRIGERANT
- PIPING BACK TO INDOOR UNIT.

KEY PLAN



Principal in Charge: DER

Project Engineer: JEB

Drawn By: JEB Revisions: No. Date Description

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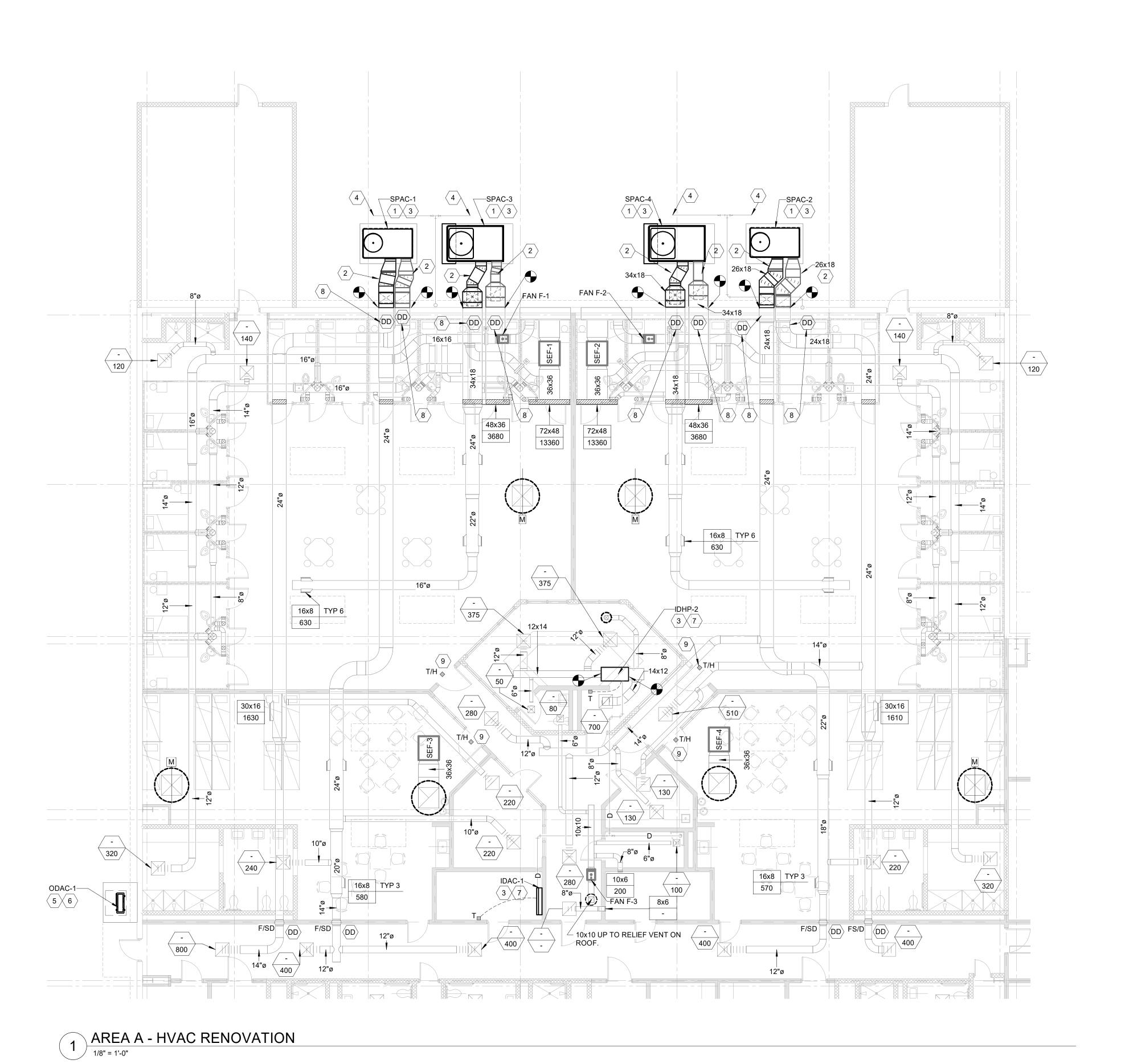


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Sheet Number:

M-003



GENERAL NOTES:

1. CONTRACTOR TO VERIFY EXISTING CONDITIONS PRIOR TO ORDERING EQUIPMENT.

- COORDINATE PLACEMENT OF NEW UNITS AND DUCTWORK WITH EXISTING CONDITIONS.
- . FIELD VERIFY EXISTING DUCT SIZES.
- 4. CONTRACTOR TO REBALANCE THE SYSTEM TO DEISGN CFMS.
- 5. CONTRACTOR TO TEST ALL EXISTING DUCT DETECTORS TO VERIFY THAT THEY ARE FUNCTIONING CORRECTLY.

HVAC KEYNOTES:

- INSTALL NEW PACKAGED UNIT ON EXITING PAD.
- ROUTE DUAL WALL DUCTWORK UP THE EXTERIOR WALL AND CONNECT TO EXISTING OPENING.
- RECONNECT THE NEW CONDENSATE DRAINS TO THE EXISTING DRAIN SYSTEM.
 CONNECT NEW UNIT TO EXISTING GAS LINE. PROVIDE NEW REGULATOR, SHUTOFF VALVE AND GAUGES. SEE DETAIL.
- 5. INSTALL NEW CONDENSING UNIT ON EXISTING PAD.
- ROUTE REFRIGERANT PIPING FROM ASSOCIATED CONDENSING UNIT TO CORRESPONDING INDOOR UNIT. REUSE EXISTING WALL OPENING AND FOLLOW THE SAME ROUTING.
- INSTALL NEW INDOOR UNIT IN THE SAME APPROXIMATE LOCATION AS THE EXISTING UNIT.
- VERIFY EXISTING DUCT DETECTOR IS WORKING PROPERLY. CONTRACTOR SHALL CONNECT NEW EQUIPMENT TO EXISTING DETECTORS FOR SHUTDOWN. SEE SEQUENCE FOR ADDITIONAL INFORMATION.

KEY PLAN

AREA C

//AREA A//

AREA B

9. INSTALL NEW COMBINATION TEMPERATURE/HUMIDITY SENSOR IN THE SAME LOCATION AS THE EXISTING.



Principal in Charge: DER

Project Engineer: JEB

Drawn By: JEB

Revisions:

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YORK COUNTY PRISON HVAC RENOVATIONS

Buford Goff

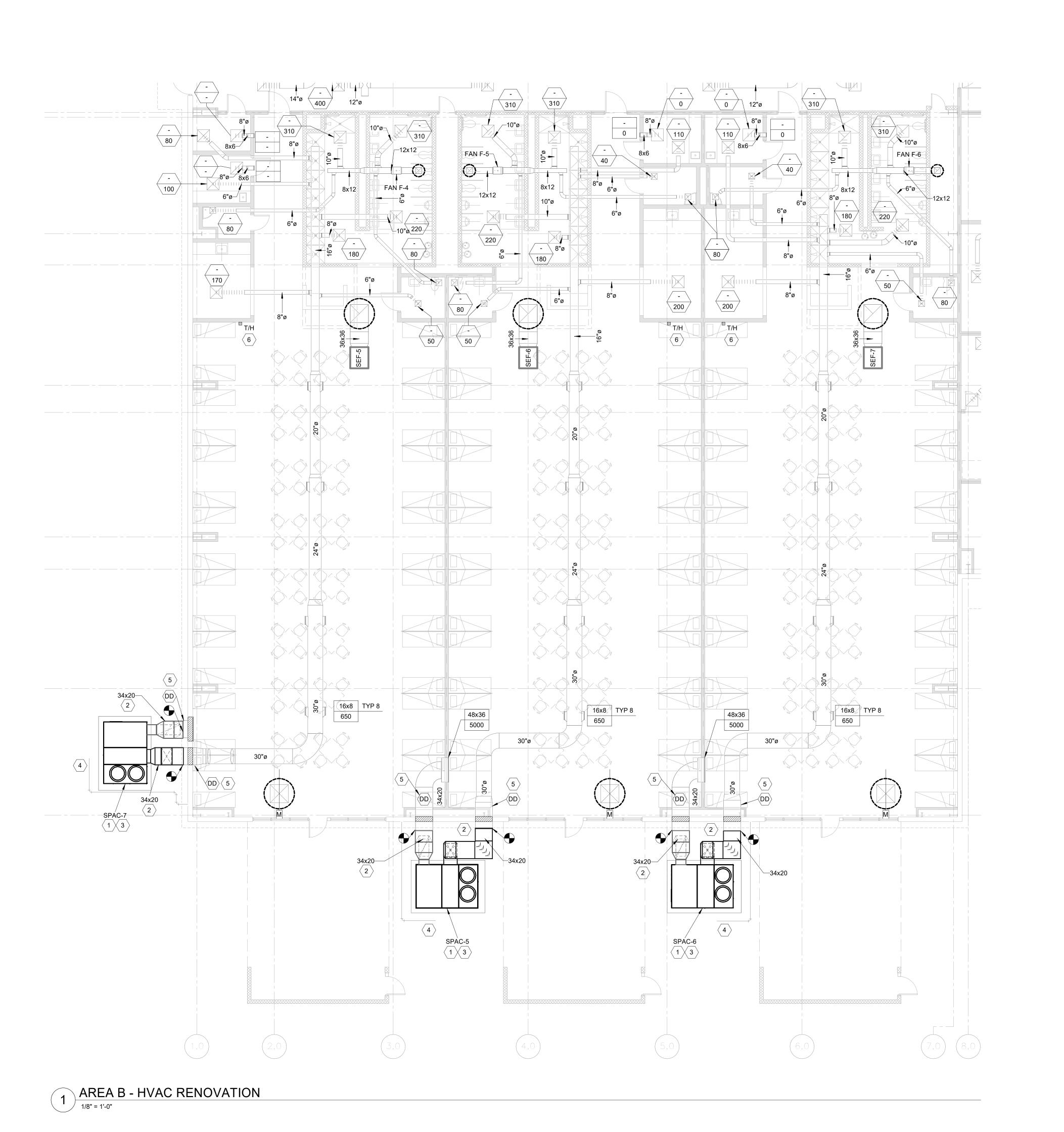
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& Associates, Inc.

