

















ONE LINE SYMBOL table with columns PLAN SYMBOL, NAME, and descriptions for various electrical symbols like automatic transfer switch, continuation, digital meter, etc.

ELECTRICAL FIXTURE SYMBOLS table with columns PLAN SYMBOL, NAME, and descriptions for double duplex conv, duplex conv, duplex conv GFCI, etc.

ELECTRICAL MISC SYMBOLS table with columns PLAN SYMBOL, NAME, and descriptions for concealed ceiling, floor, clearance space, key interlock, panel board, etc.

ELECTRICAL FIXTURE SYMBOL LEGEND table with columns PLAN SYMBOL, NAME, and DESCRIPTION for ground bar, junction box-ceiling, junction box-wall, receptacle-nema, etc.

ELECTRICAL MISC SYMBOL LEGEND table with columns PLAN SYMBOL, NAME, and DESCRIPTION for cable tray, ladder, lighting control tag, etc.

FIRE ALARM SYMBOL LEGEND table with columns PLAN SYMBOL, NAME, and DESCRIPTION for fire alarm control panel, fire suppression control panel, smoke damper, etc.

FIRE ALARM SYMBOLS table with columns PLAN SYMBOL, NAME, and descriptions for heat detector, smoke detector, remote annunciator, horn, strobe, etc.

LIGHTING DEVICE SYMBOLS table with columns PLAN SYMBOL, NAME, and descriptions for light switch, occupancy sensor, switch-3 way, etc.

LIGHTING DEVICE SYMBOL LEGEND table with columns PLAN SYMBOL, NAME, and DESCRIPTION for push button, occupancy sensor-ceiling, etc.

ELECTRICAL EQUIPMENT SYMBOLS table with columns PLAN SYMBOL, NAME, and descriptions for automatic transfer switch, bus duct, distribution panel, etc.

ELECTRICAL EQUIPMENT SYMBOL LEGEND table with columns PLAN SYMBOL, NAME, and DESCRIPTION for digital control system panel, etc.

ELECTRICAL ABBREVIATIONS table with columns ABBREVIATION and DESCRIPTION for #F, AMPERE, AFF, AL, AT, C, CB, CCT, CU, D, E, EMS, F, FLA, G, GFCI, GFA, GPF, HP, KAIC, KVA, KW, MAX, MCA, MCB, MIN, MLO, MO, NC, NF, N/C, NO, P, PART, R, SCRC, SPD, ST, TYP, UNO, V, W, WR, XFMR, ZSI.

ELECTRICAL GENERAL NOTES: (GENERAL NOTES SHALL APPLY TO ALL SHEETS) BRANCH CIRCUITS WITH A TOTAL LENGTH LONGER THAN 75 SHALL UTILIZE #10 AWG CONDUCTORS. RECEPTACLE BRANCH CIRCUITS WITH A TOTAL LENGTH LONGER THAN 150 SHALL UTILIZE #8 AWG CONDUCTORS.

POWER GENERAL NOTES: (POWER GENERAL NOTES SHALL APPLY TO ALL SHEETS) ELECTRICAL DEVICE MOUNTING HEIGHTS ARE NOT INDICATED ON ELECTRICAL FLOOR PLANS. CONTRACTOR SHALL COORDINATE EXACT DEVICE LOCATIONS AND MOUNTING HEIGHTS WITH ARCHITECTURAL INTERIOR ELEVATIONS.

LIGHTING GENERAL NOTES: (LIGHTING GENERAL NOTES SHALL APPLY TO ALL SHEETS) LIGHTING CONTROL DEVICES ARE INDICATED WITHOUT CONNECTION TO FIXTURE(S) BEING CONTROLLED. WITHIN EACH AREA, CONNECT CONTROL DEVICE TO SERVE LIGHT FIXTURE(S) LOCATED WITHIN SAME AREA.

ELECTRICAL DEMOLITION GENERAL NOTES: (ELECTRICAL DEMOLITION NOTES APPLY TO ALL ELECTRICAL DEMOLITION PLANS AND ALL ELECTRICAL DEMOLITION WORK) THE INTENT OF THE DEMOLITION DRAWINGS IS TO DEFINE THE SCOPE OF ELECTRICAL DEMOLITION WORK.

Revisions table with columns Date, Description, and Revision number.

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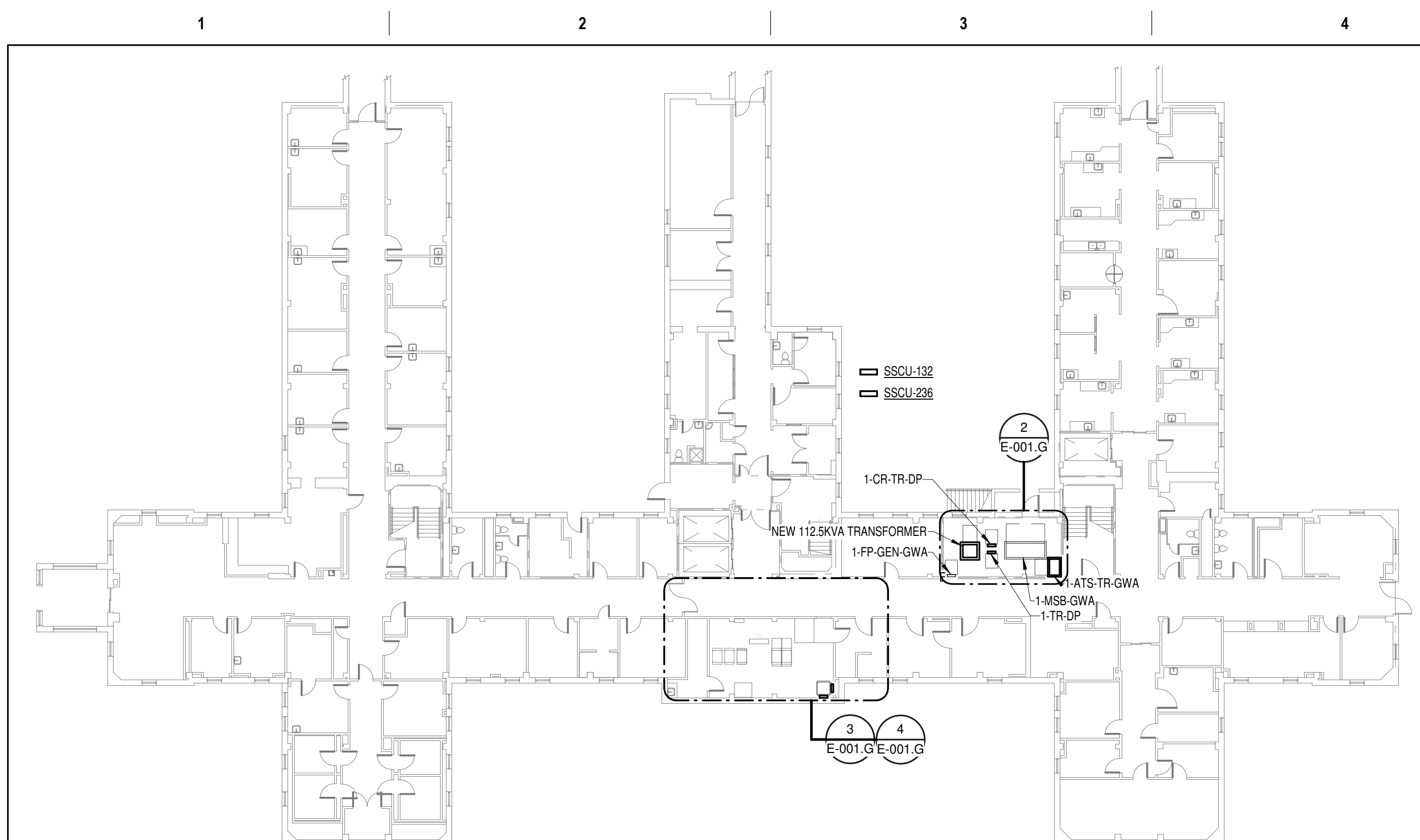
Office of Construction and Facilities Management, U.S. Department of Veterans Affairs

Drawing Title: ELECTRICAL SYMBOLS AND ABBREVIATIONS. Project Number: 679-20-104. Building Number: Drawing Number: E-000

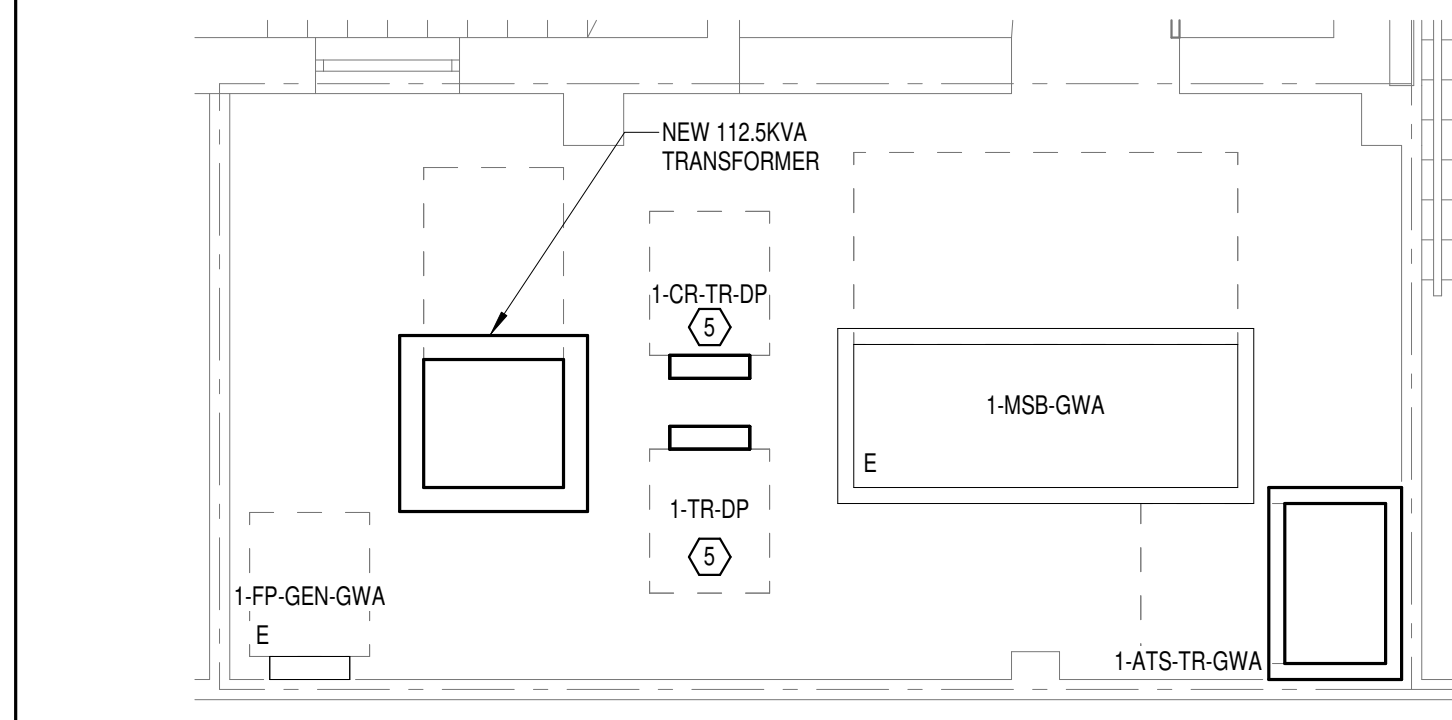
Phase: 100% CONSTRUCTION DOCUMENTS. Fully Sprinklered

Location: TUSCALOOSA VAMC, TUSCALOOSA, AL. Issue Date: 03/08/2024. Checked: CGH. Drawn: MJJ.

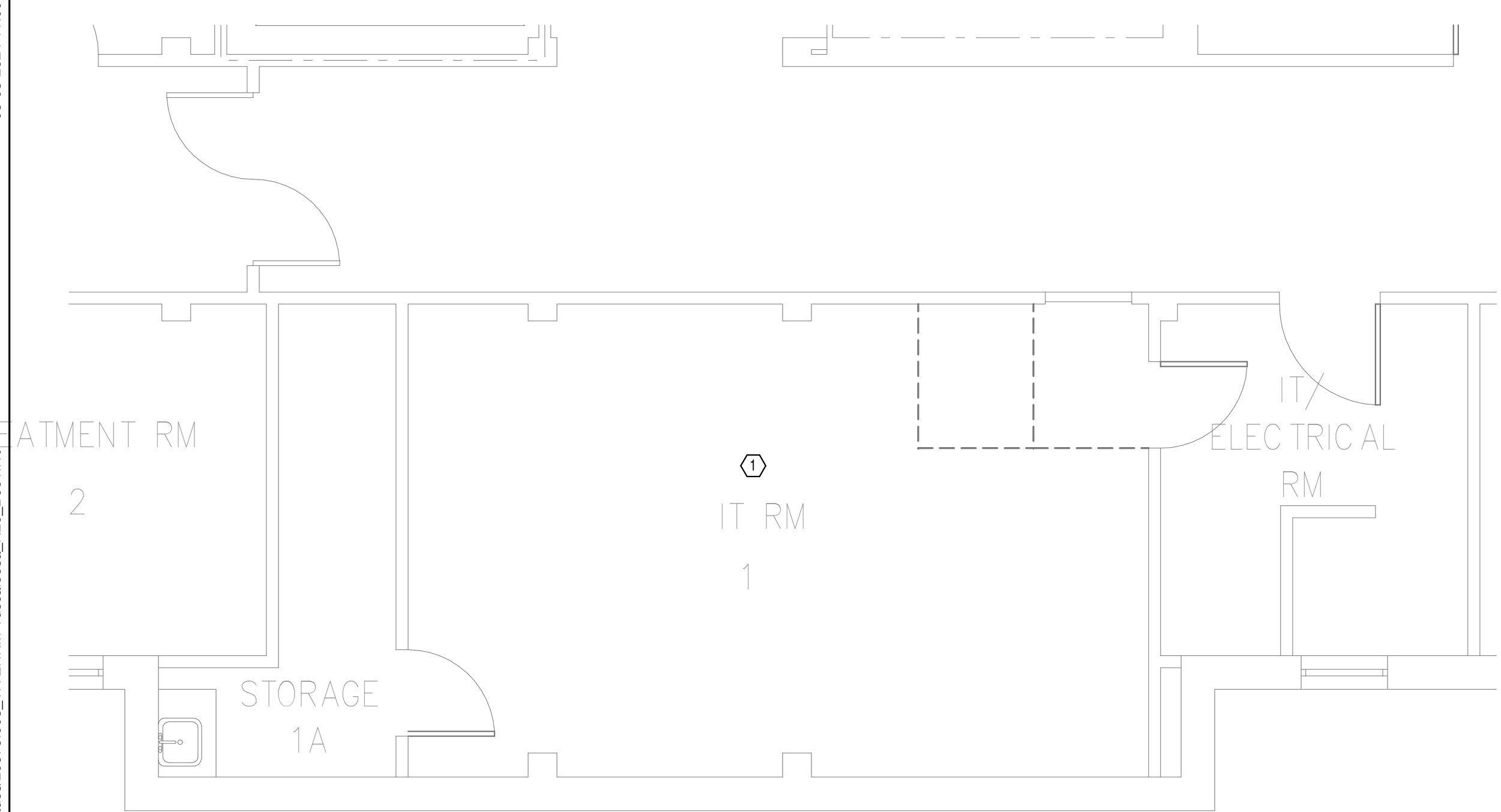




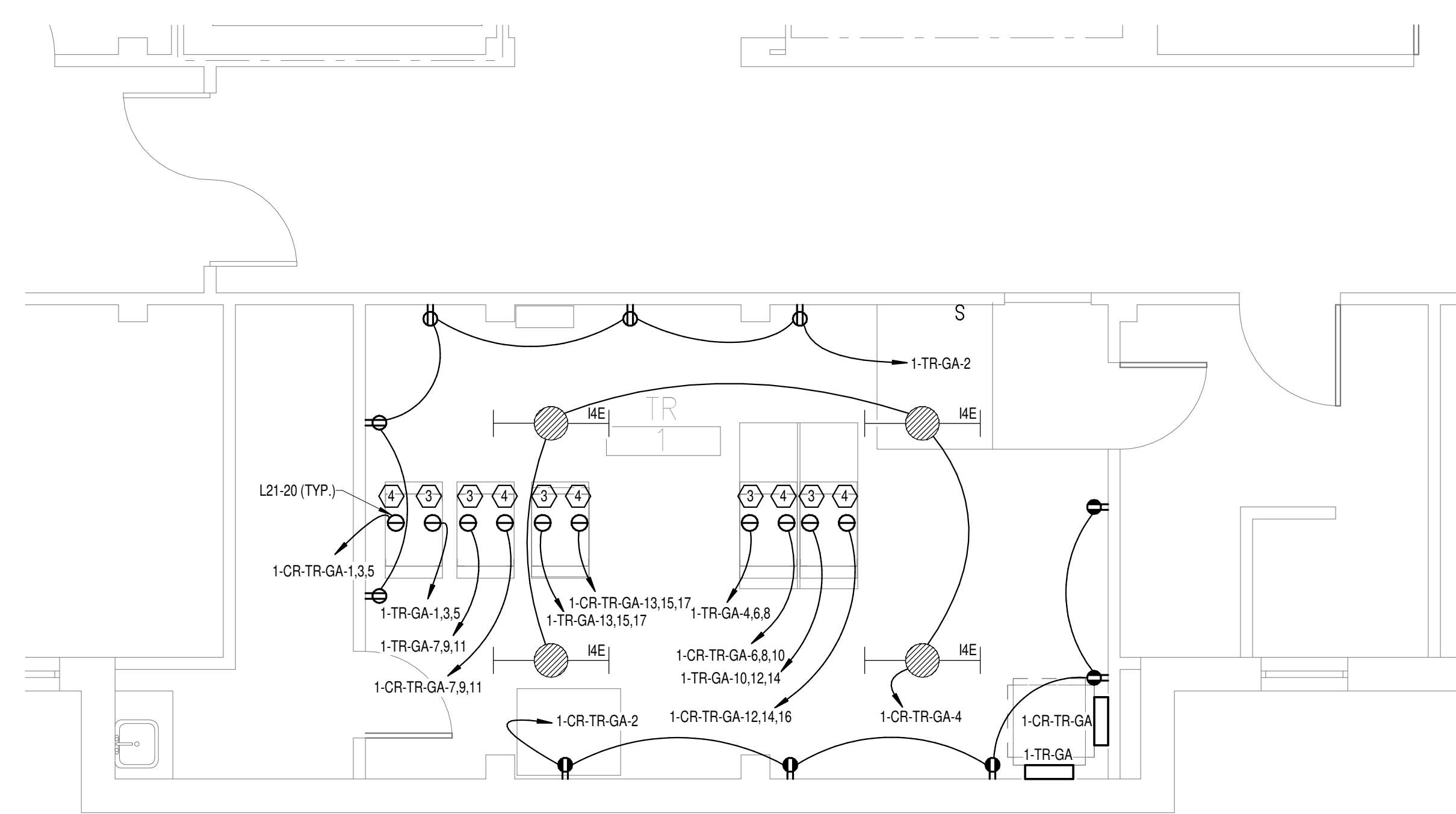
1 OVERALL FLOOR PLAN GROUND LEVEL - ELECTRICAL  
NTS



2 ENLARGED PLAN GROUND LEVEL ELECTRICAL ROOM  
1/4" = 1'-0"



3 DEMOLITION FLOOR PLAN GROUND FLOOR - ELECTRICAL  
1/4" = 1'-0"



4 NEW FLOOR PLAN GROUND FLOOR - ELECTRICAL  
1/4" = 1'-0"

MARK	DESCRIPTION	FLA	MCA	MOCP	VOLTS	PHASE	POLES	LOAD [VA]	CONTROL TYPE	DISCONNECT BY	DISCONNECT TYPE	FEEDER	PANEL	CIRCUIT NUMBER	SCCR	GEN	REMARKS
SSAH-132	SPLIT SYSTEM CONDENSING UNIT				208	1	2		INT	-	-	(3X) (30A) 2-#10 CU, #10 CU GND - 3/4"	1-CR-TR-1A	7.9	5	Yes	2
SSAH-236	SPLIT SYSTEM CONDENSING UNIT				208	1	2		INT	-	-	(3X) (30A) 2-#10 CU, #10 CU GND - 3/4"	1-CR-TR-2A	7.9	5	Yes	2
SSAH-301	SPLIT SYSTEM CONDENSING UNIT				208	1	2		INT	-	-	(3X) (30A) 2-#10 CU, #10 CU GND - 3/4"	1-CR-TR-3A	7.9	5	Yes	2
SSAH-TBD	SPLIT SYSTEM CONDENSING UNIT				208	1	2		INT	-	-	(3X) (30A) 2-#10 CU, #10 CU GND - 3/4"	1-CR-TR-4A	7.9	5	Yes	2
SSCU-132	SPLIT SYSTEM CONDENSING UNIT	20	25	30	208	1	2	3330	INT	ELECTRICAL	30A/2P/208V FUSED DISCONNECT SWITCH	(3X) (30A) 2-#10 CU, #10 CU GND - 3/4"	1-CR-TR-1A	7.9	5	Yes	1
SSCU-236	SPLIT SYSTEM CONDENSING UNIT	20	25	30	208	1	2	3330	INT	ELECTRICAL	30A/2P/208V FUSED DISCONNECT SWITCH	(3X) (30A) 2-#10 CU, #10 CU GND - 3/4"	1-CR-TR-2A	7.9	5	Yes	1
SSCU-301	SPLIT SYSTEM CONDENSING UNIT	20	25	30	208	1	2	3330	INT	ELECTRICAL	30A/2P/208V FUSED DISCONNECT SWITCH	(3X) (30A) 2-#10 CU, #10 CU GND - 3/4"	1-CR-TR-3A	7.9	5	Yes	1
SSCU-TBD	SPLIT SYSTEM CONDENSING UNIT	0.4	1		208	1	2	1960					1-CR-TR-4A	7.9		Yes	
LH-TBD	UNIT HEATER	12.5			120	1	1	1500	INT	MANUFACTURER	-	(2X) (20A) 2-#12 CU, #12 CU GND - 3/4"	1-TR-4A	4		No	

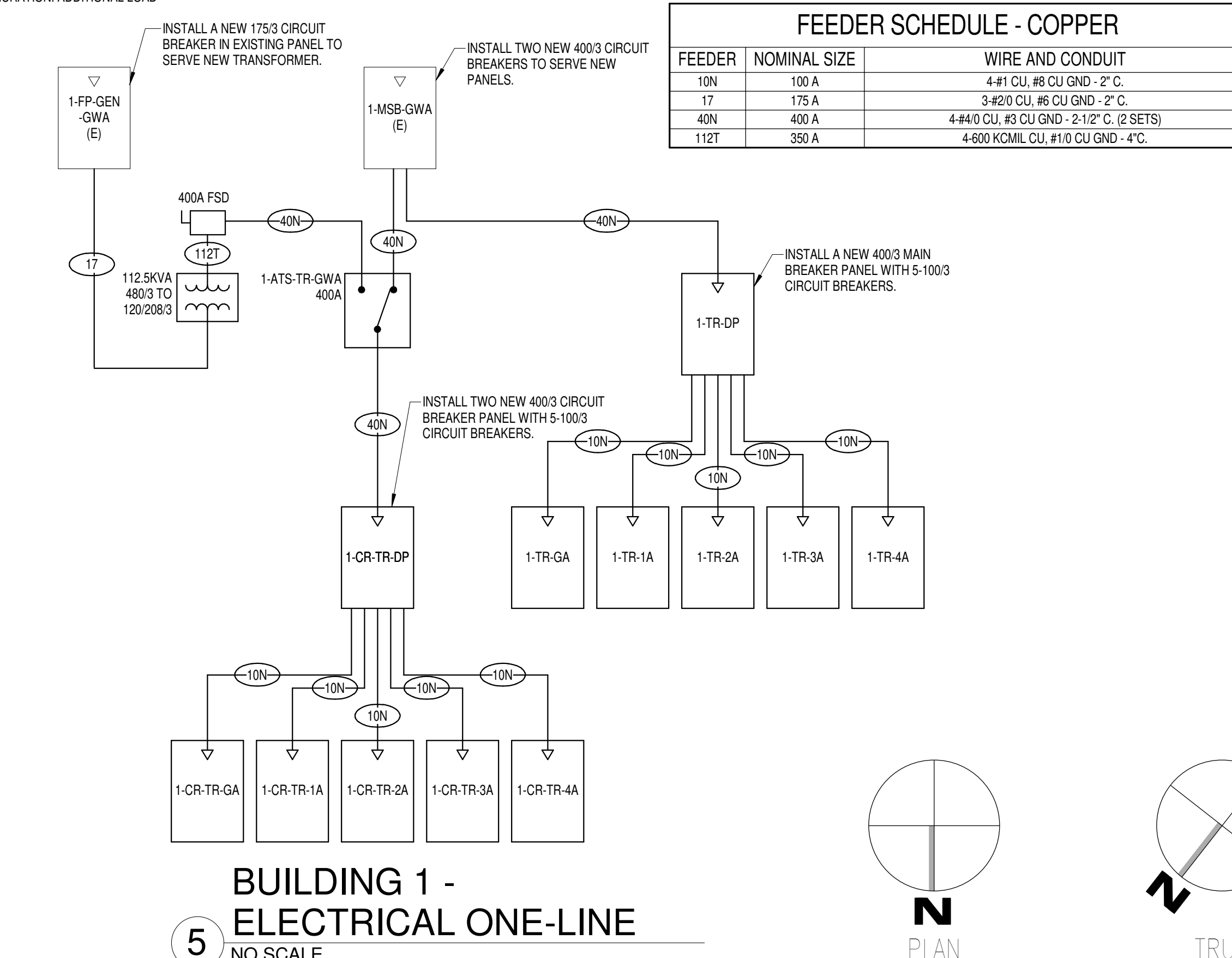
REMARKS: (EQUIPMENT CONNECTION SCHEDULE)  
1. CONTROLS BETWEEN INDOOR AND OUTDOOR UNITS - INCLUDE CONTROL WIRING IN CONDUIT BETWEEN INDOOR AND OUTDOOR UNIT PER MANUFACTURERS REQUIREMENTS.  
2. "CONTROL TYPE" - PROVIDE CONTROL AND CONNECTIONS "INT" - CONTROLS ARE MANUFACTURED INTEGRAL TO THE EQUIPMENT (SELF-CONTAINED).

PANEL: 1-CR-TR-GA												
LOCATION: TR 1				VOLTS: 208/120 WYE				MAINS TYPE: MLO				
SUPPLY FROM: 1-CR-TR-DP				PHASES: 3				MCB/MLO RATING: 100 A				
BRANCH: EMERGENCY				WIRES: 4				MCS OPTIONS:				
SERVICE RATED: No				INTEGRAL SPD: Yes				SECTIONS: 1				
MOUNTING: SURFACE				AVAILABLE SCC (KA): 10				MOUNTING: SURFACE				
NEMA ENCLOSURE: NEMA 1								NEMA ENCLOSURE: NEMA 1				
CKT	CIRCUIT DESCRIPTION	OPT	RATING	POLES	A	B	C	POLES	RATING	OPT	CIRCUIT DESCRIPTION	CKT
1	REC - IT RACK TR-1		20 A	3	1667 VA	900 VA		1	20 A		REC - TR-1	2
3	REC - IT RACK TR-1		20 A	3	1667 VA	132 VA		1	20 A		LTG - TR-1	4
5					1667 VA	1667 VA	1667 VA	3	20 A		REC - IT RACK TR-1	6
7					1667 VA	1667 VA	1667 VA	3	20 A		REC - IT RACK TR-1	8
9	REC - IT RACK TR-1		20 A	3			1667 VA	3	20 A		REC - IT RACK TR-1	10
11					1667 VA	1667 VA	1667 VA	3	20 A		REC - IT RACK TR-1	12
13					1667 VA	1667 VA	1667 VA	3	20 A		REC - IT RACK TR-1	14
15	REC - IT RACK TR-1		20 A	3			1667 VA	1	--	--	SPACE	16
17							1667 VA	1	--	--	SPACE	18
19	SPACE		--	--	1	--	--	1	--	--	SPACE	20
21	SPACE		--	--	1	--	--	1	--	--	SPACE	22
23	SPACE		--	--	1	--	--	1	--	--	SPACE	24
TOTAL LOAD:					9233 VA	8465 VA	8333 VA					
TOTAL AMPS:					77 A	71 A	69 A					
LOAD CLASSIFICATION				CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS					
LTG				132 VA	125.00%	165 VA	CONNECTED LOAD: 26032 VA					
PWR-C				25000 VA	125.00%	31250 VA	CONNECTED CURRENT: 72 A					
REC				900 VA	100.00%	900 VA	DEMAND LOAD: 32315 VA					
							DEMAND CURRENT: 89 A					
							CONSIDER 125% DEMAND: 40394 A					
							EQUIPMENT AMPS: 100 A					
							FEEDER AVAILABLE: 10 %					
							SPARE CAPACITY: 10 A					

REMARKS: (AUTOMATIC TRANSFER SWITCH SCHEDULE)  
1. NOT USED.  
GENERAL NOTES: (AUTOMATIC TRANSFER SWITCH SCHEDULE)  
A. REFER TO DEFINITIONS BELOW FOR CLARIFICATIONS OF REQUIREMENTS.  
B. "MIN 3 CYCLE WCR" AND "MIN 30 CYCLE WCR" - VALUE INDICATED IS AVAILABLE SHORT CIRCUIT CURRENT (SCC) IN KILOAMPS AT THE EQUIPMENT BASED ON PRELIMINARY DESIGN PHASE CALCULATIONS. EQUIPMENT SCOR SHALL BE MINIMUM 120% OF THE AVAILABLE SCC AT THE DURATION INDICATED. RATING SHALL BE ADJUSTED IF REQUIRED BASED ON FINAL SCC CALCULATION.  
C. "PRIORITY" - GENERATOR LOADING AND ATS LOAD SHEDDING SHALL BE SETUP BASED ON THE FOLLOWING PRIORITY LEVELS WITH THE LOWEST NUMBER BEING THE FIRST LOAD STEP AND THE HIGHEST NUMBER BEING THE LAST LOAD STEP. QUANTITY OF LOAD STEPS SHALL BE MINIMUM REQUIRED FOR SYSTEM CONFIGURATION. ADDITIONAL LOAD STEPS MAY BE ADDED TO ASSIST WITH GENERATOR STABILITY.  
a. "1" - POWER MUST BE TRANSFERRED TO LOAD FROM GENERATOR WITHIN 10 SECONDS. LOAD CANNOT BE SHED.  
b. "2,3,4, ETC." - LOAD CAN BE SHED. HIGHEST VALUES SHALL BE SHED FIRST.

PANEL: 1-TR-GA												
LOCATION: TR 1				VOLTS: 208/120 WYE				MAINS TYPE: MLO				
SUPPLY FROM: 1-TR-DP				PHASES: 3				MCB/MLO RATING: 100 A				
BRANCH: NORMAL				WIRES: 4				MCS OPTIONS:				
SERVICE RATED: No				INTEGRAL SPD: Yes				SECTIONS: 1				
MOUNTING: SURFACE				AVAILABLE SCC (KA): 10				MOUNTING: SURFACE				
NEMA ENCLOSURE: NEMA 1								NEMA ENCLOSURE: NEMA 1				
CKT	CIRCUIT DESCRIPTION	OPT	RATING	POLES	A	B	C	POLES	RATING	OPT	CIRCUIT DESCRIPTION	CKT
1	REC - IT RACK TR-1		20 A	3	1667 VA	900 VA		1	20 A		REC - TR-1	2
3	REC - IT RACK TR-1		20 A	3	1667 VA	1667 VA		1	20 A		LTG - TR-1	4
5					1667 VA	1667 VA	1667 VA	3	20 A		REC - IT RACK TR-1	6
7					1667 VA	1667 VA	1667 VA	3	20 A		REC - IT RACK TR-1	8
9	REC - IT RACK TR-1		20 A	3			1667 VA	3	20 A		REC - IT RACK TR-1	10
11					1667 VA	1667 VA	1667 VA	3	20 A		REC - IT RACK TR-1	12
13					1667 VA	1667 VA	1667 VA	3	20 A		REC - IT RACK TR-1	14
15	REC - IT RACK TR-1		20 A	3			1667 VA	1	20 A		SPACE	16
17							1667 VA	1	--	--	SPACE	18
19	SPACE		--	--	1	--	--	1	--	--	SPACE	20
21	SPACE		--	--	1	--	--	1	--	--	SPACE	22
23	SPACE		--	--	1	--	--	1	--	--	SPACE	24
TOTAL LOAD:					9233 VA		8333 VA					
TOTAL AMPS:					77 A		69 A					
LOAD CLASSIFICATION				CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS					
LTG				132 VA	125.00%	165 VA	CONNECTED LOAD: 26032 VA					
PWR-C				25000 VA	125.00%	31250 VA	CONNECTED CURRENT: 72 A					
REC				900 VA	100.00%	900 VA	DEMAND LOAD: 32150 VA					
							DEMAND CURRENT: 89 A					
							CONSIDER 125% DEMAND: 40188 A					
							EQUIPMENT AMPS: 100 A					
							FEEDER AVAILABLE: 10 %					
							SPARE CAPACITY: 11 A					

AUTOMATIC TRANSFER SWITCH SCHEDULE											
NAME	AMPS	VOLTAGE	PHASE	NUMBER OF POLES	BYPASS ISOLATION	TRANSITION TYPE	MIN. 3 CYCLE WCR	MIN. 30 CYCLE WCR	PRIORITY	REMARKS	
1-ATS-TR-GWA	400 A	208 V	3	3	Yes	CLOSED			1		



5 BUILDING 1 - ELECTRICAL ONE-LINE  
NO SCALE

FEEDER SCHEDULE - COPPER		
FEEDER	NOMINAL SIZE	WIRE AND CONDUIT
10N	100 A	4-#1 CU, #6 CU GND - 2" C.
17	175 A	3-#20 CU, #6 CU GND - 2" C.
40N	400 A	4-#40 CU, #5 CU GND - 2-1/2" C. (2 SETS)
172T	350 A	4-#60 KCMIL CU, #10 CU GND - 4" C.

Revisions:	Date:

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NC Architectural License No.: 51254

**Office of Construction and Facilities Management**

**U.S. Department of Veterans Affairs**

Drawing Title  
**BUILDING 1 GROUND LEVEL - ELECTRICAL**

Approved:

Phase  
**100% CONSTRUCTION DOCUMENTS**

**FULLY SPRINKLERED**

Project Title  
**EHRM INFRASTRUCTURE UPGRADES**

Location  
**TUSCALOOSA VAMC, TUSCALOOSA, AL.**

Issue Date  
**03/08/2024**

Checked  
**CGH**

Drawn  
**MJJ**

Project Number  
**679-20-104**

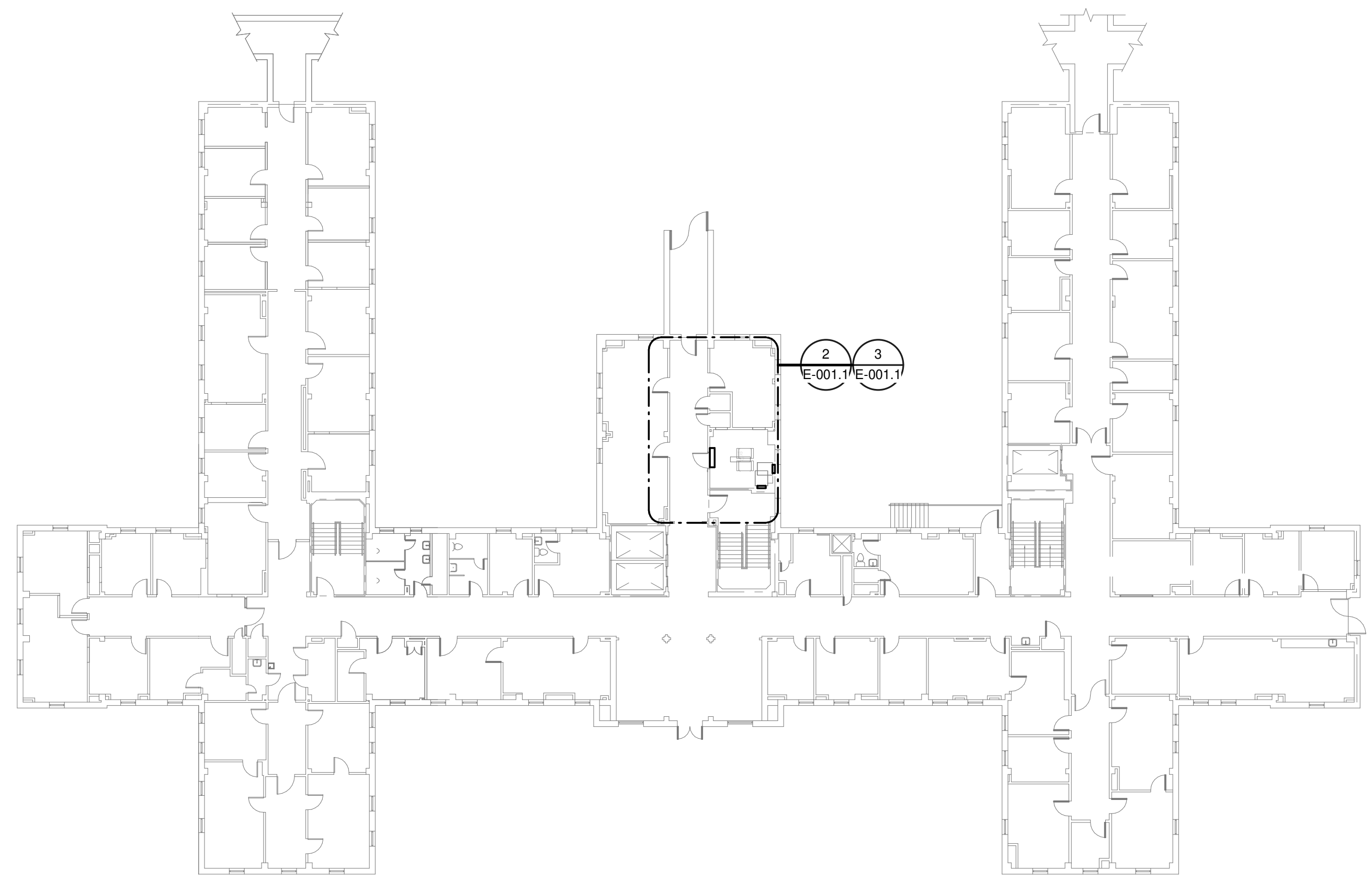
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Drawing Number  
**E-001.G**

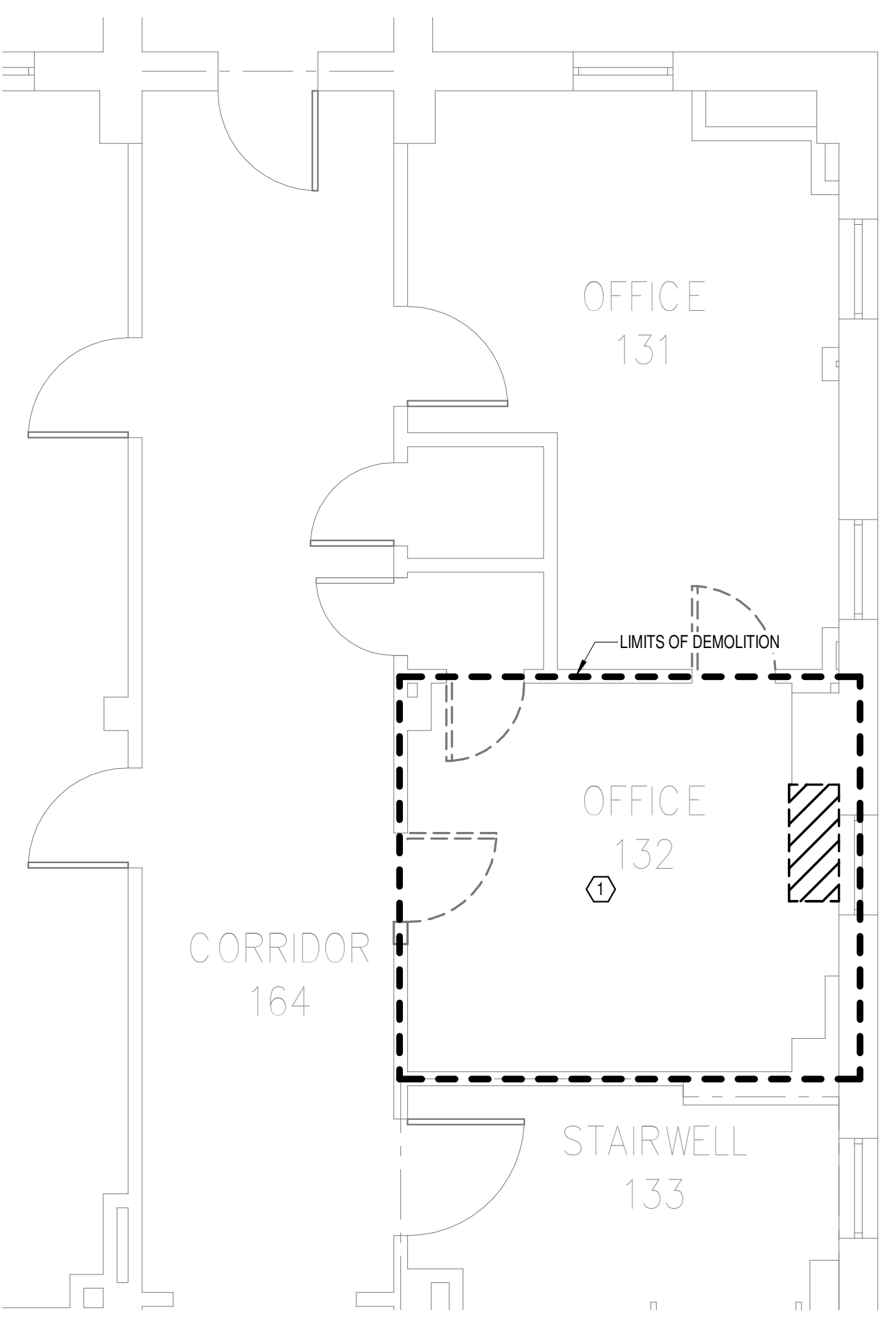
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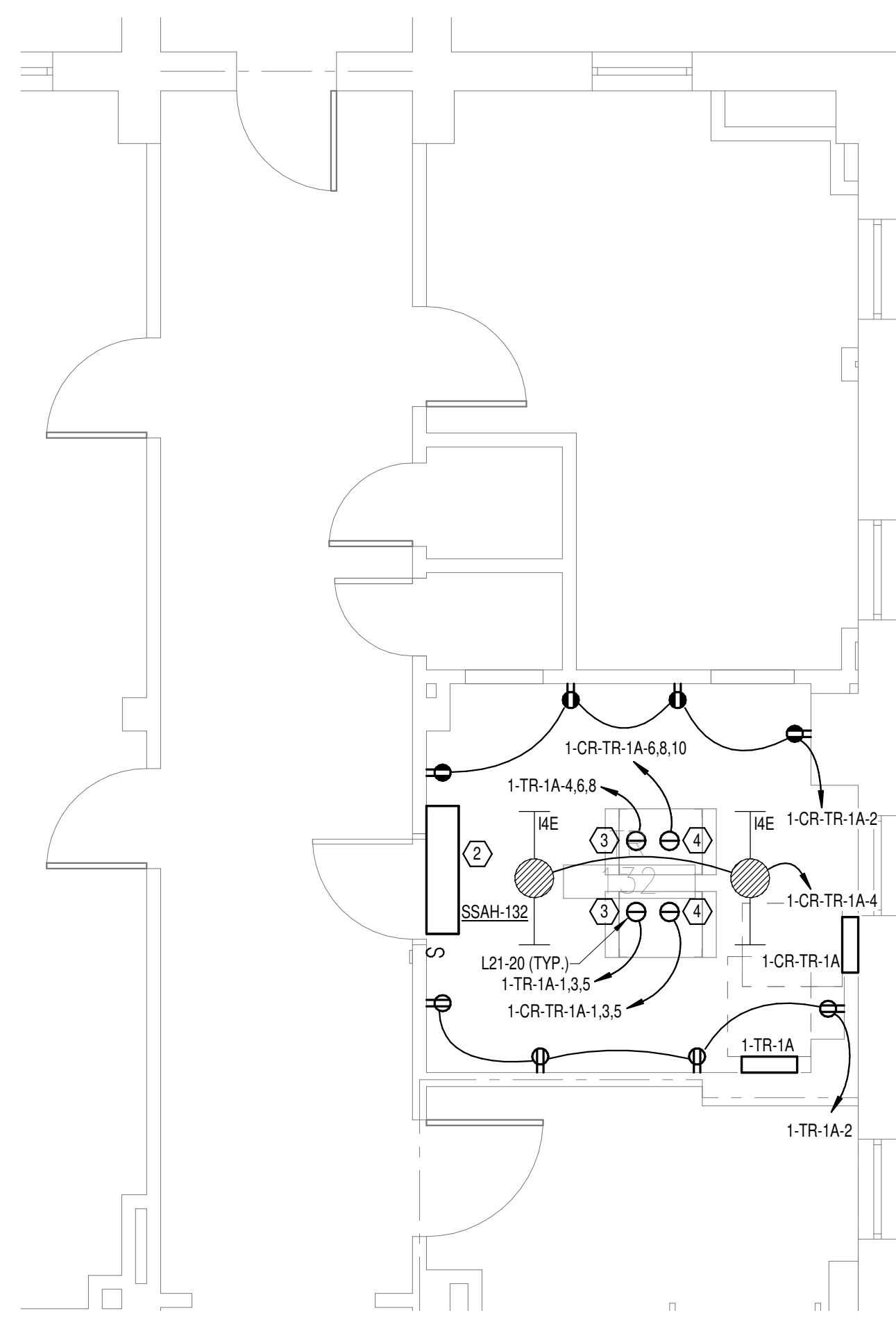
**GENERAL NOTES:**  
 A. REFER TO TELECOM, HVAC, AND FIRE PROTECTION DRAWINGS. COORDINATE LOCATION ON NEW LIGHTING FIXTURES, NEW ELECTRICAL PANELS, AND NEW CABLE TRAY MOUNTED RECEPTACLES WITH OTHER DISCIPLINES.  
**SHEET NOTES:**  
 1. REMOVE ALL EXISTING DEVICES AND WIRING BACK TO SOURCE. VISIT SITE TO DETERMINE FULL EXTENT OF DEMOLITION.  
 2. REFER TO EQUIPMENT CONNECTION SCHEDULE.  
 3. PROVIDE RECEPTACLE FOR BUS B. MOUNT RECEPTACLE TO CABLE TRAY ABOVE RACK.  
 4. PROVIDE RECEPTACLE FOR BUS A. MOUNT RECEPTACLE TO CABLE TRAY ABOVE RACK.