Sheet Number:

M-101



GENERAL NOTES:

CONTRACTOR TO VERIFY EXISTING CONDITIONS PRIOR TO ORDERING EQUIPMENT.

- 2. COORDINATE PLACEMENT OF NEW UNITS AND DUCTWORK WITH EXISTING
- CONDITIONS.
- 3. FIELD VERIFY EXISTING DUCT SIZES.
- 4. CONTRACTOR TO REBALANCE THE SYSTEM TO DEISGN CFMS.
- 5. CONTRACTOR TO TEST ALL EXISTING DUCT DETECTORS TO VERIFY THAT THEY ARE FUNCTIONING CORRECTLY.

HVAC KEYNOTES:

- INSTALL NEW PACKAGED UNIT ON EXITING PAD.
- ROUTE DUAL WALL DUCTWORK UP THE EXTERIOR WALL AND CONNECT TO EXISTING OPENING.
- RECONNECT THE NEW CONDENSATE DRAINS TO THE EXISTING DRAIN SYSTEM.
- 4. CONNECT NEW UNIT TO EXISTING GAS LINE. PROVIDE NEW REGULATOR, SHUTOFF VALVE AND GAUGES. SEE DETAIL.
- VERIFY EXISTING DUCT DETECTOR IS WORKING PROPERLY. CONTRACTOR SHALL CONNECT NEW EQUIPMENT TO EXISTING DETECTORS FOR SHUTDOWN. SEE SEQUENCE FOR ADDITIONAL INFORMATION.
- INSTALL NEW COMBINATION TEMPERATURE/HUMIDITY SENSOR IN THE SAME LOCATION AS THE EXISTING.

KEY PLAN

AREA C

AREA A

AREA B

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Project Engineer: JEB

Drawn By: JEB

Revisions:

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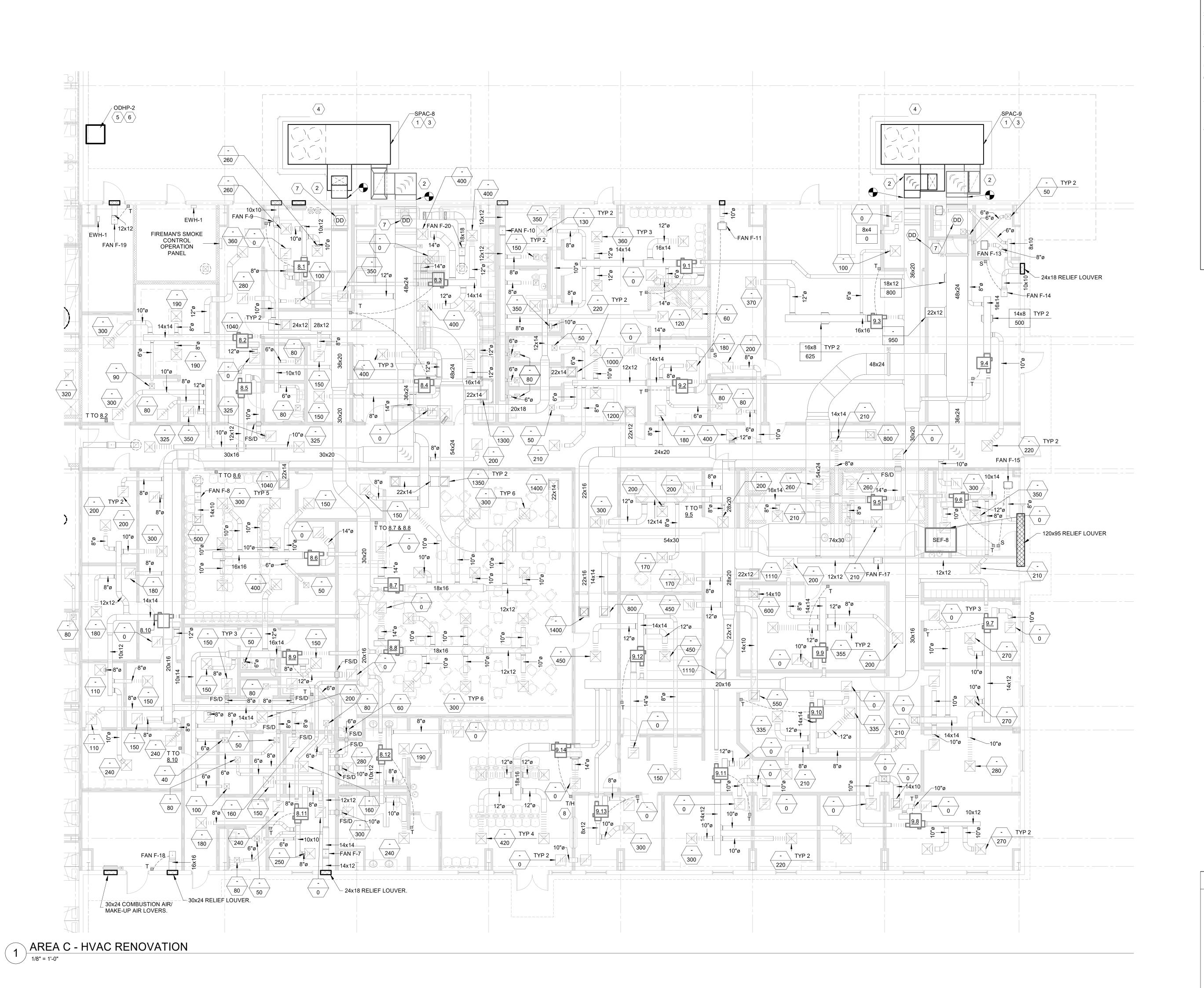
YORK COUNTY PRISON
HVAC RENOVATIONS

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Engineers & Planners

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Sheet Number:

M-102



GENERAL NOTES:

CONTRACTOR TO VERIFY EXISTING CONDITIONS PRIOR TO ORDERING EQUIPMENT.

- COORDINATE PLACEMENT OF NEW UNITS AND DUCTWORK WITH EXISTING CONDITIONS.
- FIELD VERIFY EXISTING DUCT SIZES.
- CONTRACTOR TO REBALANCE THE SYSTEM TO DEISGN CFMS.
- 5. CONTRACTOR TO TEST ALL EXISTING DUCT DETECTORS TO VERIFY THAT THEY ARE FUNCTIONING CORRECTLY.

HVAC KEYNOTES:

INSTALL NEW PACKAGED UNIT ON EXITING PAD.

- 2. ROUTE DUAL WALL DUCTWORK UP THE EXTERIOR WALL AND CONNECT TO EXISTING OPENING.
- RECONNECT THE NEW CONDENSATE DRAINS TO THE EXISTING DRAIN SYSTEM.

 CONNECT NEW UNIT TO EXISTING GAS LINE. PROVIDE NEW REGULATOR, SHUTOFF VALVE AND GAUGES. SEE DETAIL.
- INSTALL NEW CONDENSING UNIT ON EXISTING PAD.
- ROUTE REFRIGERANT PIPING FROM ASSOCIATED CONDENSING UNIT TO CORRESPONDING INDOOR UNIT. REUSE EXISTING WALL OPENING AND FOLLOW THE SAME ROUTING.
- VERIFY EXISTING DUCT DETECTOR IS WORKING PROPERLY. CONTRACTOR SHALL CONNECT NEW EQUIPMENT TO EXISTING DETECTORS FOR SHUTDOWN. SEE SEQUENCE FOR ADDITIONAL INFORMATION.
- 8. INSTALL NEW COMBINATION TEMPERATURE/HUMIDITY SENSOR IN THE SAME LOCATION AS THE EXISTING.

KEY PLAN

//AREA C//

AREA A

AREA B

Principal in Charge: DER

Project Engineer: JEB

Revisions:

No. Date Description

Drawn By: JEB

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Engineers & Planners

Sheet Number:

M-103

					PARAI	LLEL	FAN P	OWER	ED AIF	RTER	MINAL	UNIT	SCHE	DULE	(EXIS	TING	SCHE	DULE)		
TERMINAL	PRIMA	RY AIR	UNIT		FA	N SIDE			REHEAT	COIL		NC L	EVELS	DUCT	MAX WEIGHT		ELECTRICA	۸L	MANUFACTURER	DEMARKO
#	CFM	CFM	PD (a)	CFM	ESP (a)	HP	ELECT	Al			TRICAL	RAD.	DISCH.	INLET	(#)	MCA	MOCP	VOLT/HP	AND MODEL	REMARKS
	MAX	MIN			, ,		VOLT / PH	ENT T	LVG T	KW	VOLT/PH	10.0.	Bioon.							
8.1	520	130	-	210	-	1/8	-	-	-	3.5	-	-	-	-	-	16.67	20	277/1	-	
8.2	1100	280		445		1/3				7.0						12.52	15	480/3		
8.3	1200	300		480		1/3				7.5						13.28	15	480/3		
8.4	1350	340		540		1/3				9.0						15.53	20	480/3		
8.5	650	165		260		1/8				4.5						21.18	25	277/1		
8.6	1600	320		640		1/3				10.0						17.04	20	480/3		
8.7	1800	360		720		1/3				11.0						19.05	20	480/3		
8.8	1800	360		720		1/3				11.0						19.05	20	480/3		
8.9	1300	325		520		1/3				7.5						13.28	15	480/3		
8.10	1200	300		480		1/3				7.5						13.28	15	480/3		
8.11	460	115		185		1/8				3.0						14.41	15	277/1		
8.12	430	110		175		1/8				3.0						14.41	15	277/1		
8.1	1400	350		560		1/3				9.0						15.53	20	480/3		
8.2	1010	255		405		1/3				6.5						11.77	15	480/3		
8.3	1720	430		690		1/3				11.0						19.04	20	480/3		
8.4	1350	325		520		1/3				9.0						15.53	20	480/3		
8.5	1500	375		600		1/3				10.0						17.04	20	480/3		
8.6	560	140		225		1/8				3.5						16.67	20	277/1		
8.7	820	205		330		1/8				5.5						25.69	30	277/1		
8.8	540	135		220		1/8				3.5						16.67	20	277/1		
8.9	1110	200		445		1/3				6.5						11.77	15	480/3		
8.10	1090	275		440		1/3				7.0						12.52	15	480/3		
8.11	740	185		300		1/8				5.0						23.44	25	277/1		
8.12	1050	255		420		1/3				6.5						11.77	15	480/3		
8.13	300	75		120		1/8				2.0						9.90	15	277/1		
8.14	1680	420		675		1/3				11.0						18.54	20	480/3		
						-,-														

(a) INCHES WG

9/20

S3008A

								<u> </u>		S SCHEDUL			
FAN #	LOCATION	SERVICE	CFM	ESP	MAX BHP	MAX HP	RPM	MAX SONES	MAX WEIGHT (#)	ELECTRICAL VOLT / PH	CONTROL	MANUFACTURER AND MODEL	REMARKS
F-1	DAY ROOM B111	CELLS/SHOWERS/TOIL	1640	.75	-	3/4	-	-	-	120/1	-	-	INLINE
F-2	DAY ROOM B135	CELLS/SHOWERS/TOIL	1640	.75		3/4				120/1			INLINE
F-3	CORRIDOR B103	JAN/ELEC/TOIL	400	.25		1/4				120/1			INLINE
F-4	SHOWER B163	SHOWER/TOIL	780	.50		1/4				120/1			INLINE
F-5	SHOWER B173	SHOWER/TOIL	780	.50		1/4				120/1			INLINE
F-6	SHOWER B182	SHOWER/TOIL	780	.50		1/4				120/1			INLINE
SEF-1		SMOKE EXHAUST	15,000	.50		5				460/3			INLINE
SEF-2		SMOKE EXHAUST	15,000	.50		5				460/3			INLINE
SEF-3		SMOKE EXHAUST	15,000	.50		5				460/3			INLINE
SEF-4		SMOKE EXHAUST	15,000	.50		5				460/3			INLINE
SEF-5		SMOKE EXHAUST	15,000	.50		5				460/3			INLINE
SEF-6		SMOKE EXHAUST	15,000	.50		5				460/3			INLINE
SEF-7		SMOKE EXHAUST	15,000	.50		5				460/3			INLINE
SEF-8		SMOKE EXHAUST	30,000	1.0		15				460/3			INLINE

S3201

Principal in Charge: DER

Project Engineer: JEB

Drawn By: JEB

Revisions:

No. Date Description

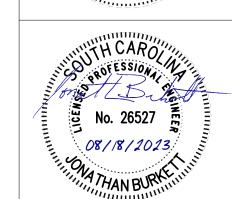
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YORK COUNTY PRISON
HVAC RENOVATIONS
HVAC SCHEDULES (EXISTING)

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Engineers & Planners

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Sheet Number:

M-301

AID				CFM		F	ANS		COMP	RESSOR		GAS HEAT				CC	OLING COI	_ CAPACITY	′					ELECTRICA	\L		
AIR CONDITIONER	LOCATION	ESP (a)	TOTAL	OA	OUTI	DOOR	IND	OOOR	NO	DLA	CFH	MBH	IN	МВН	(NET)	OUTDOOR	ENT	AIR	LEAVI	NG AIR	FED	WEIGHT (#)	MCA	MOCD	VOLT / DIL	MANUFACTURER AND MODEL	REMARKS
#			TOTAL	UA	FLA	NO	ВНР	HP	- NO	RLA	INPUT	OUTPUT	WG	TOTAL	SENS	DB T	DB	WB	DB	WB	EER	(")	MCA	MOCP	VOLT / PH	, .	
SPAC-1,2	DORMS	0.75	3,000	350	1.5	1	1.3	3.1	1/1	8.2/4.3	150	121.5	7-14	87.9	68.0	95	77.3	65.0	55.4	54.8	12.1	1100	21	25	460/3	TRANE YHJ090	123456789101
SPAC-3,4	DAYROOM/CELLS	1.25	5000	1320	-	2	3.8	-	1/1	14.6/6.5	200	162	7-14	146.9	105.8	95	80.3	67.9	58.9	58.0	10.8	1500	33	45	460/3	TRANE YHJ150	123456789101
SPAC-5,6,7	DORMS	1.25	6000	1000	-	2	2.7	3.1	1/1	16.7/8.2	250	202.5	7-14	178.5	134.1	95	78.3	66.0	56.6	55.8	11.9	2200	41	50	460/3	TRANE YHJ180	123456789101
(a) INCHES WG 1 UNIT ON GR 2 HORIZONTA	_	SUPPLY FAI 2 STAGE GA		_		ECT SWITCH		CON	NTROLLABL	ATING, LOW E BY BMS W LEAK RETI			_	ILATING HO		AT TO 72 DEG F	(1	1 AIRFLOW	 / MEASURIN	I IG STATION	IN THE OU	ISIDE AIR HO	OD BY CO	NTROLS CC	NTRACTOR		I

CONTROLLABLE BY BMS.

					INDOOR U	NIT										OUTDOO	R UNIT						CC	OLING COI	L CAPACITY				
INDOOR	LOGATION	С	FM			WEIGHT		ELECTRICA	L	MANUFACTURER	OUTDOOR	FA	ANS	COMPR	RESSOR	WEIGHT		ELECTRICA	L	MANUFACTURER	МВН	(NET)	OUTDOOR	ENT	AIR	LVG	AIR	OFFR	REMARKS
INDOOR AC #	LOCATION	TOTAL	OA	ESP(a)	FLA	WEIGHT (#)	MCA	MOCP	VOLT / PH	AND MODEL	AC#	FLA	NO	NO	RLA	WEIGHT (#)	MCA	МОСР	VOLT / PH	AND MODEL	TOTAL	SENS	DB T	DB	WB	DB	WB	SEER	
IDAC-1	SEC/ELECT B104	400	-			25	1.4	-	-	MITSUBISHI NTXWMT09	ODAC-1	0.7	1	1	8.8	80	12	15	120/1	MITSUBISHI NTXSMT09	9.1	7.4	95	80	67	-	-	17	1234567
	—		•	–	⊥ RI CONDITIO IDENSATE P				OMPRESSOR	(7) HARD WIRED THEF																			

BP-#

BP-#

SPAC-1-4

SPAC-5-9

<5100

>5100

															SF	PLIT SY	STEM	I HEAT	PUM	SCH	EDULE																
					INE	OOR UNIT	Γ											OUTDO	OR UNIT										:	SYSTEM							
INDOOR	1.00171011	CF	М			ELECTRIC	HEAT	WEIGHT		ELECTRICA	\L	MANUFACTURER	OUTDOOR		FANS	COM	PRESSOR	WEIGHT	-	ELECTRIC	AL	MANUFACTURER	1451	. (A IET)			COIL CAPA		E41/11/0 A15	.			HEATING	COIL CAPAC	TY 6 47 F		REMARKS
INDOOR UNIT#	LOCATION	TOTAL	OA	ESP(a)	FLA	KW V	OLT / PH	WEIGHT (#)	MCA	MOCP	VOLT / PH	AND MODEL	UNIT#	HP	NO	NO	RLA	(#)	MCA	МОСР	VOLT / PH	AND MODEL	TOTAL	SENS	OUTDOO DB T	OR D	NTERING AI	K L /B D	EAVING AIF	SEE	R (b) EN1	T MBI	COP	MBH	COP	HSPF	
IDHP-2	CONTROL ROOM B10	800	100	0.4	2.8	5.8	208/1	150	38	40	208/1	TRANE TEM4B0B24	ODHP-2	0.125	1	1	11.5	250	15	25	208/1	TRANE 4TWR4024	23.9	17.9	95	8	0 6	7 5	9 57	7.2 14	.3 70	14.6	2.6	22.6	4.0	7.5	12345678