**OVERALL FLOOR PLAN  
 LEVEL 01 - ELECTRICAL**  
 1 NTS



**DEMOLITION FLOOR  
 PLAN LEVEL 01 -  
 ELECTRICAL**  
 2 1/4" = 1'-0"



**NEW FLOOR PLAN LEVEL  
 01 - ELECTRICAL**  
 3 1/4" = 1'-0"

**PANEL: 1-TR-1A**

LOCATION: TR 132  
 SUPPLY FROM: 1-TR-DP  
 BRANCH: NORMAL  
 SERVICE RATED: No  
 MOUNTING: SURFACE  
 NEMA ENCLOSURE: NEMA 1

VOLTS: 208/120 WYE  
 PHASES: 3  
 WIRES: 4  
 INTEGRAL SPD: Yes  
 AVAILABLE SCC (KA): 10

MAINS TYPE: MLO  
 MCB/MLO RATING: 100 A  
 MCB OPTIONS:  
 SECTIONS: 1  
 PANEL POLES: 24

CKT	CIRCUIT DESCRIPTION	OPT	RATING	POLES	A	B	C	POLES	RATING	OPT	CIRCUIT DESCRIPTION	CKT
1	REC - IT RACK TR-132		20 A	3	1667 VA	720 VA		1	20 A		REC - TR-132	2
3	REC - IT RACK TR-132		20 A	3	1667 VA	1667 VA	1667 VA	3	20 A		REC - IT RACK TR-132	4
5							1667 VA	1667 VA				6
7	SPARE	--	20 A	1	0 VA	1667 VA		1	20 A	--	SPARE	8
9	SPARE	--	20 A	1	0 VA	0 VA	0 VA	1	20 A	--	SPARE	10
11	SPARE	--	20 A	1	0 VA	0 VA	0 VA	1	20 A	--	SPARE	12
13	SPARE	--	20 A	1	0 VA	0 VA	0 VA	1	20 A	--	SPARE	14
15	SPARE	--	20 A	1	0 VA	0 VA	0 VA	1	20 A	--	SPARE	16
17	SPACE	--	--	1	--	--	--	1	--	--	SPACE	18
19	SPACE	--	--	1	--	--	--	1	--	--	SPACE	20
21	SPACE	--	--	1	--	--	--	1	--	--	SPACE	22
23	SPACE	--	--	1	--	--	--	1	--	--	SPACE	24
<b>TOTAL LOAD:</b>					4053 VA	3333 VA	3333 VA					
<b>TOTAL AMPS:</b>					34 A	28 A	28 A					

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS
PWR-C	10000 VA	125.00%	12500 VA	CONNECTED LOAD: 10720 VA
REC	720 VA	100.00%	720 VA	CONNECTED CURRENT: 30 A
				DEMAND LOAD: 13220 VA
				DEMAND CURRENT: 37 A
				CONSIDER 125% DEMAND: 16525 A
				EQUIPMENT AMPS: 100 A
				FEEDER AVAILABLE: 63 %
				SPARE CAPACITY: 63 A

**OPTIONS:**  
 CIRCUIT BREAKER OPTIONS SUFFIX: 'S' OR 'ST' - PROVIDE SHUNT TRIP CIRCUIT BREAKER / 'G' OR 'GFCI' - PROVIDE GFCI CIRCUIT BREAKER / 'GFP' - PROVIDE GFP CIRCUIT BREAKER / 'ERMS' - ENERGY REDUCING MAINTENANCE SWITCH / 'ZSI' - ZONE SELECTIVE INTERLOCKING / 'L' - PROVIDE CIRCUIT BREAKER WITH LOCKING PROVISIONS / 'R' - PROVIDE CIRCUIT BREAKER WITH RED MARKING

**GENERAL REMARKS:**  
 A. PANEL AIC (INTERRUPTING) RATING SHALL BE MINIMUM 120% OF THE AVAILABLE SCC (SHORT CIRCUIT CURRENT).  
 B. BUS B PANEL.  
 C. WHERE NEW PANELS ARE SHOWN AT TELECOM PLYWOOD LOCATIONS, MOUNT PANELS TO PLYWOOD.

**PANEL: 1-CR-TR-1A**

LOCATION: TR 132  
 SUPPLY FROM: 1-CR-TR-DP  
 BRANCH: EMERGENCY  
 SERVICE RATED: No  
 MOUNTING: SURFACE  
 NEMA ENCLOSURE: NEMA 1

VOLTS: 208/120 WYE  
 PHASES: 3  
 WIRES: 4  
 INTEGRAL SPD: Yes  
 AVAILABLE SCC (KA): 10

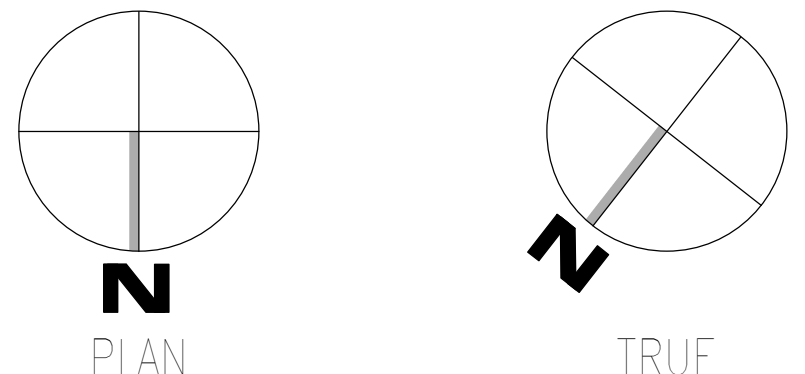
MAINS TYPE: MLO  
 MCB/MLO RATING: 100 A  
 MCB OPTIONS:  
 SECTIONS: 1  
 PANEL POLES: 24

CKT	CIRCUIT DESCRIPTION	OPT	RATING	POLES	A	B	C	POLES	RATING	OPT	CIRCUIT DESCRIPTION	CKT
1	REC - IT RACK TR-132		20 A	3	1667 VA	720 VA		1	20 A		REC - TR-132	2
3	REC - IT RACK TR-132		20 A	3	1667 VA	1667 VA	1667 VA	3	20 A		REC - IT RACK TR-132	4
5							1667 VA	1667 VA				6
7	SSCU-132/SSAH-132		30 A	2	1665 VA	1667 VA		3	20 A		REC - IT RACK TR-132	8
9	SPARE	--	20 A	1	0 VA	0 VA	0 VA	1	20 A	--	SPARE	10
11	SPARE	--	20 A	1	0 VA	0 VA	0 VA	1	20 A	--	SPARE	12
13	SPARE	--	20 A	1	0 VA	0 VA	0 VA	1	20 A	--	SPARE	14
15	SPARE	--	20 A	1	0 VA	0 VA	0 VA	1	20 A	--	SPARE	16
17	SPACE	--	--	1	--	--	--	1	--	--	SPACE	18
19	SPACE	--	--	1	--	--	--	1	--	--	SPACE	20
21	SPACE	--	--	1	--	--	--	1	--	--	SPACE	22
23	SPACE	--	--	1	--	--	--	1	--	--	SPACE	24
<b>TOTAL LOAD:</b>					5718 VA	5064 VA	3333 VA					
<b>TOTAL AMPS:</b>					50 A	44 A	28 A					

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS
LTG	66 VA	125.00%	83 VA	CONNECTED LOAD: 14116 VA
PWR-C	10000 VA	125.00%	12500 VA	CONNECTED CURRENT: 39 A
REC	720 VA	100.00%	720 VA	DEMAND LOAD: 17465 VA
MEQ-C	3330 VA	125.00%	4163 VA	DEMAND CURRENT: 48 A
				CONSIDER 125% DEMAND: 21831 A
				EQUIPMENT AMPS: 100 A
				FEEDER AVAILABLE: 51 %
				SPARE CAPACITY: 52 A

**OPTIONS:**  
 CIRCUIT BREAKER OPTIONS SUFFIX: 'S' OR 'ST' - PROVIDE SHUNT TRIP CIRCUIT BREAKER / 'G' OR 'GFCI' - PROVIDE GFCI CIRCUIT BREAKER / 'GFP' - PROVIDE GFP CIRCUIT BREAKER / 'ERMS' - ENERGY REDUCING MAINTENANCE SWITCH / 'ZSI' - ZONE SELECTIVE INTERLOCKING / 'L' - PROVIDE CIRCUIT BREAKER WITH LOCKING PROVISIONS / 'R' - PROVIDE CIRCUIT BREAKER WITH RED MARKING

**GENERAL REMARKS:**  
 A. PANEL AIC (INTERRUPTING) RATING SHALL BE MINIMUM 120% OF THE AVAILABLE SCC (SHORT CIRCUIT CURRENT).  
 B. BUS A PANEL.  
 C. WHERE NEW PANELS ARE SHOWN AT TELECOM PLYWOOD LOCATIONS, MOUNT PANELS TO PLYWOOD.



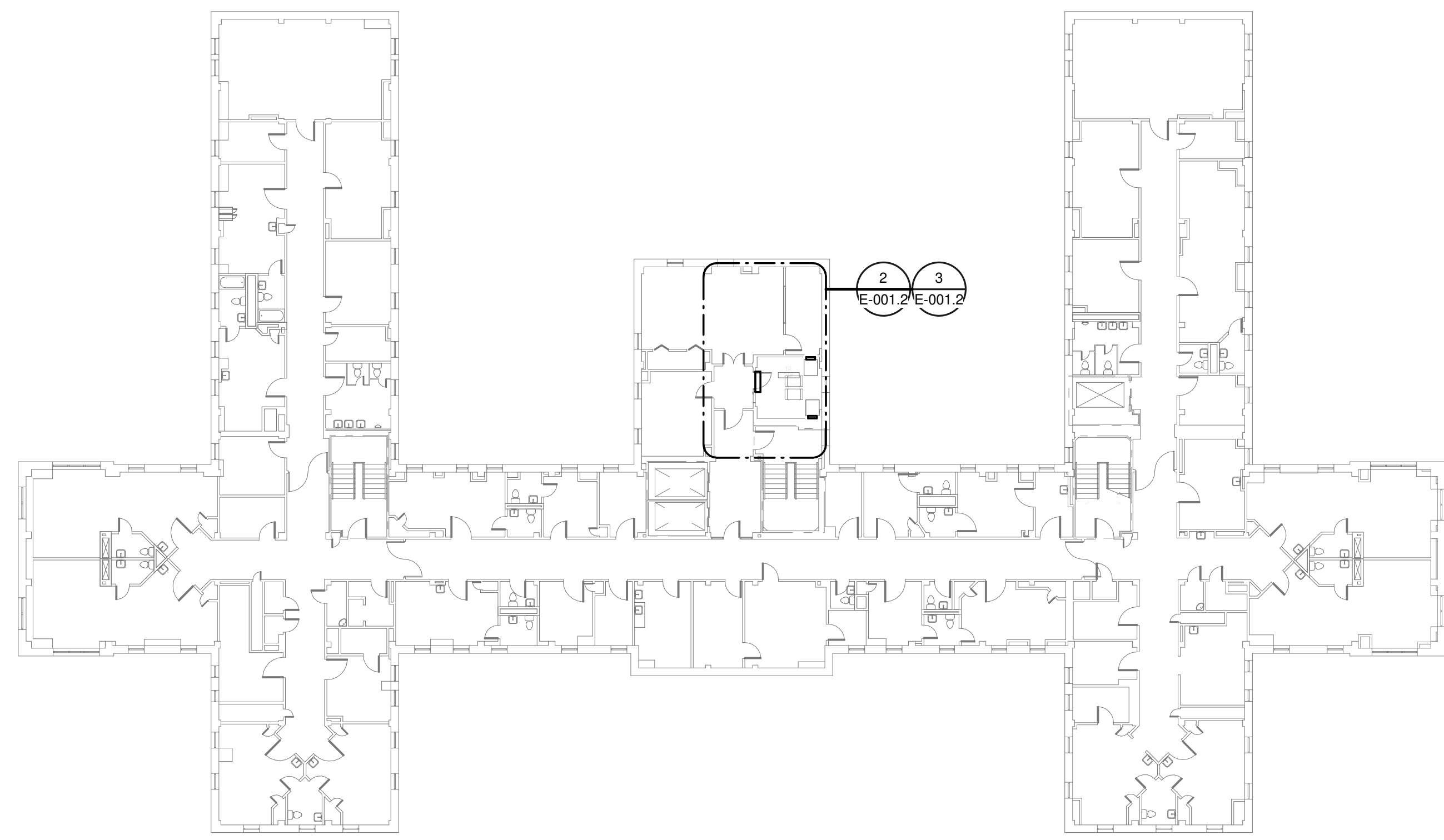
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 VA FORM 08 - 6231

<b>Revisions:</b> Date:	<b>CONSULTANT</b>  Wiley Wilson 127 Nationwide Drive Lynchburg, VA 24502 Phone: 434.947.1901 www.wileywilson.com	<b>ARCHITECT/ENGINEER OF RECORD</b>  Atriax, pllc 102 3rd Avenue, NE PO Box 1629, Hickory, NC 28603 Phone: 828.315.9962 Fax: 828.315.9964 NC Engineering License No.: P-0214 NC Architectural License No.: 51254	<b>STAMP</b> 	Office of Construction and Facilities Management U.S. Department of Veterans Affairs	Drawing Title <b>BUILDING 1 LEVEL 01 -                  ELECTRICAL</b>	Phase <b>100% CONSTRUCTION                  DOCUMENTS</b>	Project Title <b>EHRM INFRASTRUCTURE UPGRADES</b>	Project Number <b>679-20-104</b>	
					Approved:	<b>FULLY SPRINKLERED</b>	Location <b>TUSCALOOSA VAMC, TUSCALOOSA, AL.</b>	Building Number <b>1</b>	
						Issue Date <b>03/08/2024</b>	Checked <b>CGH</b>	Drawn <b>MJJ</b>	Drawing Number <b>E-001.1</b>



**GENERAL NOTES:**  
 A. REFER TO TELECOM, HVAC, AND FIRE PROTECTION DRAWINGS. COORDINATE LOCATION ON NEW LIGHTING FIXTURES, NEW ELECTRICAL PANELS, AND NEW CABLE TRAY MOUNTED RECEPTACLES WITH OTHER DISCIPLINES.

**SHEET NOTES:**  
 1. REMOVE ALL EXISTING DEVICES AND WIRING BACK TO SOURCE. VISIT SITE TO DETERMINE FULL EXTENT OF DEMOLITION.  
 2. REFER TO EQUIPMENT CONNECTION SCHEDULE.  
 3. PROVIDE RECEPTACLE FOR BUS B. MOUNT RECEPTACLE TO CABLE TRAY ABOVE RACK.  
 4. PROVIDE RECEPTACLE FOR BUS A. MOUNT RECEPTACLE TO CABLE TRAY ABOVE RACK.



**OVERALL FLOOR PLAN  
 LEVEL 02 - ELECTRICAL**  
 1 NTS

**PANEL: 1-TR-2A**

LOCATION: TR 236  
 SUPPLY FROM: 1-TR-DP  
 BRANCH: NORMAL  
 SERVICE RATED: No  
 MOUNTING: SURFACE  
 NEMA ENCLOSURE: NEMA 1

VOLTS: 208/120 WYE  
 PHASES: 3  
 WIRES: 4  
 INTEGRAL SPD: Yes  
 AVAILABLE SCC (KA): 10

MAINS TYPE: MLO  
 MCB/MLO RATING: 100 A  
 WIRES: 4  
 MCB OPTIONS:  
 SECTIONS: 1  
 PANEL POLES: 24

CKT	CIRCUIT DESCRIPTION	OPT	RATING	POLES	A	B	C	POLES	RATING	OPT	CIRCUIT DESCRIPTION	CKT
3	REC - IT RACK TR-236		20 A	3	1667 VA   720 VA	1667 VA   1667 VA		1	20 A		REC - TR-236	2
5							1667 VA   1667 VA	3	20 A		REC - IT RACK TR-236	6
7	SPARE	--	20 A	1	0 VA	1667 VA		1	20 A	--	SPARE	8
9	SPARE	--	20 A	1		0 VA	0 VA	1	20 A	--	SPARE	10
11	SPARE	--	20 A	1		0 VA	0 VA	1	20 A	--	SPARE	12
13	SPARE	--	20 A	1	0 VA	0 VA		1	20 A	--	SPARE	14
15	SPARE	--	20 A	1		0 VA	0 VA	1	20 A	--	SPARE	16
17	SPACE	--	--	1				1	--	--	SPACE	18
19	SPACE	--	--	1				1	--	--	SPACE	20
21	SPACE	--	--	1				1	--	--	SPACE	22
23	SPACE	--	--	1				1	--	--	SPACE	24
<b>TOTAL LOAD:</b>					4053 VA	3333 VA	3333 VA					
<b>TOTAL AMPS:</b>					34 A	28 A	28 A					

**LOAD CLASSIFICATION**

	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS
PWR-C	10000 VA	125.00%	12500 VA	CONNECTED LOAD: 10720 VA
REC	720 VA	100.00%	720 VA	CONNECTED CURRENT: 30 A
				DEMAND LOAD: 13220 VA
				DEMAND CURRENT: 37 A
				CONSIDER 125% DEMAND: 16525 A
				EQUIPMENT AMPS: 100 A
				FEEDER AVAILABLE:
				SPARE CAPACITY: 63 %
				63 A

**OPTIONS:**  
 CIRCUIT BREAKER OPTIONS SUFFIX: / 'S' OR 'ST' - PROVIDE SHUNT TRIP CIRCUIT BREAKER / 'G' OR 'GFCI' - PROVIDE GFCI CIRCUIT BREAKER / 'GFP' - PROVIDE GFP CIRCUIT BREAKER / 'ERMS' - ENERGY REDUCING MAINTENANCE SWITCH / 'ZSF' - ZONE SELECTIVE INTERLOCKING / 'L' - PROVIDE CIRCUIT BREAKER WITH LOCKING PROVISIONS / 'R' - PROVIDE CIRCUIT BREAKER WITH RED MARKING

**GENERAL REMARKS:**  
 A. PANEL AIC (INTERRUPTING) RATING SHALL BE MINIMUM 120% OF THE AVAILABLE SCC (SHORT CIRCUIT CURRENT).  
 B. BUS B PANEL.  
 C. WHERE NEW PANELS ARE SHOWN AT TELECOM PLYWOOD LOCATIONS, MOUNT PANELS TO PLYWOOD.

**PANEL: 1-CR-TR-2A**

LOCATION: TR 236  
 SUPPLY FROM: 1-CR-TR-DP  
 BRANCH: EMERGENCY  
 SERVICE RATED: No  
 MOUNTING: SURFACE  
 NEMA ENCLOSURE: NEMA 1

VOLTS: 208/120 WYE  
 PHASES: 3  
 WIRES: 4  
 INTEGRAL SPD: Yes  
 AVAILABLE SCC (KA): 10

MAINS TYPE: MLO  
 MCB/MLO RATING: 100 A  
 WIRES: 4  
 MCB OPTIONS:  
 SECTIONS: 1  
 PANEL POLES: 24

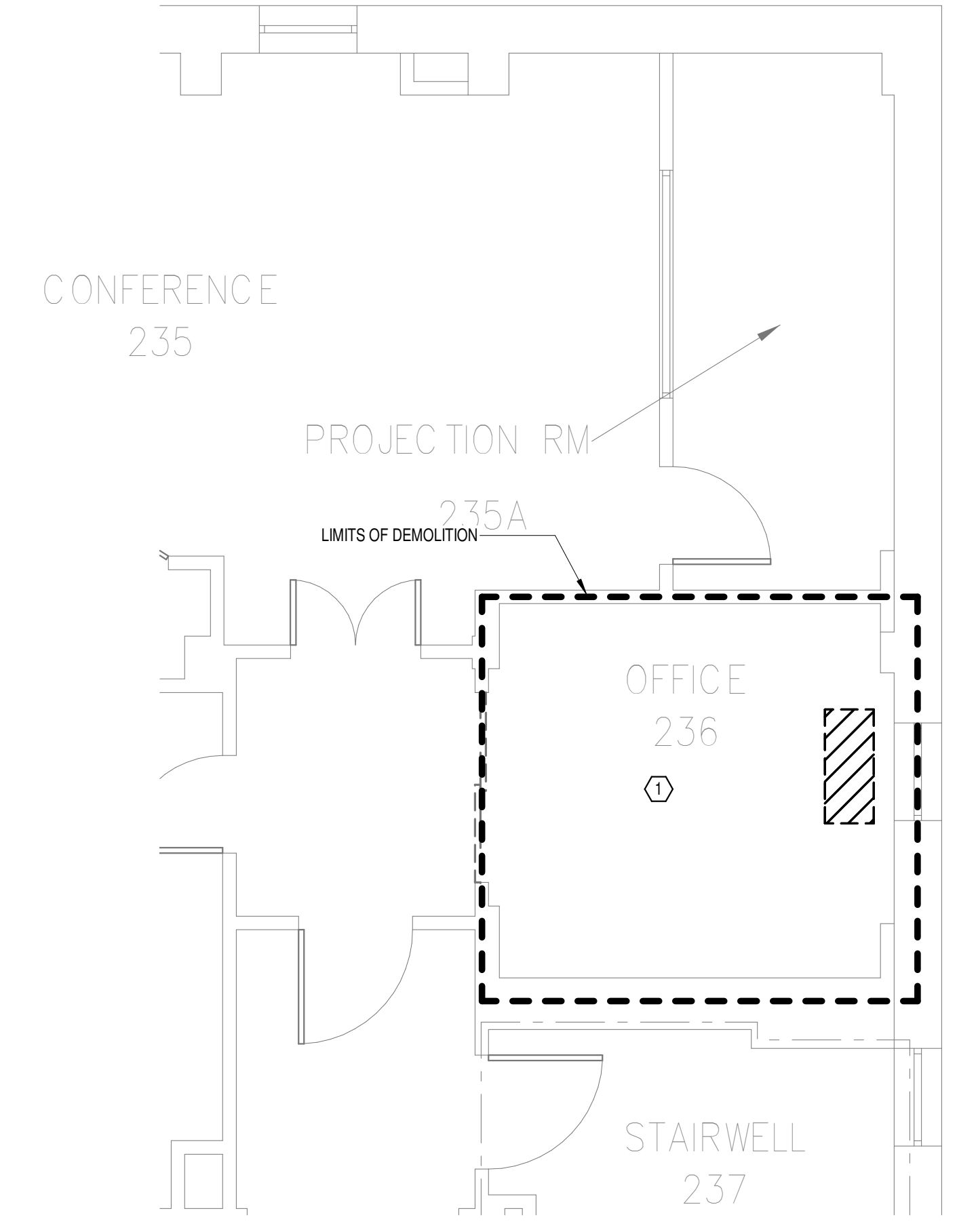
CKT	CIRCUIT DESCRIPTION	OPT	RATING	POLES	A	B	C	POLES	RATING	OPT	CIRCUIT DESCRIPTION	CKT
3	REC - IT RACK TR-236		20 A	3	1667 VA   720 VA	1667 VA   66 VA		1	20 A		REC - TR-236	2
5							1667 VA   1667 VA	3	20 A		LTG - TR-236	4
7	SSCU-236/SSAH-236		30 A	2	1665 VA   1667 VA			3	20 A		REC - IT RACK TR-236	6
9	SPARE	--	20 A	1			0 VA	0 VA	1	20 A	SPARE	8
11	SPARE	--	20 A	1			0 VA	0 VA	1	20 A	SPARE	10
13	SPARE	--	20 A	1	0 VA	0 VA		1	20 A	--	SPARE	12
15	SPARE	--	20 A	1		0 VA	0 VA	1	20 A	--	SPARE	14
17	SPACE	--	--	1				1	--	--	SPACE	16
19	SPACE	--	--	1				1	--	--	SPACE	18
21	SPACE	--	--	1				1	--	--	SPACE	20
23	SPACE	--	--	1				1	--	--	SPACE	22
<b>TOTAL LOAD:</b>					5718 VA	5064 VA	3333 VA					
<b>TOTAL AMPS:</b>					50 A	44 A	28 A					

**LOAD CLASSIFICATION**

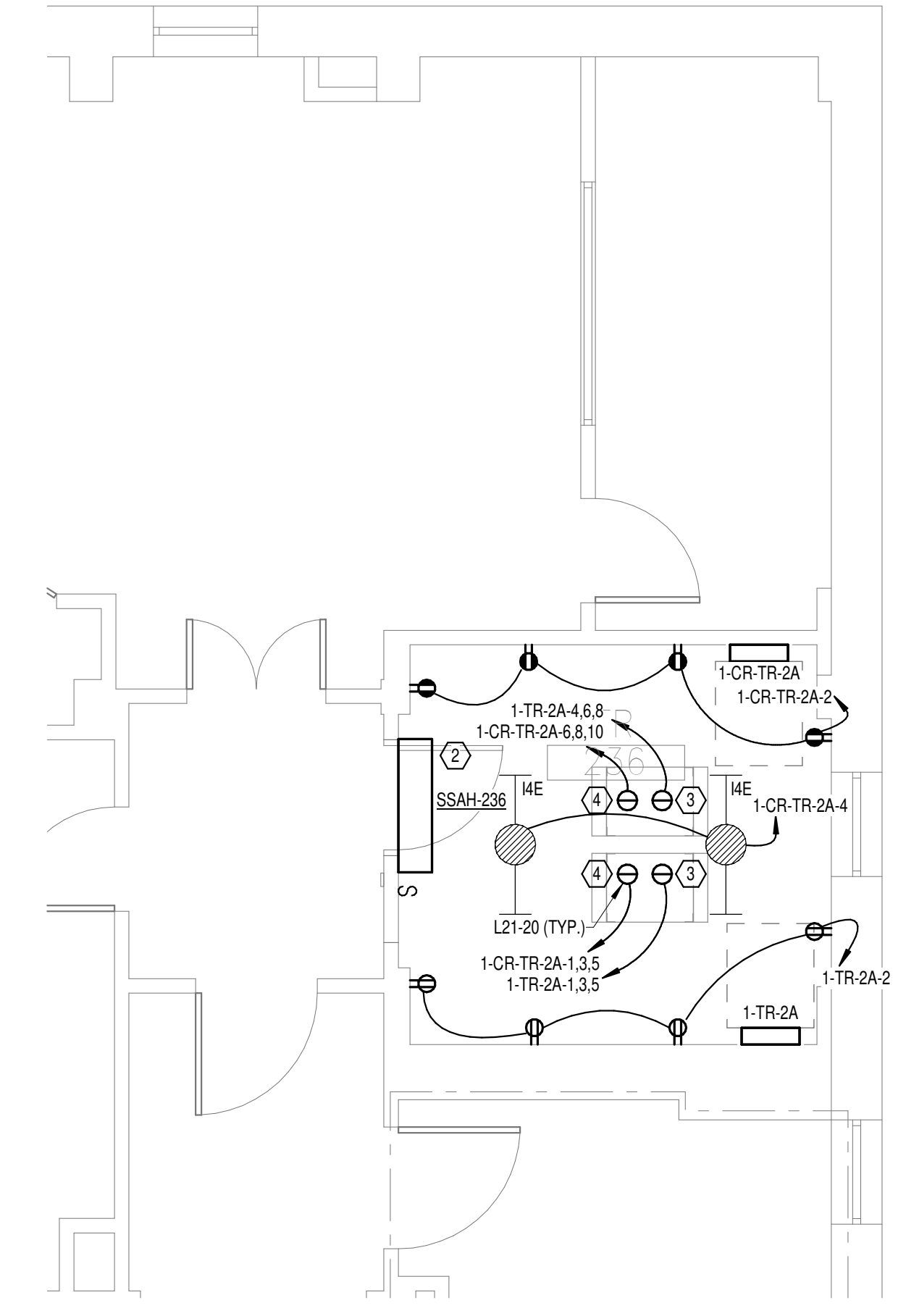
	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS
LTG	66 VA	125.00%	83 VA	CONNECTED LOAD: 14116 VA
PWR-C	10000 VA	125.00%	12500 VA	CONNECTED CURRENT: 39 A
REC	720 VA	100.00%	720 VA	DEMAND LOAD: 17485 VA
MEQ-C	3330 VA	125.00%	4163 VA	DEMAND CURRENT: 48 A
				CONSIDER 125% DEMAND: 21831 A
				EQUIPMENT AMPS: 100 A
				FEEDER AVAILABLE:
				SPARE CAPACITY: 51 %
				52 A

**OPTIONS:**  
 CIRCUIT BREAKER OPTIONS SUFFIX: / 'S' OR 'ST' - PROVIDE SHUNT TRIP CIRCUIT BREAKER / 'G' OR 'GFCI' - PROVIDE GFCI CIRCUIT BREAKER / 'GFP' - PROVIDE GFP CIRCUIT BREAKER / 'ERMS' - ENERGY REDUCING MAINTENANCE SWITCH / 'ZSF' - ZONE SELECTIVE INTERLOCKING / 'L' - PROVIDE CIRCUIT BREAKER WITH LOCKING PROVISIONS / 'R' - PROVIDE CIRCUIT BREAKER WITH RED MARKING

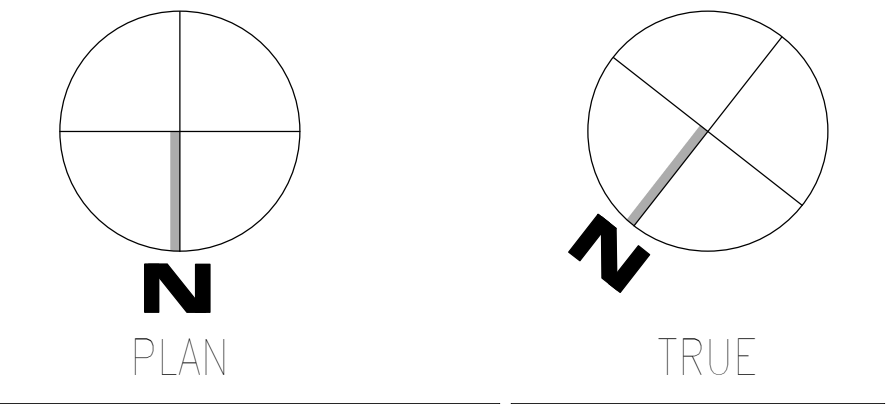
**GENERAL REMARKS:**  
 A. PANEL AIC (INTERRUPTING) RATING SHALL BE MINIMUM 120% OF THE AVAILABLE SCC (SHORT CIRCUIT CURRENT).  
 B. BUS A PANEL.  
 C. WHERE NEW PANELS ARE SHOWN AT TELECOM PLYWOOD LOCATIONS, MOUNT PANELS TO PLYWOOD.



**DEMOLITION FLOOR  
 PLAN LEVEL 02 -  
 ELECTRICAL**  
 2 1/4" = 1'-0"



**NEW FLOOR PLAN LEVEL  
 02 - ELECTRICAL**  
 3 1/4" = 1'-0"



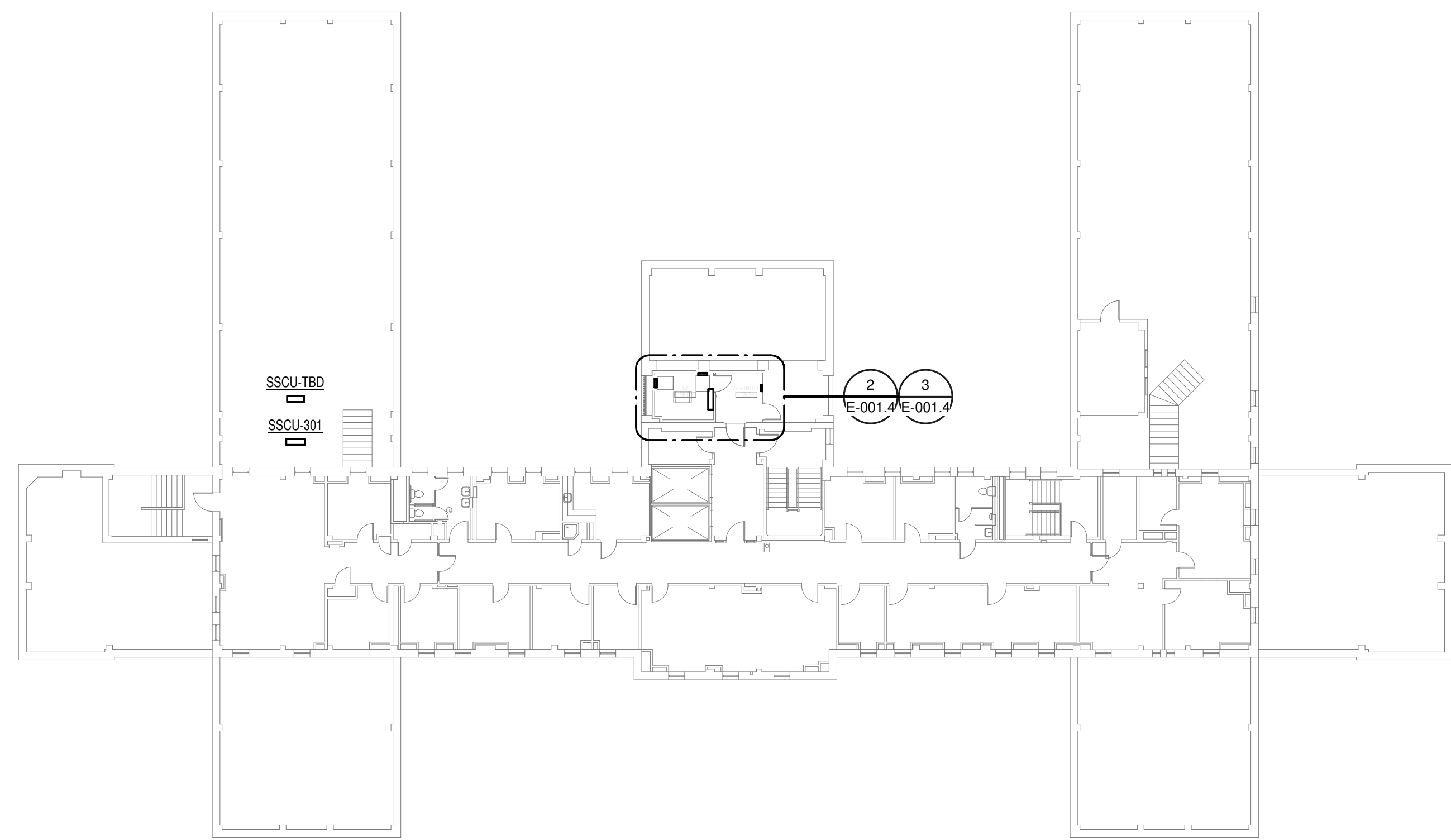
<b>Revisions:</b> Date:	<b>CONSULTANT</b>  Wiley Wilson 127 Nationwide Drive Lynchburg, VA 24502 Phone: 434.947.1901 www.wileywilson.com	<b>ARCHITECT/ENGINEER OF RECORD</b>  Atriax, pllc 102 3rd Avenue, NE PO Box 1629, Hickory, NC 28603 Phone: 828.315.9962 Fax: 828.315.9964 NC Engineering License No.: P-0214 NC Architectural License No.: 51254	<b>STAMP</b> 	<b>Office of Construction and Facilities Management</b> U.S. Department of Veterans Affairs	Drawing Title <b>BUILDING 1 LEVEL 02 - ELECTRICAL</b>	Phase <b>100% CONSTRUCTION DOCUMENTS</b>	Project Title <b>EHRM INFRASTRUCTURE UPGRADES</b>	Project Number <b>679-20-104</b>
					Approved:	<b>FULLY SPRINKLERED</b>	Location <b>TUSCALOOSA VAMC, TUSCALOOSA, AL.</b>	Drawing Number <b>E-001.2</b>



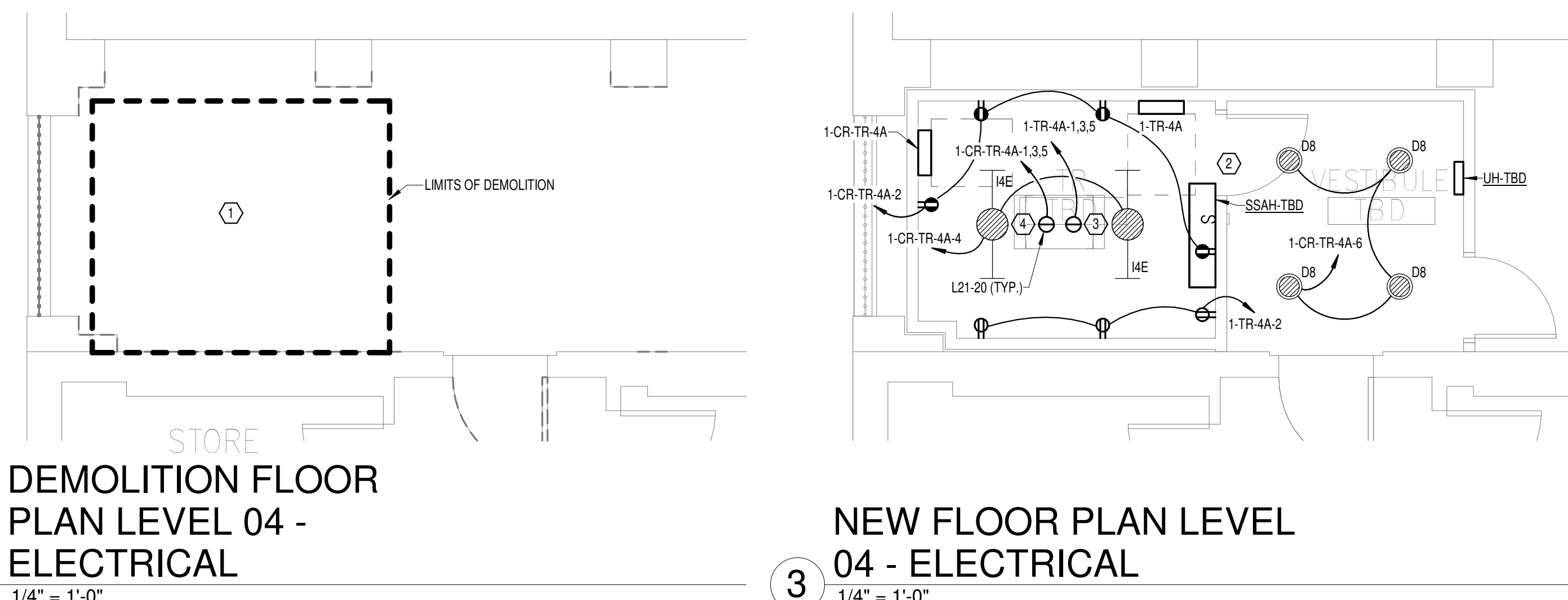




- GENERAL NOTES:**
- REFER TO TELECOM, HVAC, AND FIRE PROTECTION DRAWINGS. COORDINATE LOCATION ON NEW LIGHTING FIXTURES, NEW ELECTRICAL PANELS, AND NEW CABLE TRAY MOUNTED RECEPTACLES WITH OTHER DISCIPLINES.
- SHEET NOTES:**
- REMOVE ALL EXISTING DEVICES AND WIRING BACK TO SOURCE. VISIT SITE TO DETERMINE FULL EXTENT OF DEMOLITION.
  - REFER TO EQUIPMENT CONNECTION SCHEDULE.
  - PROVIDE RECEPTACLE FOR BUS B. MOUNT RECEPTACLE TO CABLE TRAY ABOVE RACK.
  - PROVIDE RECEPTACLE FOR BUS A. MOUNT RECEPTACLE TO CABLE TRAY ABOVE RACK.



**OVERALL FLOOR PLAN  
LEVEL 04 - ELECTRICAL**  
1  
NTS



**DEMOLITION FLOOR  
PLAN LEVEL 04 -  
ELECTRICAL**  
2  
1/4" = 1'-0"

**NEW FLOOR PLAN LEVEL  
04 - ELECTRICAL**  
3  
1/4" = 1'-0"

**PANEL: 1-CR-TR-4A**

LOCATION: TR  
SUPPLY FROM: 1-CR-TR-DP  
BRANCH: EMERGENCY  
SERVICE RATED: No  
MOUNTING: SURFACE  
NEMA ENCLOSURE: NEMA 1

VOLTS: 208/120 WYE  
PHASES: 3  
WIRES: 4  
INTEGRAL SPD: Yes  
AVAILABLE SCC (KA): 10

MAINS TYPE: MLO  
MCB/MLO RATING: 100 A  
MCB OPTIONS:  
SECTIONS: 1  
PANEL POLES: 24

CKT	CIRCUIT DESCRIPTION	OPT	RATING	POLES	A	B	C	POLES	RATING	OPT	CIRCUIT DESCRIPTION	CKT	
1	REC - IT RACK TR(TBD)		20 A	3	1667 VA	720 VA		1	20 A		REC - TR(TBD)	2	
3					1667 VA	66 VA		1	20 A		LTG - TR(TBD)	4	
5							1667 VA	0 VA	1	20 A	LTG - VESTIBULE TBD	6	
7	SSCU-TBD/SSAH-TBD		30 A	2	980 VA	0 VA		1	20 A	--	SPARE	8	
9						980 VA	0 VA	1	20 A	--	SPARE	10	
11	SPARE	--	20 A	1			0 VA	0 VA	1	20 A	--	SPARE	12
13	SPARE	--	20 A	1	0 VA	0 VA			1	20 A	--	SPARE	14
15	SPARE	--	20 A	1		0 VA	0 VA		1	20 A	--	SPARE	16
17	SPARE	--	20 A	1					1	--	SPARE	18	
19	SPARE	--	20 A	1					1	--	SPARE	20	
21	SPARE	--	20 A	1					1	--	SPARE	22	
23	SPARE	--	20 A	1					1	--	SPARE	24	
<b>TOTAL LOAD:</b>					3367 VA	2713 VA							
<b>TOTAL AMPS:</b>					29 A	24 A						14 A	

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS
LTG	66 VA	125.00%	83 VA	CONNECTED LOAD: 7746 VA
PWR-C	5000 VA	125.00%	6250 VA	CONNECTED CURRENT: 22 A
REC	720 VA	100.00%	720 VA	DEMAND LOAD: 9503 VA
MEQ-C	1960 VA	125.00%	2450 VA	DEMAND CURRENT: 26 A
				CONSIDER 125% DEMAND: 11878 A
				EQUIPMENT AMPS: 100 A
				FEEDER AVAILABLE: 73 %
				SPARE CAPACITY: 24 A

**LOAD CLASSIFICATION**

CONNECTED LOAD: 980 VA  
DEMAND FACTOR: 125.00%  
ESTIMATED DEMAND: 1225 VA  
PANEL TOTALS: 1225 VA  
CONNECTED CURRENT: 22 A  
DEMAND LOAD: 9503 VA  
DEMAND CURRENT: 26 A  
CONSIDER 125% DEMAND: 11878 A  
EQUIPMENT AMPS: 100 A  
FEEDER AVAILABLE: 73 %  
SPARE CAPACITY: 24 A

**GENERAL REMARKS:**

- PANEL AIC (INTERRUPTING) RATING SHALL BE MINIMUM 120% OF THE AVAILABLE SCC (SHORT CIRCUIT CURRENT).
- BUS A PANEL.
- WHERE NEW PANELS ARE SHOWN AT TELECOM PLYWOOD LOCATIONS, MOUNT PANELS TO PLYWOOD.

**PANEL: 1-TR-4A**

LOCATION: TR  
SUPPLY FROM: 1-TR-DP  
BRANCH: NORMAL  
SERVICE RATED: No  
MOUNTING: SURFACE  
NEMA ENCLOSURE: NEMA 1

VOLTS: 208/120 WYE  
PHASES: 3  
WIRES: 4  
INTEGRAL SPD: Yes  
AVAILABLE SCC (KA): 10

MAINS TYPE: MLO  
MCB/MLO RATING: 100 A  
MCB OPTIONS:  
SECTIONS: 1  
PANEL POLES: 24

CKT	CIRCUIT DESCRIPTION	OPT	RATING	POLES	A	B	C	POLES	RATING	OPT	CIRCUIT DESCRIPTION	CKT	
1	REC - IT RACK TR(TBD)		20 A	3	1667 VA	540 VA		1	20 A		REC - TR(TBD)	2	
3					1667 VA	1500 VA		1	20 A		UH-TBD	4	
5							1667 VA	0 VA	1	20 A	--	SPARE	6
7	SPARE	--	20 A	1	0 VA	0 VA			1	20 A	--	SPARE	8
9	SPARE	--	20 A	1		0 VA	0 VA		1	20 A	--	SPARE	10
11	SPARE	--	20 A	1			0 VA	0 VA	1	20 A	--	SPARE	12
13	SPARE	--	20 A	1	0 VA	0 VA			1	20 A	--	SPARE	14
15	SPARE	--	20 A	1		0 VA	0 VA		1	20 A	--	SPARE	16
17	SPARE	--	20 A	1					1	--	SPARE	18	
19	SPARE	--	20 A	1					1	--	SPARE	20	
21	SPARE	--	20 A	1					1	--	SPARE	22	
23	SPARE	--	20 A	1					1	--	SPARE	24	
<b>TOTAL LOAD:</b>					2207 VA	3167 VA							
<b>TOTAL AMPS:</b>					19 A	27 A						14 A	

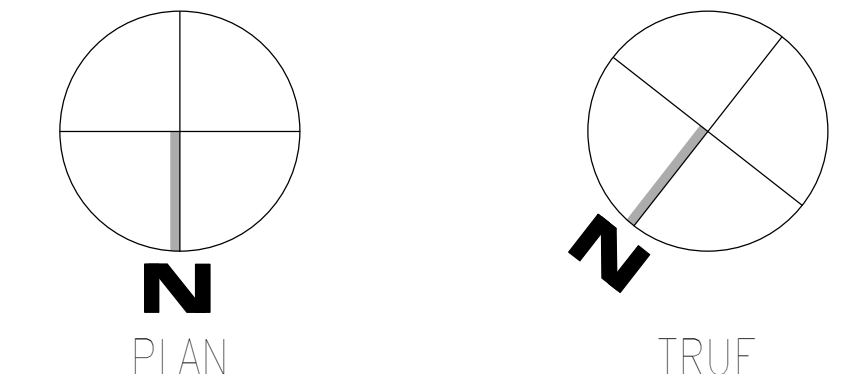
LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS
PWR-C	5000 VA	125.00%	6250 VA	CONNECTED LOAD: 7040 VA
REC	540 VA	100.00%	540 VA	CONNECTED CURRENT: 20 A
MEQ-C	1500 VA	125.00%	1875 VA	DEMAND LOAD: 8665 VA
				DEMAND CURRENT: 24 A
				CONSIDER 125% DEMAND: 10831 A
				EQUIPMENT AMPS: 100 A
				FEEDER AVAILABLE: 75 %
				SPARE CAPACITY: 76 A

**LOAD CLASSIFICATION**

CONNECTED LOAD: 540 VA  
DEMAND FACTOR: 125.00%  
ESTIMATED DEMAND: 675 VA  
PANEL TOTALS: 675 VA  
CONNECTED CURRENT: 20 A  
DEMAND LOAD: 8665 VA  
DEMAND CURRENT: 24 A  
CONSIDER 125% DEMAND: 10831 A  
EQUIPMENT AMPS: 100 A  
FEEDER AVAILABLE: 75 %  
SPARE CAPACITY: 76 A

**GENERAL REMARKS:**

- PANEL AIC (INTERRUPTING) RATING SHALL BE MINIMUM 120% OF THE AVAILABLE SCC (SHORT CIRCUIT CURRENT).
- BUS B PANEL.
- WHERE NEW PANELS ARE SHOWN AT TELECOM PLYWOOD LOCATIONS, MOUNT PANELS TO PLYWOOD.