* INCLUDES DUCT, GRILLES, AND LOADED FILTERS; (a) INCHES WG; (b) @ ARI CONDITIONS

9/20

1 PROVIDE START CAPACITOR FOR SINGLE PHASE UNITS 3 DIRECT DRIVE MOTOR 7 MERV 8 FILTER (5) R410A REFRIGERANT

(4) 1 PT POWER CONNECTION ON INDOOR UNIT (6) AUXILIARY DRAIN PAN (8) DEHUMIDIFICATION CONTROL MODULE 2 LOW AMBIENT CONTROL TO 20°F

09/20

BIPOLAR IONIZATION SYSTEM SCHEDULE SPACE ^(b) STEADY STATE CONCENTRATIONS (a) IONIZATION ELECT MANUFACTURER PEOPLE LOCATION UNIT REMARKS VOLT AND MODEL BP-# 1200 <1800 <10 24 VAC/VDC GPS CI-2

<1800

<10

<10

24 VAC/VDC

24 VAC/VDC

GPS FC48

GPS FC48 (4)

(a) PPM AT 300 MINUTES OPERATION 3 AUTO-CLEANING 1) PROVIDE FOR ALL UNITS ON THE PROJECT (b) MIN. SPACE SIZE. ACTUAL SPACE MAY BE LARGER. 2 COORDINATE LOCATIONS AND POWER WITH EQUIPMENT MANUFACTURER 4 PROVIDE MULTIPLE UNITS (MIN OF TWO) Principal in Charge: DER

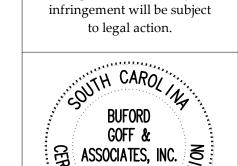
Project Engineer: JEB

Revisions: No. Date Description

Drawn By: JEB

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S3252C

S3252E

Y PRISON 'ATIONS C RENOVA YORK C HVAC

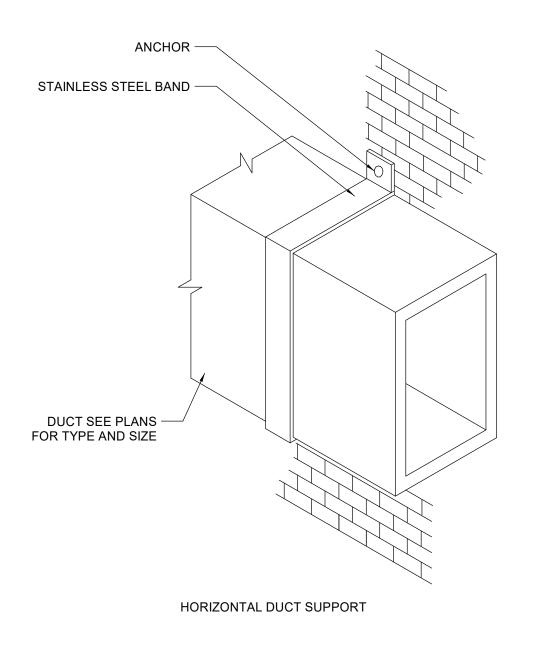
Goff & Associates, Inc. Engineers & Planners

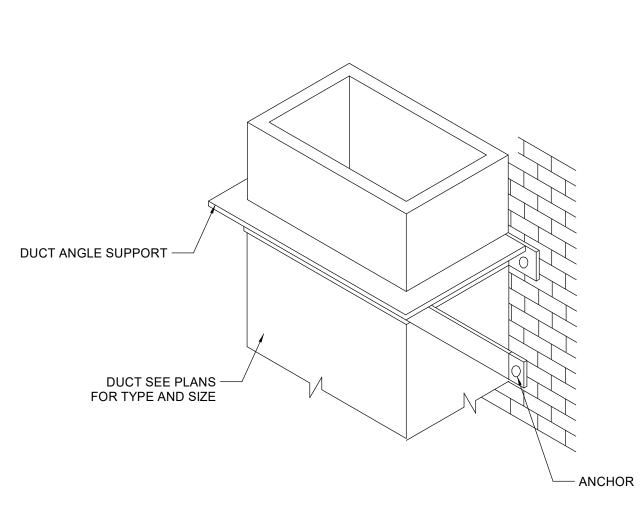
1331 Elmwood Ave. Suite 200 Columbia, SC 29201 Phone: (803) 254 - 6302

Sheet Number:

M - 302Date: 08-18-2023

Scale: As Noted BGA Project Number: 22031 CONSTRUCTION DOCUMENTS



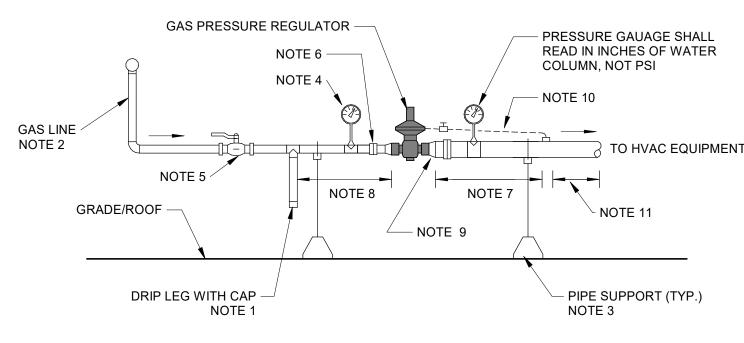


VERTICAL DUCT SUPPORT

INCHES OF AN ELBOW.

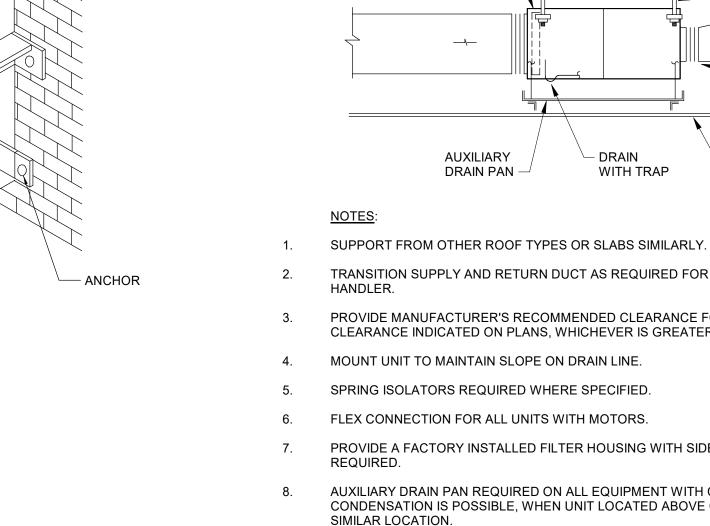
- 1. PROVIDE BRACKETS EVERY 10 FEET (MAX) AND WITHIN 12
- 2. LOCATE DUCT AGAINST WALL OR MAXIMUM OF 2 INCHES FROM THE WALL.
- 3. ANCHORS AND DUCT SUPPORTS SHALL BE DESIGNED FOR
- WIND AND SEISMIC LOADS. 4. ATTACH DUCT TO SUPPORT PER SMACNA.

DUCT SUPPORT FROM WALL DETAIL NOT TO SCALE



- DRIP LEG TO BE A MIN. OF 6".
- 2. ALL GAS PIPING SHALL BE PAINTED. SEE PLANS FOR ROUTING.
- ALL PIPE SUPPORTS SHALL BE GALVANIZED.
- PRESSURE GAUGE SHALL READ IN PSI.
- GAS BALL VALVE FOR SHUT-OFF. VALVE SHALL BE WITHIN 6'-0" OF THE EQUIPMENT.
- UNION (TYP.)
- PROVIDE 8 TO 10 PIPE DIAMETERS DOWNSTREAM OF THE REGULATOR PRIOR TO FITTINGS OR UNIT CONNECTION.
- PROVIDE 3 TO 5 PIPE DIAMETERS UPSTREAM OF THE REGULATOR PRIOR TO
- PROVIDE CONCENTRIC REDUCERS TO CONNECT TO THE REGULATOR. IF THE REGULATOR OUTLET SIZE IS MORE THAN 2 NOMINAL PIPE SIZES SMALLER THAN THE LINE SIZE, PROVIDE DOWNSTREAM SENSING LINE.
- IF REQUIRED, THE SENSING LINE SHALL BE A MINIMUM OF 3/8" AND BE MADE OF STAINLESS STEEL OR COPPER TUBING. SLOPE THE SENSING LINE TOWARD THE TAP. PROVIDE WESGATE OR MULTITURN VALVE IN THE CONTROL LINE.
- 11. IF A SENSING LINE IS PROVIDED, LOCATE THE SENSING LINE TAP ON TOP OF THE PIPE. TAP SHOULD BE 10 PIPE DIAMETERS AFTER ANY REDUCERS AND 3 TO 5 PIPE DIAMETERS BEFORE THE EQUIPMENT. INSTALL PRESSURE GAUGE DOWNSTREAM OF THE TAP.

GAS REGULATOR PIPING DETAIL NOT TO SCALE



ROOF OR FLOOR.

FILTER -

AUXILIARY

DRAIN PAN $-\!\!\!/$

MOUNT UNIT TO MAINTAIN SLOPE ON DRAIN LINE.

SPRING ISOLATORS REQUIRED WHERE SPECIFIED.

FLEX CONNECTION FOR ALL UNITS WITH MOTORS.

REQUIRED.

SIMILAR LOCATION.

SUPPORT RODS.

NOTE 10 —

SUSPENDED INDOOR AIR HANDLING EQUIPMENT DETAIL NOT TO SCALE

10. SEE ARCHITECTURAL AND STRUCTURAL PLANS FOR ROOF OR FLOOR CONSTRUCTION.

WITH TRAP

TRANSITION SUPPLY AND RETURN DUCT AS REQUIRED FOR CONNECTION TO AIR

PROVIDE MANUFACTURER'S RECOMMENDED CLEARANCE FOR MAINTENANCE OR

PROVIDE A FACTORY INSTALLED FILTER HOUSING WITH SIDE OR BOTTOM ACCESS AS

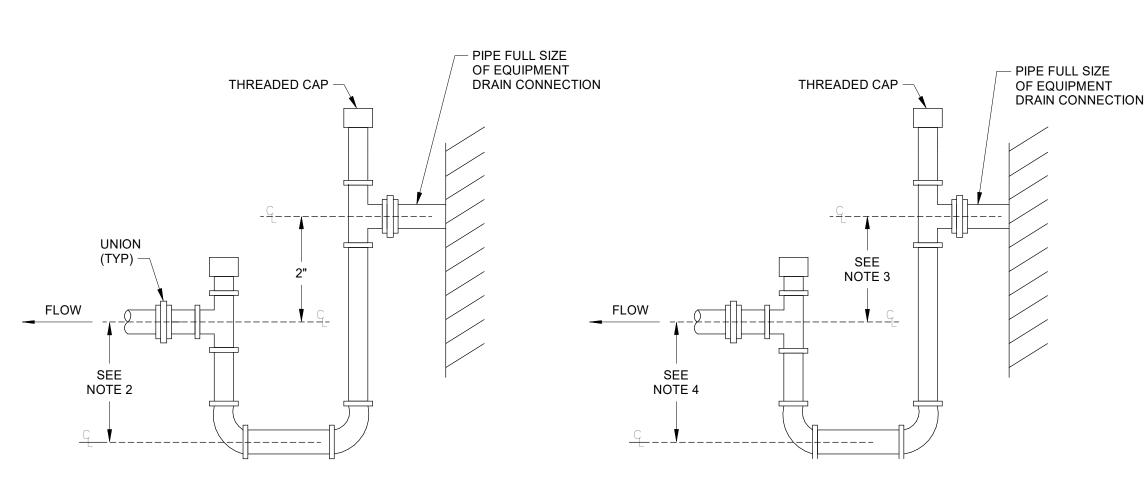
AUXILIARY DRAIN PAN REQUIRED ON ALL EQUIPMENT WITH COOLING COIL OR WHERE

THREADED RODS FOR AUXILIARY DRAIN PAN CAN BE THE SAME AS THE UNIT SUPPORT

RODS IF THEY CAN BE PROPERLY INSTALLED (I.E. WITHOUT BENDING, INTERFERING WITH UNIT ACCESS, ETC.). OTHERWISE THEY SHALL BE RUN SIMILAR TO UNIT

CONDENSATION IS POSSIBLE, WHEN UNIT LOCATED ABOVE CEILING, IN ATTIC, OR

CLEARANCE INDICATED ON PLANS, WHICHEVER IS GREATER.



BLOW THRU DRAIN

DRAW THRU DRAIN

- SPRING TYPE

- THREADED RODS

- CEILING (WHERE INDICATED

ON PLANS)

NOTE 5

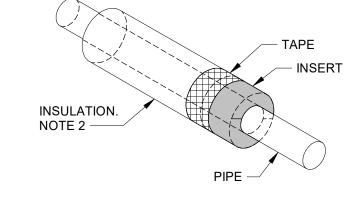
VIBRATION ISOLATORS.

CONNECTION

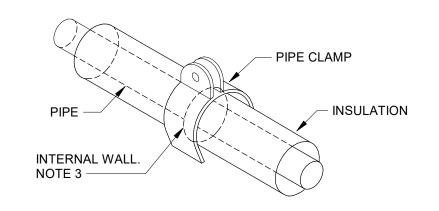
(TYP). NOTE 6

- LOCATE TRAPS SO AS TO BE ACCESSIBLE FOR CLEANING.
- HEIGHT SHALL BE EQUAL TO UNIT MAXIMUM TOTAL STATIC PRESSURE PLUS 1/2".
- HEIGHT SHALL BE EQUAL TO UNIT MAXIMUM NEGATIVE STATIC PRESSURE PLUS 1"
- HEIGHT SHALL BE 1/2 OF HEIGHT INSTALLED IN NOTE 3.
- PIPE TO NEAREST DRAIN.
- TRAP SHALL NOT BLOCK ACCESS TO EQUIPMENT.
- PROVIDE UNIONS AT INLET AND OUTLET OF TRAP.
- DRAIN LINE SHALL BE 3/4" MIN OR UNIT CONNECTION SIZE, WHICHEVER IS LARGER.

EQUIPMENT CONDENSATE DRAIN DETAIL



RIGID INSERT FOR ELASTOMERIC INSULATION (HANGERS AND CLAMPS)

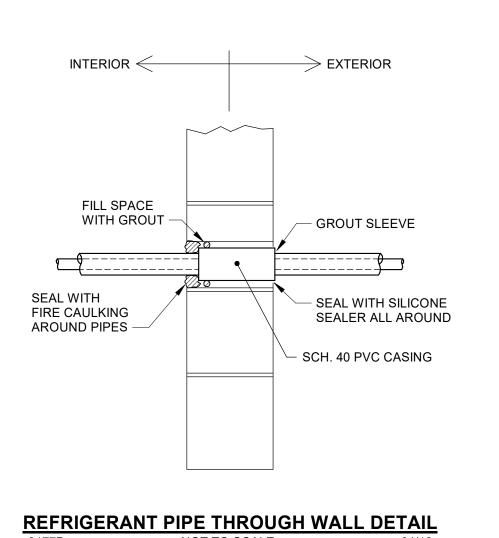


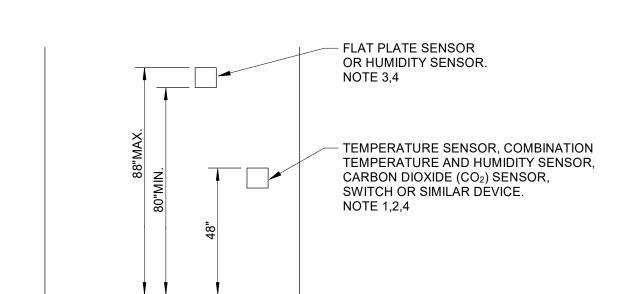
REFRIGERANT PIPE CLAMP

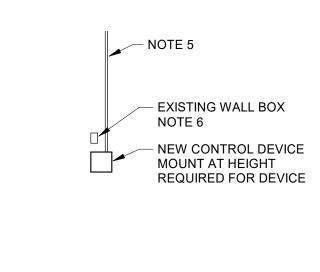
NOTES:

- RIGID INSULATION INSERT SHALL OCCUR AT EVERY HANGER OR PIPE CLAMP UNLESS A REFRIGERANT PIPE CLAMP IS USED.
- INSULATION SHALL BUTT UP TIGHT TO INSERT. SEAL WITH MANUFACTURER'S TAPE TO PROVIDE AN AIRTIGHT SEAL.
- INSERT INSULATION INTO THE PIPE CLAMP POCKETS ON BOTH SIDES UP TO THE INTERNAL WALL TO CREATE A CONTINUOUSLY INSULATED ASSEMBLY. SEAL AROUND CLAMP WITH MANUFACTURER'S APPROVED TAPE.

REFRIGERANT PIPE CLAMP DETAIL NOT TO SCALE







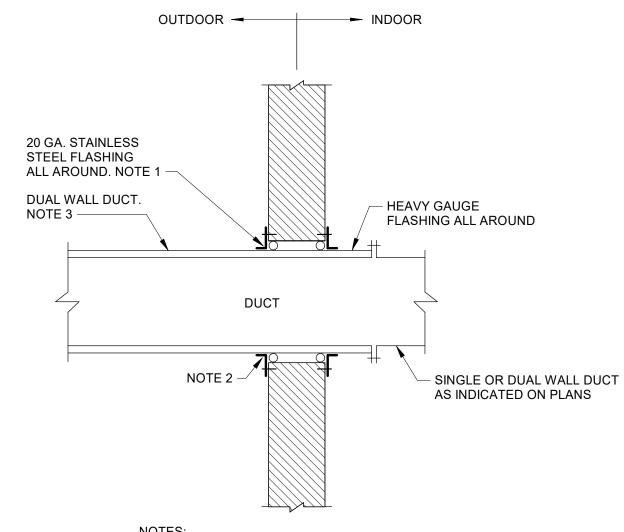
EXISTING CONSTRUCTION

- DEVICES THAT REQUIRE ACCESS BY BUILDING OCCUPANTS OTHER THAN MAINTENANCE PERSONNEL.
- 44" TO TOP OF DEVICE WHEN OBSTACLE (SHELVING, COUNTER, ETC.) IN FRONT OF DEVICE.
- DEVICES THAT DO NOT REQUIRE ACCESS BY BUILDING OCCUPANTS
- HEIGHT SHALL BE AS INDICATED UNLESS A DEVICE IS SPECIFICALLY REQUIRED TO BE LOCATED AT ANOTHER HEIGHT TO PERFORM ITS INTENDED FUNCTION.