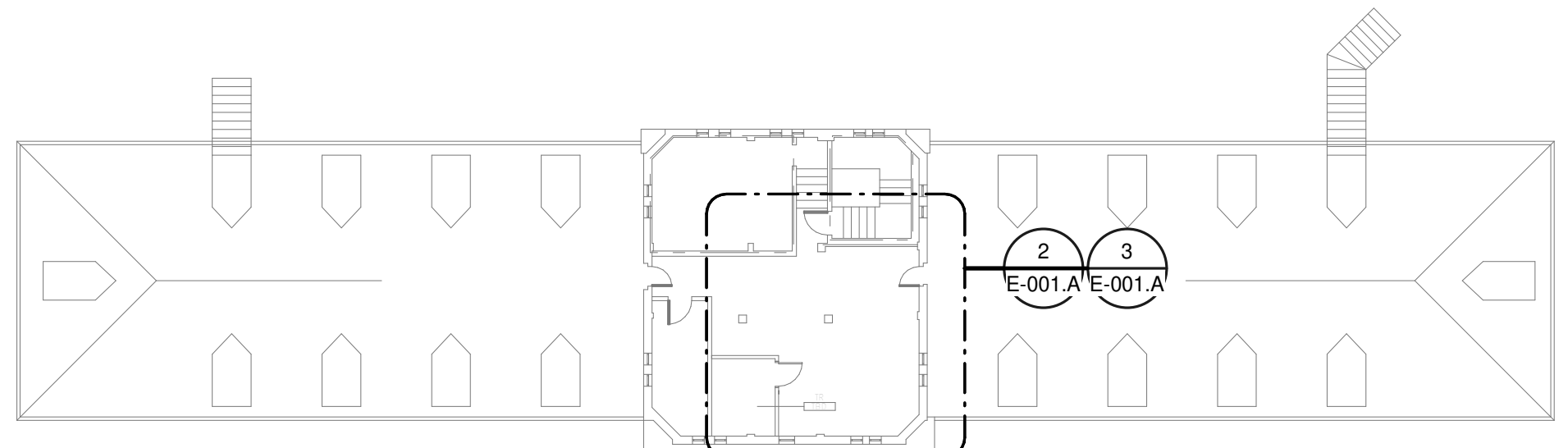


<b>CONSULTANT</b>  WileyWilson 127 Nationwide Drive Lynchburg, VA 24502 Phone: 434.947.1901 www.wileywilson.com	<b>ARCHITECT/ENGINEER OF RECORD</b>  Atriax, PLLC 102 3rd Avenue, NE PO Box 1629, Hickory, NC 28603 Phone: 828.315.9962 Fax: 828.315.9964 NC Engineering License No.: P-0214 NC Architectural License No.: 51254	<b>Office of Construction and Facilities Management</b>  U.S. Department of Veterans Affairs	Drawing Title <b>BUILDING 1 LEVEL 04 - ELECTRICAL</b>	Phase <b>100% CONSTRUCTION DOCUMENTS</b>	Project Title <b>EHRM INFRASTRUCTURE UPGRADES</b>	Project Number <b>679-20-104</b>
			Approved:	<b>FULLY SPRINKLERED</b>	Location <b>TUSCALOOSA VAMC, TUSCALOOSA, AL.</b>	Issue Date <b>03/08/2024</b>
Revisions:	Date:					Drawing Number <b>E-001.4</b>

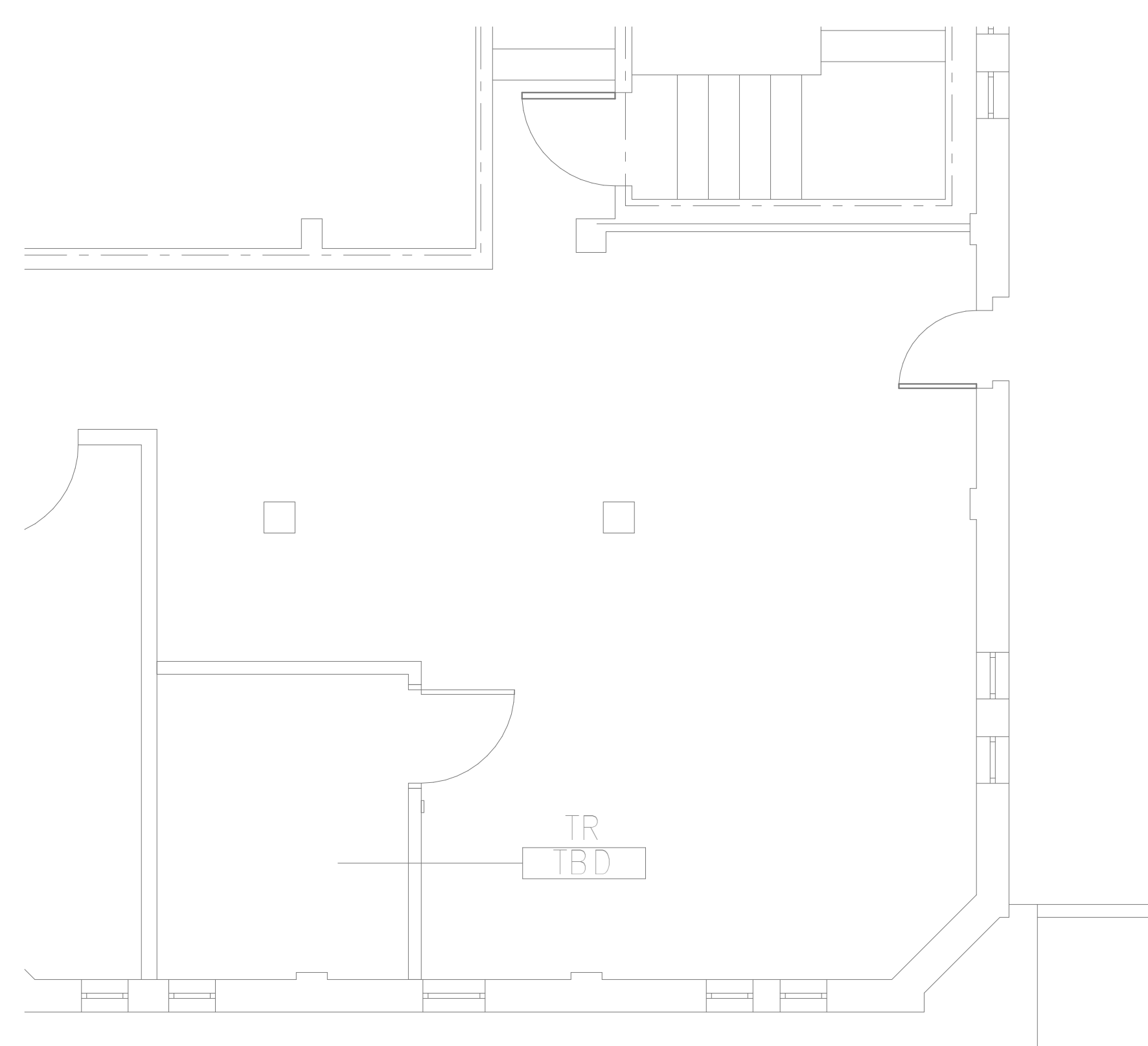


**GENERAL NOTES:**  
 A. REFER TO TELECOM, HVAC, AND FIRE PROTECTION DRAWINGS. COORDINATE LOCATION ON NEW LIGHTING FIXTURES, NEW ELECTRICAL PANELS, AND NEW CABLE TRAY MOUNTED RECEPTACLES WITH OTHER DISCIPLINES.

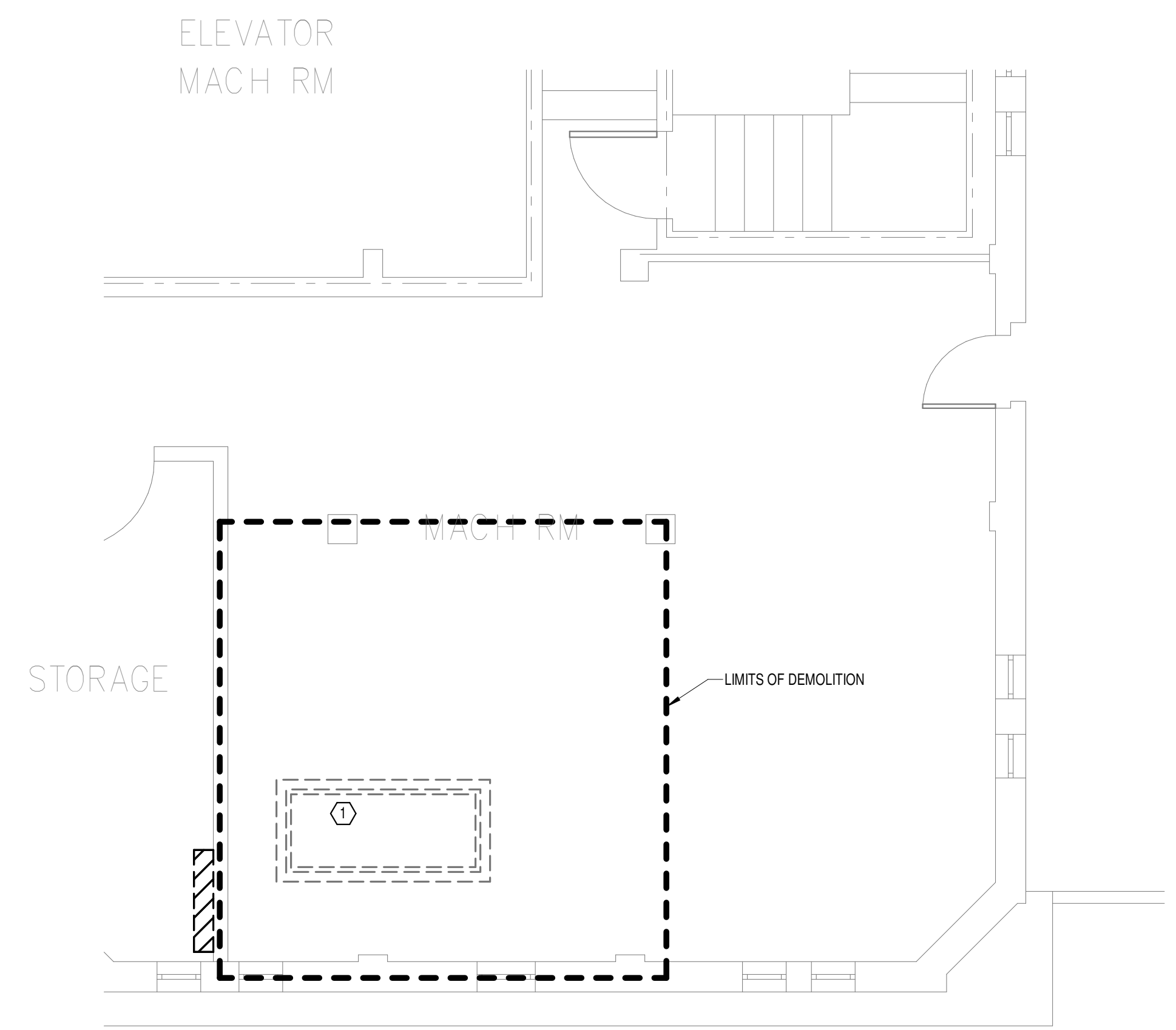
**SHEET NOTES:**  
 1. REMOVE ALL EXISTING DEVICES AND WIRING BACK TO SOURCE. VISIT SITE TO DETERMINE FULL EXTENT OF DEMOLITION.  
 2. REFER TO EQUIPMENT CONNECTION SCHEDULE.  
 3. PROVIDE RECEPTACLE FOR BUS B. MOUNT RECEPTACLE TO CABLE TRAY ABOVE RACK.  
 4. PROVIDE RECEPTACLE FOR BUS A. MOUNT RECEPTACLE TO CABLE TRAY ABOVE RACK.



**1**  
**OVERALL FLOOR PLAN**  
**ATTIC LEVEL -**  
**ELECTRICAL**  
 NTS



**3**  
**NEW FLOOR PLAN ATTIC**  
**FLOOR - ELECTRICAL**  
 1/4" = 1'-0"



**2**  
**DEMOLITION FLOOR**  
**PLAN ATTIC FLOOR -**  
**ELECTRICAL**  
 1/4" = 1'-0"

**PANEL: 1-CR-TR-4A**

LOCATION: TR  
 SUPPLY FROM: 1-CR-TR-DP  
 BRANCH: EMERGENCY  
 SERVICE RATED: No  
 MOUNTING: SURFACE  
 NEMA ENCLOSURE: NEMA 1

VOLTS: 208/120 WYE  
 PHASES: 3  
 WIRES: 4  
 INTEGRAL SPD: Yes  
 AVAILABLE SCC (KA): 10

MAINS TYPE: MLO  
 MCB/MLO RATING: 100 A  
 MCB OPTIONS:  
 SECTIONS: 1  
 PANEL POLES: 24

CKT	CIRCUIT DESCRIPTION	OPT	RATING	POLES	A	B	C	POLES/RATING	OPT	CIRCUIT DESCRIPTION	CKT	
1	REC - IT RACK TR(TBD)		20 A	3	1667 VA	720 VA		1	20 A	REC - TR(TBD)	2	
3					1667 VA	66 VA		1	20 A	LTG - TR(TBD)	4	
5							1667 VA	0 VA	1	20 A	LTG - VESTIBULE TBD	
7								1	20 A	-- SPARE	6	
9	SSCU-TBD/SSAH-TBD		30 A	2	980 VA	0 VA	980 VA	0 VA	1	20 A	-- SPARE	
11	SPARE	--	20 A	1			0 VA	0 VA	1	20 A	-- SPARE	
13	SPARE	--	20 A	1	0 VA	0 VA			1	20 A	-- SPARE	
15	SPARE	--	20 A	1		0 VA	0 VA		1	20 A	-- SPARE	
17	SPACE	--	--	1					1	--	18	
19	SPACE	--	--	1					1	--	20	
21	SPACE	--	--	1					1	--	22	
23	SPACE	--	--	1					1	--	24	
<b>TOTAL LOAD:</b>					3367 VA	2713 VA	1667 VA					
<b>TOTAL AMPS:</b>					29 A	24 A	14 A					

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS
LTG	66 VA	125.00%	83 VA	CONNECTED LOAD: 7746 VA
PWR-C	5000 VA	125.00%	6250 VA	CONNECTED CURRENT: 22 A
REC	720 VA	100.00%	720 VA	DEMAND LOAD: 9503 VA
MEQ-C	1960 VA	125.00%	2450 VA	DEMAND CURRENT: 26 A
				CONSIDER 125% DEMAND: 11878 A
				EQUIPMENT AMPS: 100 A
				FEEDER AVAILABLE: 73 %
				SPARE CAPACITY: 74 A

**OPTIONS:**  
 CIRCUIT BREAKER OPTIONS SUFFIX: 'S' OR 'ST' - PROVIDE SHUNT TRIP CIRCUIT BREAKER / 'G' OR 'GFCI' - PROVIDE GFCI CIRCUIT BREAKER / 'GFP' - PROVIDE GFP CIRCUIT BREAKER / 'ERMS' - ENERGY REDUCING MAINTENANCE SWITCH / 'ZSI' - ZONE SELECTIVE INTERLOCKING / 'L' - PROVIDE CIRCUIT BREAKER WITH LOCKING PROVISIONS / 'R' - PROVIDE CIRCUIT BREAKER WITH RED MARKING

**GENERAL REMARKS:**  
 A. PANEL AIC (INTERRUPTING) RATING SHALL BE MINIMUM 120% OF THE AVAILABLE SCC (SHORT CIRCUIT CURRENT).  
 B. BUS A PANEL.  
 C. WHERE NEW PANELS ARE SHOWN AT TELECOM PLYWOOD LOCATIONS, MOUNT PANELS TO PLYWOOD.

**PANEL: 1-TR-4A**

LOCATION: TR  
 SUPPLY FROM: 1-TR-DP  
 BRANCH: NORMAL  
 SERVICE RATED: No  
 MOUNTING: SURFACE  
 NEMA ENCLOSURE: NEMA 1

VOLTS: 208/120 WYE  
 PHASES: 3  
 WIRES: 4  
 INTEGRAL SPD: Yes  
 AVAILABLE SCC (KA): 10

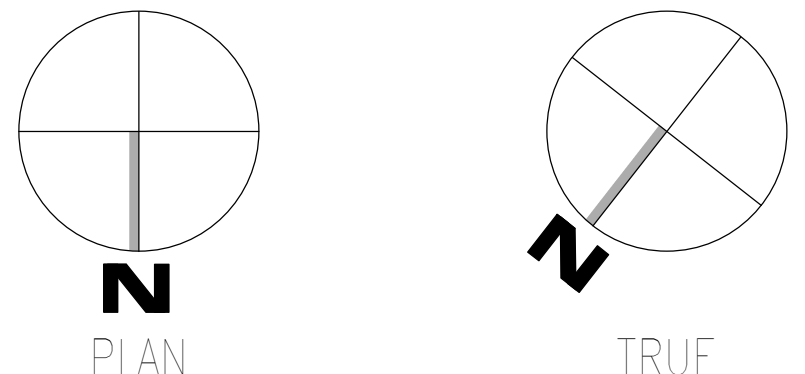
MAINS TYPE: MLO  
 MCB/MLO RATING: 100 A  
 MCB OPTIONS:  
 SECTIONS: 1  
 PANEL POLES: 24

CKT	CIRCUIT DESCRIPTION	OPT	RATING	POLES	A	B	C	POLES/RATING	OPT	CIRCUIT DESCRIPTION	CKT	
1	REC - IT RACK TR(TBD)		20 A	3	1667 VA	540 VA		1	20 A	REC - TR(TBD)	2	
3					1667 VA	1500 VA		1	20 A	UH-TBD	4	
5							1667 VA	0 VA	1	20 A	-- SPARE	
7	SPARE	--	20 A	1	0 VA	0 VA			1	20 A	-- SPARE	
9	SPARE	--	20 A	1		0 VA	0 VA		1	20 A	-- SPARE	
11	SPARE	--	20 A	1			0 VA	0 VA	1	20 A	-- SPARE	
13	SPARE	--	20 A	1	0 VA	0 VA			1	20 A	-- SPARE	
15	SPARE	--	20 A	1		0 VA	0 VA		1	20 A	-- SPARE	
17	SPACE	--	--	1					1	--	18	
19	SPACE	--	--	1					1	--	20	
21	SPACE	--	--	1					1	--	22	
23	SPACE	--	--	1					1	--	24	
<b>TOTAL LOAD:</b>					2207 VA	3167 VA	1667 VA					
<b>TOTAL AMPS:</b>					19 A	27 A	14 A					

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS
LTG	5000 VA	125.00%	6250 VA	CONNECTED LOAD: 7040 VA
PWR-C	540 VA	100.00%	540 VA	CONNECTED CURRENT: 20 A
REC	1500 VA	125.00%	1875 VA	DEMAND LOAD: 8665 VA
MEQ-C				DEMAND CURRENT: 24 A
				CONSIDER 125% DEMAND: 10831 A
				EQUIPMENT AMPS: 100 A
				FEEDER AVAILABLE: 75 %
				SPARE CAPACITY: 76 A

**OPTIONS:**  
 CIRCUIT BREAKER OPTIONS SUFFIX: 'S' OR 'ST' - PROVIDE SHUNT TRIP CIRCUIT BREAKER / 'G' OR 'GFCI' - PROVIDE GFCI CIRCUIT BREAKER / 'GFP' - PROVIDE GFP CIRCUIT BREAKER / 'ERMS' - ENERGY REDUCING MAINTENANCE SWITCH / 'ZSI' - ZONE SELECTIVE INTERLOCKING / 'L' - PROVIDE CIRCUIT BREAKER WITH LOCKING PROVISIONS / 'R' - PROVIDE CIRCUIT BREAKER WITH RED MARKING

**GENERAL REMARKS:**  
 A. PANEL AIC (INTERRUPTING) RATING SHALL BE MINIMUM 120% OF THE AVAILABLE SCC (SHORT CIRCUIT CURRENT).  
 B. BUS B PANEL.  
 C. WHERE NEW PANELS ARE SHOWN AT TELECOM PLYWOOD LOCATIONS, MOUNT PANELS TO PLYWOOD.



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 VA FORM 08 - 6231

<b>CONSULTANT</b>  WileyWilson 127 Nationwide Drive Lynchburg, VA 24502 Phone: 434.947.1901 www.wileywilson.com		<b>ARCHITECT/ENGINEER OF RECORD</b>  Atriax, pllc 102 3rd Avenue, NE PO Box 1629, Hickory, NC 28603 Phone: 828.315.9962 Fax: 828.315.9964 NC Engineering License No.: P-0214 NC Architectural License No.: 51254		<b>Office of Construction and Facilities Management</b>  U.S. Department of Veterans Affairs		Drawing Title <b>BUILDING 1 LEVEL ATTIC - ELECTRICAL</b> Approved:		Phase <b>100% CONSTRUCTION DOCUMENTS</b> <b>FULLY SPRINKLERED</b>		Project Title <b>EHRM INFRASTRUCTURE UPGRADES</b> Location <b>TUSCALOOSA VAMC, TUSCALOOSA, AL.</b> Issue Date 03/08/2024 Checked CGH Drawn MJJ		Project Number <b>679-20-104</b> Building Number <b>1</b> Drawing Number <b>E-001.A</b>	
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**PANEL: 1-TR-DP**

LOCATION: GROUND LEVEL... VOLTS: 208/120 WYE MAINS TYPE: MCB  
 SUPPLY FROM: 1-MSB-GWA PHASES: 3 MCB/MLO RATING: 400 A  
 BRANCH: NORMAL WIRES: 4  
 SERVICE RATED: No INTEGRAL SPD: Yes SECTIONS: 1  
 MOUNTING: SURFACE AVAILABLE SCC (KA): 10 PANEL POLES: 42  
 NEMA ENCLOSURE: NEMA 1

CKT	CIRCUIT DESCRIPTION	OPT	RATING	POLES	A	B	C	POLES	RATING	OPT	CIRCUIT DESCRIPTION	CKT
1					9233 VA 4053 VA							2
3	1-TR-GA		100 A	3		8333 VA 3333 VA			3	100 A	1-TR-3A	4
5							8333 VA 3333 VA					6
7					4053 VA 2207 VA							8
9	1-TR-1A		100 A	3		3333 VA 3167 VA			3	100 A	1-TR-4A	10
11							3333 VA 1667 VA					12
13					4053 VA --							14
15	1-TR-2A		100 A	3		3333 VA --			3	--	SPACE	16
17							3333 VA --					18
19					-- --							20
21	SPACE	--	--	3					3	--	SPACE	22
23												24
25					-- --							26
27	SPACE	--	--	3					3	--	SPACE	28
29												30
31					-- --							32
33	SPACE	--	--	3					3	--	SPACE	34
35												36
37					-- --							38
39	SPACE	--	--	3					3	--	SPACE	40
41												42

**TOTAL LOAD:** 23600 VA 21500 VA 20000 VA  
**TOTAL AMPS:** 199 A 181 A 167 A

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS
PWR-C	6000 VA	125.00%	7500 VA	CONNECTED LOAD: 65100 VA
REC	3600 VA	100.00%	3600 VA	CONNECTED CURRENT: 181 A
MEQ-C	1500 VA	125.00%	1875 VA	DEMAND LOAD: 80475 VA
				DEMAND CURRENT: 223 A
				CONSIDER 125% DEMAND: 100594 A
				EQUIPMENT AMPS: 400 A
				FEEDER AVAILABLE: 44 %
				SPARE CAPACITY: 177 A

**OPTIONS:**  
 CIRCUIT BREAKER OPTIONS SUFFIX: 'S' OR 'ST' - PROVIDE SHUNT TRIP CIRCUIT BREAKER / 'G' OR 'GFCI' - PROVIDE GFCI CIRCUIT BREAKER / 'GFP' - PROVIDE GFP CIRCUIT BREAKER / 'ERMS' - ENERGY REDUCING MAINTENANCE SWITCH / 'ZSI' - ZONE SELECTIVE INTERLOCKING / 'L' - PROVIDE CIRCUIT BREAKER WITH LOCKING PROVISIONS / 'R' - PROVIDE CIRCUIT BREAKER WITH RED MARKING

**GENERAL REMARKS:**  
 A. PANEL AIC (INTERRUPTING) RATING SHALL BE MINIMUM 120% OF THE AVAILABLE SCC (SHORT CIRCUIT CURRENT).

**PANEL: 1-CR-TR-DP**

LOCATION: GROUND LEVEL... VOLTS: 208/120 WYE MAINS TYPE: MCB  
 SUPPLY FROM: 1-ATS-TR-GWA PHASES: 3 MCB/MLO RATING: 400 A  
 BRANCH: EMERGENCY WIRES: 4  
 SERVICE RATED: No INTEGRAL SPD: Yes SECTIONS: 1  
 MOUNTING: SURFACE AVAILABLE SCC (KA): 10 PANEL POLES: 42  
 NEMA ENCLOSURE: NEMA 1

CKT	CIRCUIT DESCRIPTION	OPT	RATING	POLES	A	B	C	POLES	RATING	OPT	CIRCUIT DESCRIPTION	CKT
1					9233 VA 5538 VA							2
3	1-CR-TR-GA		100 A	3		8465 VA 5064 VA			3	100 A	1-CR-TR-3A	4
5							6333 VA 3333 VA					6
7					5718 VA 3367 VA							8
9	1-CR-TR-1A		100 A	3		5064 VA 2713 VA			3	100 A	1-CR-TR-4A	10
11							3333 VA 1667 VA					12
13					5718 VA --							14
15	1-CR-TR-2A		100 A	3		5064 VA --			3	--	SPACE	16
17							3333 VA --					18
19					-- --							20
21	SPACE	--	--	3					3	--	SPACE	22
23												24
25					-- --							26
27	SPACE	--	--	3					3	--	SPACE	28
29												30
31					-- --							32
33	SPACE	--	--	3					3	--	SPACE	34
35												36
37					-- --							38
39	SPACE	--	--	3					3	--	SPACE	40
41												42

**TOTAL LOAD:** 29575 VA 26371 VA 20000 VA  
**TOTAL AMPS:** 255 A 228 A 167 A

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS
PWR-C	398 VA	125.00%	498 VA	CONNECTED LOAD: 75946 VA
REC	6000 VA	100.00%	6000 VA	CONNECTED CURRENT: 211 A
MEQ-C	3600 VA	100.00%	3600 VA	DEMAND LOAD: 94033 VA
				DEMAND CURRENT: 261 A
				CONSIDER 125% DEMAND: 117541 A
				EQUIPMENT AMPS: 400 A
				FEEDER AVAILABLE: 34 %
				SPARE CAPACITY: 139 A

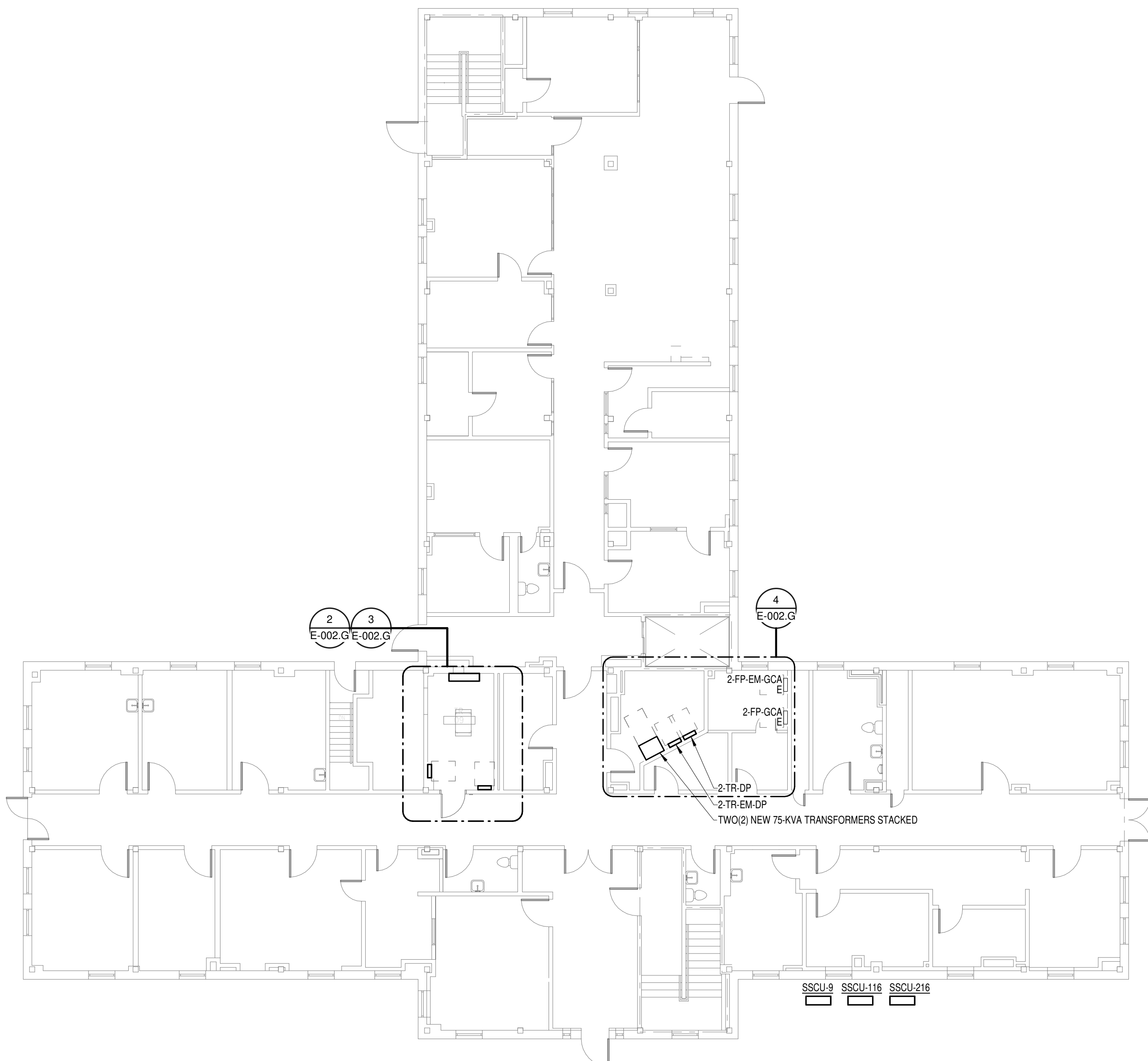
**OPTIONS:**  
 CIRCUIT BREAKER OPTIONS SUFFIX: 'S' OR 'ST' - PROVIDE SHUNT TRIP CIRCUIT BREAKER / 'G' OR 'GFCI' - PROVIDE GFCI CIRCUIT BREAKER / 'GFP' - PROVIDE GFP CIRCUIT BREAKER / 'ERMS' - ENERGY REDUCING MAINTENANCE SWITCH / 'ZSI' - ZONE SELECTIVE INTERLOCKING / 'L' - PROVIDE CIRCUIT BREAKER WITH LOCKING PROVISIONS / 'R' - PROVIDE CIRCUIT BREAKER WITH RED MARKING

**GENERAL REMARKS:**  
 A. PANEL AIC (INTERRUPTING) RATING SHALL BE MINIMUM 120% OF THE AVAILABLE SCC (SHORT CIRCUIT CURRENT).

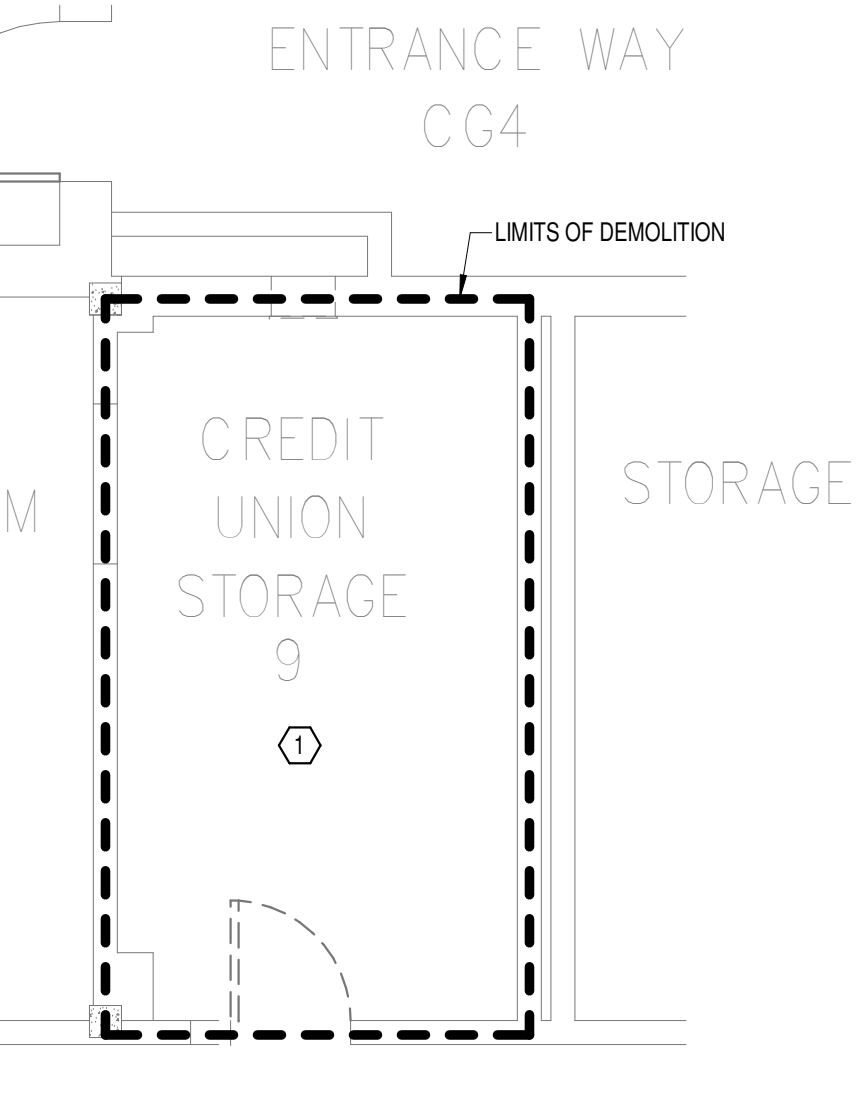
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<b>CONSULTANT</b>  WileyWilson 127 Nationwide Drive Lynchburg, VA 24502 Phone: 434.947.1901 www.wileywilson.com	<b>ARCHITECT/ENGINEER OF RECORD</b>  Atriax, pllc 102 3rd Avenue, NE PO Box 1629, Hickory, NC 28603 Phone: 828.315.9962 Fax: 828.315.9964 NC Engineering License No.: P-0214 NC Architectural License No.: 51254	<b>STAMP</b> 	Office of Construction and Facilities Management U.S. Department of Veterans Affairs	Drawing Title <b>REFERENCE ELECTRICAL                  SCHEDULES</b>	Phase <b>100% CONSTRUCTION                  DOCUMENTS</b>	Project Title EHRM INFRASTRUCTURE UPGRADES	Project Number 679-20-104		
				Approved: _____	<b>FULLY SPRINKLERED</b>	Location TUSCALOOSA VAMC, TUSCALOOSA, AL.	Building Number 1		
Revisions: _____ Date: _____						Issue Date 03/08/2024	Checked CGH	Drawn M.J.J.	Drawing Number <b>E-001.600</b>

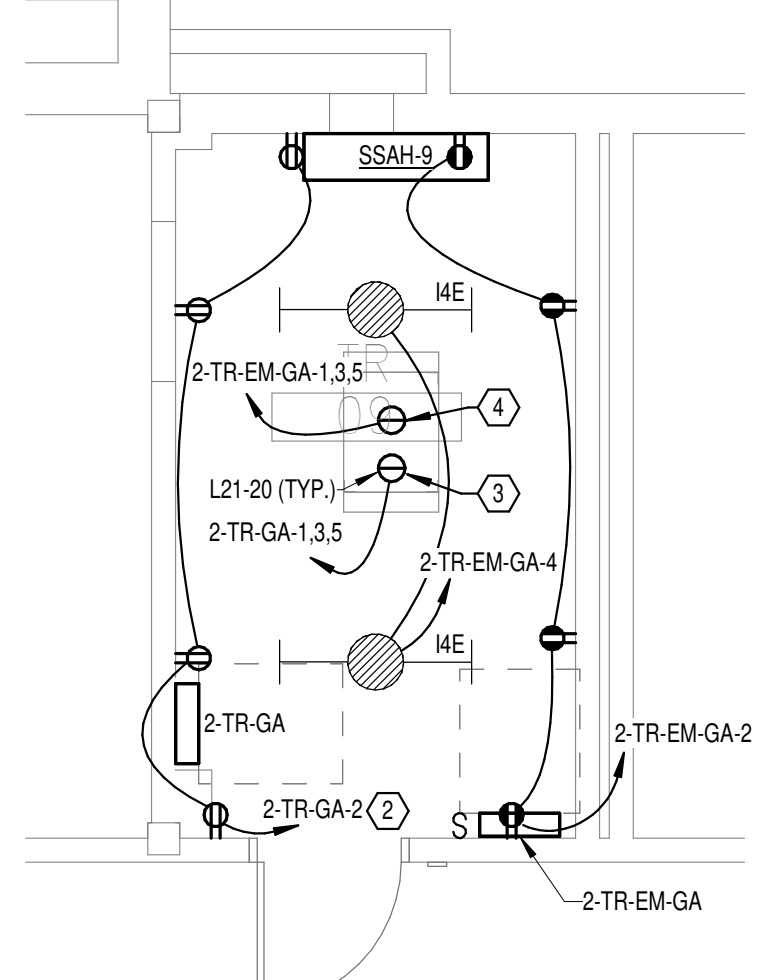




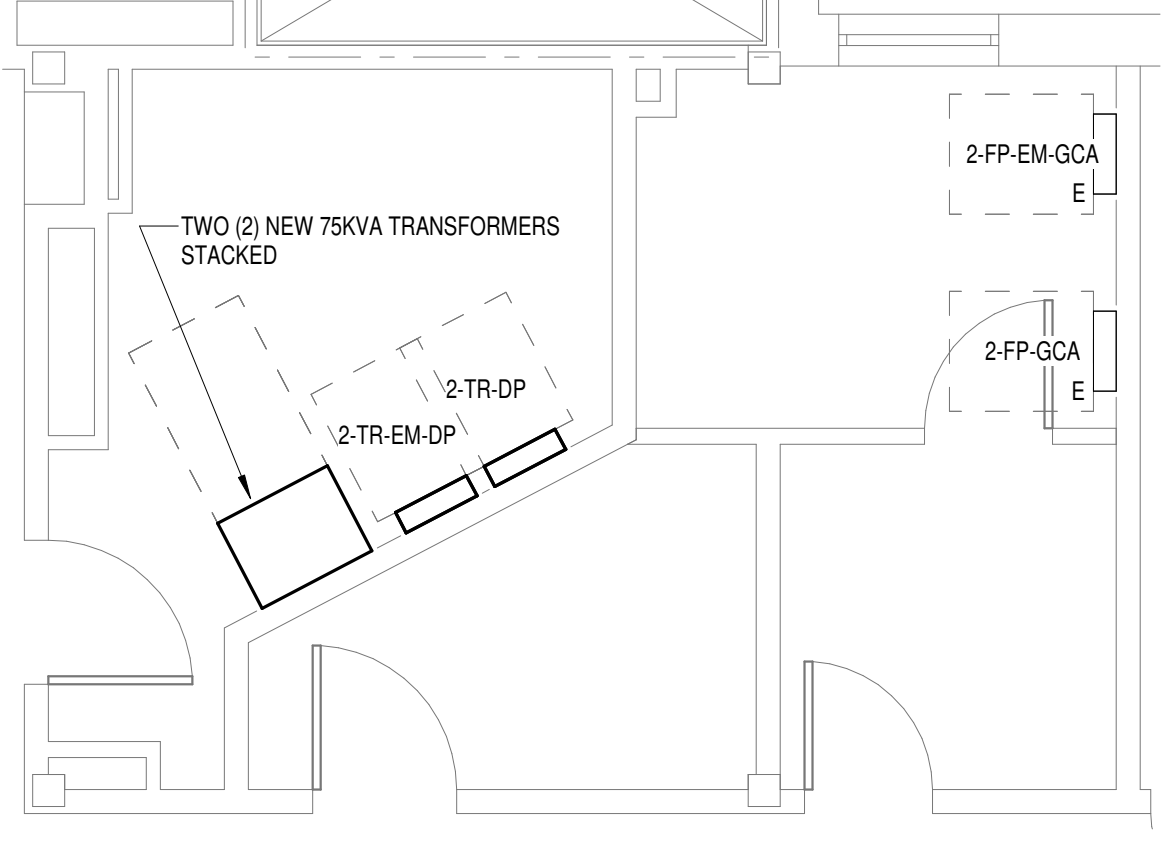
**1**  
OVERALL FLOOR PLAN  
GROUND LEVEL -  
ELECTRICAL  
1" = 10'-0"



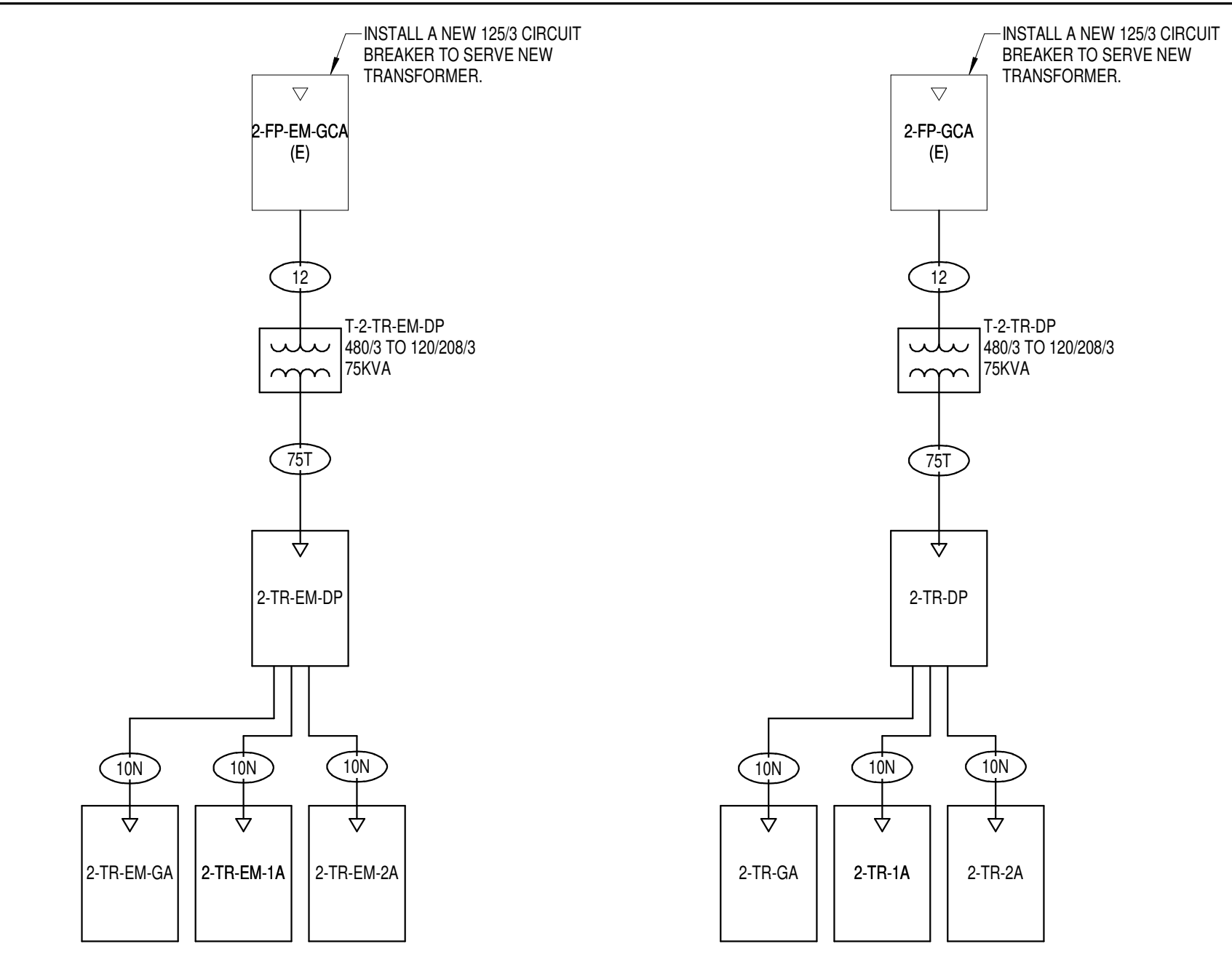
**2**  
DEMOLITION FLOOR  
PLAN GROUND LEVEL -  
ELECTRICAL  
1/4" = 1'-0"



**3**  
NEW FLOOR PLAN  
GROUND LEVEL -  
ELECTRICAL  
1/4" = 1'-0"



**4**  
ENLARGED PLAN  
GROUND LEVEL  
ELECTRICAL ROOM  
1/4" = 1'-0"



FEEDER SCHEDULE - COPPER		
FEEDER	NOMINAL SIZE	WIRE AND CONDUIT
10N	100 A	4#1 CU #8 CU GND - 2" C.
12	125 A	3#10 CU #6 CU GND - 1 1/2" C.
75T	250 A	4-300 KCMIL CU #2 CU GND - 3" C.

**GENERAL NOTES:**  
A. REFER TO TELECOM, HVAC, AND FIRE PROTECTION DRAWINGS. COORDINATE LOCATION ON NEW LIGHTING FIXTURES, NEW ELECTRICAL PANELS, AND NEW CABLE TRAY MOUNTED RECEPTACLES WITH OTHER DISCIPLINES.

**SHEET NOTES:**  
1. REMOVE ALL EXISTING DEVICES AND WIRING BACK TO SOURCE. VISIT SITE TO DETERMINE FULL EXTENT OF DEMOLITION.  
2. REFER TO EQUIPMENT CONNECTION SCHEDULE.  
3. PROVIDE RECEPTACLE FOR BUS B. MOUNT RECEPTACLE TO CABLE TRAY ABOVE BACK.  
4. PROVIDE RECEPTACLE FOR BUS A. MOUNT RECEPTACLE TO CABLE TRAY ABOVE BACK.

**BUILDING 2 -  
ELECTRICAL ONE-LINE  
NO SCALE**

EQUIPMENT CONNECTION SCHEDULE																	
MARK	DESCRIPTION	FLA	MCA	MOCP	VOLTS	PHASE	POLES	LOAD [VA]	CONTROL TYPE	DISCONNECT BY	DISCONNECT TYPE	FEEDER	PANEL	CIRCUIT NUMBER	SCCR	GEN	REMARKS
SSAH-9	SPLIT SYSTEM CONDENSING UNIT	208	1	2	208	1	2	1960	INT	-	-	(3X) (30A) 2-#10 CU, #10 CU GND - 3/4" C.	2-TR-EM-1A	7.9	5	Yes	2
SSAH-116	SPLIT SYSTEM CONDENSING UNIT	208	1	2	208	1	2	1960	INT	-	-	(3X) (30A) 2-#10 CU, #10 CU GND - 3/4" C.	2-TR-EM-1A	7.9	5	Yes	2
SSAH-216	SPLIT SYSTEM CONDENSING UNIT	208	1	2	208	1	2	1960	INT	-	-	(3X) (30A) 2-#10 CU, #10 CU GND - 3/4" C.	2-TR-EM-2A	7.9	5	Yes	2
SSCU-9	SPLIT SYSTEM CONDENSING UNIT	15.2	19	25	208	1	2	1960	INT	ELECTRICAL	30A/2P/208V FUSED DISCONNECT SWITCH	(3X) (30A) 2-#10 CU, #10 CU GND - 3/4" C.	2-TR-EM-GA	7.9	5	Yes	1
SSCU-116	SPLIT SYSTEM CONDENSING UNIT	15.2	19	25	208	1	2	1960	INT	ELECTRICAL	30A/2P/208V FUSED DISCONNECT SWITCH	(3X) (30A) 2-#10 CU, #10 CU GND - 3/4" C.	2-TR-EM-1A	7.9	5	Yes	1
SSCU-216	SPLIT SYSTEM CONDENSING UNIT	15.2	19	25	208	1	2	1960	INT	ELECTRICAL	30A/2P/208V FUSED DISCONNECT SWITCH	(3X) (30A) 2-#10 CU, #10 CU GND - 3/4" C.	2-TR-EM-2A	7.9	5	Yes	1

REMARKS: (EQUIPMENT CONNECTION SCHEDULE)  
1. CONTROLS BETWEEN INDOOR AND OUTDOOR UNITS - INCLUDE CONTROL WIRING IN CONDUIT BETWEEN INDOOR AND OUTDOOR UNIT PER MANUFACTURERS REQUIREMENTS.  
2. "CONTROL TYPE" - PROVIDE CONTROL AND CONNECTIONS "INT" - CONTROLS ARE MANUFACTURED INTEGRAL TO THE EQUIPMENT (SELF-CONTAINED).

**PANEL: 2-TR-GA**  
LOCATION: TR 09  
SUPPLY FROM: 2-TR-DP  
BRANCH: NORMAL  
SERVICE RATED: No  
MOUNTING: SURFACE  
NEMA ENCLOSURE: NEMA 1

VOLTS: 208/120 WYE  
PHASES: 3  
WIRES: 4  
INTEGRAL SPD: No  
AVAILABLE SCC (KA): 10

MAINS TYPE: MLO  
MCB/MLO RATING: 100 A  
MCB OPTIONS:  
SECTIONS: 1  
PANEL POLES: 24

CKT	CIRCUIT DESCRIPTION	OPT	RATING	POLES	A	B	C	POLES	RATING	OPT	CIRCUIT DESCRIPTION	CKT	
1	REC - IT RACK TR-09		20 A	3	1667 VA	720 VA		1	20 A	--	REC - TR-09	2	
3	SPARE	--	20 A	1	0 VA	0 VA		1	20 A	--	SPARE	4	
5	SPARE	--	20 A	1	0 VA	0 VA		1	20 A	--	SPARE	6	
7	SPARE	--	20 A	1	0 VA	0 VA		1	20 A	--	SPARE	8	
9	SSCU-9/SSAH-9		25 A	2	980 VA	0 VA		1	20 A	--	SPARE	10	
11	SPARE	--	20 A	1	0 VA	0 VA		1	20 A	--	SPARE	12	
13	SPARE	--	20 A	1	0 VA	0 VA		1	20 A	--	SPARE	14	
15	SPARE	--	20 A	1	0 VA	0 VA		1	20 A	--	SPARE	16	
17	SPARE	--	1	1	--	--		1	--	--	SPARE	18	
19	SPARE	--	1	1	--	--		1	--	--	SPARE	20	
21	SPARE	--	1	1	--	--		1	--	--	SPARE	22	
23	SPARE	--	1	1	--	--		1	--	--	SPARE	24	
<b>TOTAL LOAD:</b>					2387 VA	1667 VA	1667 VA						
<b>TOTAL AMPS:</b>					20 A	14 A	14 A						

LOAD CLASSIFICATION: PWR-C (5000 VA), REC (720 VA)  
CONNECTED LOAD: 5720 VA  
DEMAND FACTOR: 125.00%  
ESTIMATED DEMAND: 6250 VA  
CONNECTED CURRENT: 16 A  
DEMAND LOAD: 6970 VA  
DEMAND CURRENT: 19 A  
CONSIDER 125% DEMAND: 8713 A  
EQUIPMENT AMPS: 100 A  
FEEDER AVAILABLE: 80 %  
SPARE CAPACITY: 91 A

OPTIONS:  
CIRCUIT BREAKER OPTIONS SUFFIX: 'S' OR 'ST' - PROVIDE SHUNT TRIP CIRCUIT BREAKER / 'G' OR 'GFCI' - PROVIDE GFCI CIRCUIT BREAKER / 'GFP' - PROVIDE GFP CIRCUIT BREAKER / 'ERMS' - ENERGY REDUCING MAINTENANCE SWITCH / 'ZSI' - ZONE SELECTIVE INTERLOCKING / 'L' - PROVIDE CIRCUIT BREAKER WITH LOCKING PROVISIONS / 'R' - PROVIDE CIRCUIT BREAKER WITH RED MARKING

GENERAL REMARKS:  
A. PANEL AIC (INTERRUPTING) RATING SHALL BE MINIMUM 120% OF THE AVAILABLE SCC (SHORT CIRCUIT CURRENT).  
B. BUS B PANEL.  
C. WHERE NEW PANELS ARE SHOWN AT TELECOM PLYWOOD LOCATIONS, MOUNT PANELS TO PLYWOOD.

**PANEL: 2-TR-EM-GA**  
LOCATION: TR 09  
SUPPLY FROM: 2-TR-EM-DP  
BRANCH: EMERGENCY  
SERVICE RATED: No  
MOUNTING: SURFACE  
NEMA ENCLOSURE: NEMA 1

VOLTS: 208/120 WYE  
PHASES: 3  
WIRES: 4  
INTEGRAL SPD: No  
AVAILABLE SCC (KA): 10

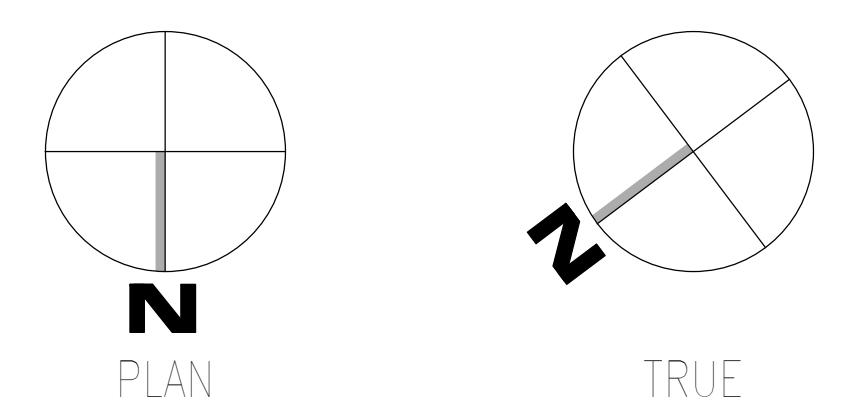
MAINS TYPE: MLO  
MCB/MLO RATING: 100 A  
MCB OPTIONS:  
SECTIONS: 1  
PANEL POLES: 24

CKT	CIRCUIT DESCRIPTION	OPT	RATING	POLES	A	B	C	POLES	RATING	OPT	CIRCUIT DESCRIPTION	CKT	
1	REC - IT RACK TR-09		20 A	3	1667 VA	720 VA		1	20 A	--	REC - TR-09	2	
3	SPARE	--	20 A	1	0 VA	0 VA		1	20 A	--	SPARE	4	
5	SPARE	--	20 A	1	0 VA	0 VA		1	20 A	--	SPARE	6	
7	SSCU-9/SSAH-9		25 A	2	980 VA	0 VA		1	20 A	--	SPARE	8	
9	SPARE	--	20 A	1	0 VA	0 VA		1	20 A	--	SPARE	10	
11	SPARE	--	20 A	1	0 VA	0 VA		1	20 A	--	SPARE	12	
13	SPARE	--	20 A	1	0 VA	0 VA		1	20 A	--	SPARE	14	
15	SPARE	--	20 A	1	0 VA	0 VA		1	20 A	--	SPARE	16	
17	SPARE	--	1	1	--	--		1	--	--	SPARE	18	
19	SPARE	--	1	1	--	--		1	--	--	SPARE	20	
21	SPARE	--	1	1	--	--		1	--	--	SPARE	22	
23	SPARE	--	1	1	--	--		1	--	--	SPARE	24	
<b>TOTAL LOAD:</b>					3367 VA	2713 VA	1667 VA						
<b>TOTAL AMPS:</b>					29 A	24 A	14 A						

LOAD CLASSIFICATION: LTG (66 VA), PWR-C (5000 VA), REC (720 VA), MEC-C (1960 VA)  
CONNECTED LOAD: 7746 VA  
DEMAND FACTOR: 125.00%  
ESTIMATED DEMAND: 83 VA  
CONNECTED CURRENT: 22 A  
DEMAND LOAD: 9503 VA  
DEMAND CURRENT: 26 A  
CONSIDER 125% DEMAND: 11878 A  
EQUIPMENT AMPS: 100 A  
FEEDER AVAILABLE: 73 %  
SPARE CAPACITY: 74 A

OPTIONS:  
CIRCUIT BREAKER OPTIONS SUFFIX: 'S' OR 'ST' - PROVIDE SHUNT TRIP CIRCUIT BREAKER / 'G' OR 'GFCI' - PROVIDE GFCI CIRCUIT BREAKER / 'GFP' - PROVIDE GFP CIRCUIT BREAKER / 'ERMS' - ENERGY REDUCING MAINTENANCE SWITCH / 'ZSI' - ZONE SELECTIVE INTERLOCKING / 'L' - PROVIDE CIRCUIT BREAKER WITH LOCKING PROVISIONS / 'R' - PROVIDE CIRCUIT BREAKER WITH RED MARKING

GENERAL REMARKS:  
A. PANEL AIC (INTERRUPTING) RATING SHALL BE MINIMUM 120% OF THE AVAILABLE SCC (SHORT CIRCUIT CURRENT).  
B. BUS A PANEL.  
C. WHERE NEW PANELS ARE SHOWN AT TELECOM PLYWOOD LOCATIONS, MOUNT PANELS TO PLYWOOD.

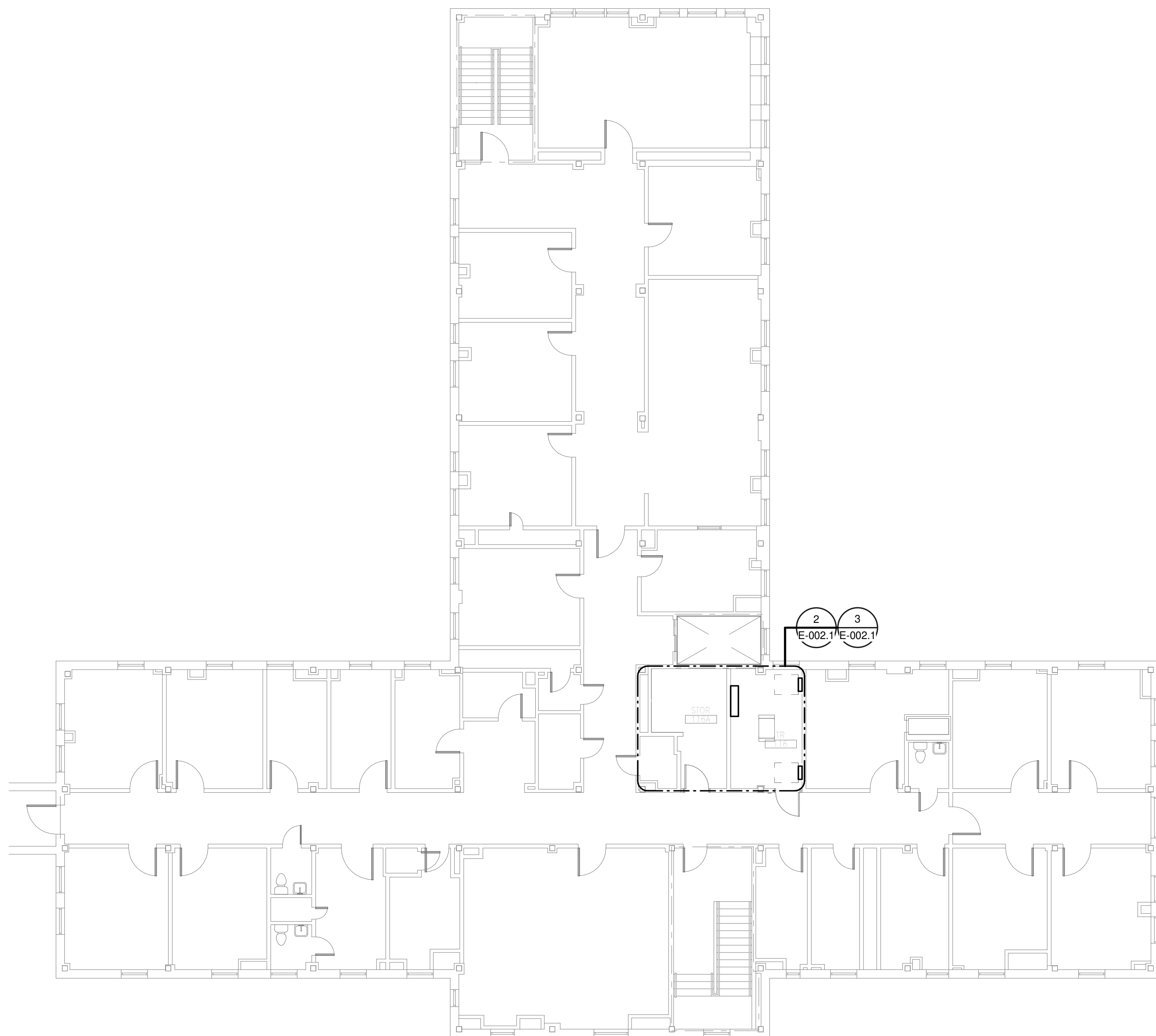


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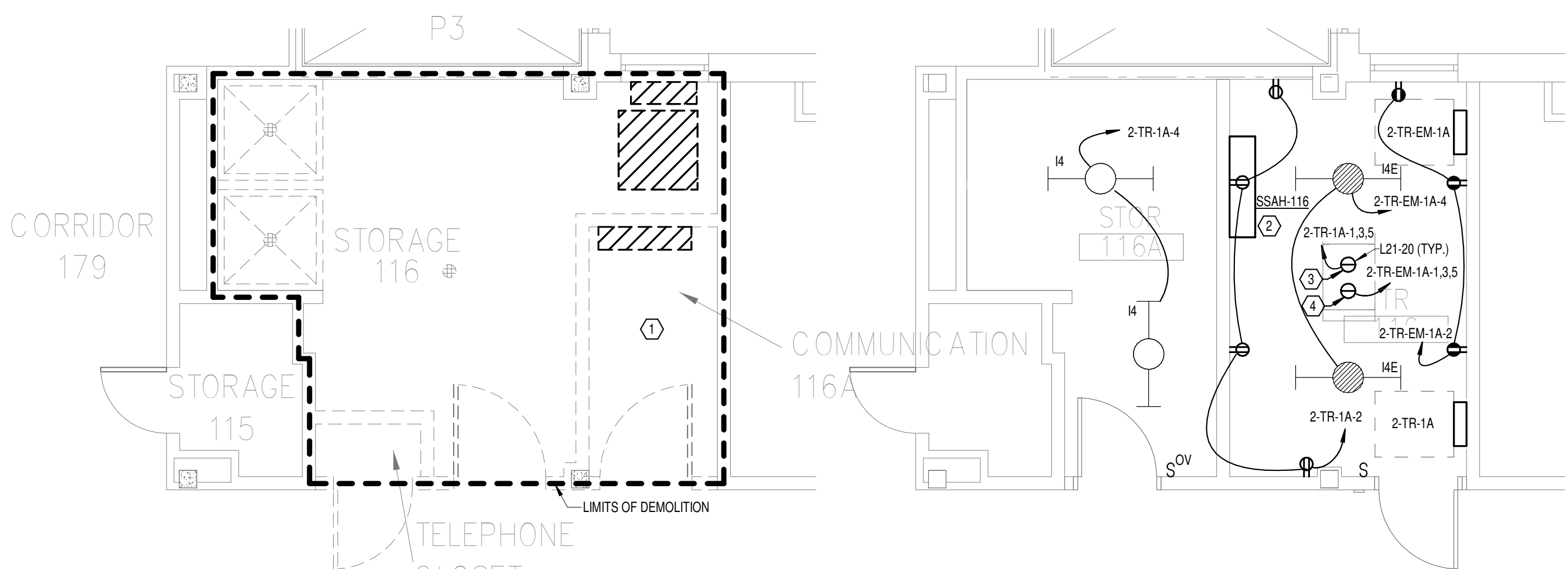
<b>CONSULTANT</b>  Wiley Wilson 127 Nationwide Drive Lynchburg, VA 24502 Phone: 434.947.1901 www.wileywilson.com		<b>ARCHITECT/ENGINEER OF RECORD</b>  Atriax, pllc 703 Main Avenue SE PO Box 1629, Hickory, NC 28603 Phone: 828.315.9962 Fax: 828.315.9964 NC Engineering License No.: P-0214 NC Architectural License No.: 51254		<b>STAMP</b> 	Office of Construction and Facilities Management U.S. Department of Veterans Affairs	Drawing Title <b>BUILDING 2 GROUND LEVEL - ELECTRICAL</b> Approved:	Phase <b>100% CONSTRUCTION DOCUMENTS</b> <b>FULLY SPRINKLERED</b>	Project Title <b>EHRM INFRASTRUCTURE UPGRADES</b> Location TUSCALOOSA VAMC, TUSCALOOSA, AL. Issue Date 03/08/2024 Checked CGH Drawn MJJ	Project Number 679-20-104 Building Number 2 Drawing Number <b>E-002.G</b>
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**GENERAL NOTES:**  
 A. REFER TO TELECOM, HVAC, AND FIRE PROTECTION DRAWINGS. COORDINATE LOCATION ON NEW LIGHTING FIXTURES, NEW ELECTRICAL PANELS, AND NEW CABLE TRAY MOUNTED RECEPTACLES WITH OTHER DISCIPLINES.  
**SHEET NOTES:**  
 1. REMOVE ALL EXISTING DEVICES AND WIRING BACK TO SOURCE. VISIT SITE TO DETERMINE FULL EXTENT OF DEMOLITION.  
 2. REFER TO EQUIPMENT CONNECTION SCHEDULE.  
 3. PROVIDE RECEPTACLE FOR BUS B. MOUNT RECEPTACLE TO CABLE TRAY ABOVE RACK.  
 4. PROVIDE RECEPTACLE FOR BUS A. MOUNT RECEPTACLE TO CABLE TRAY ABOVE RACK.



1 OVERALL FLOOR PLAN LEVEL 01 - ELECTRICAL  
 1" = 10'-0"



2 DEMOLITION FLOOR PLAN LEVEL 01 - ELECTRICAL  
 1/4" = 1'-0"

3 NEW FLOOR PLAN LEVEL 01 - ELECTRICAL  
 1/4" = 1'-0"

**PANEL: 2-TR-1A**  
 LOCATION: TR 116  
 SUPPLY FROM: 2-TR-DP  
 BRANCH: NORMAL  
 SERVICE RATED: No  
 MOUNTING: SURFACE  
 NEMA ENCLOSURE: NEMA 1

VOLTS: 208/120 WYE  
 PHASES: 3  
 WIRES: 4  
 INTEGRAL SPD: Yes  
 AVAILABLE SCC (KA): 10

MAINS TYPE: MLO  
 MCB/MLO RATING: 100 A  
 MCB OPTIONS:  
 SECTIONS: 1  
 PANEL POLES: 24

CKT	CIRCUIT DESCRIPTION	OPT	RATING	POLES	A	B	C	POLES	RATING	OPT	CIRCUIT DESCRIPTION	CKT	
1					1667 VA	720 VA		1	20 A		REC - TR-116	2	
3	REC - IT RACK TR-116		20 A	3		1667 VA	66 VA	1	20 A		LTG - STOR 116A	4	
5								1	20 A		SPARE	6	
7	SPARE	--	20 A	1	0 VA	0 VA		1	20 A		SPARE	8	
9	SPARE	--	20 A	1		0 VA	0 VA	1	20 A		SPARE	10	
11	SPARE	--	20 A	1			0 VA	0 VA	1	20 A	SPARE	12	
13	SPARE	--	20 A	1	0 VA	0 VA		1	20 A		SPARE	14	
15	SPARE	--	20 A	1				1	20 A		SPARE	16	
17	SPACE	--	--	1				1	--		SPACE	18	
19	SPACE	--	--	1				1	--		SPACE	20	
21	SPACE	--	--	1				1	--		SPACE	22	
23	SPACE	--	--	1				1	--		SPACE	24	
<b>TOTAL LOAD:</b>					2387 VA	1733 VA	1667 VA						
<b>TOTAL AMPS:</b>					20 A	15 A	14 A						

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS
LTG	66 VA	125.00%	83 VA	CONNECTED LOAD: 5786 VA
PWR-C	5000 VA	125.00%	6250 VA	CONNECTED CURRENT: 16 A
REC	720 VA	100.00%	720 VA	DEMAND LOAD: 7053 VA
				DEMAND CURRENT: 20 A
				CONSIDER 125% DEMAND: 8816 A
				EQUIPMENT AMPS: 100 A
				FEEDER AVAILABLE: 100 A
				SPARE CAPACITY: 80 %
				80 A

**OPTIONS:**  
 CIRCUIT BREAKER OPTIONS SUFFIX: 'S' OR 'ST' - PROVIDE SHUNT TRIP CIRCUIT BREAKER / 'G' OR 'GFCI' - PROVIDE GFCI CIRCUIT BREAKER / 'GFP' - PROVIDE GFP CIRCUIT BREAKER / 'ERMS' - ENERGY REDUCING MAINTENANCE SWITCH / 'ZSI' - ZONE SELECTIVE INTERLOCKING / 'L' - PROVIDE CIRCUIT BREAKER WITH LOCKING PROVISIONS / 'R' - PROVIDE CIRCUIT BREAKER WITH RED MARKING

**GENERAL REMARKS:**  
 A. PANEL AIC (INTERRUPTING) RATING SHALL BE MINIMUM 120% OF THE AVAILABLE SCC (SHORT CIRCUIT CURRENT).  
 B. BUS B PANEL.  
 C. WHERE NEW PANELS ARE SHOWN AT TELECOM PLYWOOD LOCATIONS, MOUNT PANELS TO PLYWOOD.

**PANEL: 2-TR-EM-1A**  
 LOCATION: TR 116  
 SUPPLY FROM: 2-TR-EM-DP  
 BRANCH: EMERGENCY  
 SERVICE RATED: No  
 MOUNTING: SURFACE  
 NEMA ENCLOSURE: NEMA 1

VOLTS: 208/120 WYE  
 PHASES: 3  
 WIRES: 4  
 INTEGRAL SPD: Yes  
 AVAILABLE SCC (KA): 10

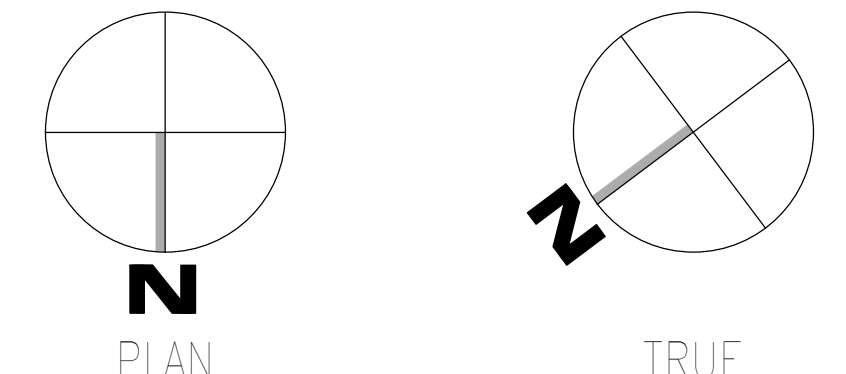
MAINS TYPE: MLO  
 MCB/MLO RATING: 100 A  
 MCB OPTIONS:  
 SECTIONS: 1  
 PANEL POLES: 24

CKT	CIRCUIT DESCRIPTION	OPT	RATING	POLES	A	B	C	POLES	RATING	OPT	CIRCUIT DESCRIPTION	CKT	
1					1667 VA	540 VA		1	20 A		REC - TR-116	2	
3	REC - IT RACK TR-116		20 A	3		1667 VA	66 VA	1	20 A		LTG - TR-116	4	
5								1	20 A		SPARE	6	
7	SSCU-116/SSAH-116		25 A	2	980 VA	0 VA		1	20 A		SPARE	8	
9						980 VA	0 VA	1	20 A		SPARE	10	
11	SPARE	--	20 A	1			0 VA	0 VA	1	20 A	SPARE	12	
13	SPARE	--	20 A	1	0 VA	0 VA		1	20 A		SPARE	14	
15	SPARE	--	20 A	1			0 VA	0 VA	1	20 A	SPARE	16	
17	SPACE	--	--	1				1	--		SPACE	18	
19	SPACE	--	--	1				1	--		SPACE	20	
21	SPACE	--	--	1				1	--		SPACE	22	
23	SPACE	--	--	1				1	--		SPACE	24	
<b>TOTAL LOAD:</b>					3187 VA	2713 VA	1667 VA						
<b>TOTAL AMPS:</b>					28 A	24 A	14 A						

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS
LTG	66 VA	125.00%	83 VA	CONNECTED LOAD: 7566 VA
PWR-C	5000 VA	125.00%	6250 VA	CONNECTED CURRENT: 21 A
REC	540 VA	100.00%	540 VA	DEMAND LOAD: 6523 VA
MEG-C	1980 VA	125.00%	2450 VA	DEMAND CURRENT: 28 A
				CONSIDER 125% DEMAND: 11653 A
				EQUIPMENT AMPS: 100 A
				FEEDER AVAILABLE: 100 A
				SPARE CAPACITY: 74 %
				74 A

**OPTIONS:**  
 CIRCUIT BREAKER OPTIONS SUFFIX: 'S' OR 'ST' - PROVIDE SHUNT TRIP CIRCUIT BREAKER / 'G' OR 'GFCI' - PROVIDE GFCI CIRCUIT BREAKER / 'GFP' - PROVIDE GFP CIRCUIT BREAKER / 'ERMS' - ENERGY REDUCING MAINTENANCE SWITCH / 'ZSI' - ZONE SELECTIVE INTERLOCKING / 'L' - PROVIDE CIRCUIT BREAKER WITH LOCKING PROVISIONS / 'R' - PROVIDE CIRCUIT BREAKER WITH RED MARKING

**GENERAL REMARKS:**  
 A. PANEL AIC (INTERRUPTING) RATING SHALL BE MINIMUM 120% OF THE AVAILABLE SCC (SHORT CIRCUIT CURRENT).  
 B. BUS A PANEL.  
 C. WHERE NEW PANELS ARE SHOWN AT TELECOM PLYWOOD LOCATIONS, MOUNT PANELS TO PLYWOOD.

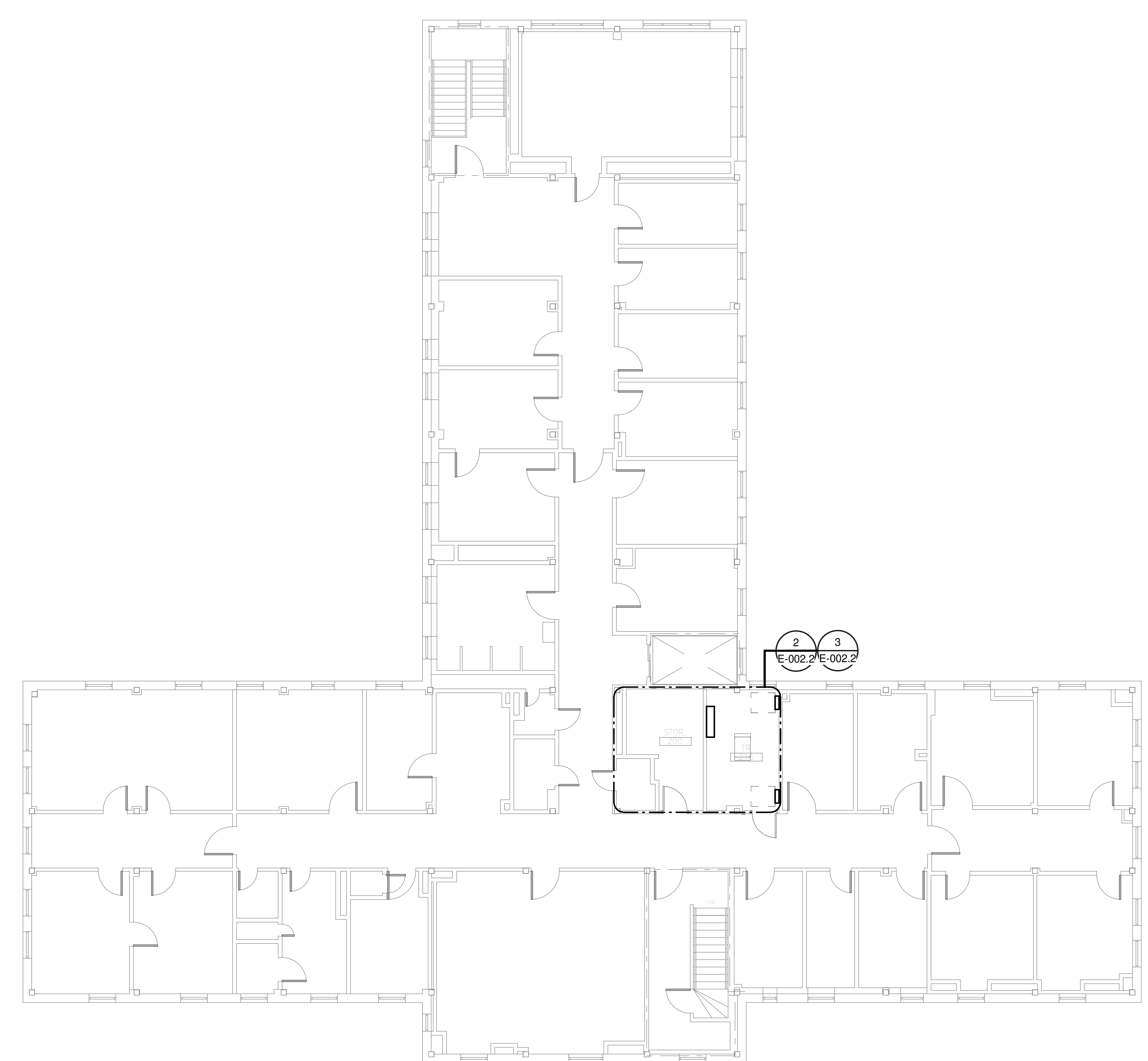


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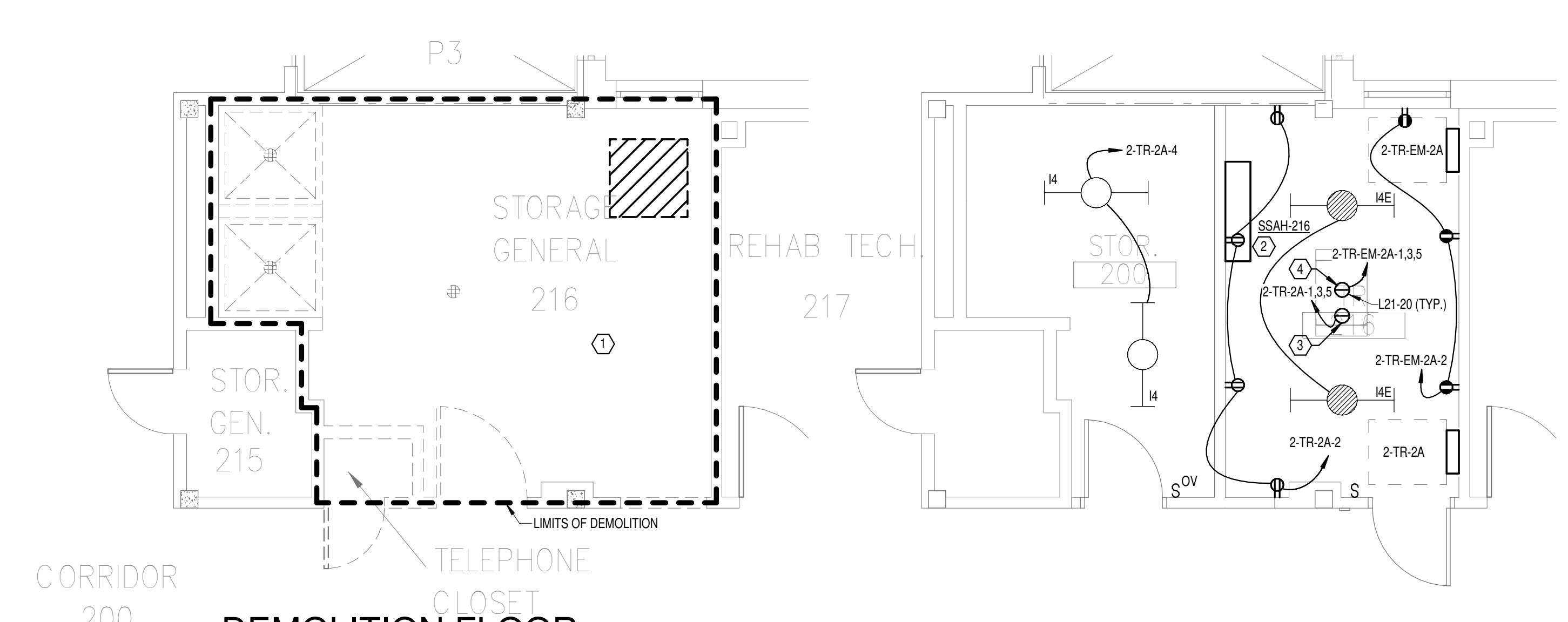
<b>CONSULTANT</b>  WileyWilson 127 Nationwide Drive Lynchburg, VA 24502 Phone: 434.947.1901 www.wileywilson.com		<b>ARCHITECT/ENGINEER OF RECORD</b>  Atriax, pllc 703 Main Avenue SE PO Box 1629, Hickory, NC 28603 Phone: 828.315.9962 Fax: 828.315.9964 NC Engineering License No.: P-0214 NC Architectural License No.: 51254		<b>STAMP</b> 	Office of Construction and Facilities Management U.S. Department of Veterans Affairs	Drawing Title <b>BUILDING 2 LEVEL 01 -                  ELECTRICAL</b> Approved:	Phase <b>100% CONSTRUCTION                  DOCUMENTS</b> <b>FULLY SPRINKLERED</b>	Project Title <b>EHRM INFRASTRUCTURE UPGRADES</b> Location TUSCALOOSA VAMC, TUSCALOOSA, AL. Issue Date 03/08/2024	Project Number <b>679-20-104</b> Building Number <b>2</b> Drawing Number <b>E-002.1</b>
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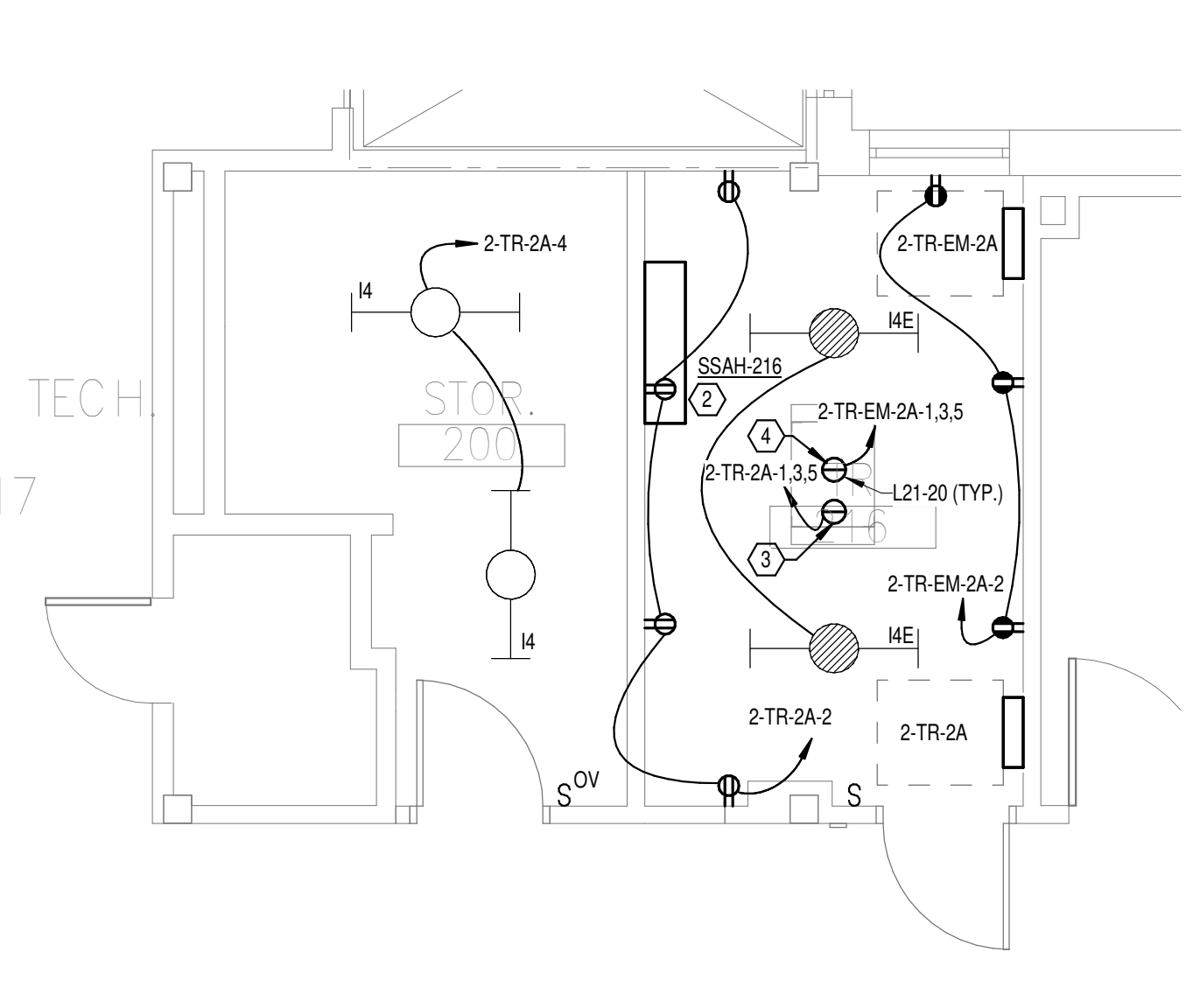
**GENERAL NOTES:**  
 A. REFER TO TELECOM, HVAC, AND FIRE PROTECTION DRAWINGS. COORDINATE LOCATION ON NEW LIGHTING FIXTURES, NEW ELECTRICAL PANELS, AND NEW CABLE TRAY MOUNTED RECEPTACLES WITH OTHER DISCIPLINES.  
**SHEET NOTES:**  
 1. REMOVE ALL EXISTING DEVICES AND WIRING BACK TO SOURCE. VISIT SITE TO DETERMINE FULL EXTENT OF DEMOLITION.  
 2. REFER TO EQUIPMENT CONNECTION SCHEDULE.  
 3. PROVIDE RECEPTACLE FOR BUS B. MOUNT RECEPTACLE TO CABLE TRAY ABOVE RACK.  
 4. PROVIDE RECEPTACLE FOR BUS A. MOUNT RECEPTACLE TO CABLE TRAY ABOVE RACK.



**1**  
**OVERALL FLOOR PLAN**  
**LEVEL 02 - ELECTRICAL**  
 1/4" = 1'-0"



**2**  
**DEMOLITION FLOOR PLAN**  
**LEVEL 02 - ELECTRICAL**  
 1/4" = 1'-0"



**3**  
**NEW FLOOR PLAN LEVEL**  
**02 - ELECTRICAL**  
 1/4" = 1'-0"

**PANEL: 2-TR-2A**

LOCATION: TR 216  
 SUPPLY FROM: 2-TR-DP  
 BRANCH: NORMAL  
 SERVICE RATED: No  
 MOUNTING: SURFACE  
 NEMA ENCLOSURE: NEMA 1

VOLTS: 208/120 WYE  
 PHASES: 3  
 WIRES: 4  
 INTEGRAL SPD: Yes  
 AVAILABLE SCC (KA): 10

MAINS TYPE: MLO  
 MCB/MLO RATING: 100 A  
 MCB OPTIONS: 1  
 SECTIONS: 1  
 PANEL POLES: 24

CKT	CIRCUIT DESCRIPTION	OPT	RATING	POLES	A	B	C	POLES	RATING	OPT	CIRCUIT DESCRIPTION	CKT	
1	REC - IT RACK TR-216		20 A	3	1667 VA	720 VA		1	20 A		REC - TR-216	2	
3						1667 VA	66 VA	1	20 A		LTG - STOR 200	4	
5							1667 VA	0 VA	1	20 A	-- SPARE	6	
7	SPARE	--	20 A	1	0 VA	0 VA		1	20 A	--	SPARE	8	
9	SPARE	--	20 A	1	0 VA	0 VA		1	20 A	--	SPARE	10	
11	SPARE	--	20 A	1			0 VA	0 VA	1	20 A	--	SPARE	12
13	SPARE	--	20 A	1	0 VA	0 VA		1	20 A	--	SPARE	14	
15	SPARE	--	20 A	1			0 VA	0 VA	1	20 A	--	SPARE	16
17	SPACE	--	--	1					1	--	SPACE	18	
19	SPACE	--	--	1					1	--	SPACE	20	
21	SPACE	--	--	1					1	--	SPACE	22	
23	SPACE	--	--	1					1	--	SPACE	24	
<b>TOTAL LOAD:</b>					2387 VA	1733 VA	1667 VA						
<b>TOTAL AMPS:</b>					20 A	15 A	14 A						

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS
LTG	66 VA	125.00%	83 VA	CONNECTED LOAD: 5786 VA
PWR-C	5000 VA	125.00%	6250 VA	CONNECTED CURRENT: 16 A
REC	720 VA	100.00%	720 VA	DEMAND LOAD: 7053 VA
				DEMAND CURRENT: 20 A
				CONSIDER 125% DEMAND: 8816 A
				EQUIPMENT AMPS: 100 A
				FEEDER AVAILABLE: 80 A
				SPARE CAPACITY: 80 A

**OPTIONS:**  
 CIRCUIT BREAKER OPTIONS SUFFIX: 'S' OR 'ST' - PROVIDE SHUNT TRIP CIRCUIT BREAKER / 'G' OR 'GFCI' - PROVIDE GFCI CIRCUIT BREAKER / 'GFP' - PROVIDE GFP CIRCUIT BREAKER / 'ERMS' - ENERGY REDUCING MAINTENANCE SWITCH / 'ZSF' - ZONE SELECTIVE INTERLOCKING / 'L' - PROVIDE CIRCUIT BREAKER WITH LOCKING PROVISIONS / 'R' - PROVIDE CIRCUIT BREAKER WITH RED MARKING

**GENERAL REMARKS:**  
 A. PANEL AIC (INTERRUPTING) RATING SHALL BE MINIMUM 120% OF THE AVAILABLE SCC (SHORT CIRCUIT CURRENT).  
 B. BUS B PANEL.  
 C. WHERE NEW PANELS ARE SHOWN AT TELECOM PLYWOOD LOCATIONS, MOUNT PANELS TO PLYWOOD.

**PANEL: 2-TR-EM-2A**

LOCATION: TR 216  
 SUPPLY FROM: 2-TR-EM-DP  
 BRANCH: EMERGENCY  
 SERVICE RATED: No  
 MOUNTING: SURFACE  
 NEMA ENCLOSURE: NEMA 1

VOLTS: 208/120 WYE  
 PHASES: 3  
 WIRES: 4  
 INTEGRAL SPD: Yes  
 AVAILABLE SCC (KA): 10

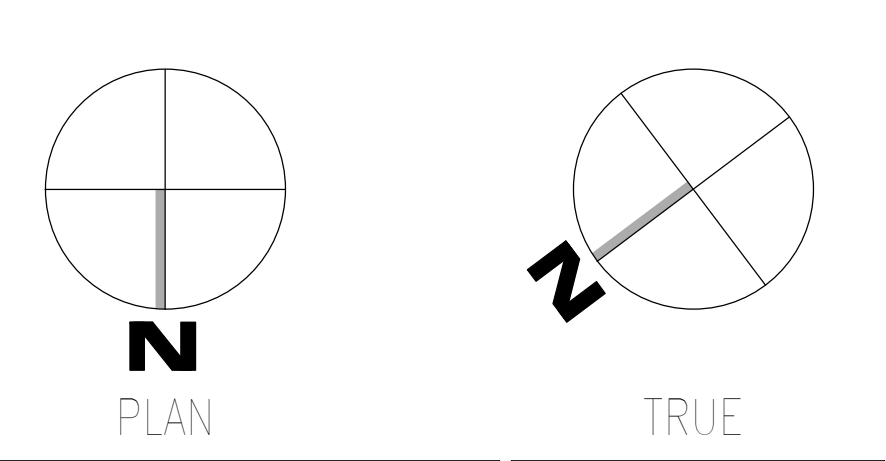
MAINS TYPE: MLO  
 MCB/MLO RATING: 100 A  
 MCB OPTIONS: 1  
 SECTIONS: 1  
 PANEL POLES: 24

CKT	CIRCUIT DESCRIPTION	OPT	RATING	POLES	A	B	C	POLES	RATING	OPT	CIRCUIT DESCRIPTION	CKT	
1	REC - IT RACK TR-216		20 A	3	1667 VA	540 VA		1	20 A		REC - TR-216	2	
3						1667 VA	66 VA	1	20 A		LTG - TR-216	4	
5							1667 VA	0 VA	1	20 A	-- SPARE	6	
7	SSCU-216/SSAH-216		25 A	2	980 VA	0 VA		1	20 A	--	SPARE	8	
9	SPARE	--	20 A	1			980 VA	0 VA	1	20 A	--	SPARE	10
11	SPARE	--	20 A	1			0 VA	0 VA	1	20 A	--	SPARE	12
13	SPARE	--	20 A	1	0 VA	0 VA		1	20 A	--	SPARE	14	
15	SPARE	--	20 A	1			0 VA	0 VA	1	20 A	--	SPARE	16
17	SPACE	--	--	1					1	--	SPACE	18	
19	SPACE	--	--	1					1	--	SPACE	20	
21	SPACE	--	--	1					1	--	SPACE	22	
23	SPACE	--	--	1					1	--	SPACE	24	
<b>TOTAL LOAD:</b>					3187 VA	2713 VA	1667 VA						
<b>TOTAL AMPS:</b>					28 A	24 A	14 A						

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS
LTG	66 VA	125.00%	83 VA	CONNECTED LOAD: 1766 VA
PWR-C	5000 VA	125.00%	6250 VA	CONNECTED CURRENT: 21 A
REC	540 VA	100.00%	540 VA	DEMAND LOAD: 9323 VA
MEQ-C	1960 VA	125.00%	2450 VA	DEMAND CURRENT: 26 A
				CONSIDER 125% DEMAND: 11653 A
				EQUIPMENT AMPS: 100 A
				FEEDER AVAILABLE: 74 A
				SPARE CAPACITY: 74 A

**OPTIONS:**  
 CIRCUIT BREAKER OPTIONS SUFFIX: 'S' OR 'ST' - PROVIDE SHUNT TRIP CIRCUIT BREAKER / 'G' OR 'GFCI' - PROVIDE GFCI CIRCUIT BREAKER / 'GFP' - PROVIDE GFP CIRCUIT BREAKER / 'ERMS' - ENERGY REDUCING MAINTENANCE SWITCH / 'ZSF' - ZONE SELECTIVE INTERLOCKING / 'L' - PROVIDE CIRCUIT BREAKER WITH LOCKING PROVISIONS / 'R' - PROVIDE CIRCUIT BREAKER WITH RED MARKING

**GENERAL REMARKS:**  
 A. PANEL AIC (INTERRUPTING) RATING SHALL BE MINIMUM 120% OF THE AVAILABLE SCC (SHORT CIRCUIT CURRENT).  
 B. BUS B PANEL.  
 C. WHERE NEW PANELS ARE SHOWN AT TELECOM PLYWOOD LOCATIONS, MOUNT PANELS TO PLYWOOD.