OTHER THAN MAINTENANCE PERSONNEL.

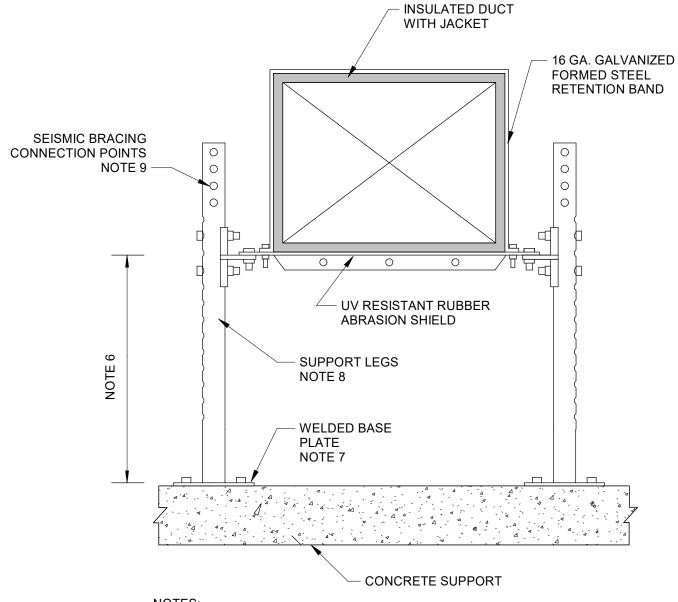
- PROVIDE WIRE MOLD WHERE PERMITTED ON EXISTING WALL WHERE CONTROLS CANNOT BE INSTALLED IN THE WALL.
- PROVIDE OVERSIZED STAINLESS STEEL COVER PLATE IF BOX IS NOT

DEVICE MOUNTING HEIGHT DETAIL



- NOTES: PROVIDE CAULKING BEHIND ANGLE.
- PROVIDE SEALANT BETWEEN DUCT AND WALL ALL AROUND.
- SEE SPECIFICATIONS

DUAL WALL DUCT THROUGH EXTERIOR WALL DETAIL



- PROVIDE PRE-ENGINEERED GRADE MOUNTED DUCT SUPPORT SYSTEM. SYSTEM SHALL BE SIZED FOR THE PROPER DUCT DIMENSIONS, WEIGHTS, AND SEISMIC/WIND LOADS. MECHANICAL SUPPORT SYSTEMS, INC. NO. 101-G OR APPROVED
- RUN INSULATION AND JACKETING CONTINUOUSLY THROUGH
- ALL STRUCTURAL SUPPORTS AND ACCESSORIES SHALL BE HOT DIPPED GALVANIZED.
- SEE PLAN FOR SPACING OF SUPPORTS. WHERE SPACING IS NOT SHOWN, PROVIDE SUPPORTS A MINIMUM EVERY 8 FEET.
- OPTIONAL UNDER PIPE RACK SUPPORT RACK MAY BE USED TO SUPPORT PIPING AS REQUIRED.
- ADJUST HEIGHT AS REQUIRED FOR INSTALLATION. MIN 12" AFG. ATTACH BASE PLATES TO CONCRETE SUPPORT PER THE
- SEISMIC/WIND SUBMITTAL. SCHEDULE 40 PIPE OR UNISTRUT SUPPORT LEGS. LEGS SHALL
- PROVIDE SEISMIC BRACING WHEN REQUIRED FOR THE SEISMIC OR WIND LOADING CONDITIONS.

ALLOW ADJUSTMENT IN INCREMENTS OF 3/4".

OUTDOOR DUCT SUPPORTS

NOT TO SCALE

Principal in Charge: DER Project Engineer: JEB Drawn By: JEB Revisions: No. Date Description

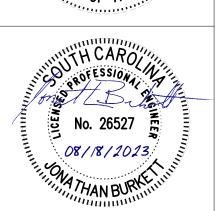
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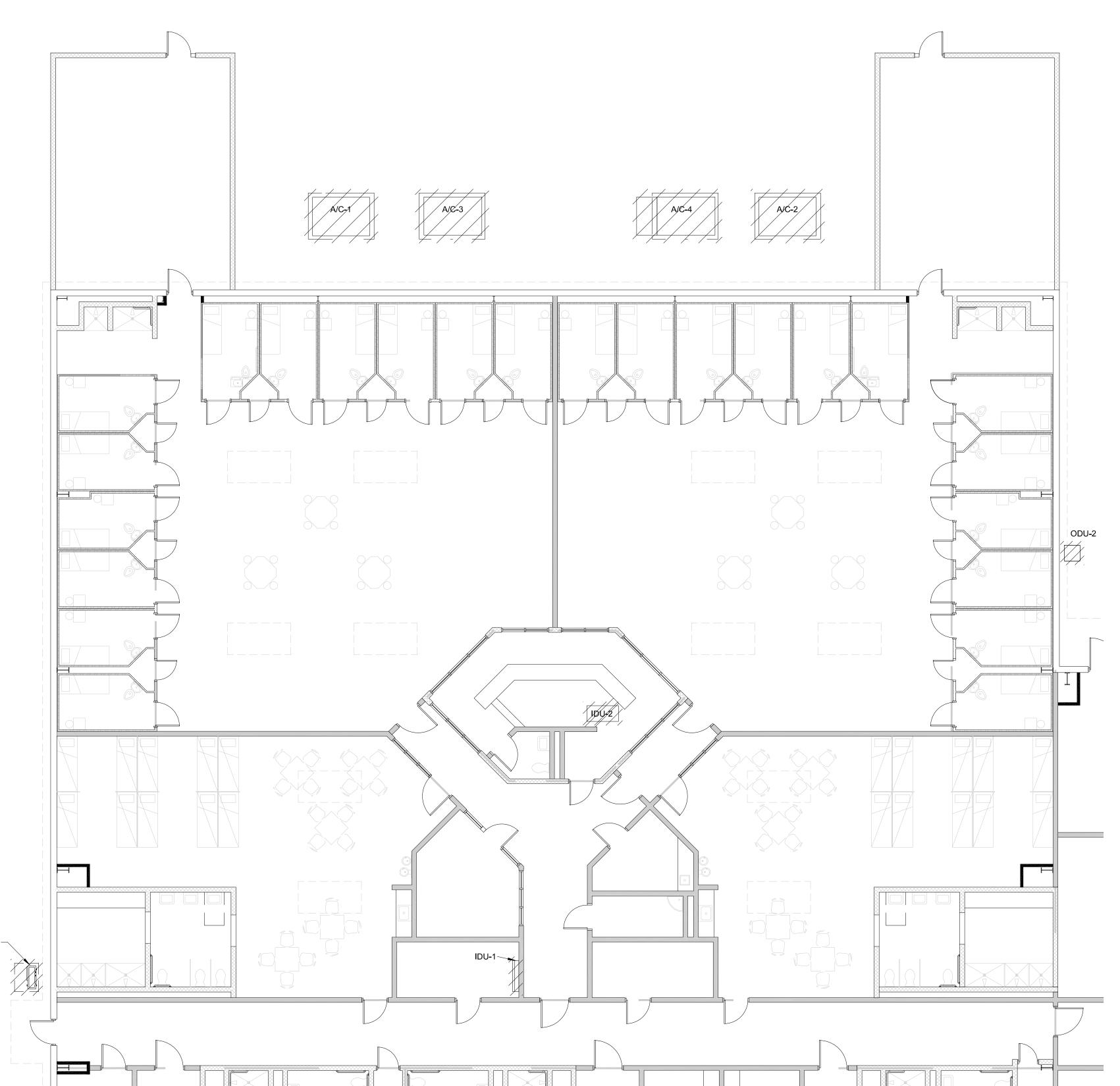
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Phone: (803) 254 - 6302

& Associates, Inc.