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Revisions:	Date:

**CONSULTANT**

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 Lynchburg, VA 24502  
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 www.wileywilson.com

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 Fax: 828.315.9964

NC Engineering License No.: P-0214  
 NC Architectural License No.: 51254

**STAMP**

**Office of Construction and Facilities Management**

**VA** U.S. Department of Veterans Affairs

Drawing Title  
**BUILDING 2 LEVEL 02 - ELECTRICAL**

Approved: \_\_\_\_\_

Phase  
**100% CONSTRUCTION DOCUMENTS**

**FULLY SPRINKLERED**

Project Title  
**EHRM INFRASTRUCTURE UPGRADES**

Project Number  
**679-20-104**

Building Number  
**2**

Drawing Number  
**E-002.2**

Location  
**TUSCALOOSA VAMC, TUSCALOOSA, AL.**

Issue Date  
**03/08/2024**

Checked  
**CGH**

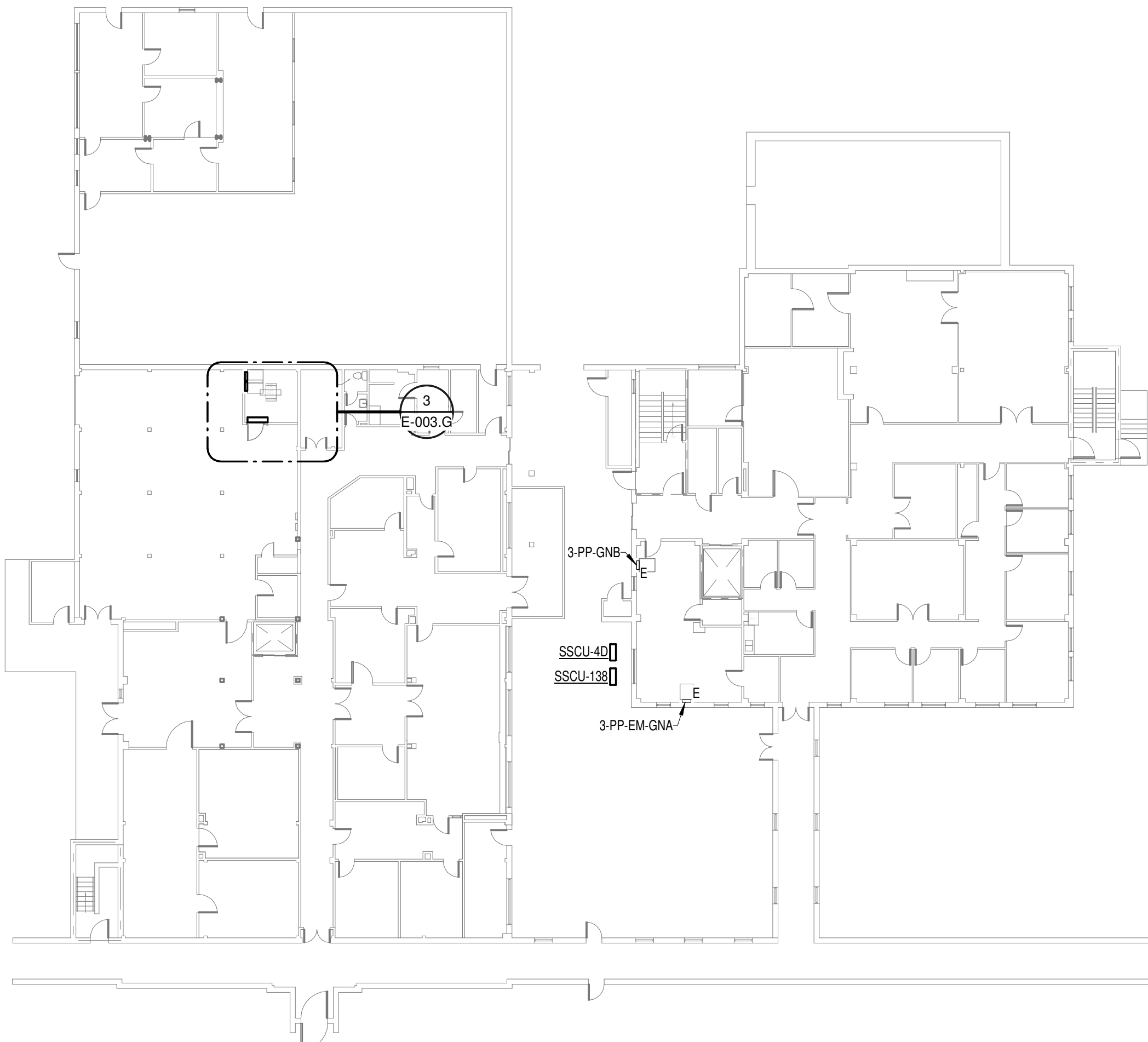
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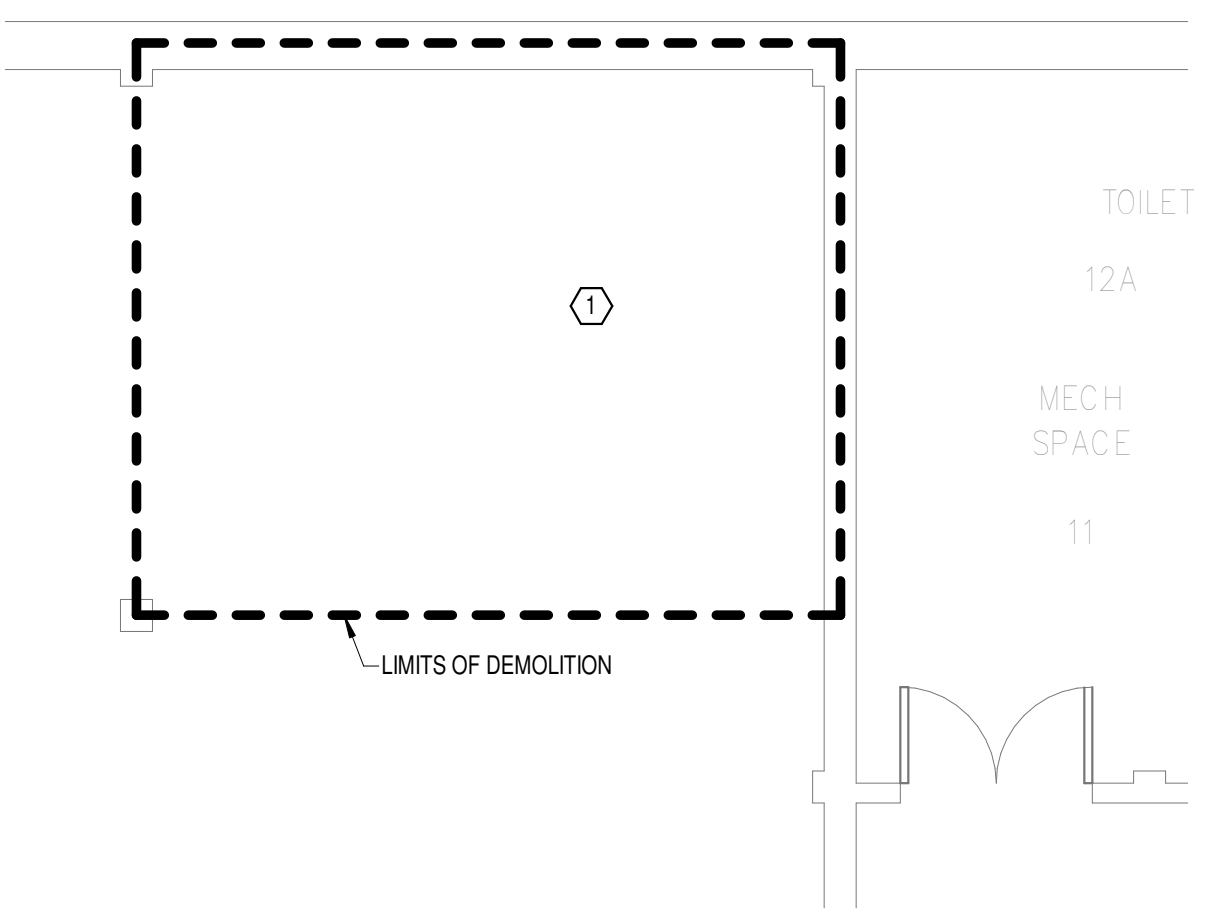




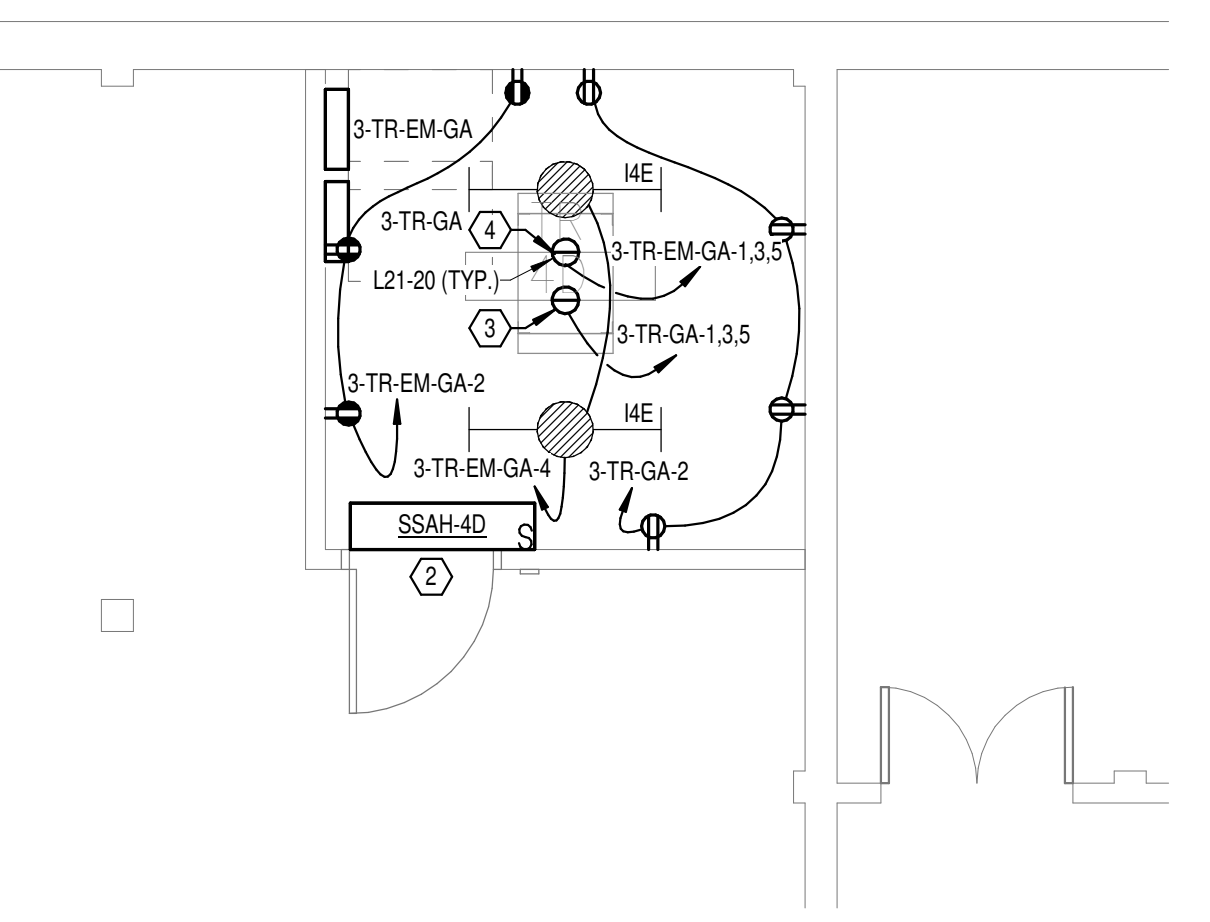
**GENERAL NOTES:**  
 A. REFER TO TELECOM, HVAC, AND FIRE PROTECTION DRAWINGS. COORDINATE LOCATION ON NEW LIGHTING FIXTURES, NEW ELECTRICAL PANELS, AND NEW CABLE TRAY MOUNTED RECEPTACLES WITH OTHER DISCIPLINES.  
**SHEET NOTES:**  
 1. REMOVE ALL EXISTING DEVICES AND WIRING BACK TO SOURCE. VISIT SITE TO DETERMINE FULL EXTENT OF DEMOLITION.  
 2. REFER TO EQUIPMENT CONNECTION SCHEDULE.  
 3. PROVIDE RECEPTACLE FOR BUS B. MOUNT RECEPTACLE TO CABLE TRAY ABOVE BACK.  
 4. PROVIDE RECEPTACLE FOR BUS A. MOUNT RECEPTACLE TO CABLE TRAY ABOVE BACK.



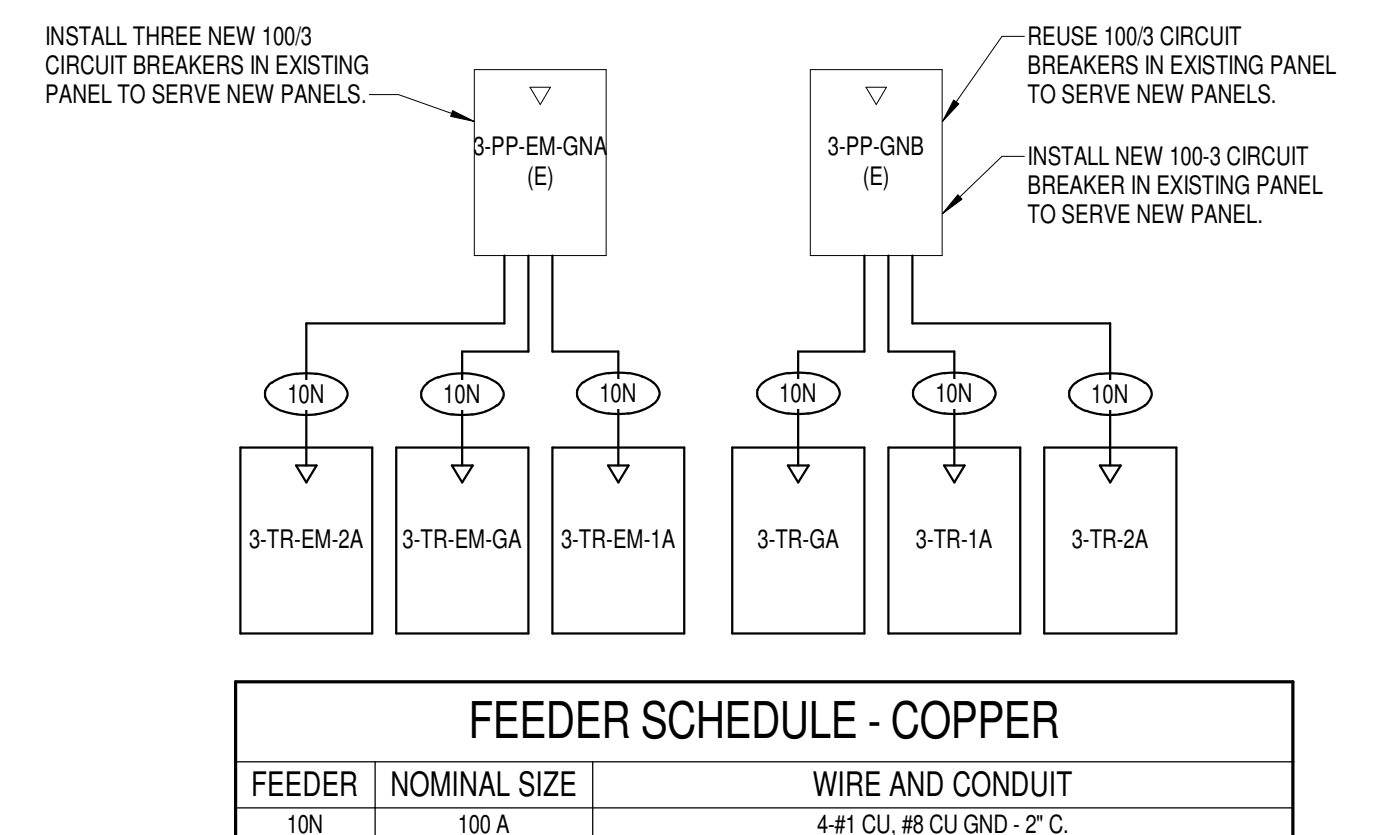
**1**  
 OVERALL FLOOR PLAN  
 GROUND LEVEL -  
 ELECTRICAL  
 NTS



**2**  
 DEMOLITION FLOOR  
 PLAN GROUND FLOOR -  
 ELECTRICAL  
 1/4" = 1'-0"



**3**  
 NEW FLOOR PLAN  
 GROUND FLOOR -  
 ELECTRICAL  
 1/4" = 1'-0"



**4**  
 BUILDING 3 -  
 ELECTRICAL ONE-LINE  
 NO SCALE

FEEDER	NOMINAL SIZE	WIRE AND CONDUIT
10N	100 A	4-#1 CU, #6 CU GND - 2" C.



**5**  
 EXISTING PANEL  
 3-PP-EM-GNA  
 NO SCALE



**6**  
 EXISTING PANEL  
 3-PP-GNB  
 NO SCALE

MARK	DESCRIPTION	FLA	MCA	MOCPP	VOLTS	PHASE	POLES	LOAD [VA]	CONTROL TYPE	DISCONNECT BY	DISCONNECT TYPE	FEEDER	PANEL	CIRCUIT NUMBER	SCCR	GEN	REMARKS
SSAH-4D	SPLIT SYSTEM CONDENSING UNIT				208	1	2		INT	-	-	(3X) (30A) 2-#10 CU #10 CU GND - 3/4"	3-TR-EM-GA	7.9	5	Yes	2
SSAH-138	SPLIT SYSTEM CONDENSING UNIT				208	1	2		INT	-	-	(3X) (30A) 2-#10 CU #10 CU GND - 3/4"	3-TR-EM-1A	7.9	5	Yes	2
SSAH-216	SPLIT SYSTEM CONDENSING UNIT				208	1	2		INT	-	-	(3X) (30A) 2-#10 CU #10 CU GND - 3/4"	3-TR-EM-2A	7.9	5	Yes	2
SSCU-4D	SPLIT SYSTEM CONDENSING UNIT	15.2	19	25	208	1	2	1960	INT	ELECTRICAL	30A/2P/288V FUSED DISCONNECT SWITCH	(3X) (30A) 2-#10 CU #10 CU GND - 3/4"	3-TR-EM-GA	7.9	5	Yes	1
SSCU-138	SPLIT SYSTEM CONDENSING UNIT	15.2	19	25	208	1	2	1960	INT	ELECTRICAL	30A/2P/288V FUSED DISCONNECT SWITCH	(3X) (30A) 2-#10 CU #10 CU GND - 3/4"	3-TR-EM-1A	7.9	5	Yes	1
SSCU-216	SPLIT SYSTEM CONDENSING UNIT	15.2	19	25	208	1	2	1960	INT	ELECTRICAL	30A/2P/288V FUSED DISCONNECT SWITCH	(3X) (30A) 2-#10 CU #10 CU GND - 3/4"	3-TR-EM-2A	7.9	5	Yes	1

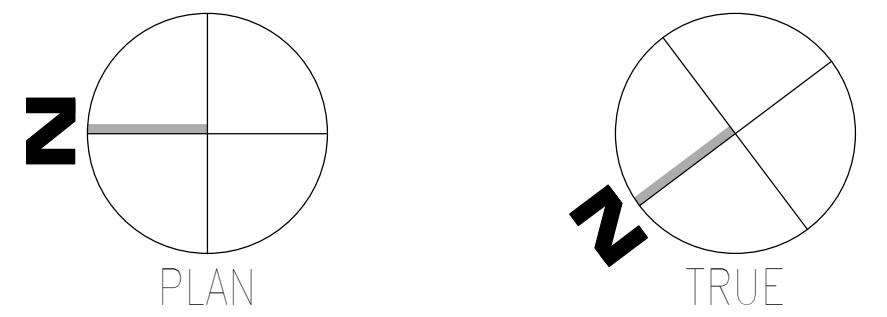
REMARKS: EQUIPMENT CONNECTION SCHEDULE  
 1. CONTROLS BETWEEN INDOOR AND OUTDOOR UNITS - INCLUDE CONTROL WIRING IN CONDUIT BETWEEN INDOOR AND OUTDOOR UNIT PER MANUFACTURERS REQUIREMENTS.  
 2. "CONTROL TYPE" - PROVIDE CONTROL AND CONNECTIONS "INT" - CONTROLS ARE MANUFACTURED INTEGRAL TO THE EQUIPMENT (SELF-CONTAINED).

CKT	CIRCUIT DESCRIPTION	OPT	RATING	POLES	A	B	C	POLES	RATING	OPT	CIRCUIT DESCRIPTION	CKT
1	REC - IT RACK TR-4D		20 A	3	1667 VA	540 VA		1	20 A		REC - TR-4D	2
3	REC - IT RACK TR-4D		20 A	3	1667 VA	66 VA		1	20 A		LTG - TR-4D	4
5							1667 VA	0 VA	1	20 A	SPARE	6
7	SSCU-4A/SSAH-4A		25 A	2	980 VA	0 VA		1	20 A		SPARE	8
9	SPARE		20 A	1		980 VA	0 VA	1	20 A		SPARE	10
11	SPARE		20 A	1			0 VA	0 VA	1	20 A	SPARE	12
13	SPARE		20 A	1	0 VA	0 VA		1	20 A		SPARE	14
15	SPARE		20 A	1		0 VA	0 VA	1	20 A		SPARE	16
17	SPACE			1				1			SPACE	18
19	SPACE			1				1			SPACE	20
21	SPACE			1				1			SPACE	22
23	SPACE			1				1			SPACE	24
<b>TOTAL LOAD:</b>					3187 VA	2713 VA	1667 VA					
<b>TOTAL AMPS:</b>					28 A	24 A	14 A					

LOAD CLASSIFICATION  
 LTG 86 VA 125.00% 83 VA  
 PWR-C 6000 VA 125.00% 6250 VA  
 REC 540 VA 100.00% 540 VA  
 MEQ-C 1960 VA 125.00% 2450 VA  
**PANEL TOTALS**  
 CONNECTED LOAD: 7566 VA  
 CONNECTED CURRENT: 21 A  
 DEMAND LOAD: 9323 VA  
 DEMAND CURRENT: 26 A  
 CONSIDER 125% DEMAND: 11653 A  
 EQUIPMENT AMPS: 100 A  
 FEEDER AVAILABLE:  
 SPARE CAPACITY: 74 %  
 74 A

CKT	CIRCUIT DESCRIPTION	OPT	RATING	POLES	A	B	C	POLES	RATING	OPT	CIRCUIT DESCRIPTION	CKT
1	REC - IT RACK TR-4D		20 A	3	1667 VA	720 VA		1	20 A		REC - TR-4D	2
3	REC - IT RACK TR-4D		20 A	3	1667 VA	0 VA		1	20 A		SPARE	4
5							1667 VA	0 VA	1	20 A	SPARE	6
7	SPARE		20 A	1	0 VA	0 VA		1	20 A		SPARE	8
9	SPARE		20 A	1		0 VA	0 VA	1	20 A		SPARE	10
11	SPARE		20 A	1			0 VA	0 VA	1	20 A	SPARE	12
13	SPARE		20 A	1	0 VA	0 VA		1	20 A		SPARE	14
15	SPARE		20 A	1		0 VA	0 VA	1	20 A		SPARE	16
17	SPACE			1				1			SPACE	18
19	SPACE			1				1			SPACE	20
21	SPACE			1				1			SPACE	22
23	SPACE			1				1			SPACE	24
<b>TOTAL LOAD:</b>					2387 VA	1667 VA	1667 VA					
<b>TOTAL AMPS:</b>					20 A	14 A	14 A					

LOAD CLASSIFICATION  
 PWR-C 5000 VA 125.00% 6250 VA  
 REC 720 VA 100.00% 720 VA  
**PANEL TOTALS**  
 CONNECTED LOAD: 5720 VA  
 CONNECTED CURRENT: 16 A  
 DEMAND LOAD: 6970 VA  
 DEMAND CURRENT: 19 A  
 CONSIDER 125% DEMAND: 8713 A  
 EQUIPMENT AMPS: 100 A  
 FEEDER AVAILABLE:  
 SPARE CAPACITY: 80 %  
 81 A



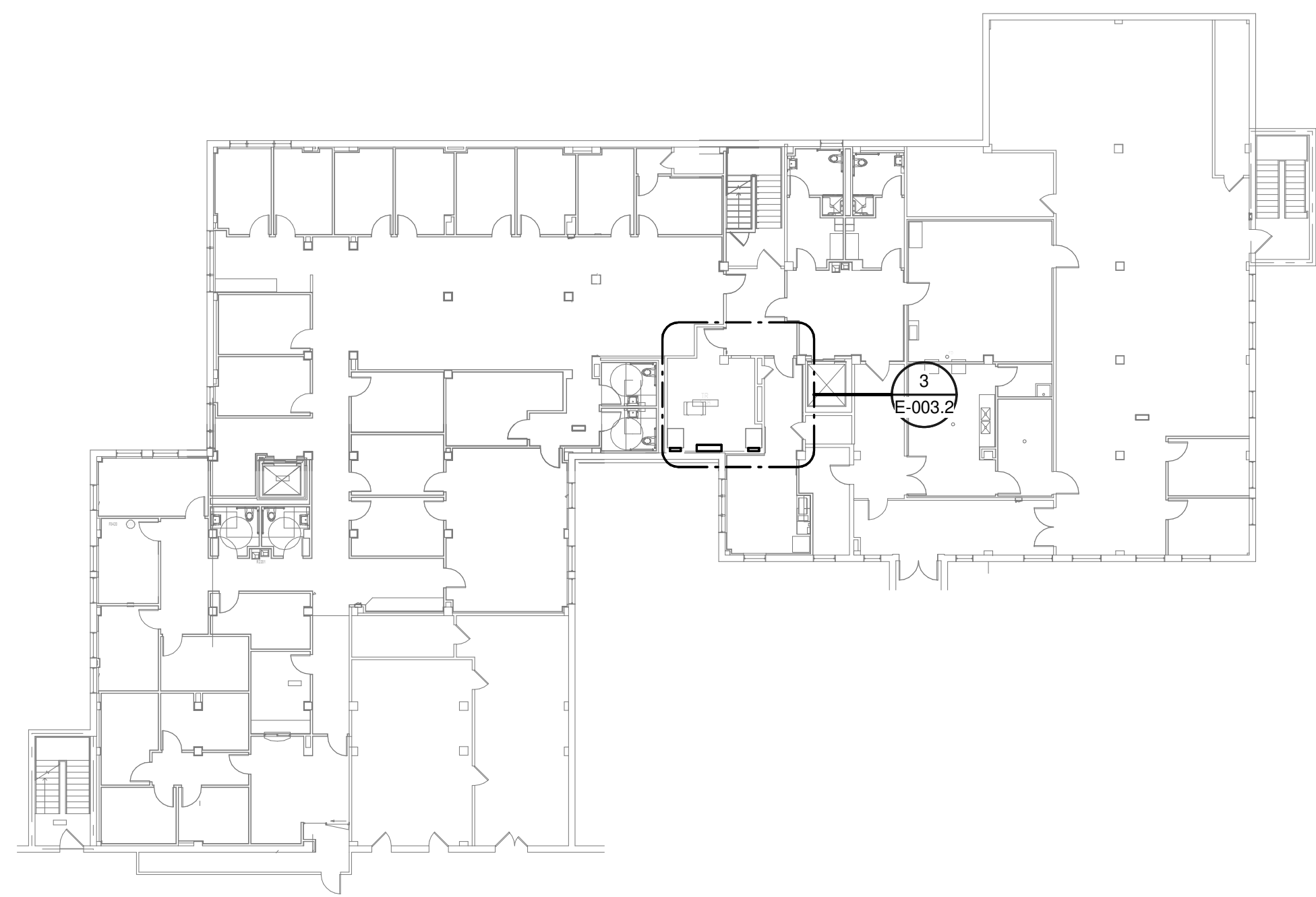
<b>CONSULTANT</b>  WileyWilson 127 Nationwide Drive Lynchburg, VA 24502 Phone: 434.947.1901 www.wileywilson.com		<b>ARCHITECT/ENGINEER OF RECORD</b>  Atriax, pllc 102 3rd Avenue, NE PO Box 1629, Hichory, NC 28603 Phone: 828.315.9962 Fax: 828.315.9964 NC Engineering License No.: P-0214 NC Architectural License No.: 51254		<b>STAMP</b> 	Office of Construction and Facilities Management U.S. Department of Veterans Affairs	Drawing Title <b>BUILDING 3 GROUND LEVEL -                  ELECTRICAL</b> Approved:	Phase <b>100% CONSTRUCTION                  DOCUMENTS</b> <b>FULLY SPRINKLERED</b>	Project Title <b>EHRM INFRASTRUCTURE UPGRADES</b> Location <b>TUSCALOOSA VAMC, TUSCALOOSA, AL.</b> Issue Date 03/08/2024	Project Number <b>679-20-104</b> Building Number <b>3</b> Drawing Number <b>E-003.G</b>
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**GENERAL NOTES:**

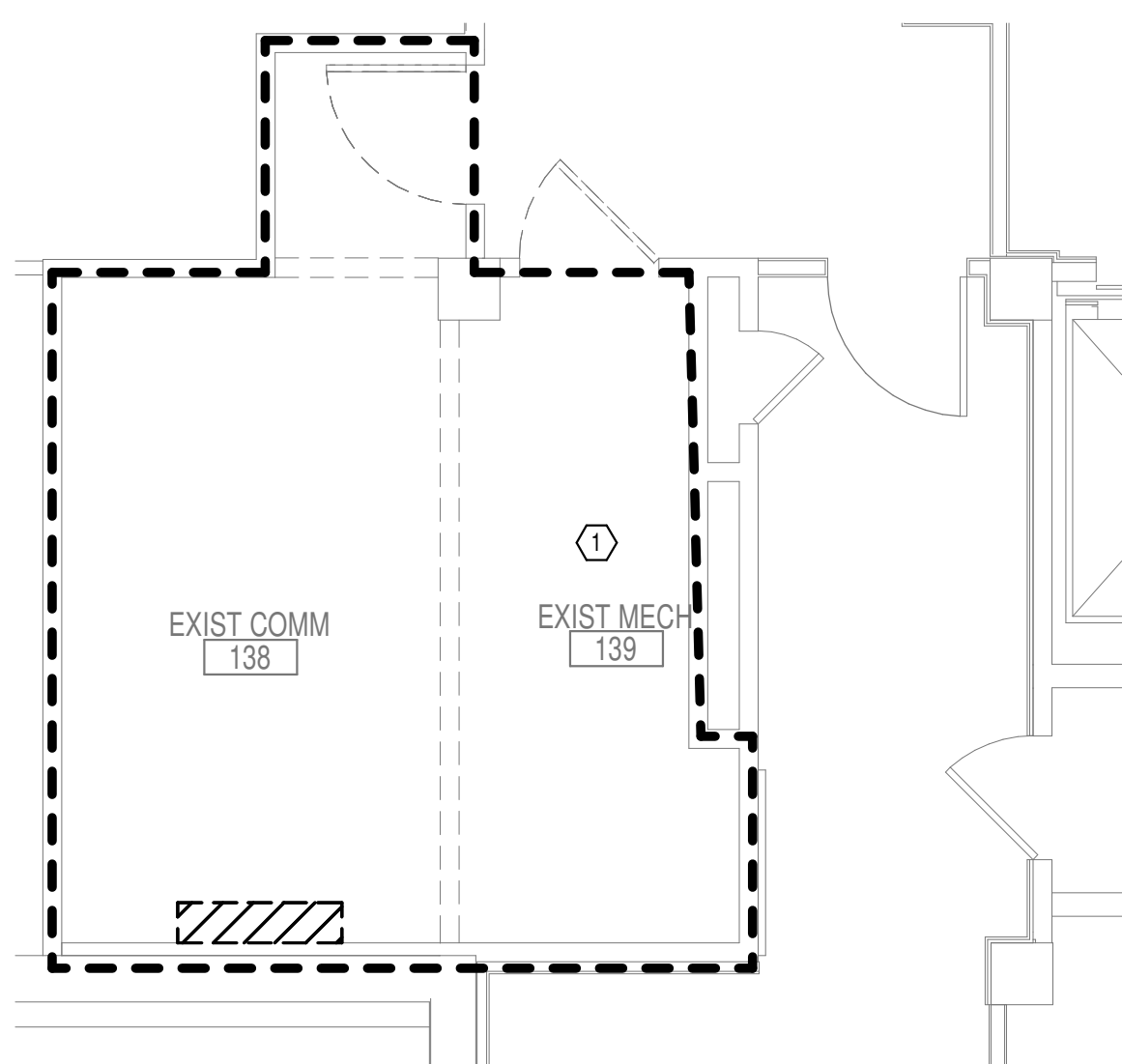
- A. REFER TO TELECOM, HVAC, AND FIRE PROTECTION DRAWINGS. COORDINATE LOCATION ON NEW LIGHTING FIXTURES, NEW ELECTRICAL PANELS, AND NEW CABLE TRAY MOUNTED RECEPTACLES WITH OTHER DISCIPLINES.

**SHEET NOTES:**

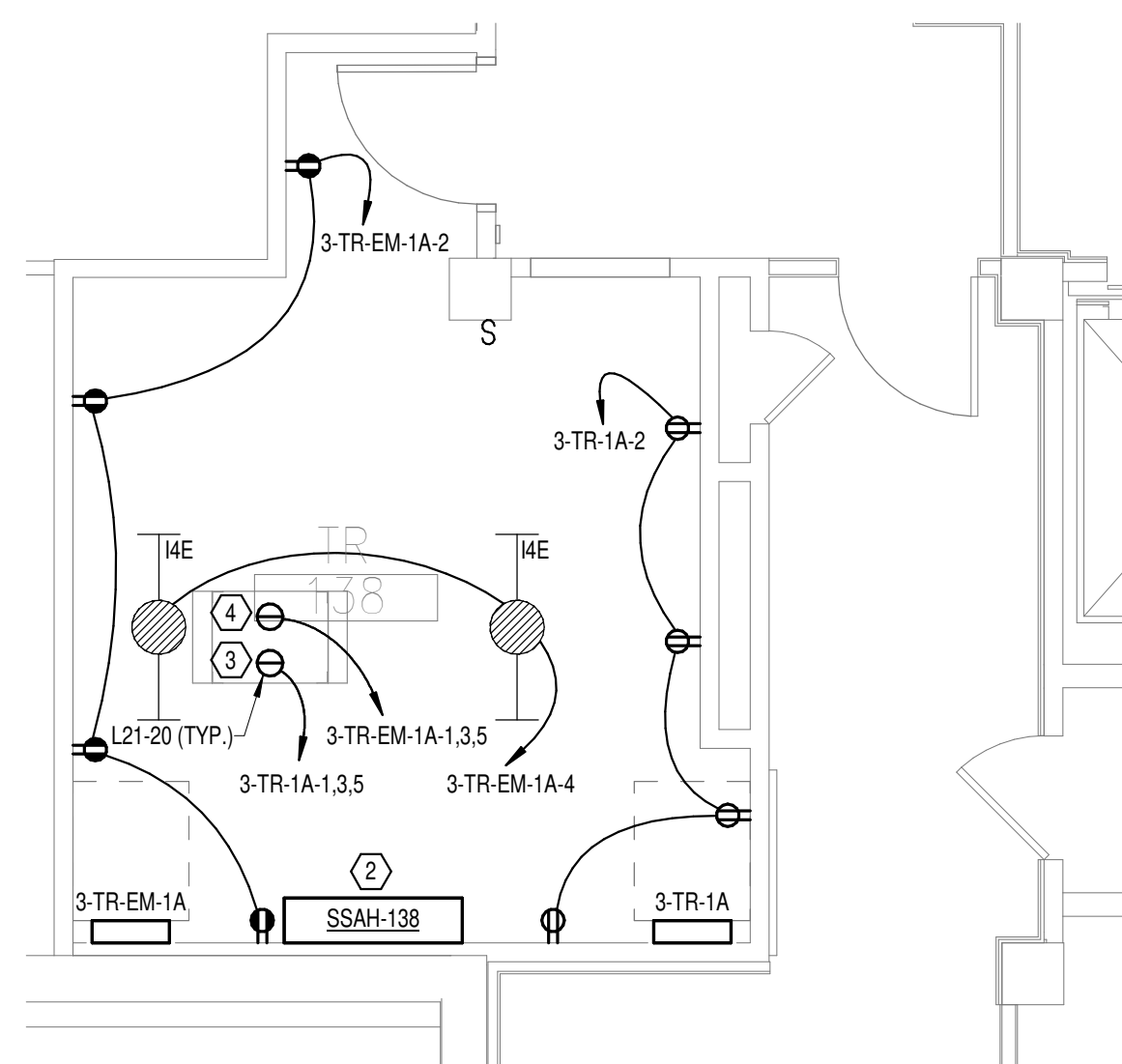
- 1. REMOVE ALL EXISTING DEVICES AND WIRING BACK TO SOURCE. VISIT SITE TO DETERMINE FULL EXTENT OF DEMOLITION.
- 2. REFER TO EQUIPMENT CONNECTION SCHEDULE.
- 3. PROVIDE RECEPTACLE FOR BUS B. MOUNT RECEPTACLE TO CABLE TRAY ABOVE RACK.
- 4. PROVIDE RECEPTACLE FOR BUS A. MOUNT RECEPTACLE TO CABLE TRAY ABOVE RACK.



**OVERALL FLOOR PLAN  
LEVEL 01 - ELECTRICAL**  
1 NTS



**DEMOLITION FLOOR PLAN LEVEL 01 - ELECTRICAL**  
2 1/4" = 1'-0"



**NEW FLOOR PLAN LEVEL 01 - ELECTRICAL**  
3 1/4" = 1'-0"

**PANEL: 3-TR-1A**

LOCATION: TR 138      VOLTS: 208/120 WYE      MAINS TYPE: MLO  
 SUPPLY FROM: 3-PP-GNB      PHASES: 3      MCB/MLO RATING: 100 A  
 BRANCH: NORMAL      WIRES: 4      MCB OPTIONS:  
 SERVICE RATED: No      INTEGRAL SPD: Yes      SECTIONS: 1  
 MOUNTING: SURFACE      AVAILABLE SCC (KA): 10      PANEL POLES: 24  
 NEMA ENCLOSURE: NEMA 1

CKT	CIRCUIT DESCRIPTION	OPT	RATING	POLES	A	B	C	POLES	RATING	OPT	CIRCUIT DESCRIPTION	CKT	
1	REC - IT RACK TR-138		20 A	3	1667 VA	720 VA		1	20 A	--	REC - TR-138	2	
3					1667 VA	0 VA		1	20 A	--	SPARE	4	
5							1667 VA	0 VA	1	20 A	--	SPARE	6
7	SPARE	--	20 A	1	0 VA	0 VA		1	20 A	--	SPARE	8	
9	SPARE	--	20 A	1		0 VA	0 VA	1	20 A	--	SPARE	10	
11	SPARE	--	20 A	1			0 VA	0 VA	1	20 A	--	SPARE	12
13	SPARE	--	20 A	1	0 VA	0 VA		1	20 A	--	SPARE	14	
15	SPARE	--	20 A	1		0 VA	0 VA	1	20 A	--	SPARE	16	
17	SPACE	--	--	1	--	--	--	--	--	--	SPACE	18	
19	SPACE	--	--	1	--	--	--	--	--	--	SPACE	20	
21	SPACE	--	--	1	--	--	--	--	--	--	SPACE	22	
23	SPACE	--	--	1	--	--	--	--	--	--	SPACE	24	
<b>TOTAL LOAD:</b>					2387 VA	1667 VA	1667 VA						
<b>TOTAL AMPS:</b>					20 A	14 A	14 A						

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS
PWR-C	5000 VA	125.00%	6250 VA	CONNECTED LOAD: 5720 VA
REC	720 VA	100.00%	720 VA	CONNECTED CURRENT: 16 A
				DEMAND LOAD: 6970 VA
				DEMAND CURRENT: 19 A
				CONSIDER 125% DEMAND: 8713 A
				EQUIPMENT AMPS: 100 A
				FEEDER AVAILABLE:
				SPARE CAPACITY: 80 %
				81 A

**OPTIONS:**

CIRCUIT BREAKER OPTIONS SUFFIX: 'S' OR 'ST' - PROVIDE SHUNT TRIP CIRCUIT BREAKER / 'G' OR 'GFCI' - PROVIDE GFCI CIRCUIT BREAKER / 'GFP' - PROVIDE GFP CIRCUIT BREAKER / 'ERMS' - ENERGY REDUCING MAINTENANCE SWITCH / 'ZSI' - ZONE SELECTIVE INTERLOCKING / 'L' - PROVIDE CIRCUIT BREAKER WITH LOCKING PROVISIONS / 'R' - PROVIDE CIRCUIT BREAKER WITH RED MARKING

**GENERAL REMARKS:**

A. PANEL AIC (INTERRUPTING) RATING SHALL BE MINIMUM 120% OF THE AVAILABLE SCC (SHORT CIRCUIT CURRENT).  
 B. BUS B PANEL.  
 C. WHERE NEW PANELS ARE SHOWN AT TELECOM PLYWOOD LOCATIONS, MOUNT PANELS TO PLYWOOD.

**PANEL: 3-TR-EM-1A**

LOCATION: TR 138      VOLTS: 208/120 WYE      MAINS TYPE: MLO  
 SUPPLY FROM: 3-PP-EM-GNA      PHASES: 3      MCB/MLO RATING: 100 A  
 BRANCH: EMERGENCY      WIRES: 4      MCB OPTIONS:  
 SERVICE RATED: No      INTEGRAL SPD: Yes      SECTIONS: 1  
 MOUNTING: SURFACE      AVAILABLE SCC (KA): 10      PANEL POLES: 24  
 NEMA ENCLOSURE: NEMA 1

CKT	CIRCUIT DESCRIPTION	OPT	RATING	POLES	A	B	C	POLES	RATING	OPT	CIRCUIT DESCRIPTION	CKT	
1	REC - IT RACK TR-138		20 A	3	1667 VA	720 VA		1	20 A	--	REC - TR-138	2	
3					1667 VA	66 VA		1	20 A	--	LTG - TR-138	4	
5							1667 VA	0 VA	1	20 A	--	SPARE	6
7	SSCU-139/SSAH-139		25 A	2	980 VA	0 VA		1	20 A	--	SPARE	8	
9	SPARE	--	20 A	1		980 VA	0 VA	1	20 A	--	SPARE	10	
11	SPARE	--	20 A	1			0 VA	0 VA	1	20 A	--	SPARE	12
13	SPARE	--	20 A	1	0 VA	0 VA		1	20 A	--	SPARE	14	
15	SPARE	--	20 A	1		0 VA	0 VA	1	20 A	--	SPARE	16	
17	SPACE	--	--	1	--	--	--	--	--	--	SPACE	18	
19	SPACE	--	--	1	--	--	--	--	--	--	SPACE	20	
21	SPACE	--	--	1	--	--	--	--	--	--	SPACE	22	
23	SPACE	--	--	1	--	--	--	--	--	--	SPACE	24	
<b>TOTAL LOAD:</b>					3367 VA	2713 VA	1667 VA						
<b>TOTAL AMPS:</b>					29 A	24 A	14 A						

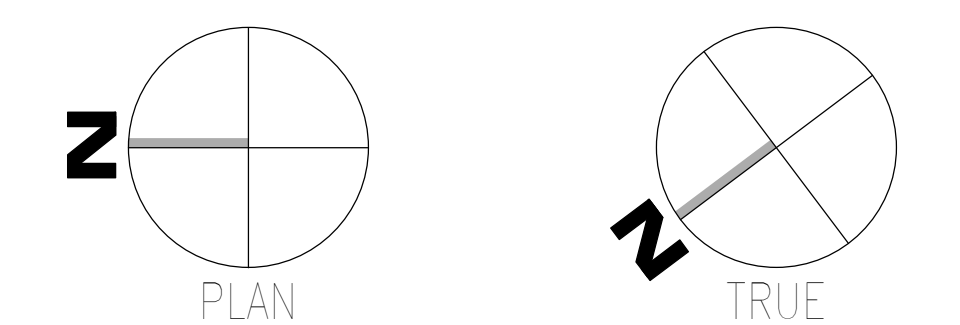
LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS
LTG	66 VA	125.00%	83 VA	CONNECTED LOAD: 7746 VA
PWR-C	5000 VA	125.00%	6250 VA	CONNECTED CURRENT: 22 A
REC	720 VA	100.00%	720 VA	DEMAND LOAD: 9503 VA
MEQ-C	1960 VA	125.00%	2450 VA	DEMAND CURRENT: 26 A
				CONSIDER 125% DEMAND: 11878 A
				EQUIPMENT AMPS: 100 A
				FEEDER AVAILABLE:
				SPARE CAPACITY: 73 %
				74 A

**OPTIONS:**

CIRCUIT BREAKER OPTIONS SUFFIX: 'S' OR 'ST' - PROVIDE SHUNT TRIP CIRCUIT BREAKER / 'G' OR 'GFCI' - PROVIDE GFCI CIRCUIT BREAKER / 'GFP' - PROVIDE GFP CIRCUIT BREAKER / 'ERMS' - ENERGY REDUCING MAINTENANCE SWITCH / 'ZSI' - ZONE SELECTIVE INTERLOCKING / 'L' - PROVIDE CIRCUIT BREAKER WITH LOCKING PROVISIONS / 'R' - PROVIDE CIRCUIT BREAKER WITH RED MARKING

**GENERAL REMARKS:**

A. PANEL AIC (INTERRUPTING) RATING SHALL BE MINIMUM 120% OF THE AVAILABLE SCC (SHORT CIRCUIT CURRENT).  
 B. BUS B PANEL.  
 C. WHERE NEW PANELS ARE SHOWN AT TELECOM PLYWOOD LOCATIONS, MOUNT PANELS TO PLYWOOD.



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 VA FORM 08 - 6231

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 Charlotte, NC 28204

**ARCHITECT/ENGINEER OF RECORD**

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 GROUP  
 www.atriaxgroup.com

Atriax, pllc  
 102 3rd Avenue, NE  
 PO Box 1629, Hickory, NC 28603  
 Phone: 828.315.9962  
 Fax: 828.315.9964

NC Engineering License No.: P-0214  
 NC Architectural License No.: 51254

**STAMP**

**Office of Construction and Facilities Management**

**VA** U.S. Department of Veterans Affairs

Drawing Title  
**BUILDING 3 LEVEL 01 - ELECTRICAL**

Approved:

Phase  
**100% CONSTRUCTION DOCUMENTS**

**FULLY SPRINKLERED**

Project Title  
**EHRM INFRASTRUCTURE UPGRADES**

Project Number  
**679-20-104**

Building Number  
**3**

Drawing Number  
**E-003.1**

Location  
**TUSCALOOSA VAMC, TUSCALOOSA, AL.**

Issue Date  
**03/08/2024**

Checked  
**CGH**

Drawn  
**MJJ**

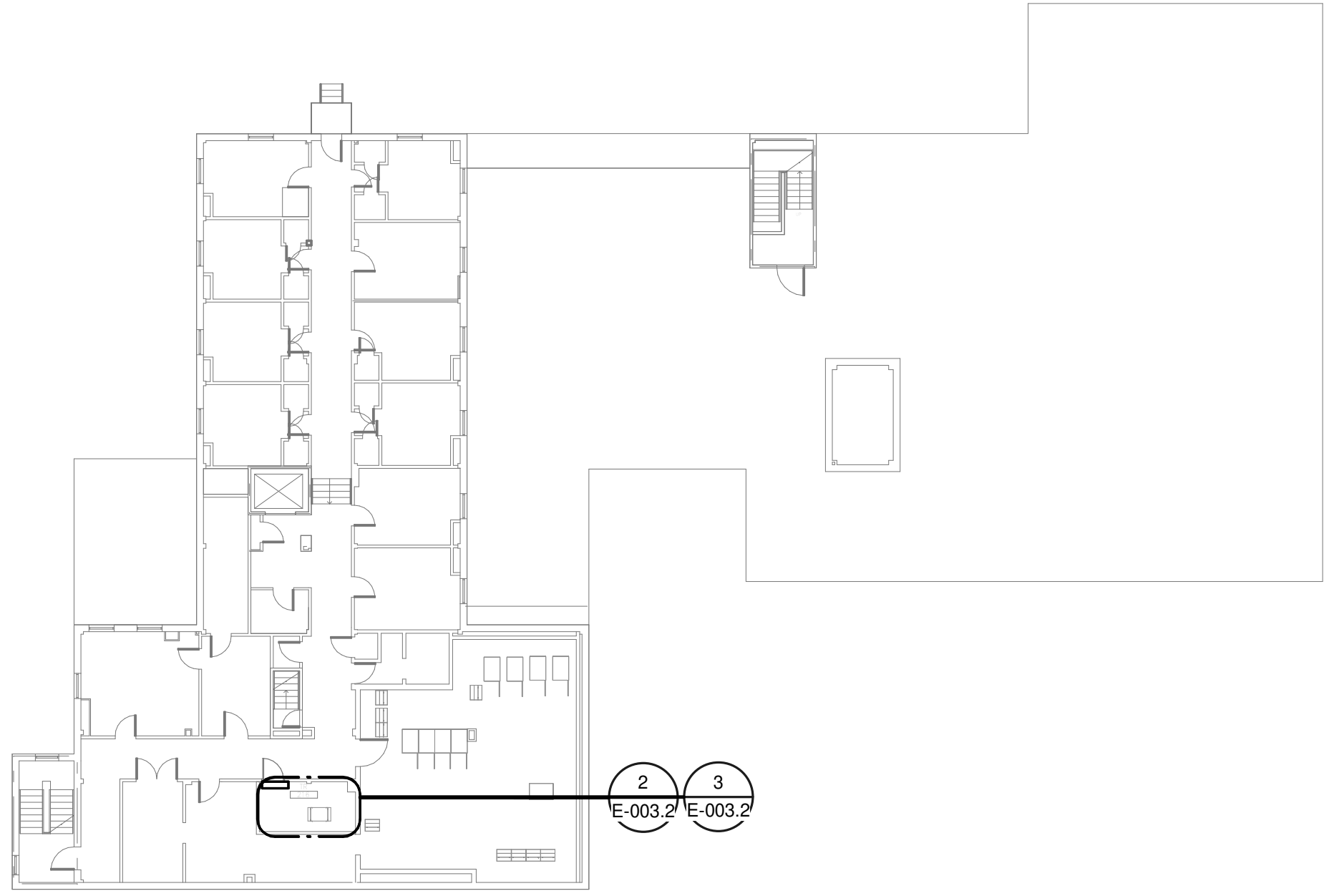


**GENERAL NOTES:**

- A. REFER TO TELECOM, HVAC, AND FIRE PROTECTION DRAWINGS. COORDINATE LOCATION ON NEW LIGHTING FIXTURES, NEW ELECTRICAL PANELS, AND NEW CABLE TRAY MOUNTED RECEPTACLES WITH OTHER DISCIPLINES.

**SHEET NOTES:**

- 1. REMOVE ALL EXISTING DEVICES AND WIRING BACK TO SOURCE. VISIT SITE TO DETERMINE FULL EXTENT OF DEMOLITION.
- 2. REFER TO EQUIPMENT CONNECTION SCHEDULE.
- 3. PROVIDE RECEPTACLE FOR BUS B. MOUNT RECEPTACLE TO CABLE TRAY ABOVE RACK.
- 4. PROVIDE RECEPTACLE FOR BUS A. MOUNT RECEPTACLE TO CABLE TRAY ABOVE RACK.



**OVERALL FLOOR PLAN  
LEVEL 02 - ELECTRICAL**

1  
NTS

PANEL: 3-TR-2A												
LOCATION: TR 216			VOLTS: 208/120 WYE			MAINS TYPE: MLO						
SUPPLY FROM: 3-PP-GNB			PHASES: 3			MCB/MLO RATING: 100 A						
BRANCH: NORMAL			WIRES: 4			MCB OPTIONS:						
SERVICE RATED: No			INTEGRAL SPD: Yes			SECTIONS: 1						
MOUNTING: SURFACE			AVAILABLE SCC (KA): 10			PANEL POLES: 24						
NEMA ENCLOSURE: NEMA 1												
CKT	CIRCUIT DESCRIPTION	OPT	RATING	POLES	A	B	C	POLES/RATING	OPT	CIRCUIT DESCRIPTION	CKT	
1										REC - TR-216	2	
3	REC - IT RACK TR-216		20 A	3	1667 VA	720 VA		1	20 A		4	
5											6	
7	SPARE	--	20 A	1	0 VA	0 VA		1	20 A	--	8	
9	SPARE	--	20 A	1	0 VA	0 VA		1	20 A	--	10	
11	SPARE	--	20 A	1	0 VA	0 VA		1	20 A	--	12	
13	SPARE	--	20 A	1	0 VA	0 VA		1	20 A	--	14	
15	SPARE	--	20 A	1	0 VA	0 VA		1	20 A	--	16	
17	SPACE	--	--	1	--	--		1	--	--	18	
19	SPACE	--	--	1	--	--		1	--	--	20	
21	SPACE	--	--	1	--	--		1	--	--	22	
23	SPACE	--	--	1	--	--		1	--	--	24	
<b>TOTAL LOAD:</b>					2387 VA	1667 VA	1667 VA					
<b>TOTAL AMPS:</b>					20 A	14 A	14 A					
LOAD CLASSIFICATION		CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS							
PWR-C		5000 VA	125.00%	6250 VA	CONNECTED LOAD: 5720 VA							
REC		720 VA	100.00%	720 VA	CONNECTED CURRENT: 16 A							
					DEMAND LOAD: 6870 VA							
					DEMAND CURRENT: 19 A							
					CONSIDER 125% DEMAND: 8713 A							
					EQUIPMENT AMPS: 100 A							
					FEEDER AVAILABLE:							
					80 %							
					SPARE CAPACITY: 81 A							

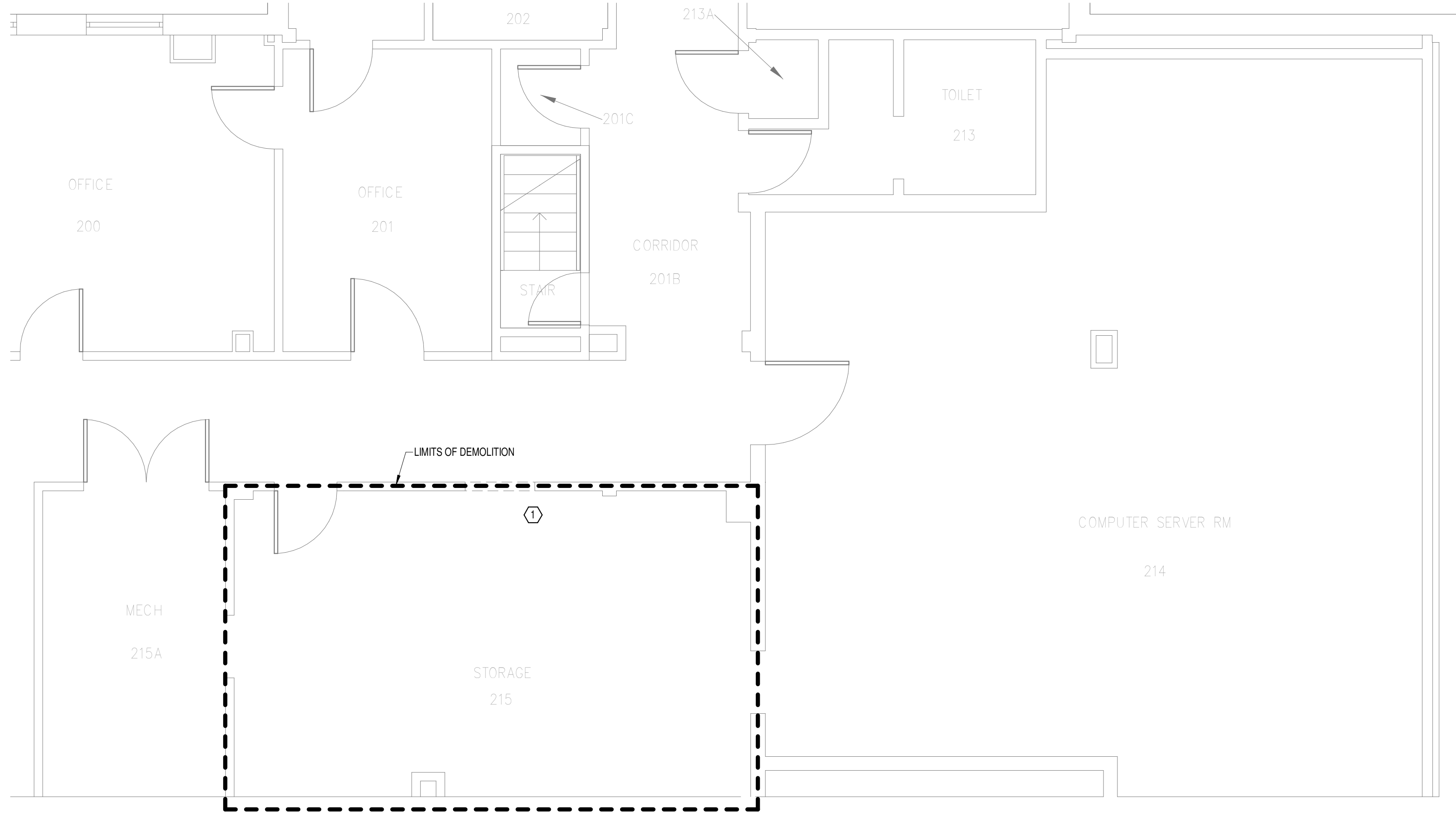
**OPTIONS:**  
CIRCUIT BREAKER OPTIONS SUFFIX: 'S' OR 'ST' - PROVIDE SHUNT TRIP CIRCUIT BREAKER / 'G' OR 'GFCI' - PROVIDE GFCI CIRCUIT BREAKER / 'GFP' - PROVIDE GFP CIRCUIT BREAKER / 'ERMS' - ENERGY REDUCING MAINTENANCE SWITCH / 'ZSF' - ZONE SELECTIVE INTERLOCKING / 'L' - PROVIDE CIRCUIT BREAKER WITH LOCKING PROVISIONS / 'R' - PROVIDE CIRCUIT BREAKER WITH RED MARKING

**GENERAL REMARKS:**  
A. PANEL AIC (INTERRUPTING) RATING SHALL BE MINIMUM 120% OF THE AVAILABLE SCC (SHORT CIRCUIT CURRENT).  
B. BUS B PANEL.  
C. WHERE NEW PANELS ARE SHOWN AT TELECOM PLYWOOD LOCATIONS, MOUNT PANELS TO PLYWOOD.

PANEL: 3-TR-EM-2A												
LOCATION: TR 216			VOLTS: 208/120 WYE			MAINS TYPE: MLO						
SUPPLY FROM: 3-PP-EM-GNA			PHASES: 3			MCB/MLO RATING: 100 A						
BRANCH: EMERGENCY			WIRES: 4			MCB OPTIONS:						
SERVICE RATED: No			INTEGRAL SPD: Yes			SECTIONS: 1						
MOUNTING: SURFACE			AVAILABLE SCC (KA): 10			PANEL POLES: 24						
NEMA ENCLOSURE: NEMA 1												
CKT	CIRCUIT DESCRIPTION	OPT	RATING	POLES	A	B	C	POLES/RATING	OPT	CIRCUIT DESCRIPTION	CKT	
1										REC - TR-216	2	
3	REC - IT RACK TR-216		20 A	3	1667 VA	720 VA		1	20 A		4	
5											6	
7	SSCU-216/SSAH-216		25 A	2	980 VA	0 VA		1	20 A		8	
9											10	
11	SPARE	--	20 A	1	0 VA	0 VA		1	20 A	--	12	
13	SPARE	--	20 A	1	0 VA	0 VA		1	20 A	--	14	
15	SPARE	--	20 A	1	0 VA	0 VA		1	20 A	--	16	
17	SPACE	--	--	1	--	--		1	--	--	18	
19	SPACE	--	--	1	--	--		1	--	--	20	
21	SPACE	--	--	1	--	--		1	--	--	22	
23	SPACE	--	--	1	--	--		1	--	--	24	
<b>TOTAL LOAD:</b>					3367 VA	2713 VA	1667 VA					
<b>TOTAL AMPS:</b>					29 A	24 A	14 A					
LOAD CLASSIFICATION		CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS							
LTG		66 VA	125.00%	83 VA	CONNECTED LOAD: 7746 VA							
PWR-C		5000 VA	125.00%	6250 VA	CONNECTED CURRENT: 22 A							
REC		720 VA	100.00%	720 VA	DEMAND LOAD: 9503 VA							
MEG-C		1960 VA	125.00%	2450 VA	DEMAND CURRENT: 26 A							
					CONSIDER 125% DEMAND: 11678 A							
					EQUIPMENT AMPS: 100 A							
					FEEDER AVAILABLE:							
					73 %							
					SPARE CAPACITY: 74 A							

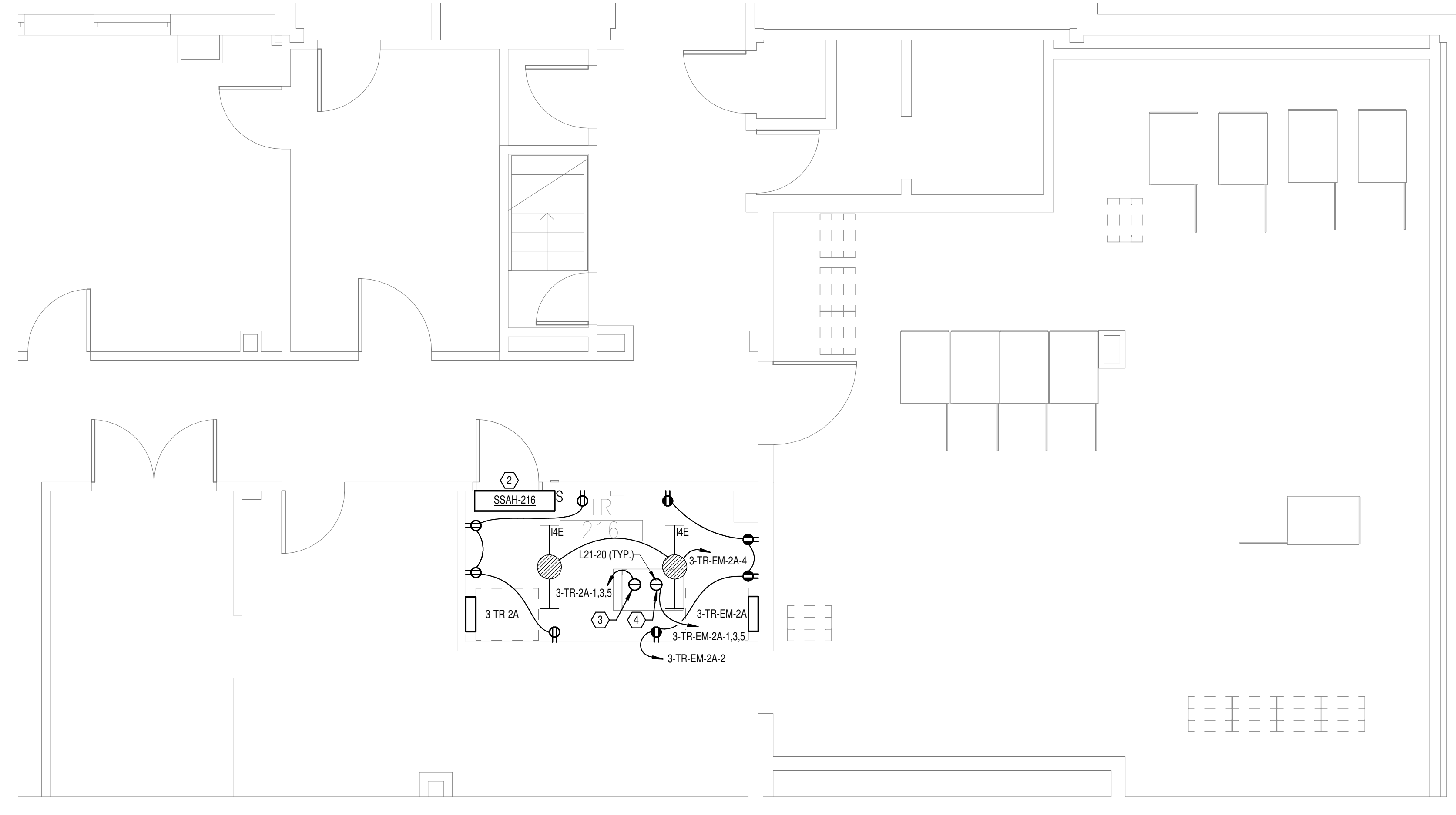
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**GENERAL REMARKS:**  
A. PANEL AIC (INTERRUPTING) RATING SHALL BE MINIMUM 120% OF THE AVAILABLE SCC (SHORT CIRCUIT CURRENT).  
B. BUS A PANEL.  
C. WHERE NEW PANELS ARE SHOWN AT TELECOM PLYWOOD LOCATIONS, MOUNT PANELS TO PLYWOOD.



**DEMOLITION FLOOR PLAN  
LEVEL 02 - ELECTRICAL**

2  
1/4" = 1'-0"



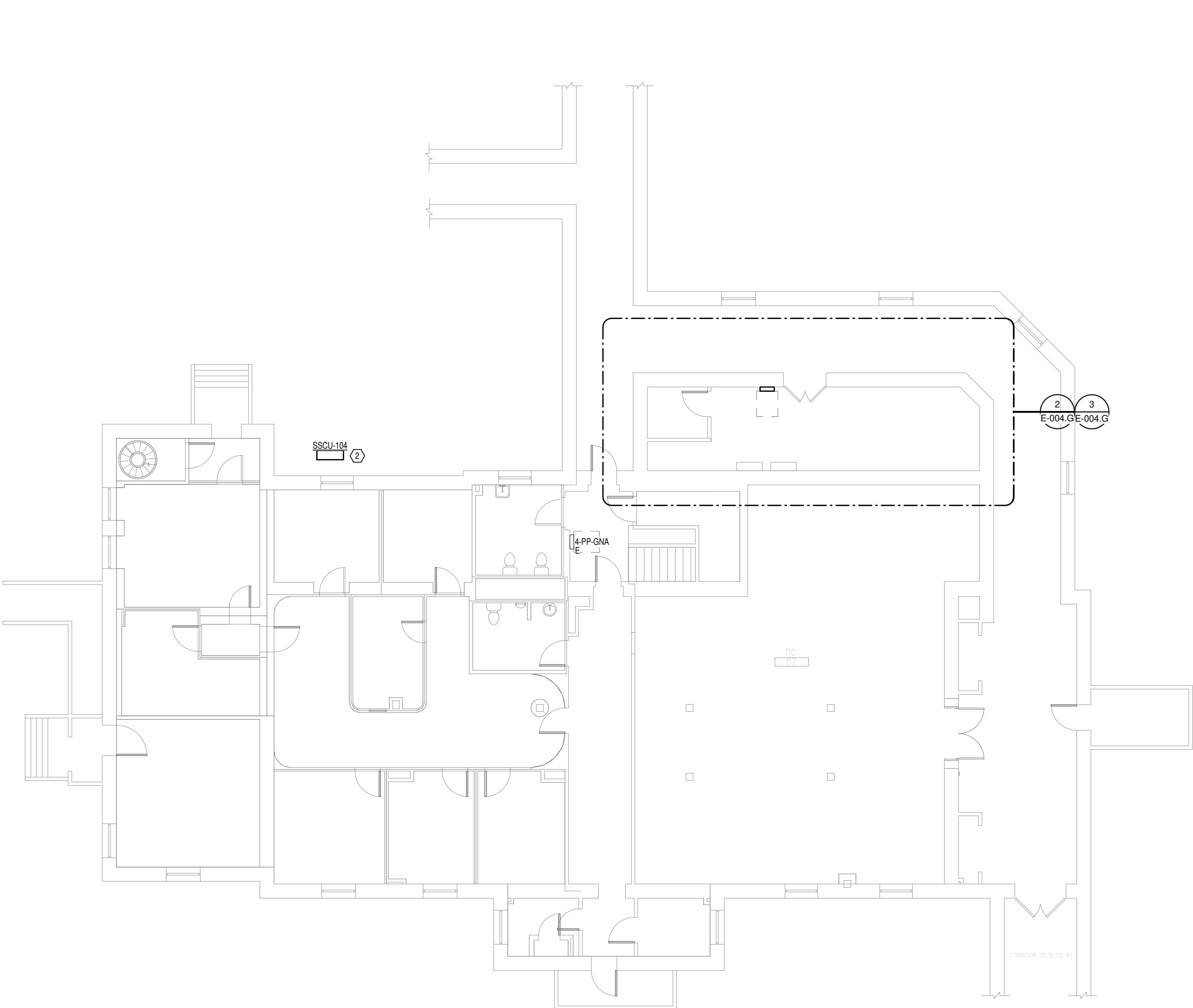
**NEW FLOOR PLAN LEVEL  
02 - ELECTRICAL**

3  
1/4" = 1'-0"

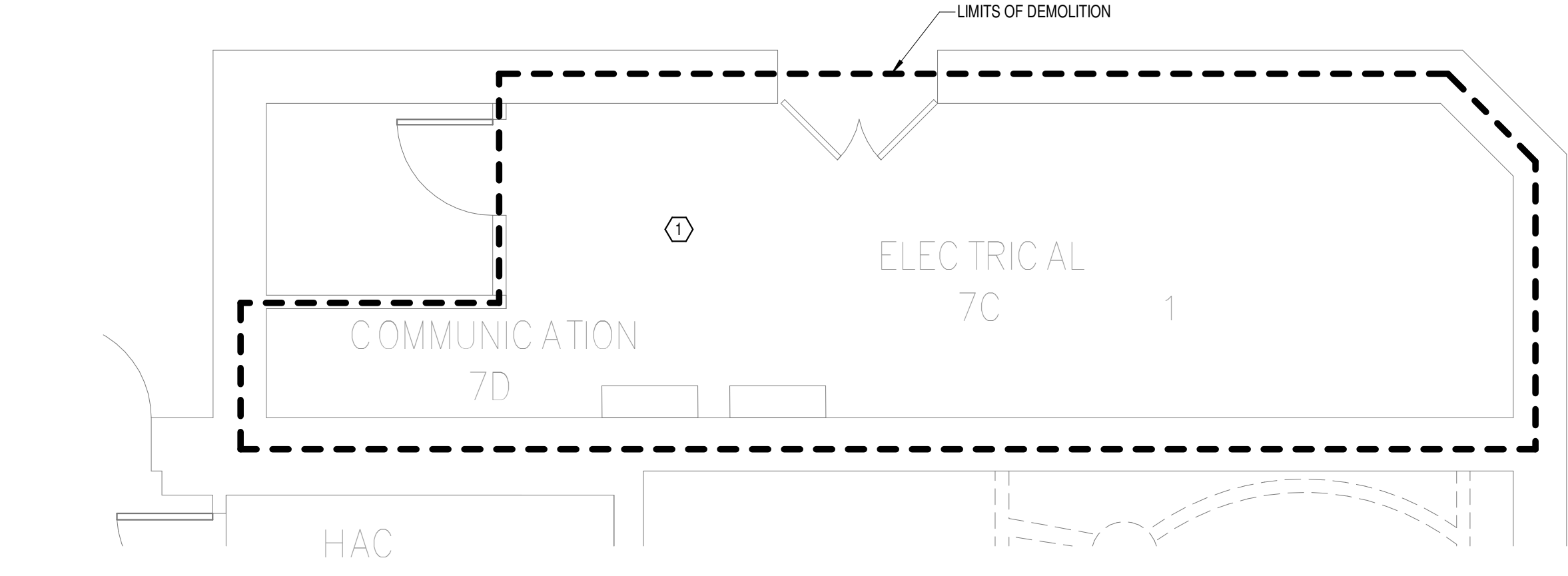
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<b>CONSULTANT</b>  WileyWilson 127 Nationwide Drive Lynchburg, VA 24502 Phone: 434.947.1901 www.wileywilson.com	<b>ARCHITECT/ENGINEER OF RECORD</b>  Atriax, pllc 102 3rd Avenue, NE PO Box 1629, Hickory, NC 28603 Phone: 828.315.9962 Fax: 828.315.9964 NC Engineering License No.: P-0214 NC Architectural License No.: 51254	<b>Office of Construction and Facilities Management</b>  U.S. Department of Veterans Affairs	Drawing Title <b>BUILDING 3 LEVEL 02 - ELECTRICAL</b>	Phase <b>100% CONSTRUCTION DOCUMENTS</b>	Project Title <b>EHRM INFRASTRUCTURE UPGRADES</b>	Project Number <b>679-20-104</b>
			Approved:	FULLY SPRINKLERED	Location <b>TUSCALOOSA VAMC, TUSCALOOSA, AL.</b>	Drawing Number <b>E-003.2</b>

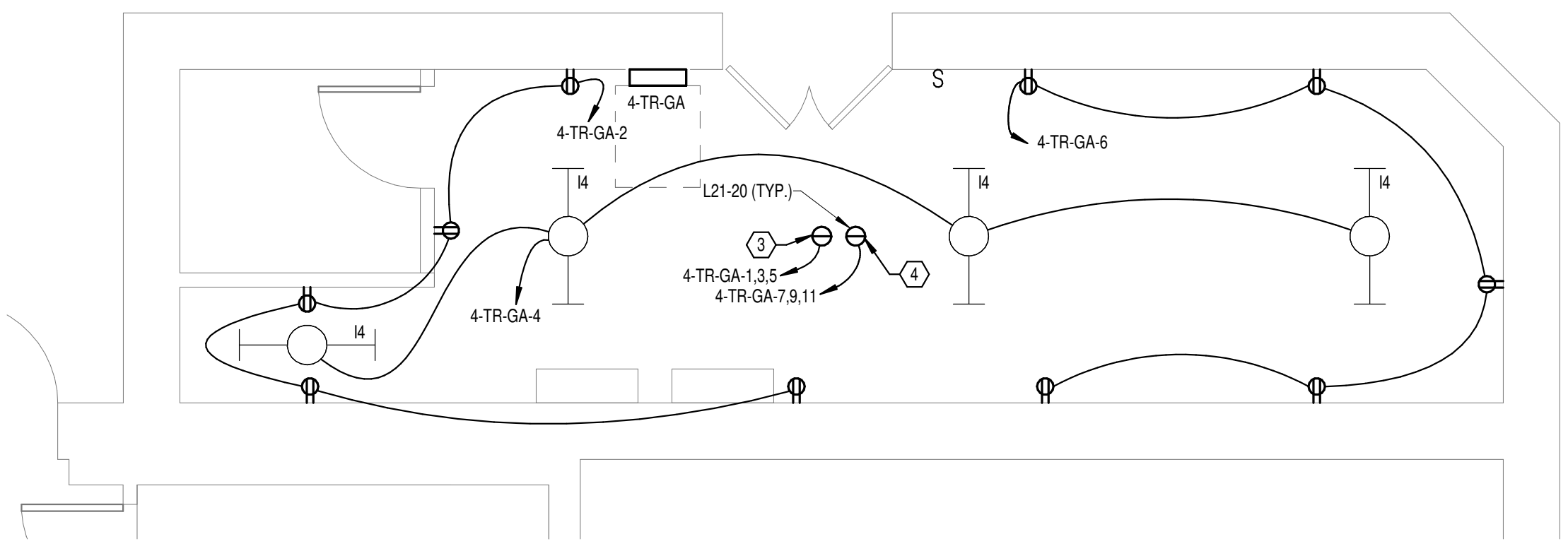
**GENERAL NOTES:**  
 A. REFER TO TELECOM, HVAC, AND FIRE PROTECTION DRAWINGS. COORDINATE LOCATION ON NEW LIGHTING FIXTURES, NEW ELECTRICAL PANELS, AND NEW CABLE TRAY MOUNTED RECEPTACLES WITH OTHER DISCIPLINES.  
**SHEET NOTES:**  
 1. REMOVE ALL EXISTING DEVICES AND WIRING BACK TO SOURCE. VISIT SITE TO DETERMINE FULL EXTENT OF DEMOLITION.  
 2. REFER TO EQUIPMENT CONNECTION SCHEDULE.  
 3. PROVIDE RECEPTACLE FOR BUS B. MOUNT RECEPTACLE TO CABLE TRAY ABOVE RACK.  
 4. PROVIDE RECEPTACLE FOR BUS A. MOUNT RECEPTACLE TO CABLE TRAY ABOVE RACK.



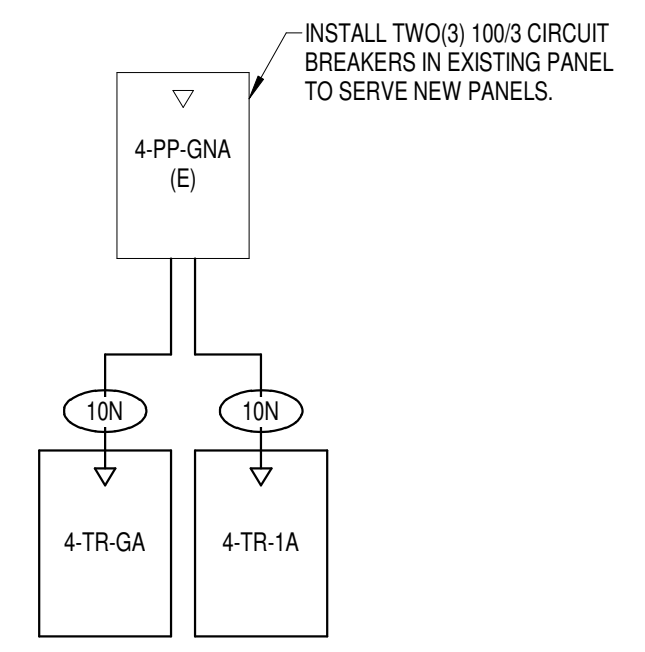
**OVERALL FLOOR PLAN  
 GROUND LEVEL -  
 ELECTRICAL**  
 1  
 1/8" = 1'-0"



**DEMOLITION FLOOR  
 PLAN GROUND LEVEL -  
 ELECTRICAL**  
 2  
 1/4" = 1'-0"



**NEW FLOOR PLAN  
 GROUND LEVEL -  
 ELECTRICAL**  
 3  
 1/4" = 1'-0"



FEEDER SCHEDULE - COPPER			
FEEDER	NOMINAL SIZE	WIRE AND CONDUIT	
10N	100 A	4#1 CU #5 CU GND - 2" C.	

**BUILDING 4 -  
 ELECTRICAL ONE-LINE**  
 4  
 NO SCALE

EQUIPMENT CONNECTION SCHEDULE																	
MARK	DESCRIPTION	FLA	MCA	MOCP	VOLTS	PHASE	POLES	LOAD [VA]	CONTROL TYPE	DISCONNECT BY	DISCONNECT TYPE	FEEDER	PANEL	CIRCUIT NUMBER	SCCR	GEN	REMARKS
SSAH-104	SPLIT SYSTEM CONDENSING UNIT	15.2	19	25	208	1	2	1960	INT	-	-	(3X) (30A) 2-#10 CU #10 CU GND - 3/4" C.	4-TR-1A	7.9	-	Yes	2
SSCU-104	SPLIT SYSTEM CONDENSING UNIT	15.2	19	25	208	1	2	1960	INT	ELECTRICAL	30A/2P/28V FUSED DISCONNECT SWITCH	(3X) (30A) 2-#10 CU #10 CU GND - 3/4" C.	4-TR-1A	7.9	-	Yes	1

REMARKS: (EQUIPMENT CONNECTION SCHEDULE)  
 1. CONTROLS BETWEEN INDOOR AND OUTDOOR UNITS - INCLUDE CONTROL WIRING IN CONDUIT BETWEEN INDOOR AND OUTDOOR UNIT PER MANUFACTURERS REQUIREMENTS.  
 2. "CONTROL TYPE" - PROVIDE CONTROL AND CONNECTIONS "INT" - CONTROLS ARE MANUFACTURED INTEGRAL TO THE EQUIPMENT (SELF-CONTAINED).

**PANEL: 4-TR-GA**

LOCATION: TR  
 SUPPLY FROM: 4-PP-GNA  
 BRANCH: NORMAL  
 SERVICE RATED: No  
 MOUNTING: SURFACE  
 NEMA ENCLOSURE: NEMA 1

VOLTS: 208/120 WYE  
 PHASES: 3  
 WIRES: 4  
 INTEGRAL SPD: 1665  
 AVAILABLE SCC (kA): 10

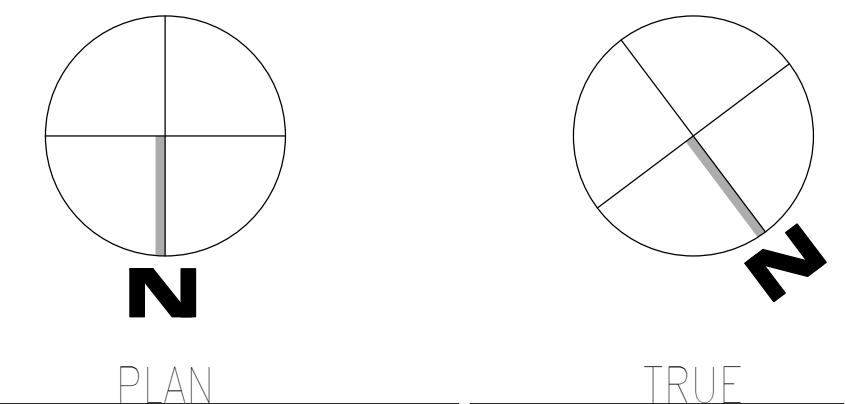
MAINS TYPE: MLO  
 MCB/MLO RATING: 100 A  
 MCB OPTIONS:  
 SECTIONS: 1  
 PANEL POLES: 24

CKT	CIRCUIT DESCRIPTION	OPT	RATING	POLES	A	B	C	POLES	RATING	OPT	CIRCUIT DESCRIPTION	CKT	
1					1667 VA	900 VA			1	20 A	REC - TR-G	2	
3	REC - IT RACK TR-G		20 A	3		1667 VA	132 VA		1	20 A	LTG - TR-G	4	
5					1667 VA	0 VA			1	20 A	REC - TR-G	6	
7					1667 VA	0 VA			1	20 A	SPARE	8	
9	REC - IT RACK TR-G		20 A	3		1667 VA	0 VA		1	20 A	SPARE	10	
11					1667 VA	0 VA			1	20 A	SPARE	12	
13	SPARE		20 A	1	0 VA	0 VA			1	20 A	SPARE	14	
15	SPARE		20 A	1		0 VA	0 VA		1	20 A	SPARE	16	
17	SPACE		--	1					1	--	SPACE	18	
19	SPACE		--	1					1	--	SPACE	20	
21	SPACE		--	1					1	--	SPACE	22	
23	SPACE		--	1					1	--	SPACE	24	
					<b>TOTAL LOAD:</b>	4233 VA	3465 VA	4233 VA					
					<b>TOTAL AMPS:</b>	36 A	29 A	36 A					

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS
LTG	132 VA	125.00%	165 VA	CONNECTED LOAD: 11932 VA
PWR-G	10000 VA	125.00%	12500 VA	CONNECTED CURRENT: 33 A
REC	1800 VA	100.00%	1800 VA	DEMAND LOAD: 14465 VA
				DEMAND CURRENT: 40 A
				CONSIDER 125% DEMAND: 18081 A
				EQUIPMENT AMPS: 100 A
				FEEDER AVAILABLE:
				SPARE CAPACITY: 59 %
				60 A

OPTIONS:  
 CIRCUIT BREAKER OPTIONS SUFFIX: 'S' OR 'ST' - PROVIDE SHUNT TRIP CIRCUIT BREAKER / 'G' OR 'GFCI' - PROVIDE GFCI CIRCUIT BREAKER / 'GFP' - PROVIDE GFP CIRCUIT BREAKER / 'ERMS' - ENERGY REDUCING MAINTENANCE SWITCH / 'ZSI' - ZONE SELECTIVE INTERLOCKING / 'L' - PROVIDE CIRCUIT BREAKER WITH LOCKING PROVISIONS / 'R' - PROVIDE CIRCUIT BREAKER WITH RED MARKING

GENERAL REMARKS:  
 A. PANEL AIC (INTERRUPTING) RATING SHALL BE MINIMUM 120% OF THE AVAILABLE SCC (SHORT CIRCUIT CURRENT).  
 B. BUS A AND B PANEL.  
 C. WHERE NEW PANELS ARE SHOWN AT TELECOM PLYWOOD LOCATIONS, MOUNT PANELS TO PLYWOOD.



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Revisions:	Date:

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 NC Architectural License No.: 51254

**STAMP**

Professional Engineer  
 Charles G. Hall  
 029777  
 03/08/2024

**Office of Construction and Facilities Management**

**VA** U.S. Department of Veterans Affairs

Drawing Title  
**BUILDING 4 GROUND LEVEL - ELECTRICAL**

Approved: \_\_\_\_\_

Phase  
**100% CONSTRUCTION DOCUMENTS**

**FULLY SPRINKLERED**

Project Title  
**EHRM INFRASTRUCTURE UPGRADES**

Location  
**TUSCALOOSA VAMC, TUSCALOOSA, AL.**

Issue Date  
**03/08/2024**

Checked  
**CGH**

Drawn  
**MJJ**

Project Number  
**679-20-104**

Building Number  
**4**

Drawing Number  
**E-004.G**



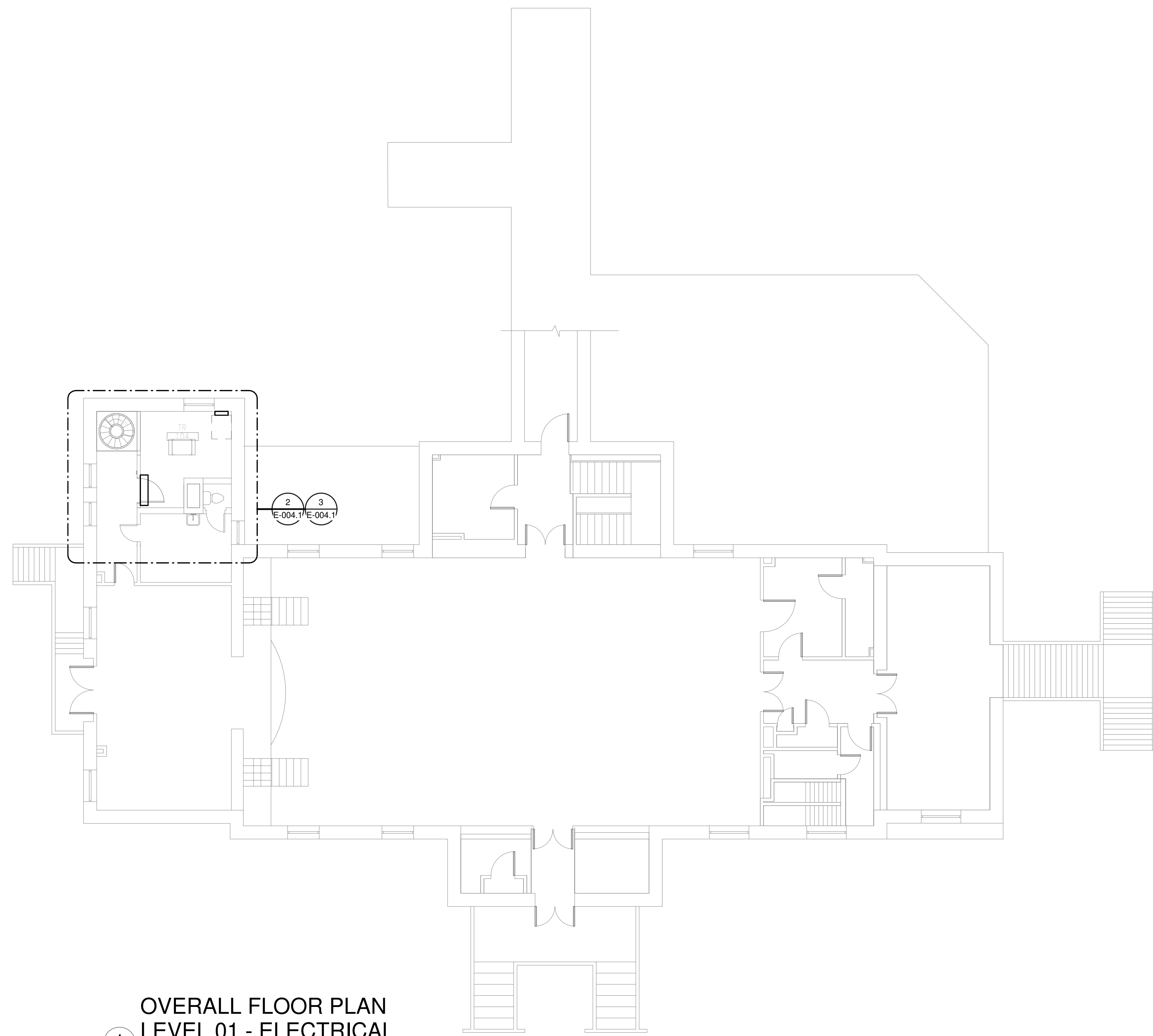
**GENERAL NOTES:**

A. REFER TO TELECOM, HVAC, AND FIRE PROTECTION DRAWINGS. COORDINATE LOCATION ON NEW LIGHTING FIXTURES, NEW ELECTRICAL PANELS, AND NEW CABLE TRAY MOUNTED RECEPTACLES WITH OTHER DISCIPLINES.

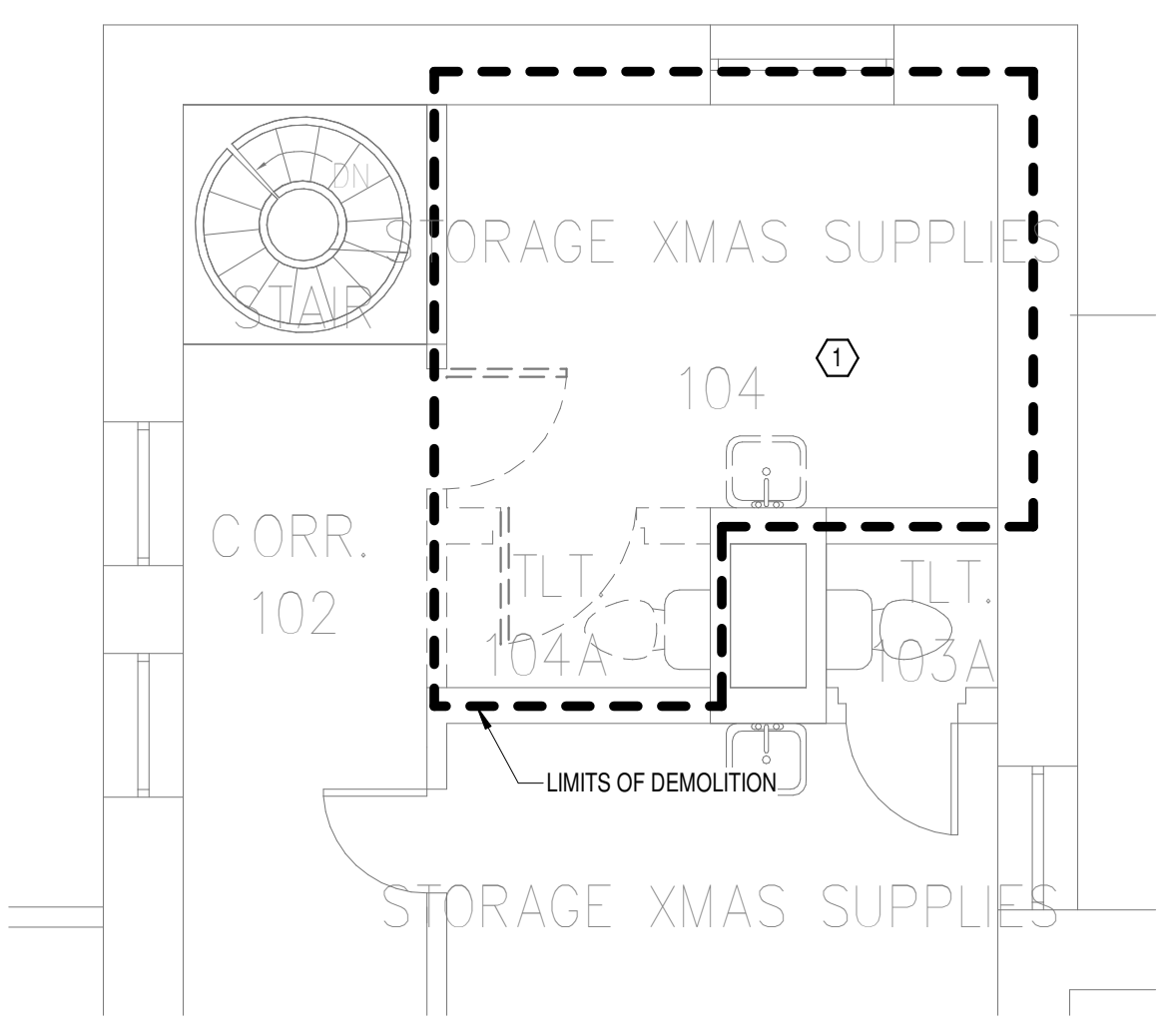
**SHEET NOTES:**

1. REMOVE ALL EXISTING DEVICES AND WIRING BACK TO SOURCE. VISIT SITE TO DETERMINE FULL EXTENT OF DEMOLITION.
2. REFER TO EQUIPMENT CONNECTION SCHEDULE.
3. PROVIDE RECEPTACLE FOR BUS B. MOUNT RECEPTACLE TO CABLE TRAY ABOVE RACK.
4. PROVIDE RECEPTACLE FOR BUS A. MOUNT RECEPTACLE TO CABLE TRAY ABOVE RACK.