Sheet Number:

M-400



1 AREA A - FLOOR PLAN - ELECTRICAL DEMOLITION

1/8" = 1'-0"

	ELECTRICAL SYMBOL SCHEDULE
SYMBOL	DESCRIPTION
₩P	20A, 125V, GFCI WET LOCATION DUPLEX RECEPTACLE. PROVIDE CAST WEATHER—PROOF, METAL BACKB
J	JUNCTION BOX, SIZE PER NEC UNLESS SIZE NOTED
	FUSED DISCONNECT SWITCH. SIZE FUSES PER NAME PLATE MOP.
	120/240V OR 120/208V PANELBOARD
	277/480V PANELBOARD
	CONDUIT RUN OVERHEAD
	CONDUIT RUN UNDERGROUND
<i>\$\frac{1}{2}</i> ,	HVAC UNIT TO BE DEMOLISHED. NOTE 1.
AFF	ABOVE FINISHED FLOOR
C.	CONDUIT
СВ	CONDUIT BREAKER
RT	RAINTIGHT, NEMA 3R
MOP	MAXIMUM OVERCURRENT PROTECTION
1	KEYNOTE LABEL
×	EQUIPMENT CONNECTION
×~~	SEALTIGHT FLEX CONNECTION TO MOTOR LOAD

SYMBOL LEGEND NOTES:

1. FOR MECHANICAL EQUIPMENT SHOWN TO BE DEMOLISHED, REMOVAL OF MECHANICAL EQUIPMENT IS UNDER DIVISION 23 SCOPE. DIVISION 26 SCOPE SHALL INCLUDE DISCONNECTION AND REMOVAL OF ELECTRICAL SERVICE TO MECHANICAL EQUIPMENT. SEE SPECIFICATION 260502 FOR MORE DETAILED SCOPE OF DEMOLITION WORK.
 Project Engineer:

 ECW

 Drawn By:

 GMC

 Revisions:

 No.
 Date

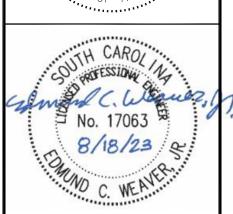
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 Date

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C. WEAVER.

AREA A - FLOOR PLAN - FLECTRICAL DEMOLITION

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Engineers & Planners

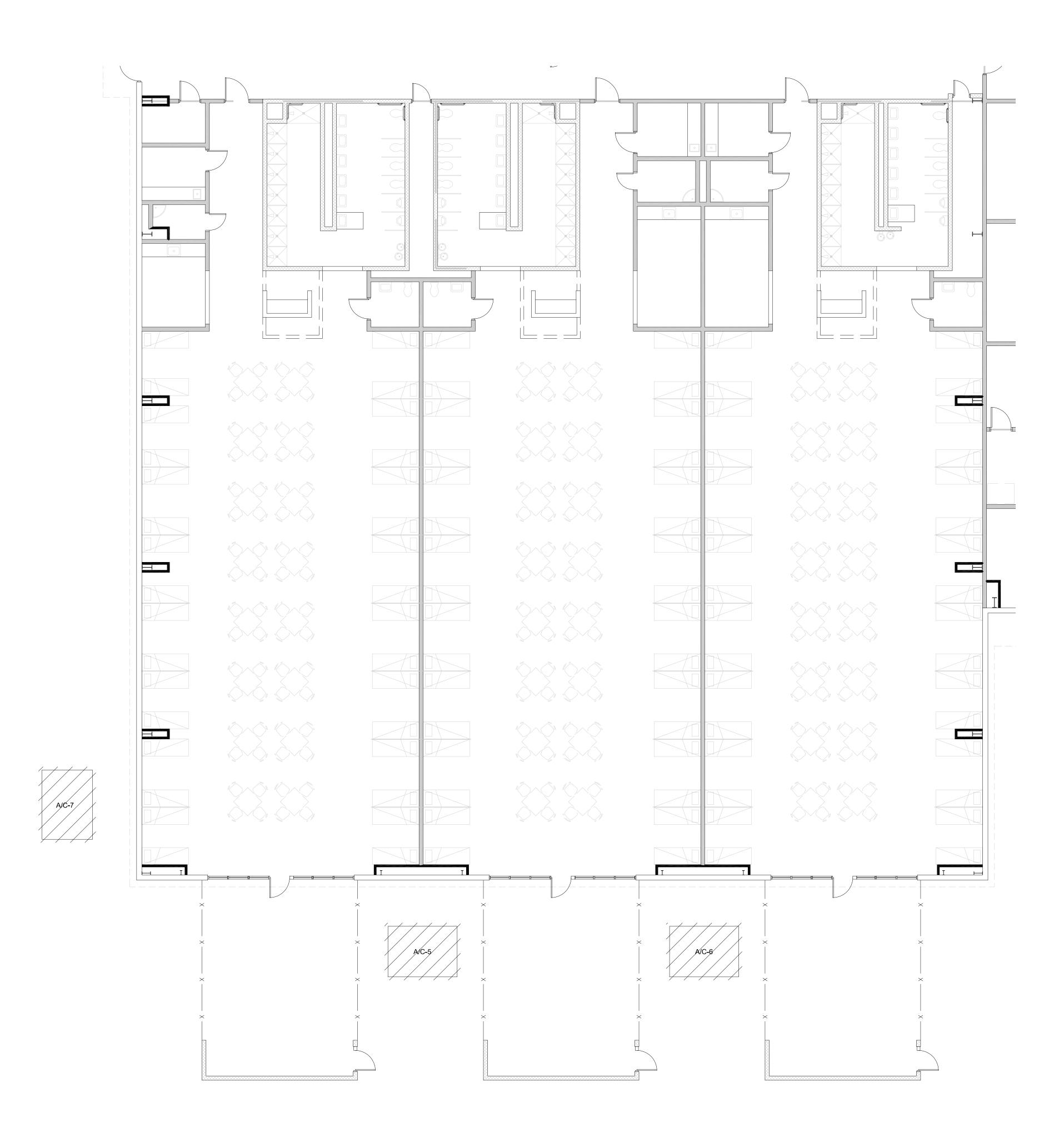
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Sheet Number:

E-101

Date: 08-18-2023

Scale: As Noted
BGA PROJECT NUMBER: 22031
CONSTRUCTION DOCUMENTS



1 AREA B - FLOOR PLAN - ELECTRICAL DEMOLITION

1/8" = 1'-0"

 Project Engineer:

 ECW

 Drawn By:

 GMC

 Revisions:

 No.
 Date

 No.
 Date

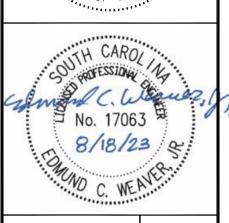
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AC RENOVATIONS

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Sheet Number:

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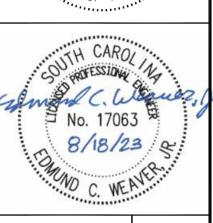
AREA C - FLOOR PLAN - ELECTRICAL DEMOLITION

1/8" = 1'-0"

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HVAC RENOVATIONS

YORK COUNTY

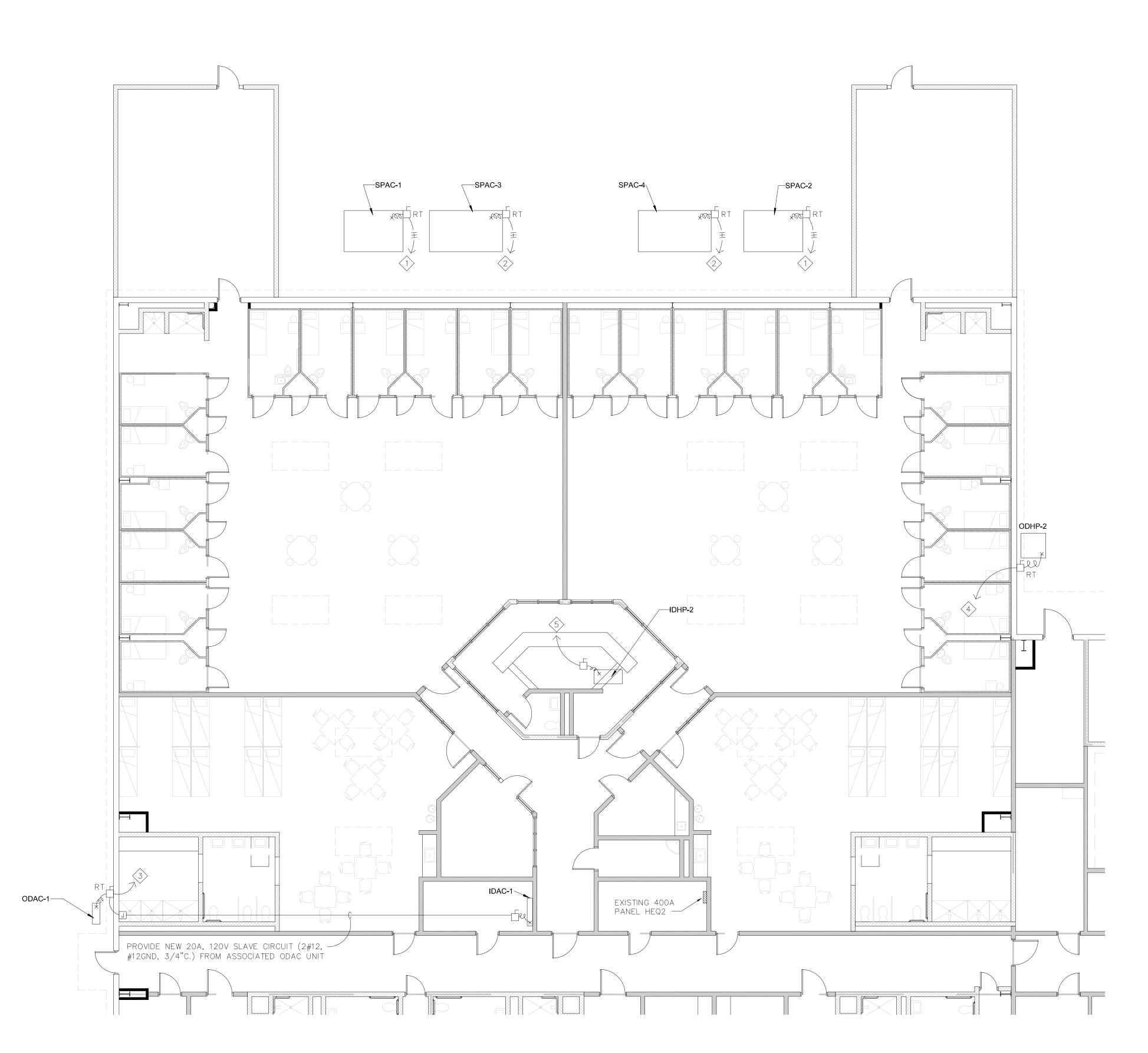
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Sheet Number:

E-103



1 AREA A - FLOOR PLAN - ELECTRICAL RENOVATION

1/8" = 1'-0"

<u>KEYNOTES:</u>

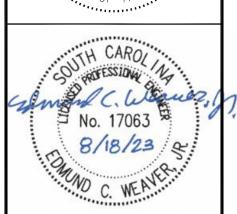
- RECONNECT/EXTEND EXISTING 25A, 480V, 3PH, 3W BRANCH CIRCUIT (3#10, #10GND, 1"C.) TO NEW SPAC UNIT. PROVIDE NEW 1" CONDUIT (MATCH EXISTING) AND NEW WIRING. PROVIDE WATER-TIGHT SPLICE/J-BOX AS REQUIRED.
- RECONNECT/EXTEND EXISTING 40A, 480V, 3PH, 3W BRANCH CIRCUIT (3#8, #10GND, 1"C.) TO NEW SPAC UNIT. PROVIDE NEW 1" CONDUIT (MATCH EXISTING) AND NEW WIRING. PROVIDE WATER-TIGHT SPLICE/J-BOX AS REQUIRED.
- RECONNECT/EXTEND EXISTING 15A, 208V, 1PH, 2W BRANCH CIRCUIT (2#12, #12GND, 3/4"C.) TO NEW ODAC UNIT. PROVIDE NEW 3/4" CONDUIT (MATCH EXISTING) AND NEW WIRING. PROVIDE WATER-TIGHT SPLICE/J-BOX AS REQUIRED. NEW ODAC UNIT IS 120V. REPLACE EXISTING 15A, 2P CB IN PANEL LEQ WITH TWO NEW 15A, 1P CB'S.
- RECONNECT/EXTEND EXISTING 20A, 208V, 1PH, 2W BRANCH CIRCUIT (2#12, #12GND, 3/4"C.) TO NEW ODHP UNIT. PROVIDE NEW 3/4" CONDUIT (MATCH EXISTING) AND NEW WIRING. PROVIDE WATER-TIGHT SPLICE/J-BOX AS REQUIRED. REPLACE EXISTING 20A, 2P CB IN PANEL LEQ WITH NEW 25A, 2P CB.
- RECONNECT/EXTEND EXISTING 40A, 208V, 1PH, 2W BRANCH CIRCUIT (2#8, #10GND, 1"C.) TO NEW IDHP UNIT. PROVIDE NEW 3/4" CONDUIT (MATCH EXISTING) AND NEW WIRING.

Project Engineer:

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A A - FLOOR PLAN - ELECTRICAL RENOVAT

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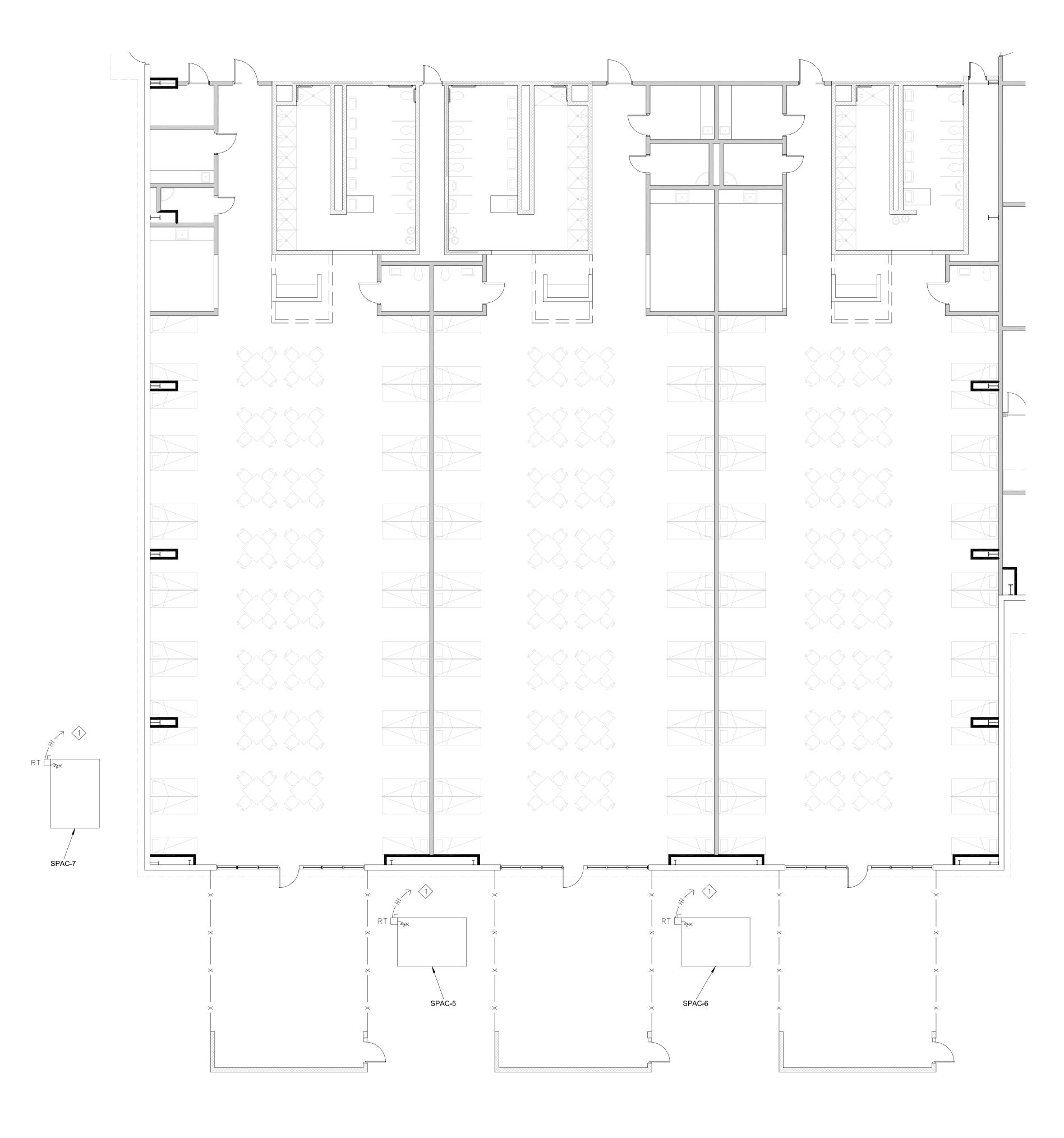
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Sheet Number:

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RECONNECT/EXTEND EXISTING 50A, 480V, 3PH, 3W BRANCH CIRCUIT (3#6, #10GND, 1"C.) TO NEW SPAC UNIT. PROVIDE NEW 1" CONDUIT (MATCH EXISTING) AND NEW WIRING. PROVIDE WATER-TIGHT SPLICE/J-BOX AS REQUIRED.



1 AREA B - FLOOR PLAN - ELECTRICAL RENOVATION

1/8" = 1'-0"

 Project Engineer:

 ECW

 Drawn By:

 GMC

 Revisions:

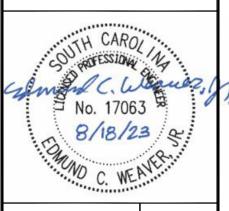
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 Date

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ON HVAC RENOVATIONS

YORK CC

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Sheet Number:

E-202

RECONNECT/EXTEND EXISTING 125A, 480V, 3PH, 3W BRANCH CIRCUIT (3#1/0, #6GND, 2"C.) TO NEW SPAC UNIT. PROVIDE NEW 2" CONDUIT (MATCH EXISTING) AND NEW WIRING. PROVIDE WATER—TIGHT SPLICE/J—BOX AS REQUIRED.



1 AREA C - FLOOR PLAN - ELECTRICAL RENOVATION

1/8" = 1'-0"

Project Engineer:

ECW

Drawn By:

Drawn By:

GMC

Revisions:

Revisions:

No. ______ Date _____

No. _____ Date _____

 No.
 Date

 No.
 Date

 No.
 Date

 No.
 Date

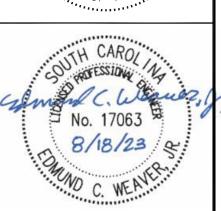
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 Date

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 Date

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C. WEAR.

AREA C - FLOOR PLAN - ELECTRICAL RENOVATION

Buford Goff

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