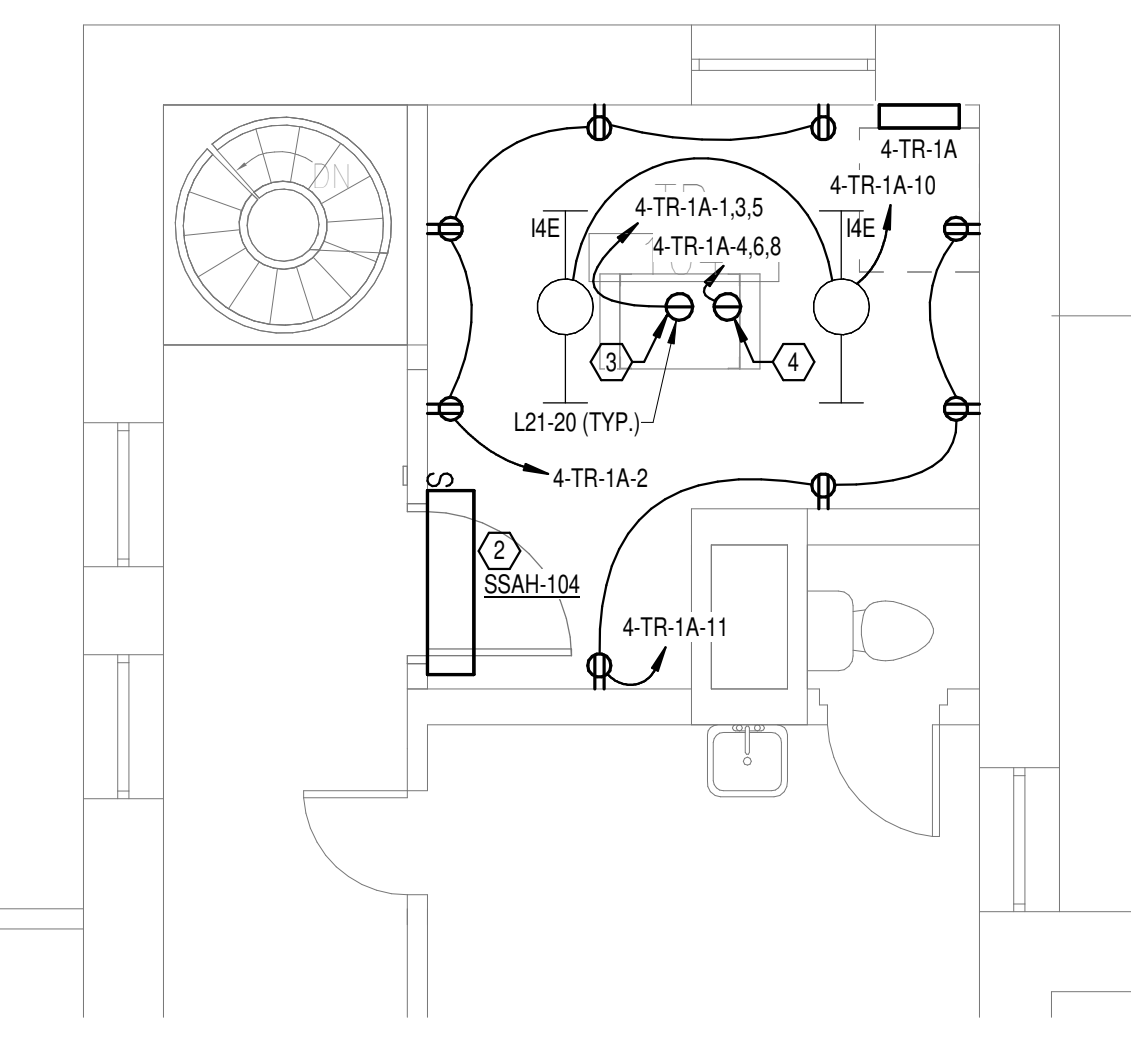
PANEL: 4-TR-1A												
LOCATION: TR 104			VOLTS: 208/120 WYE			MAINS TYPE: MLO						
SUPPLY FROM: 4-PP-GNA			PHASES: 3			MCB/MLO RATING: 100 A						
BRANCH: NORMAL			WIRES: 4			MCB OPTIONS:						
SERVICE RATED: No			INTEGRAL SPD: Yes			SECTIONS: 1						
MOUNTING: SURFACE			AVAILABLE SCC (KA): 10			PANEL POLES: 24						
NEMA ENCLOSURE: NEMA 1												
CKT	CIRCUIT DESCRIPTION	OPT	RATING	POLES	A	B	C	POLES	RATING	OPT	CIRCUIT DESCRIPTION	CKT
1					1667 VA	720 VA						2
3	REC - IT RACK TR-104		20 A	3		1667 VA	1667 VA				REG - TR-104	4
5							1667 VA	1667 VA			REC - IT RACK TR-104	6
7	SSCU-104/SSAH-104		25 A	2	980 VA	1667 VA						8
9						980 VA	66 VA				LTG - TR-104	10
11	REC - TR-104		20 A	1			180 VA	0 VA			SPARE	12
13	SPARE		20 A	1	0 VA	0 VA					SPARE	14
15	SPARE		20 A	1		0 VA	0 VA				SPARE	16
17	SPACE			1							SPACE	18
19	SPACE			1							SPACE	20
21	SPACE			1							SPACE	22
23	SPACE			1							SPACE	24
<b>TOTAL LOAD:</b>					5033 VA	4379 VA	3513 VA					
<b>TOTAL AMPS:</b>					43 A	38 A	29 A					
LOAD CLASSIFICATION				CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS					
LTG				66 VA	125.00%	83 VA	<b>CONNECTED LOAD:</b> 12926 VA					
PWR-C				10000 VA	125.00%	12500 VA	<b>CONNECTED CURRENT:</b> 36 A					
REC				900 VA	100.00%	900 VA	<b>DEMAND LOAD:</b> 15933 VA					
MEQ-C				1960 VA	125.00%	2450 VA	<b>DEMAND CURRENT:</b> 44 A					
							<b>CONSIDER 125% DEMAND:</b> 19916 A					
							<b>EQUIPMENT AMPS:</b> 100 A					
							<b>FEEDER AVAILABLE:</b>					
							55 %					
							56 A					
<b>OPTIONS:</b>												
CIRCUIT BREAKER OPTIONS SUFFIX: 'S' OR 'ST' - PROVIDE SHUNT TRIP CIRCUIT BREAKER / 'G' OR 'GFCI' - PROVIDE GFCI CIRCUIT BREAKER / 'GFP' - PROVIDE GFP CIRCUIT BREAKER / 'ERMS' - ENERGY REDUCING MAINTENANCE SWITCH / 'ZSI' - ZONE SELECTIVE INTERLOCKING / 'L' - PROVIDE CIRCUIT BREAKER WITH LOCKING PROVISIONS / 'TR' - PROVIDE CIRCUIT BREAKER WITH RED MARKING												
<b>GENERAL REMARKS:</b>												
A. PANEL AIC (INTERRUPTING) RATING SHALL BE MINIMUM 120% OF THE AVAILABLE SCC (SHORT CIRCUIT CURRENT).												
B. BUS B PANEL												
C. WHERE NEW PANELS ARE SHOWN AT TELECOM PLYWOOD LOCATIONS, MOUNT PANELS TO PLYWOOD.												



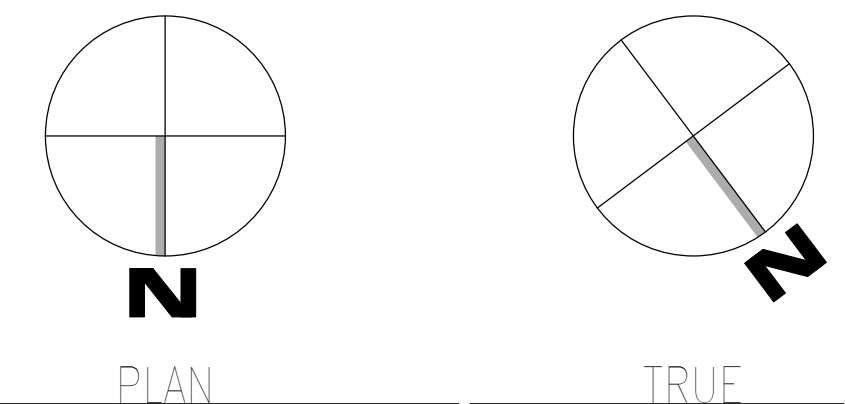
**OVERALL FLOOR PLAN LEVEL 01 - ELECTRICAL**  
1/8" = 1'-0"



**DEMOLITION FLOOR PLAN LEVEL 01 - ELECTRICAL**  
1/4" = 1'-0"

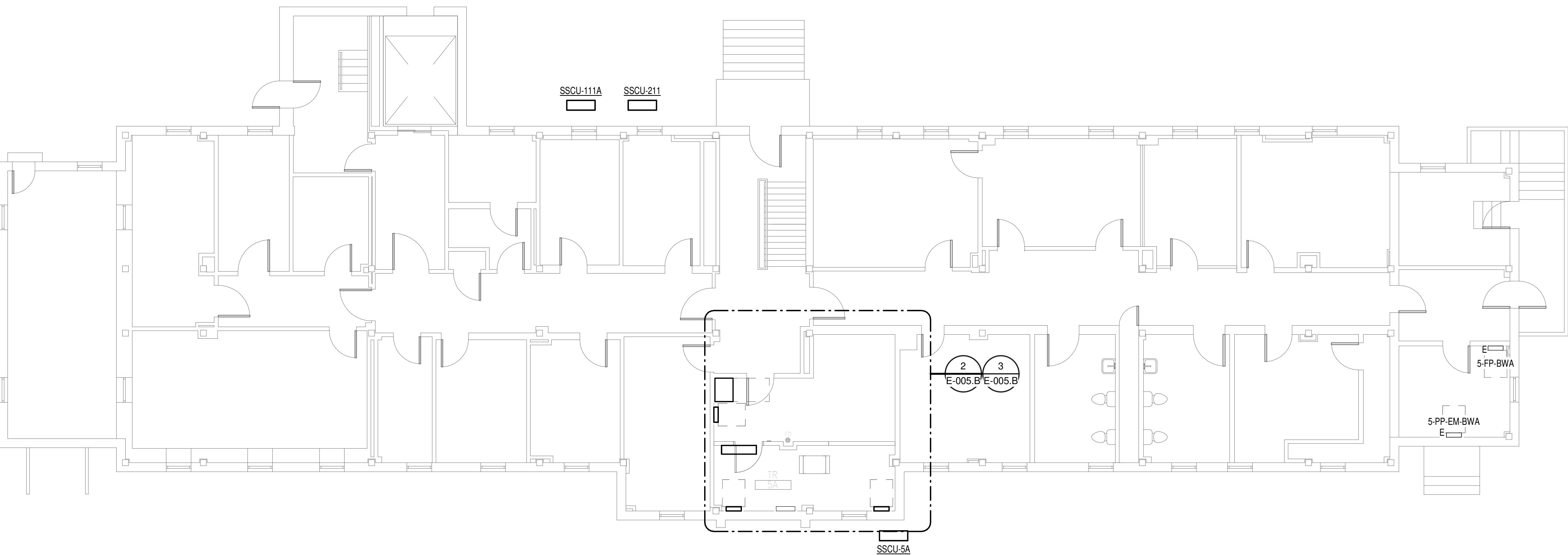


**NEW FLOOR PLAN LEVEL 01 - ELECTRICAL**  
1/4" = 1'-0"

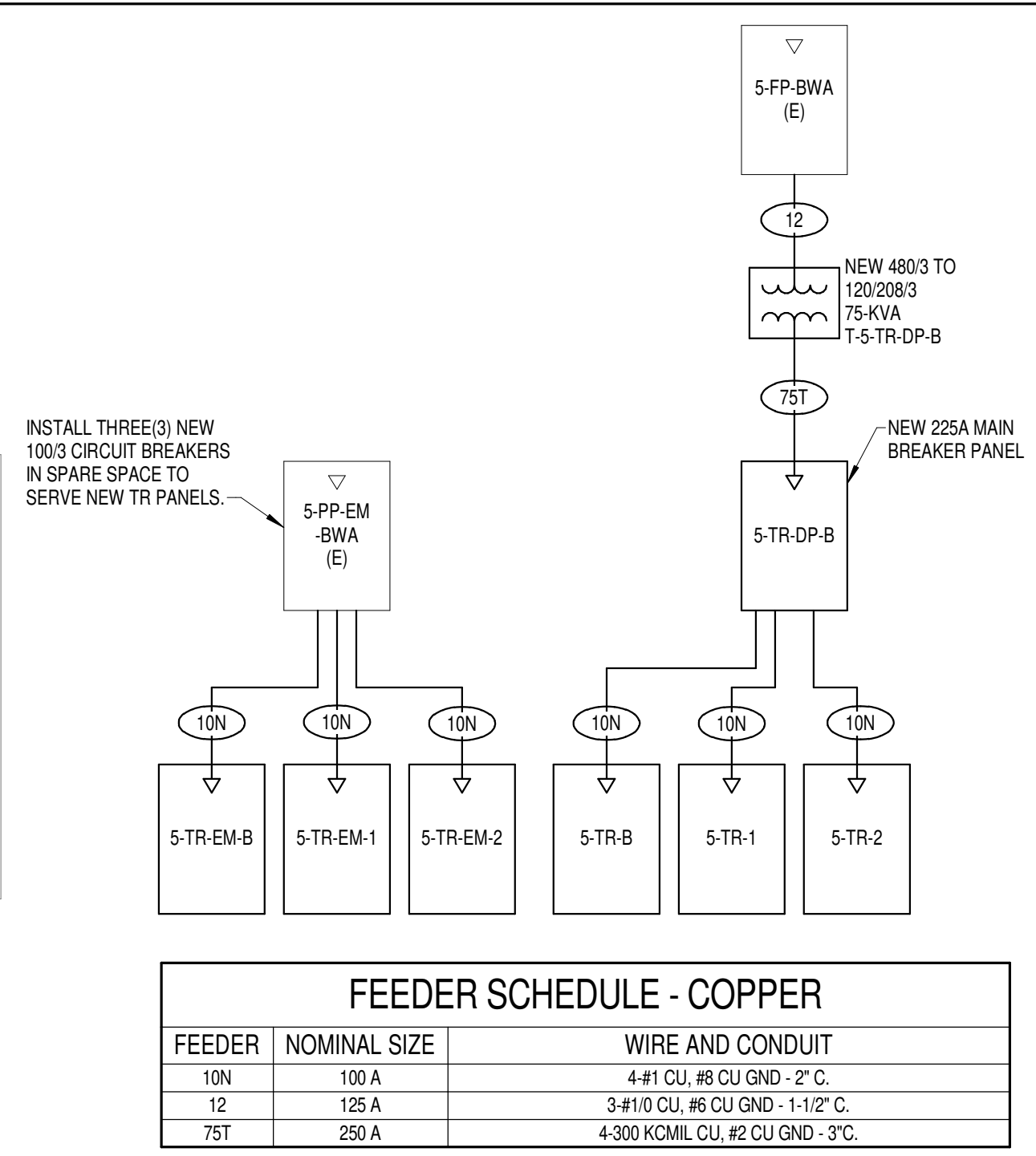


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 T

<b>CONSULTANT</b>  WileyWilson 127 Nationwide Drive Lynchburg, VA 24502 Phone: 434.947.1901 www.wileywilson.com	<b>ARCHITECT/ENGINEER OF RECORD</b>  Atriax, pllc 102 3rd Avenue, NE PO Box 1629, Hickory, NC 28603 Phone: 828.315.9962 Fax: 828.315.9964 NC Engineering License No.: P-0214 NC Architectural License No.: 51254	<b>STAMP</b> 	Office of Construction and Facilities Management U.S. Department of Veterans Affairs	Drawing Title <b>BUILDING 4 LEVEL 01 - ELECTRICAL</b>	Phase <b>100% CONSTRUCTION DOCUMENTS</b>	Project Title <b>EHRM INFRASTRUCTURE UPGRADES</b>	Project Number <b>679-20-104</b>	
				Approved:	<b>FULLY SPRINKLERED</b>	Location <b>TUSCALOOSA VAMC, TUSCALOOSA, AL.</b>	Drawing Number <b>E-004.1</b>	
Revisions:	Date:	Issue Date <b>03/08/2024</b>	Checked <b>CGH</b>	Drawn <b>MJJ</b>				

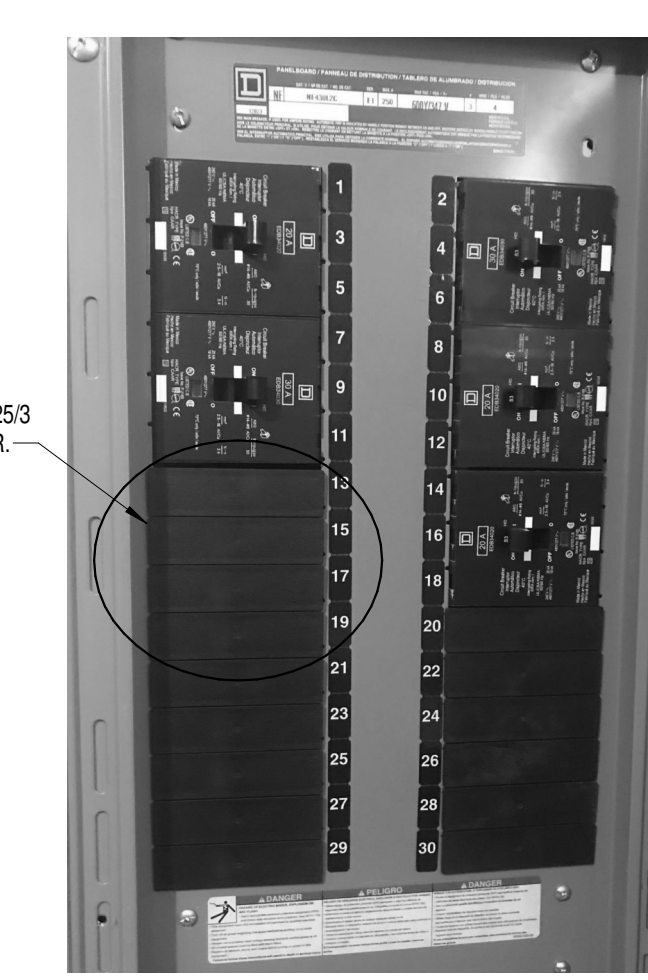


**OVERALL FLOOR PLAN  
BASEMENT LEVEL -  
ELECTRICAL**  
1  
1/8" = 1'-0"



FEEDER	NOMINAL SIZE	WIRE AND CONDUIT
10N	100 A	4 #1 CU, #6 CU GND - 2" C.
12	125 A	3 #1 1/2 CU, #6 CU GND - 1 1/2" C.
75T	250 A	4-300 KCMIL CU, #6 CU GND - 3" C.

**BUILDING 5 -  
ELECTRICAL ONE-LINE**  
4  
NO SCALE



**EXISTING PANEL  
5-PP-BWA**  
5  
NO SCALE



**EXISTING PANEL  
5-PP-EM-BWA**  
6  
NO SCALE

MARK	DESCRIPTION	FLA	MCA	MOCB	VOLTS	PHASE	POLES	LOAD [VA]	CONTROL TYPE	DISCONNECT BY	DISCONNECT TYPE	FEEDER	PANEL	CIRCUIT NUMBER	SCCR	GEN	REMARKS
SSAH-5A	SPLIT SYSTEM CONDENSING UNIT	208			208	1	2		INT	-	-	(3X) (30A) 2-#10 CU, #10 CU GND - 3/4" C.	5-TR-EM-B	7.9	5	Yes	2
SSAH-111A	SPLIT SYSTEM CONDENSING UNIT	208			208	1	2		INT	-	-	(3X) (30A) 2-#10 CU, #10 CU GND - 3/4" C.	5-TR-EM-1	7.9	5	Yes	2
SSAH-211	SPLIT SYSTEM CONDENSING UNIT	208			208	1	2		INT	-	-	(3X) (30A) 2-#10 CU, #10 CU GND - 3/4" C.	5-TR-EM-2	7.9	5	Yes	2
SSQU-5A	SPLIT SYSTEM CONDENSING UNIT	15.2	19	25	208	1	2	1960	INT	ELECTRICAL	30A/2P/208V FUSED DISCONNECT SWITCH	(3X) (30A) 2-#10 CU, #10 CU GND - 3/4" C.	5-TR-EM-B	7.9		Yes	1
SSQU-111A	SPLIT SYSTEM CONDENSING UNIT	15.2	19	25	208	1	2	1960	INT	ELECTRICAL	30A/2P/208V FUSED DISCONNECT SWITCH	(3X) (30A) 2-#10 CU, #10 CU GND - 3/4" C.	5-TR-EM-1	7.9	5	Yes	1
SSQU-211	SPLIT SYSTEM CONDENSING UNIT	15.2	19	25	208	1	2	1960	INT	ELECTRICAL	30A/2P/208V FUSED DISCONNECT SWITCH	(3X) (30A) 2-#10 CU, #10 CU GND - 3/4" C.	5-TR-EM-2	7.9	5	Yes	1

REMARKS: (EQUIPMENT CONNECTION SCHEDULE)  
1. CONTROLS BETWEEN INDOOR AND OUTDOOR UNITS - INCLUDE CONTROL WIRING IN CONDUIT BETWEEN INDOOR AND OUTDOOR UNIT PER MANUFACTURERS REQUIREMENTS.  
2. CONTROL TYPE - PROVIDE CONTROL AND CONNECTIONS "INT" - CONTROLS ARE MANUFACTURED INTEGRAL TO THE EQUIPMENT (SELF-CONTAINED).

**PANEL: 5-TR-B**  
LOCATION: TR 5A  
SUPPLY FROM: 5-TR-DP-B  
BRANCH: NORMAL  
SERVICE RATED: No  
MOUNTING: SURFACE  
NEMA ENCLOSURE: NEMA 1

VOLTS: 208/120 WYE  
PHASES: 3  
WIRES: 4  
INTEGRAL SPD: Yes  
AVAILABLE SCC (KA): 10

MAINS TYPE: MLO  
MCB/MLO RATING: 100 A  
MCB OPTIONS:  
SECTIONS: 1  
PANEL POLES: 24

CKT	CIRCUIT DESCRIPTION	OPT	RATING	POLES	A	B	C	POLES/RATING	OPT	CIRCUIT DESCRIPTION	CKT
1	REC - IT RACK TR-5A		20 A	3	1667 VA	540 VA		1	20 A	REC - TR-5A	2
3	REC - IT RACK TR-5A		20 A	3	1667 VA	0 VA		1	20 A	SPARE	4
5	SPARE		20 A	1	0 VA	0 VA		1	20 A	SPARE	6
7	SPARE		20 A	1	0 VA	0 VA		1	20 A	SPARE	8
9	SPARE		20 A	1	0 VA	0 VA		1	20 A	SPARE	10
11	SPARE		20 A	1	0 VA	0 VA		1	20 A	SPARE	12
13	SPARE		20 A	1	0 VA	0 VA		1	20 A	SPARE	14
15	SPARE		20 A	1	0 VA	0 VA		1	20 A	SPARE	16
17	SPARE		20 A	1	0 VA	0 VA		1	20 A	SPARE	18
19	SPACE		20 A	1	0 VA	0 VA		1	20 A	SPARE	20
21	SPACE		20 A	1	0 VA	0 VA		1	20 A	SPARE	22
23	SPACE		20 A	1	0 VA	0 VA		1	20 A	SPARE	24

TOTAL LOAD: 2207 VA  
TOTAL AMPS: 18 A

LOAD CLASSIFICATION: PWR-C, REC  
CONNECTED LOAD: 5000 VA, 540 VA  
DEMAND FACTOR: 125.00%, 100.00%  
ESTIMATED DEMAND: 6250 VA, 540 VA

PANEL TOTALS: CONNECTED LOAD: 5540 VA, 540 VA  
CONNECTED CURRENT: 15 A, 540 VA  
DEMAND LOAD: 6790 VA  
DEMAND CURRENT: 19 A  
CONSIDER 125% DEMAND: 5488 A  
EQUIPMENT AMPS: 100 A  
FEEDER AVAILABLE: 81 %  
SPARE CAPACITY: 81 A

OPTIONS:  
CIRCUIT BREAKER OPTIONS SUFFIX: 'S' OR 'ST' - PROVIDE SHUNT TRIP CIRCUIT BREAKER / 'G' OR 'GFCI' - PROVIDE GFCI CIRCUIT BREAKER / 'GFP' - PROVIDE GFP CIRCUIT BREAKER / 'ERMS' - ENERGY REDUCING MAINTENANCE SWITCH / 'ZSI' - ZONE SELECTIVE INTERLOCKING / 'L' - PROVIDE CIRCUIT BREAKER WITH LOCKING PROVISIONS / 'R' - PROVIDE CIRCUIT BREAKER WITH RED MARKING

GENERAL REMARKS:  
A. PANEL AIC (INTERRUPTING) RATING SHALL BE MINIMUM 120% OF THE AVAILABLE SCC (SHORT CIRCUIT CURRENT).  
B. BUS B PANEL.  
C. WHERE NEW PANELS ARE SHOWN AT TELECOM PLYWOOD LOCATIONS, MOUNT PANELS TO PLYWOOD.

**PANEL: 5-TR-EM-B**  
LOCATION: TR 5A  
SUPPLY FROM: 5-PP-EM-BWA  
BRANCH: EMERGENCY  
SERVICE RATED: No  
MOUNTING: SURFACE  
NEMA ENCLOSURE: NEMA 1

VOLTS: 208/120 WYE  
PHASES: 3  
WIRES: 4  
INTEGRAL SPD: Yes  
AVAILABLE SCC (KA): 10

MAINS TYPE: MLO  
MCB/MLO RATING: 100 A  
MCB OPTIONS:  
SECTIONS: 1  
PANEL POLES: 24

CKT	CIRCUIT DESCRIPTION	OPT	RATING	POLES	A	B	C	POLES/RATING	OPT	CIRCUIT DESCRIPTION	CKT
1	REC - IT RACK TR-5A		20 A	3	1667 VA	720 VA		1	20 A	REC - TR-5A	2
3	REC - IT RACK TR-5A		20 A	3	1667 VA	99 VA		1	20 A	LTG - TR-5A	4
5	SPARE		20 A	1	0 VA	0 VA		1	20 A	SPARE	6
7	SSQU-5A/SSAH-5A		25 A	2	980 VA	0 VA		1	20 A	SPARE	8
9	SSQU-5A/SSAH-5A		25 A	2	980 VA	0 VA		1	20 A	SPARE	10
11	SPARE		20 A	1	0 VA	0 VA		1	20 A	SPARE	12
13	SPARE		20 A	1	0 VA	0 VA		1	20 A	SPARE	14
15	SPARE		20 A	1	0 VA	0 VA		1	20 A	SPARE	16
17	SPACE		20 A	1	0 VA	0 VA		1	20 A	SPARE	18
19	SPACE		20 A	1	0 VA	0 VA		1	20 A	SPARE	20
21	SPACE		20 A	1	0 VA	0 VA		1	20 A	SPARE	22
23	SPACE		20 A	1	0 VA	0 VA		1	20 A	SPARE	24

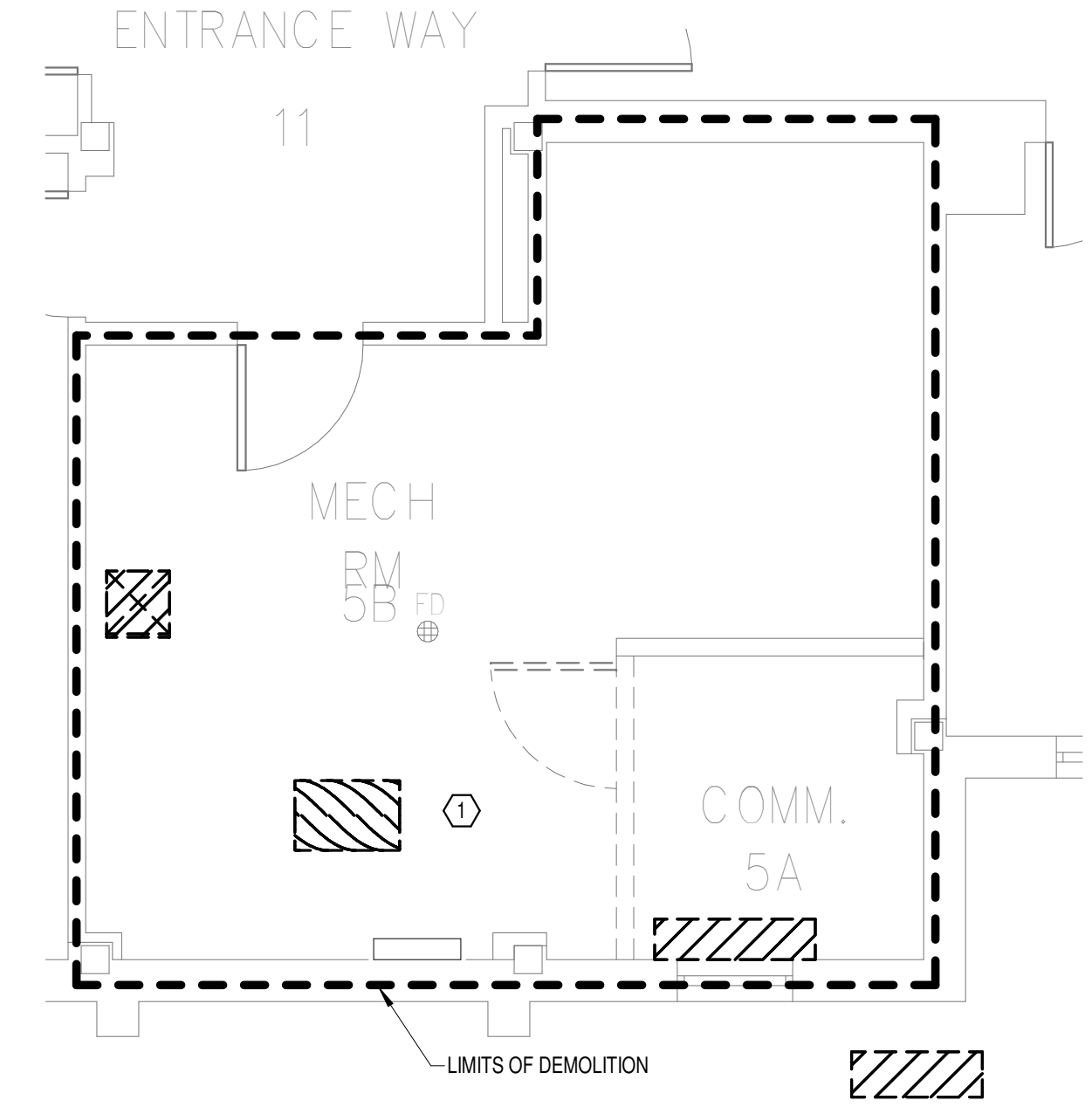
TOTAL LOAD: 3367 VA  
TOTAL AMPS: 29 A

LOAD CLASSIFICATION: LTG, PWR-C, REC, MEQ-C  
CONNECTED LOAD: 99 VA, 5000 VA, 720 VA, 1960 VA  
DEMAND FACTOR: 125.00%, 125.00%, 100.00%, 125.00%  
ESTIMATED DEMAND: 124 VA, 6250 VA, 720 VA, 2450 VA

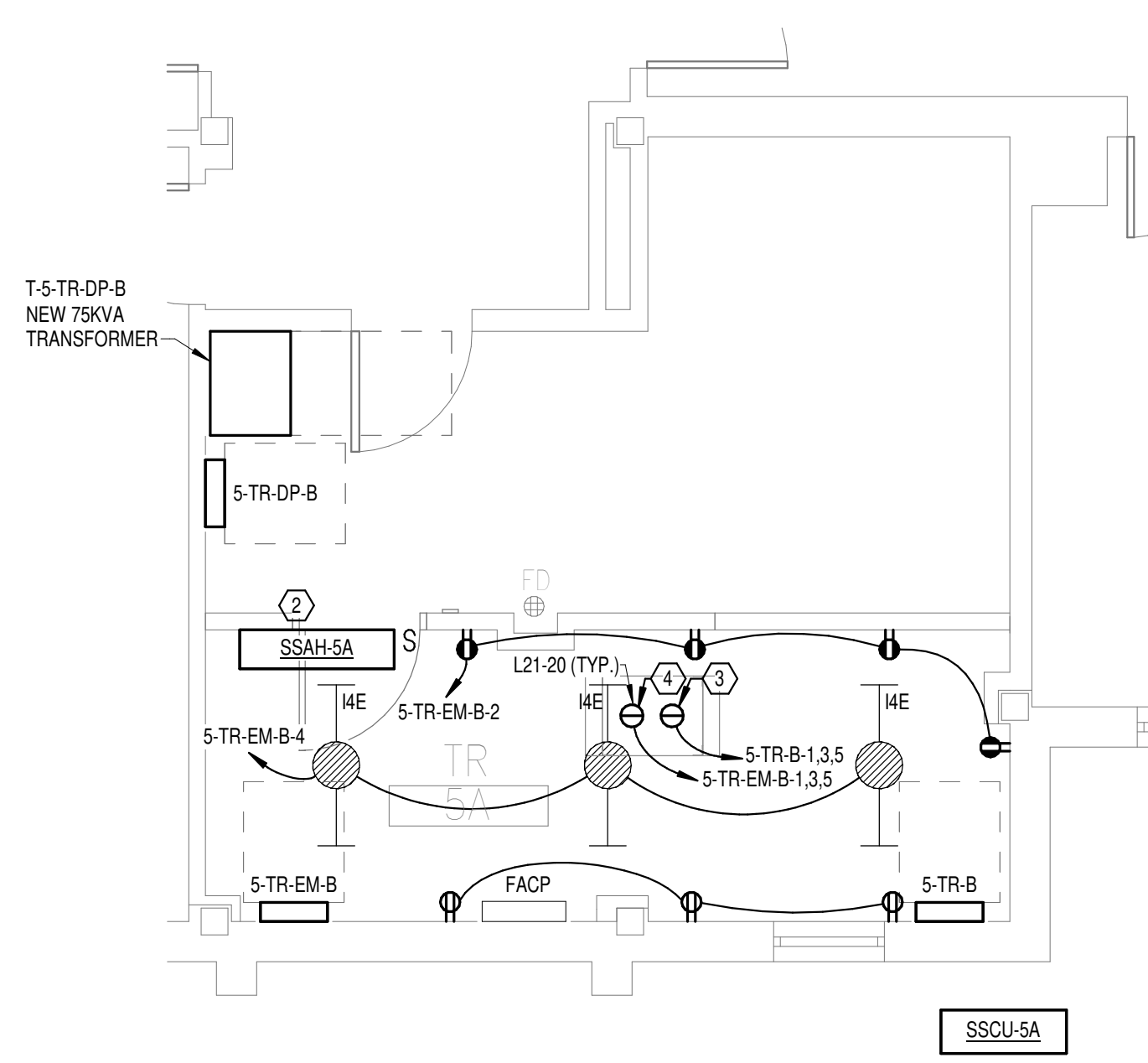
PANEL TOTALS: CONNECTED LOAD: 7779 VA, 540 VA  
CONNECTED CURRENT: 22 A, 540 VA  
DEMAND LOAD: 9544 VA  
DEMAND CURRENT: 26 A  
CONSIDER 125% DEMAND: 11690 A  
EQUIPMENT AMPS: 100 A  
FEEDER AVAILABLE: 73 %  
SPARE CAPACITY: 74 A

OPTIONS:  
CIRCUIT BREAKER OPTIONS SUFFIX: 'S' OR 'ST' - PROVIDE SHUNT TRIP CIRCUIT BREAKER / 'G' OR 'GFCI' - PROVIDE GFCI CIRCUIT BREAKER / 'GFP' - PROVIDE GFP CIRCUIT BREAKER / 'ERMS' - ENERGY REDUCING MAINTENANCE SWITCH / 'ZSI' - ZONE SELECTIVE INTERLOCKING / 'L' - PROVIDE CIRCUIT BREAKER WITH LOCKING PROVISIONS / 'R' - PROVIDE CIRCUIT BREAKER WITH RED MARKING

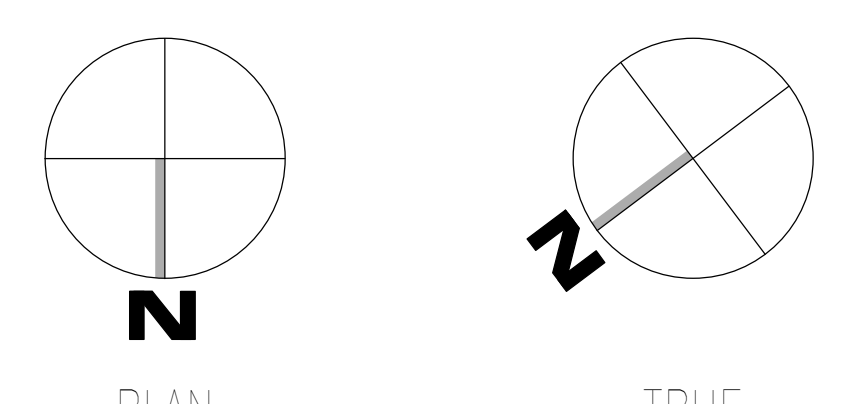
GENERAL REMARKS:  
A. PANEL AIC (INTERRUPTING) RATING SHALL BE MINIMUM 120% OF THE AVAILABLE SCC (SHORT CIRCUIT CURRENT).  
B. BUS A PANEL.  
C. WHERE NEW PANELS ARE SHOWN AT TELECOM PLYWOOD LOCATIONS, MOUNT PANELS TO PLYWOOD.



**DEMOLITION FLOOR  
PLAN BASEMENT LEVEL -  
ELECTRICAL**  
2  
1/4" = 1'-0"



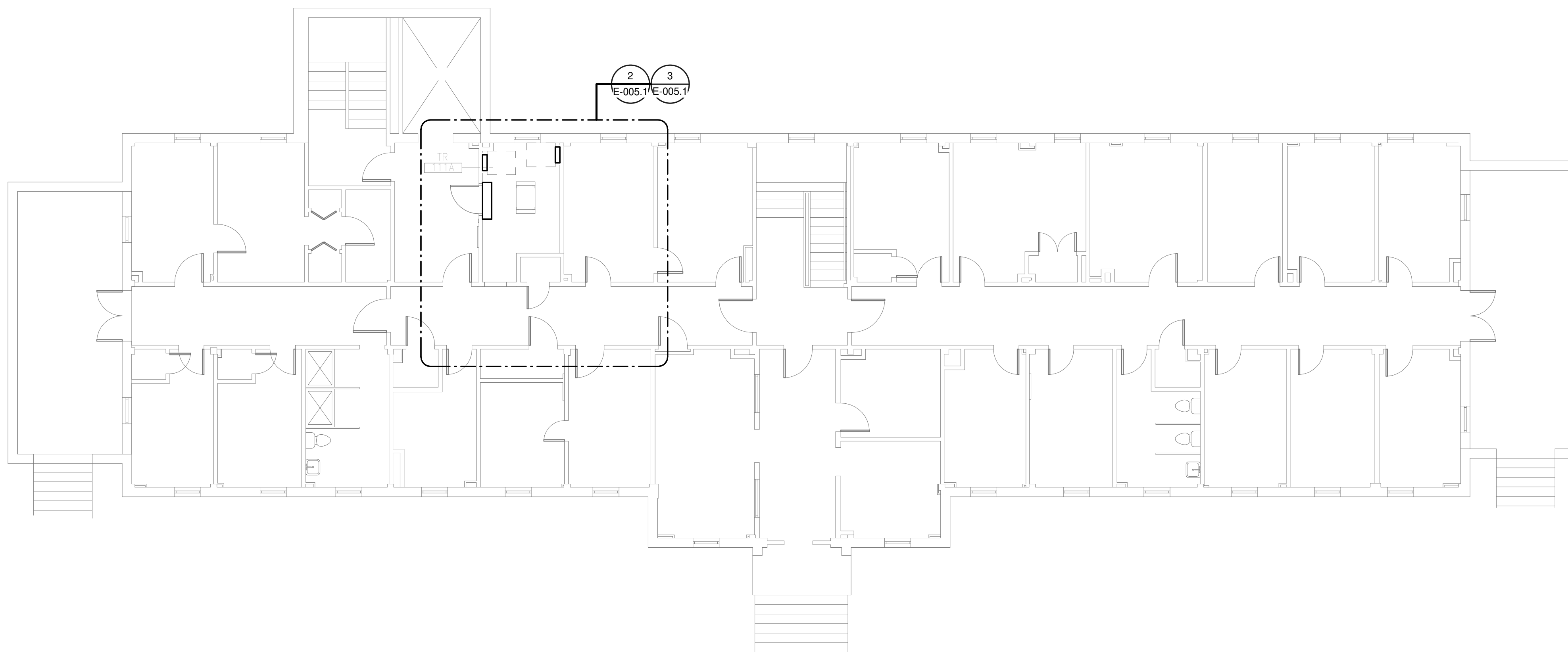
**NEW FLOOR PLAN  
BASEMENT LEVEL -  
ELECTRICAL**  
3  
1/4" = 1'-0"



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<b>CONSULTANT</b>  WileyWilson 127 Nationwide Drive Lynchburg, VA 24502 Phone: 434.947.1901 www.wileywilson.com	<b>ARCHITECT/ENGINEER OF RECORD</b>  Atriax, pllc 102 3rd Avenue, NE PO Box 1629, Hickory, NC 28603 Phone: 828.315.9962 Fax: 828.315.9964 NC Engineering License No.: P-0214 NC Architectural License No.: 51254	<b>Office of Construction and Facilities Management</b>  U.S. Department of Veterans Affairs	Drawing Title <b>BUILDING 5 BASEMENT LEVEL - ELECTRICAL</b>	Phase <b>100% CONSTRUCTION DOCUMENTS</b>	Project Title <b>EHRM INFRASTRUCTURE UPGRADES</b>	Project Number <b>679-20-104</b>
			Approved:	<b>FULLY SPRINKLERED</b>	Location <b>TUSCALOOSA VAMC, TUSCALOOSA, AL.</b>	Drawing Number <b>E-005.B</b>





**1**  
OVERALL FLOOR PLAN  
LEVEL 01 - ELECTRICAL  
1/8" = 1'-0"

**PANEL: 5-TR-DP-B**  
 LOCATION: BASEMENT LEVEL ELEC...  
 SUPPLY FROM: T-5-TR-DP-B  
 BRANCH: NORMAL  
 SERVICE RATED: No  
 MOUNTING: SURFACE  
 NEMA ENCLOSURE: NEMA 1

VOLTS: 208/120 WYE  
 PHASES: 3  
 WIRES: 4  
 INTEGRAL SPD: Yes  
 AVAILABLE SCC (KA): 10

MAINS TYPE: MCB  
 MCB/MLO RATING: 225 A  
 MCB OPTIONS:  
 SECTIONS: 1  
 PANEL POLES: 42

CKT	CIRCUIT DESCRIPTION	OPT	RATING	POLES	A	B	C	POLES	RATING	OPT	CIRCUIT DESCRIPTION	CKT	
1					2207 VA	0 VA		1	20 A	--	SPARE	2	
3	5-TR-B		100 A	3		1667 VA	0 VA	1	20 A	--	SPARE	4	
5					2387 VA	0 VA		1	20 A	--	SPARE	6	
7						1667 VA	0 VA	1	20 A	--	SPARE	8	
9	5-TR-1		100 A	3			1667 VA	0 VA	1	20 A	--	SPARE	10
11							1667 VA	0 VA	1	20 A	--	SPARE	12
13					2387 VA	0 VA		1	20 A	--	SPARE	14	
15	5-TR-2		100 A	3		1667 VA	0 VA	1	20 A	--	SPARE	16	
17							1667 VA	0 VA	1	20 A	--	SPARE	18
19	SPARE	--	20 A	1	0 VA	0 VA		1	20 A	--	SPARE	20	
21	SPARE	--	20 A	1		0 VA	0 VA	1	20 A	--	SPARE	22	
23	SPARE	--	20 A	1			0 VA	0 VA	1	20 A	--	SPARE	24
25	SPARE	--	20 A	1	0 VA	0 VA		1	20 A	--	SPARE	26	
27	SPARE	--	20 A	1		0 VA	0 VA	1	20 A	--	SPARE	28	
29	SPARE	--	20 A	1			0 VA	0 VA	1	20 A	--	SPARE	30
31	SPARE	--	20 A	1	0 VA	0 VA		1	20 A	--	SPARE	32	
33	SPARE	--	20 A	1		0 VA	0 VA	1	20 A	--	SPARE	34	
35	SPACE	--	--	1				--	--	--	SPACE	36	
37	SPACE	--	--	1				--	--	--	SPACE	38	
39	SPACE	--	--	1				--	--	--	SPACE	40	
41	SPACE	--	--	1				--	--	--	SPACE	42	
					TOTAL LOAD:	6980 VA	5000 VA	5000 VA					
					TOTAL AMPS:	58 A	42 A	42 A					

**LOAD CLASSIFICATION**

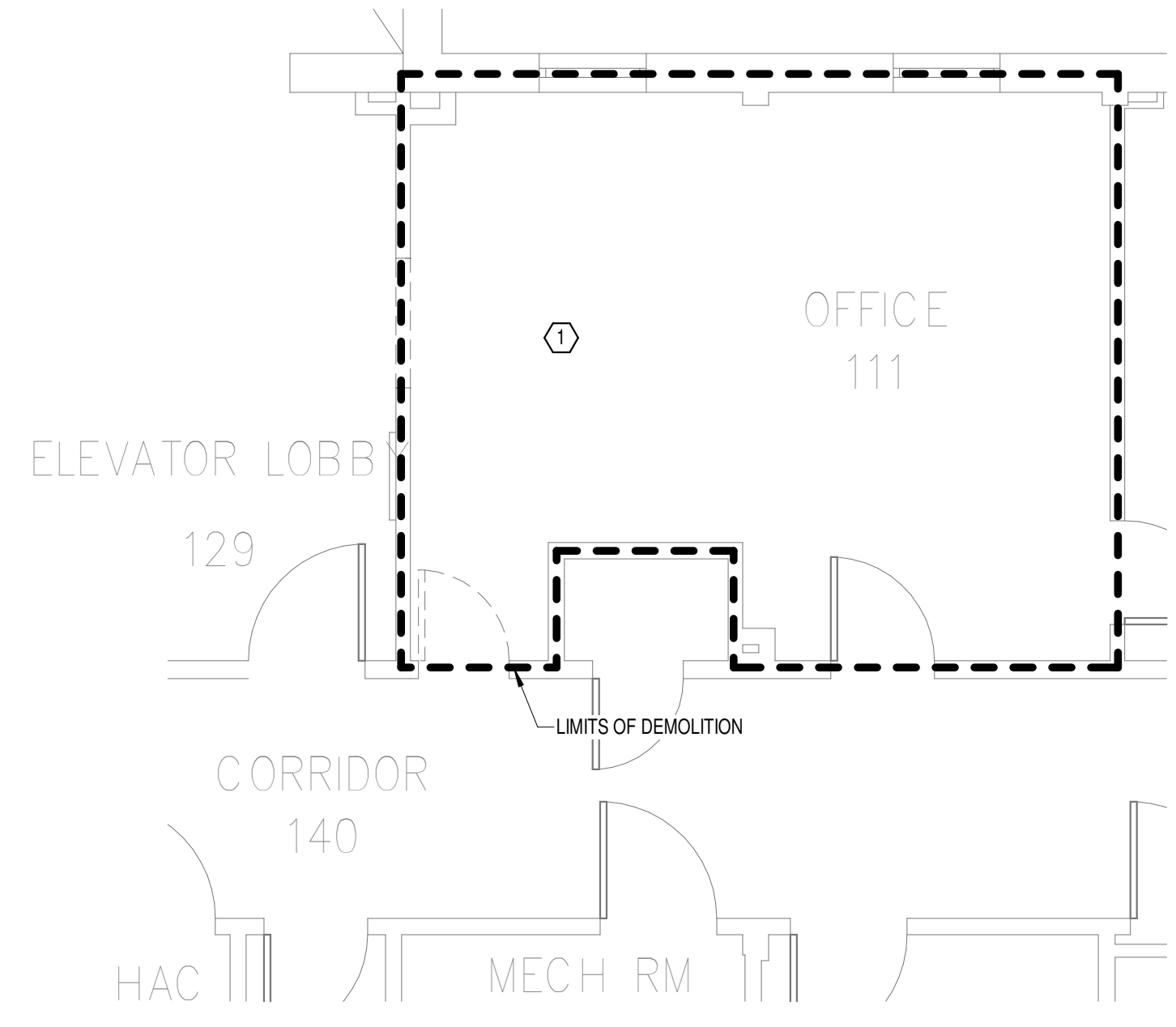
CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS
PWR-C: 15000 VA	125.00%	18750 VA	CONNECTED LOAD: 16980 VA
REC: 1980 VA	100.00%	1980 VA	CONNECTED CURRENT: 47 A
			DEMAND LOAD: 20730 VA
			DEMAND CURRENT: 58 A
			CONSIDER 125% DEMAND: 25913 A
			EQUIPMENT AMPS: 225 A
			FEEDER AVAILABLE: 74 %
			SPARE CAPACITY: 167 A

**OPTIONS:**  
 CIRCUIT BREAKER OPTIONS SUFFIX: 'S' OR 'ST' - PROVIDE SHUNT TRIP CIRCUIT BREAKER / 'G' OR 'GFCI' - PROVIDE GFCI CIRCUIT BREAKER / 'GFP' - PROVIDE GFP CIRCUIT BREAKER / 'ERMS' - ENERGY REDUCING MAINTENANCE SWITCH / 'ZSI' - ZONE SELECTIVE INTERLOCKING / 'L' - PROVIDE CIRCUIT BREAKER WITH LOCKING PROVISIONS / 'R' - PROVIDE CIRCUIT BREAKER WITH RED MARKING

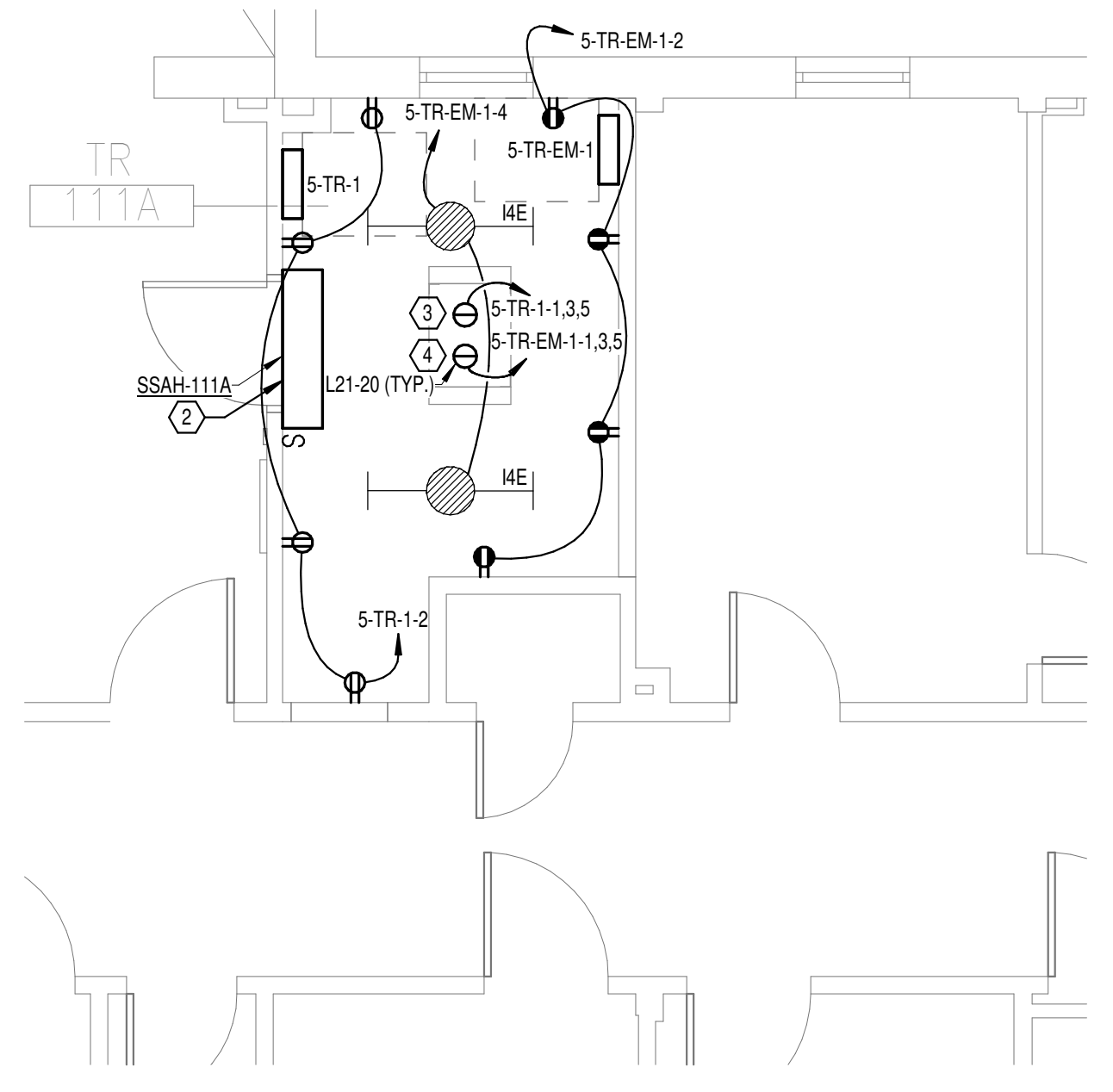
**GENERAL REMARKS:**  
 A. PANEL AIC (INTERRUPTING) RATING SHALL BE MINIMUM 120% OF THE AVAILABLE SCC (SHORT CIRCUIT CURRENT).

**GENERAL NOTES:**  
 A. REFER TO TELECOM, HVAC, AND FIRE PROTECTION DRAWINGS. COORDINATE LOCATION ON NEW LIGHTING FIXTURES, NEW ELECTRICAL PANELS, AND NEW CABLE TRAY MOUNTED RECEPTACLES WITH OTHER DISCIPLINES.

**SHEET NOTES:**  
 1. REMOVE ALL EXISTING DEVICES AND WIRING BACK TO SOURCE. VISIT SITE TO DETERMINE FULL EXTENT OF DEMOLITION.  
 2. REFER TO EQUIPMENT CONNECTION SCHEDULE.  
 3. PROVIDE RECEPTACLE FOR BUS B. MOUNT RECEPTACLE TO CABLE TRAY ABOVE BACK.  
 4. PROVIDE RECEPTACLE FOR BUS A. MOUNT RECEPTACLE TO CABLE TRAY ABOVE BACK.



**2**  
DEMOLITION FLOOR PLAN  
LEVEL 01 - ELECTRICAL  
1/4" = 1'-0"



**3**  
NEW FLOOR PLAN LEVEL  
01 - ELECTRICAL  
1/4" = 1'-0"

**PANEL: 5-TR-1**  
 LOCATION: TR 111A  
 SUPPLY FROM: 5-TR-DP-B  
 BRANCH: NORMAL  
 SERVICE RATED: No  
 MOUNTING: SURFACE  
 NEMA ENCLOSURE: NEMA 1

VOLTS: 208/120 WYE  
 PHASES: 3  
 WIRES: 4  
 INTEGRAL SPD: Yes  
 AVAILABLE SCC (KA): 10

MAINS TYPE: MLO  
 MCB/MLO RATING: 100 A  
 MCB OPTIONS:  
 SECTIONS: 1  
 PANEL POLES: 24

CKT	CIRCUIT DESCRIPTION	OPT	RATING	POLES	A	B	C	POLES	RATING	OPT	CIRCUIT DESCRIPTION	CKT	
1					1667 VA	720 VA		1	20 A	--	REC - TR-111A	2	
3	RE - IT RACK TR-111A		20 A	3		1667 VA	0 VA	1	20 A	--	SPARE	4	
5							1667 VA	0 VA	1	20 A	--	SPARE	6
7	SPARE	--	20 A	1	0 VA	0 VA		1	20 A	--	SPARE	8	
9	SPARE	--	20 A	1		0 VA	0 VA	1	20 A	--	SPARE	10	
11	SPARE	--	20 A	1			0 VA	0 VA	1	20 A	--	SPARE	12
13	SPARE	--	20 A	1	0 VA	0 VA		1	20 A	--	SPARE	14	
15	SPARE	--	20 A	1		0 VA	0 VA	1	20 A	--	SPARE	16	
17	SPACE	--	--	1				--	--	--	SPACE	18	
19	SPACE	--	--	1				--	--	--	SPACE	20	
21	SPACE	--	--	1				--	--	--	SPACE	22	
23	SPACE	--	--	1				--	--	--	SPACE	24	
					TOTAL LOAD:	2387 VA	1667 VA	1667 VA					
					TOTAL AMPS:	20 A	14 A	14 A					

**LOAD CLASSIFICATION**

CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS
PWR-C: 5000 VA	125.00%	6250 VA	CONNECTED LOAD: 5720 VA
REC: 720 VA	100.00%	720 VA	CONNECTED CURRENT: 16 A
			DEMAND LOAD: 6970 VA
			DEMAND CURRENT: 19 A
			CONSIDER 125% DEMAND: 8713 A
			EQUIPMENT AMPS: 100 A
			FEEDER AVAILABLE: 80 %
			SPARE CAPACITY: 81 A

**OPTIONS:**  
 CIRCUIT BREAKER OPTIONS SUFFIX: 'S' OR 'ST' - PROVIDE SHUNT TRIP CIRCUIT BREAKER / 'G' OR 'GFCI' - PROVIDE GFCI CIRCUIT BREAKER / 'GFP' - PROVIDE GFP CIRCUIT BREAKER / 'ERMS' - ENERGY REDUCING MAINTENANCE SWITCH / 'ZSI' - ZONE SELECTIVE INTERLOCKING / 'L' - PROVIDE CIRCUIT BREAKER WITH LOCKING PROVISIONS / 'R' - PROVIDE CIRCUIT BREAKER WITH RED MARKING

**GENERAL REMARKS:**  
 A. PANEL AIC (INTERRUPTING) RATING SHALL BE MINIMUM 120% OF THE AVAILABLE SCC (SHORT CIRCUIT CURRENT).  
 B. BUS B PANEL.  
 C. WHERE NEW PANELS ARE SHOWN AT TELECOM PLYWOOD LOCATIONS, MOUNT PANELS TO PLYWOOD.

**PANEL: 5-TR-EM-1**  
 LOCATION: TR 111A  
 SUPPLY FROM: 5-PP-EM-BWA  
 BRANCH: EMERGENCY  
 SERVICE RATED: No  
 MOUNTING: SURFACE  
 NEMA ENCLOSURE: NEMA 1

VOLTS: 208/120 WYE  
 PHASES: 3  
 WIRES: 4  
 INTEGRAL SPD: Yes  
 AVAILABLE SCC (KA): 10

MAINS TYPE: MLO  
 MCB/MLO RATING: 100 A  
 MCB OPTIONS:  
 SECTIONS: 1  
 PANEL POLES: 24

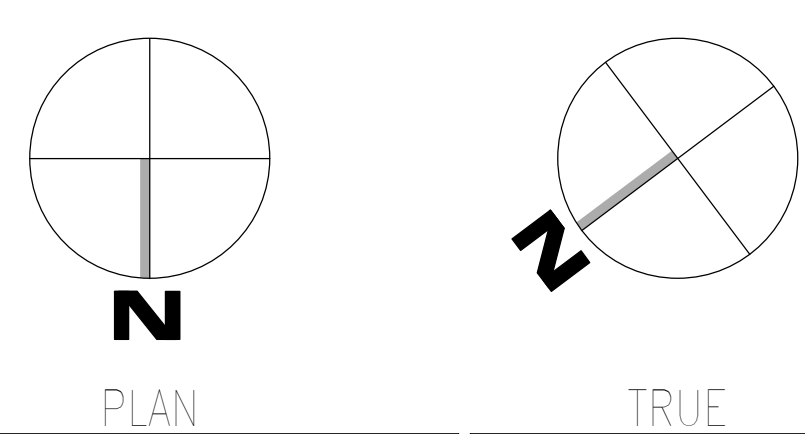
CKT	CIRCUIT DESCRIPTION	OPT	RATING	POLES	A	B	C	POLES	RATING	OPT	CIRCUIT DESCRIPTION	CKT	
1					1667 VA	720 VA		1	20 A	--	REC - TR-111A	2	
3	REC - TR-111A		20 A	3		1667 VA	66 VA	1	20 A	--	LTG - TR-111A	4	
5							1667 VA	0 VA	1	20 A	--	SPARE	6
7							1667 VA	0 VA	1	20 A	--	SPARE	8
9	SSCU-111A/SSAH-111A		25 A	2	980 VA	0 VA		1	20 A	--	SPARE	10	
11	SPARE	--	20 A	1		980 VA	0 VA	1	20 A	--	SPARE	12	
13	SPARE	--	20 A	1	0 VA	0 VA		1	20 A	--	SPARE	14	
15	SPARE	--	20 A	1		0 VA	0 VA	1	20 A	--	SPARE	16	
17	SPACE	--	--	1				--	--	--	SPACE	18	
19	SPACE	--	--	1				--	--	--	SPACE	20	
21	SPACE	--	--	1				--	--	--	SPACE	22	
23	SPACE	--	--	1				--	--	--	SPACE	24	
					TOTAL LOAD:	3367 VA	2713 VA	1667 VA					
					TOTAL AMPS:	29 A	24 A	14 A					

**LOAD CLASSIFICATION**

CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS
LTG: 66 VA	125.00%	83 VA	CONNECTED LOAD: 7746 VA
PWR-C: 5000 VA	125.00%	6250 VA	CONNECTED CURRENT: 22 A
REC: 720 VA	100.00%	720 VA	DEMAND LOAD: 9503 VA
MEQ-C: 1960 VA	125.00%	2450 VA	DEMAND CURRENT: 26 A
			CONSIDER 125% DEMAND: 11878 A
			EQUIPMENT AMPS: 100 A
			FEEDER AVAILABLE: 73 %
			SPARE CAPACITY: 74 A

**OPTIONS:**  
 CIRCUIT BREAKER OPTIONS SUFFIX: 'S' OR 'ST' - PROVIDE SHUNT TRIP CIRCUIT BREAKER / 'G' OR 'GFCI' - PROVIDE GFCI CIRCUIT BREAKER / 'GFP' - PROVIDE GFP CIRCUIT BREAKER / 'ERMS' - ENERGY REDUCING MAINTENANCE SWITCH / 'ZSI' - ZONE SELECTIVE INTERLOCKING / 'L' - PROVIDE CIRCUIT BREAKER WITH LOCKING PROVISIONS / 'R' - PROVIDE CIRCUIT BREAKER WITH RED MARKING

**GENERAL REMARKS:**  
 A. PANEL AIC (INTERRUPTING) RATING SHALL BE MINIMUM 120% OF THE AVAILABLE SCC (SHORT CIRCUIT CURRENT).  
 B. BUS A PANEL.  
 C. WHERE NEW PANELS ARE SHOWN AT TELECOM PLYWOOD LOCATIONS, MOUNT PANELS TO PLYWOOD.



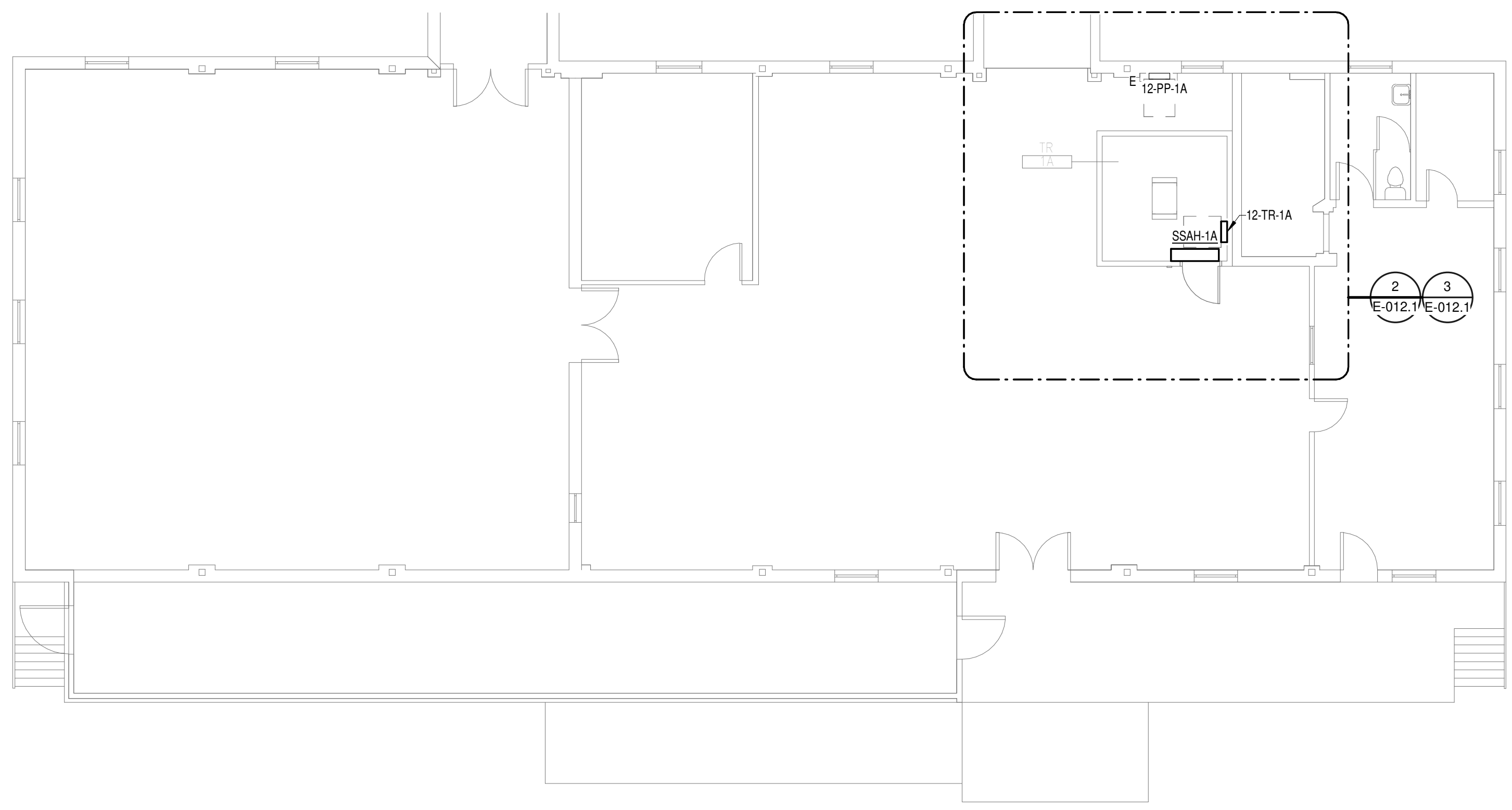
Revisions: Date:	<b>CONSULTANT</b>  WileyWilson 127 Nationwide Drive Lynchburg, VA 24502 Phone: 434.947.1901 www.wileywilson.com	<b>ARCHITECT/ENGINEER OF RECORD</b>  Atriax, PLLC 102 3rd Avenue, NE PO Box 1629, Hickory, NC 28603 Phone: 828.315.9962 Fax: 828.315.9964 NC Engineering License No.: P-0214 NC Architectural License No.: 51254	STAMP 	Office of Construction and Facilities Management U.S. Department of Veterans Affairs	Drawing Title <b>BUILDING 5 LEVEL 01 - ELECTRICAL</b> Approved:	Phase <b>100% CONSTRUCTION DOCUMENTS</b> <b>FULLY SPRINKLERED</b>	Project Title <b>EHRM INFRASTRUCTURE UPGRADES</b>	Project Number <b>679-20-104</b>
	Location <b>TUSCALOOSA VAMC, TUSCALOOSA, AL.</b>	Issue Date <b>03/08/2024</b>	Checked <b>CGH</b>	Drawn <b>MJJ</b>	Drawing Number <b>E-005.1</b>			



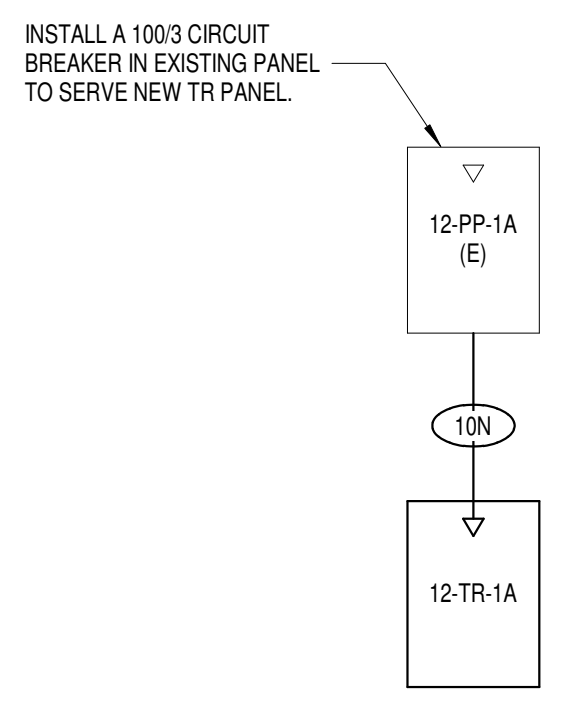




**GENERAL NOTES:**  
 A. REFER TO TELECOM, HVAC, AND FIRE PROTECTION DRAWINGS. COORDINATE LOCATION ON NEW LIGHTING FIXTURES, NEW ELECTRICAL PANELS, AND NEW CABLE TRAY MOUNTED RECEPTACLES WITH OTHER DISCIPLINES.  
**SHEET NOTES:**  
 1. REMOVE ALL EXISTING DEVICES AND WIRING BACK TO SOURCE. VISIT SITE TO DETERMINE FULL EXTENT OF DEMOLITION.  
 2. REFER TO EQUIPMENT CONNECTION SCHEDULE.  
 3. PROVIDE RECEPTACLE FOR BUS B. MOUNT RECEPTACLE TO CABLE TRAY ABOVE RACK.  
 4. PROVIDE RECEPTACLE FOR BUS A. MOUNT RECEPTACLE TO CABLE TRAY ABOVE RACK.



**1**  
**OVERALL FLOOR PLAN**  
**LEVEL 01 - ELECTRICAL**  
 1/8" = 1'-0"

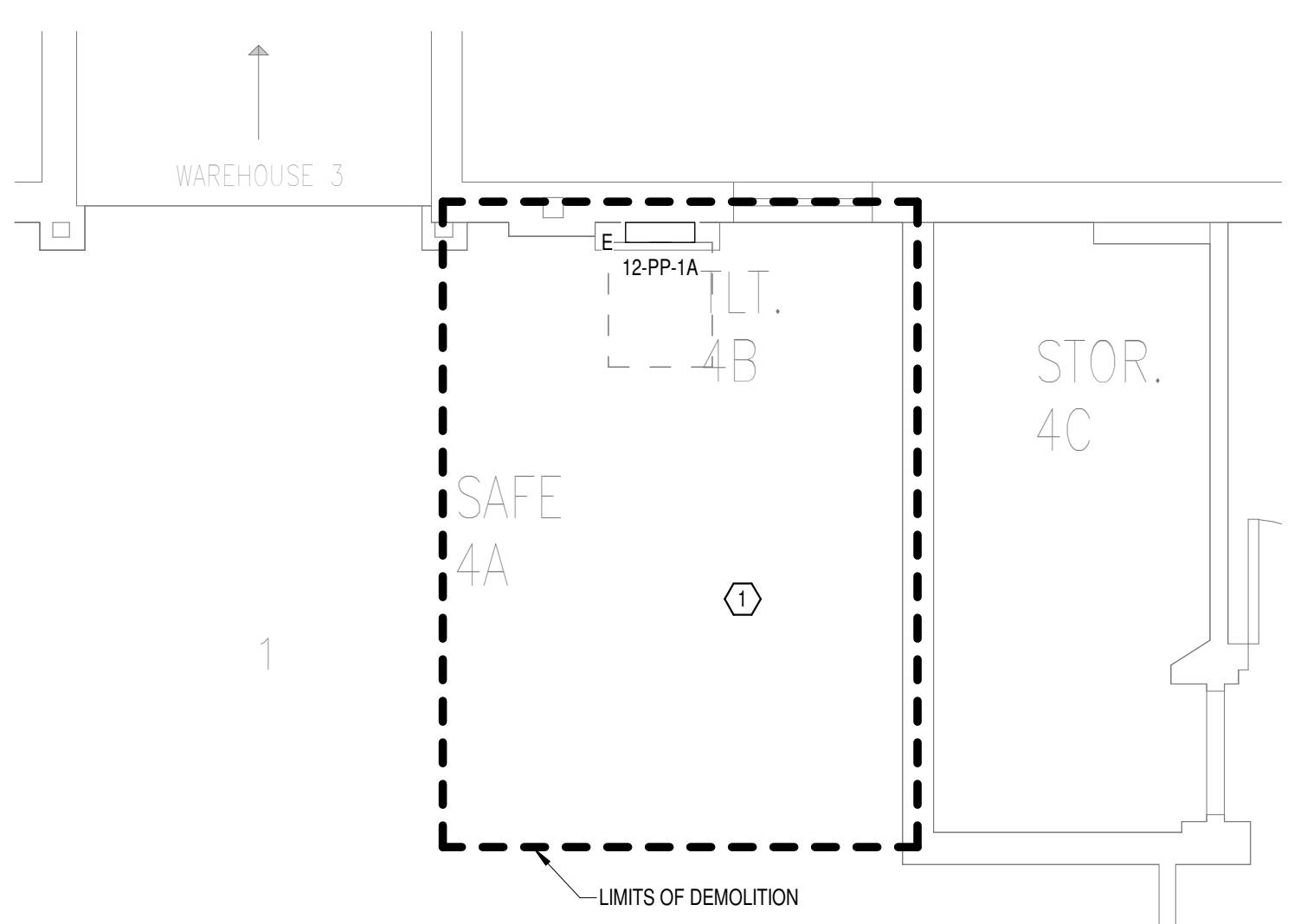


FEEDER SCHEDULE - COPPER		
FEEDER	NOMINAL SIZE	WIRE AND CONDUIT
10N	100 A	4#1 CU, #6 CU GND - 2" C.

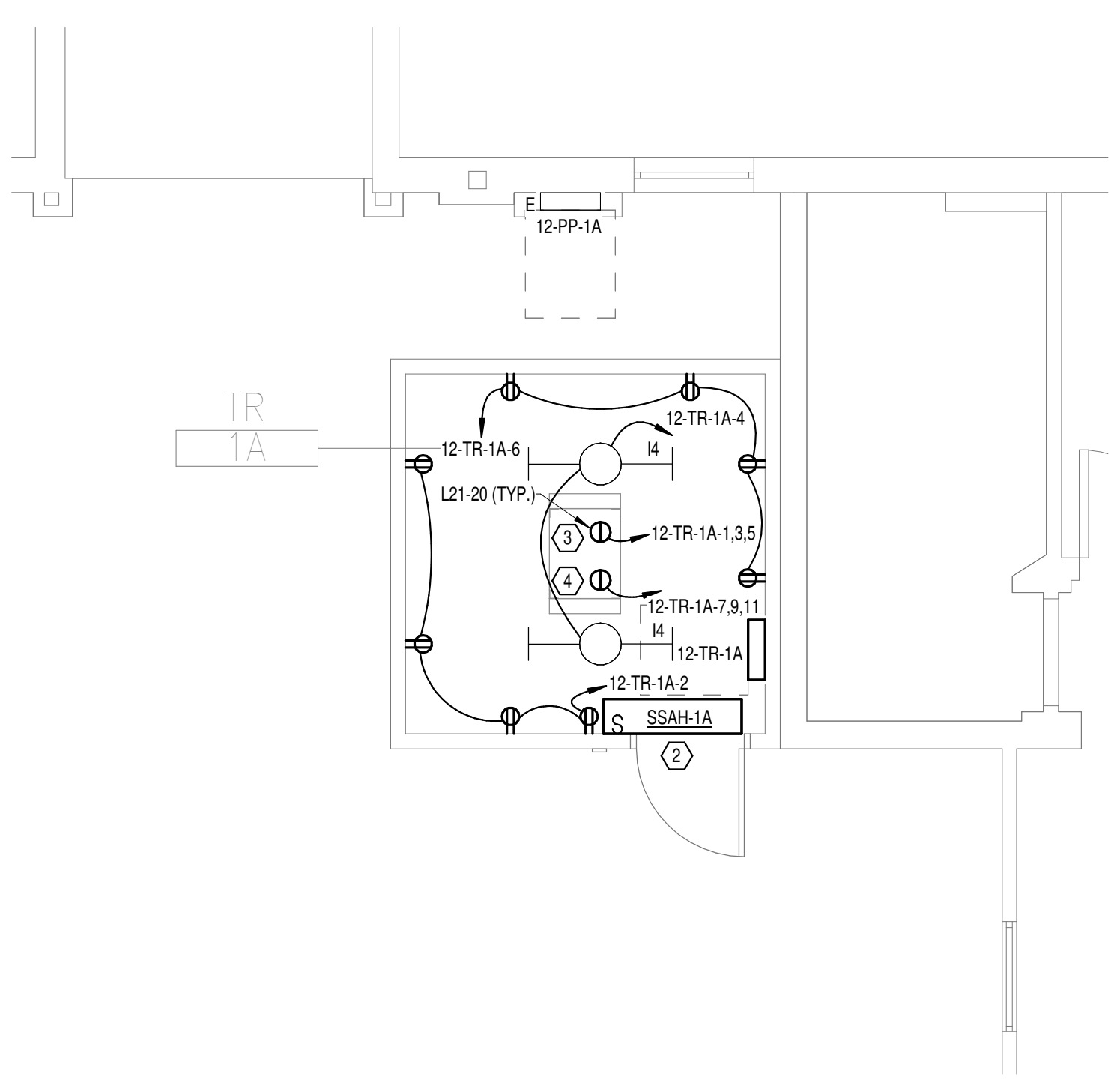
**4**  
**BUILDING 12 -**  
**ELECTRICAL ONE-LINE**  
 NO SCALE

EQUIPMENT CONNECTION SCHEDULE																	
MARK	DESCRIPTION	FLA	MCA	MOC	VOLTS	PHASE	POLES	LOAD [VA]	CONTROL TYPE	DISCONNECT BY	DISCONNECT TYPE	FEEDER	PANEL	CIRCUIT NUMBER	SCCR	GEN	REMARKS
SSAH-1A	SPLIT SYSTEM CONDENSING UNIT				208	1	2						12-TR-1A	13,15	5	Yes	2
SSCU-1A	SPLIT SYSTEM CONDENSING UNIT	15.2	19	25	208	1	2	1960	INT	ELECTRICAL	20A/2P/208V DISCONNECT SWITCH		12-TR-1A	13,15	5	Yes	1

REMARKS: (EQUIPMENT CONNECTION SCHEDULE)  
 1. CONTROLS BETWEEN INDOOR AND OUTDOOR UNITS - INCLUDE CONTROL WIRING IN CONDUIT BETWEEN INDOOR AND OUTDOOR UNIT PER MANUFACTURERS REQUIREMENTS.  
 2. "CONTROL TYPE" - PROVIDE CONTROL AND CONNECTIONS "INT" - CONTROLS ARE MANUFACTURED INTEGRAL TO THE EQUIPMENT (SELF-CONTAINED).



**2**  
**DEMOLITION FLOOR**  
**PLAN LEVEL 01 -**  
**ELECTRICAL**  
 1/4" = 1'-0"



**3**  
**NEW FLOOR PLAN LEVEL**  
**01 - ELECTRICAL**  
 1/4" = 1'-0"

**PANEL: 12-TR-1A**

LOCATION: TR 1A  
 SUPPLY FROM: 12-PP-1A  
 BRANCH: NORMAL  
 SERVICE RATED: No  
 MOUNTING: SURFACE  
 NEMA ENCLOSURE: NEMA 1

VOLTS: 208/120 WYE  
 PHASES: 3  
 WIRES: 4  
 INTEGRAL SPD: Yes  
 AVAILABLE SCC (KA): 10

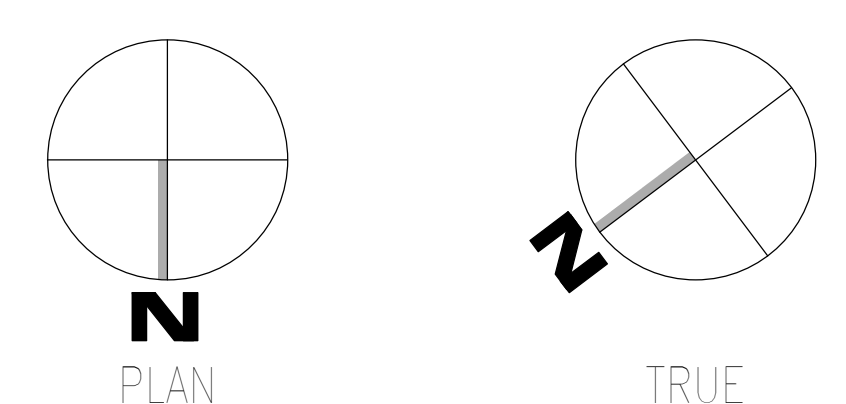
MAINS TYPE: MLO  
 MCB/MLO RATING: 100 A  
 MCB OPTIONS:  
 SECTIONS: 24  
 PANEL POLES: 24

CKT	CIRCUIT DESCRIPTION	OPT	RATING	POLES	A	B	C	POLES	RATING	OPT	CIRCUIT DESCRIPTION	CKT	
1	REC - IT RACK TR-1A		20 A	3	1667 VA	720 VA		1	20 A		REC - TR-1A	2	
3	REC - IT RACK TR-1A		20 A	3	1667 VA	66 VA		1	20 A		LTG - TR-1A	4	
5							1667 VA	720 VA	1	20 A	REC	6	
7					1667 VA	0 VA		1	20 A	--	SPARE	8	
9	REC - IT RACK TR-1A		20 A	3	1667 VA	0 VA		1	20 A	--	SPARE	10	
11							1667 VA	0 VA	1	20 A	--	SPARE	12
13	SSCU-1A/SSAH-1A		25 A	2	980 VA	0 VA		1	20 A	--	SPARE	14	
15							980 VA	0 VA	1	20 A	--	SPARE	16
17	SPACE	--	--	1	--	--	--	--	1	--	SPACE	18	
19	SPACE	--	--	1	--	--	--	--	1	--	SPACE	20	
21	SPACE	--	--	1	--	--	--	--	1	--	SPACE	22	
23	SPACE	--	--	1	--	--	--	--	1	--	SPACE	24	
<b>TOTAL LOAD:</b>					5033 VA	4379 VA	4053 VA						
<b>TOTAL AMPS:</b>					42 A	37 A	34 A						

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS
LTG	66 VA	125.00%	83 VA	CONNECTED LOAD: 13466 VA
PWR-C	10000 VA	125.00%	12500 VA	CONNECTED CURRENT: 37 A
REC	1440 VA	100.00%	1440 VA	DEMAND LOAD: 16473 VA
MEQ-C	1960 VA	125.00%	2450 VA	DEMAND CURRENT: 46 A
				CONSIDER 25% DEMAND: 20591 A
				EQUIPMENT AMPS: 100 A
				FEEDER AVAILABLE: 100 A
				SPARE CAPACITY: 54 %
				54 A

**OPTIONS:**  
 CIRCUIT BREAKER OPTIONS SUFFIX: 'S' OR 'ST' - PROVIDE SHUNT TRIP CIRCUIT BREAKER / 'G' OR 'GFCI' - PROVIDE GFCI CIRCUIT BREAKER / 'GFP' - PROVIDE GFP CIRCUIT BREAKER / 'ERMS' - ENERGY REDUCING MAINTENANCE SWITCH / 'ZSI' - ZONE SELECTIVE INTERLOCKING / 'L' - PROVIDE CIRCUIT BREAKER WITH LOCKING PROVISIONS / 'R' - PROVIDE CIRCUIT BREAKER WITH RED MARKING

**GENERAL REMARKS:**  
 A. PANEL AIC (INTERRUPTING) RATING SHALL BE MINIMUM 120% OF THE AVAILABLE SCC (SHORT CIRCUIT CURRENT).  
 B. BUS A AND B PANEL.  
 C. WHERE NEW PANELS ARE SHOWN AT TELECOM PLYWOOD LOCATIONS, MOUNT PANELS TO PLYWOOD.



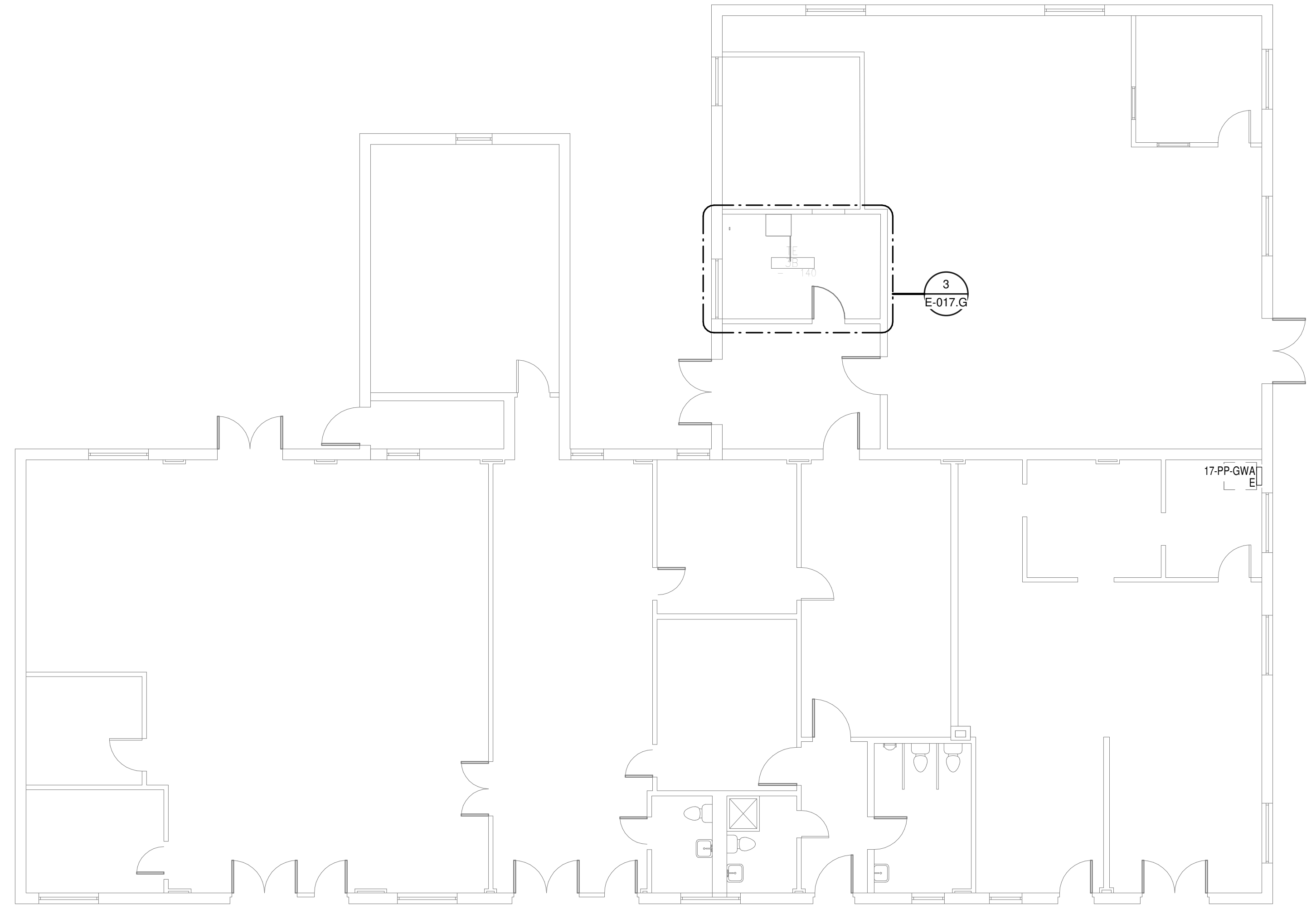
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<b>CONSULTANT</b>  WileyWilson 127 Nationwide Drive Lynchburg, VA 24502 Phone: 434.947.1901 www.wileywilson.com		<b>ARCHITECT/ENGINEER OF RECORD</b>  Atriax, PLLC 102 3rd Avenue, NE PO Box 1629, Hickory, NC 28603 Phone: 828.315.9962 Fax: 828.315.9964 www.atriaxgroup.com NC Engineering License No.: P-0214 NC Architectural License No.: 51254		<b>STAMP</b> 	Office of Construction and Facilities Management U.S. Department of Veterans Affairs	Drawing Title <b>BUILDING 12 LEVEL 01 -</b> <b>ELECTRICAL</b> Approved:	Phase <b>100% CONSTRUCTION</b> <b>DOCUMENTS</b> <b>FULLY SPRINKLERED</b>	Project Title <b>EHRM INFRASTRUCTURE UPGRADES</b> Location TUSCALOOSA VAMC, TUSCALOOSA, AL. Issue Date 03/08/2024	Project Number <b>679-20-104</b> Building Number <b>12</b> Drawing Number <b>E-012.1</b>
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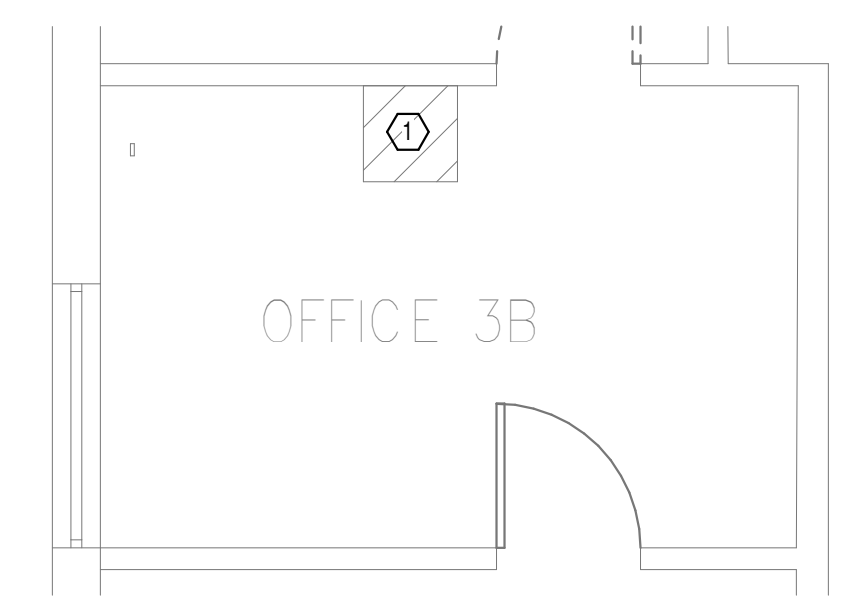


**GENERAL NOTES:**  
 A. REFER TO TELECOM, HVAC, AND FIRE PROTECTION DRAWINGS. COORDINATE LOCATION ON NEW LIGHTING FIXTURES, NEW ELECTRICAL PANELS, AND NEW CABLE TRAY MOUNTED RECEPTACLES WITH OTHER DISCIPLINES.

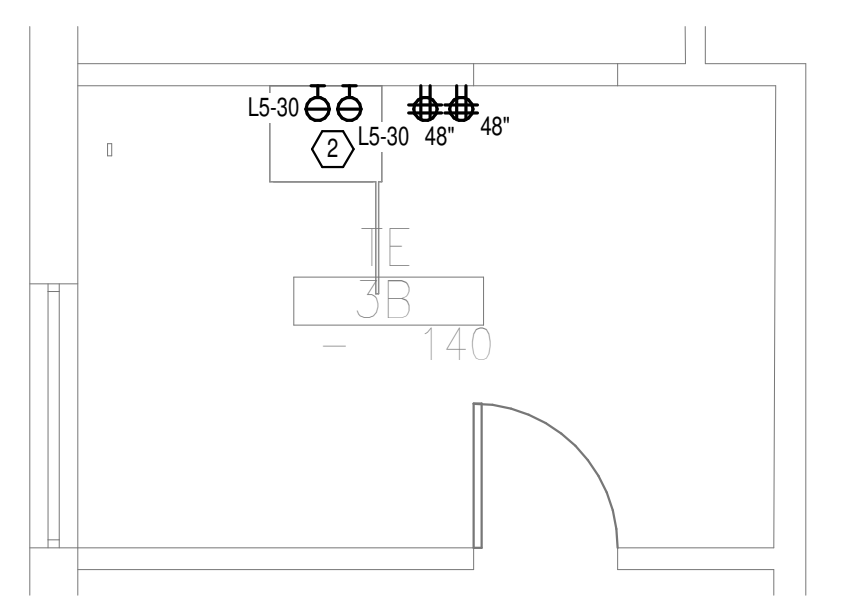
**SHEET NOTES:** ○  
 1. REMOVE ALL EXISTING DEVICES AND WIRING BACK TO SOURCE. VISIT SITE TO DETERMINE FULL EXTENT OF DEMOLITION.  
 2. COORDINATE EXACT MOUNTING LOCATION TO MOUNT BEHIND TELECOMMUNICATIONS ENCLOSURE.



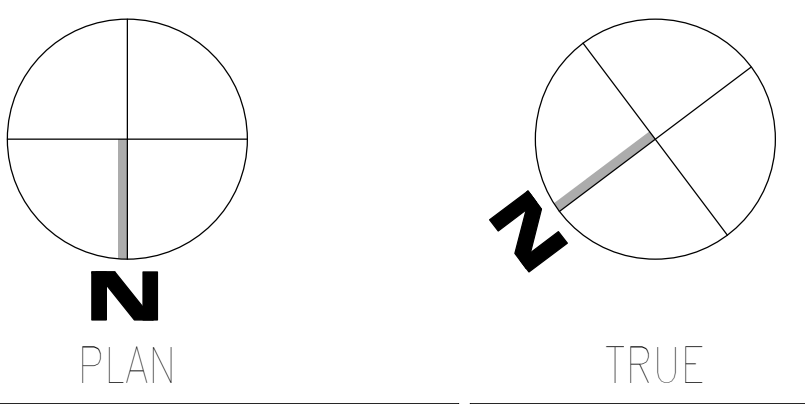
**OVERALL FLOOR PLAN  
 GROUND LEVEL -  
 ELECTRICAL**  
 1  
 1/8" = 1'-0"



**DEMOLITION FLOOR PLAN  
 GROUND LEVEL -  
 ELECTRICAL**  
 2  
 1/4" = 1'-0"



**NEW FLOOR PLAN  
 GROUND LEVEL -  
 ELECTRICAL**  
 3  
 1/4" = 1'-0"



Autodesk: C:\Users\202075\_008\VA\_Tuscaloosa EHRM Infrastructure Upgrades\2025-008\_VA EHRM Tuscaloosa R50\_B017.rvt  
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 08-03-2024 14:46:17

Revisions:	Date:

<b>CONSULTANT</b>  WileyWilson 127 Nationwide Drive Lynchburg, VA 24502 Phone: 434.947.1901 www.wileywilson.com	<b>ARCHITECT/ENGINEER OF RECORD</b>  Atriax GROUP www.atriaxgroup.com Atriax, pllc 102 3rd Avenue, NE PO Box 1629, Hickory, NC 28603 Phone: 828.315.9962 Fax: 828.315.9964 NC Engineering License No.: P-0214 NC Architectural License No.: 51254	<b>STAMP</b> 	Office of Construction and Facilities Management U.S. Department of Veterans Affairs	Drawing Title <b>BUILDING 17 GROUND LEVEL -                  ELECTRICAL</b>	Phase <b>100% CONSTRUCTION                  DOCUMENTS</b>	Project Title <b>EHRM INFRASTRUCTURE UPGRADES</b>	Project Number <b>179-20-104</b>
				Approved:	FULLY SPRINKLERED	Location <b>TUSCALOOSA VAMC, TUSCALOOSA, AL.</b>	Building Number <b>17</b>

**GENERAL NOTES:**

A. REFER TO TELECOM, HVAC, AND FIRE PROTECTION DRAWINGS. COORDINATE LOCATION ON NEW LIGHTING FIXTURES, NEW ELECTRICAL PANELS, AND NEW CABLE TRAY MOUNTED RECEPTACLES WITH OTHER DISCIPLINES.

**SHEET NOTES:**

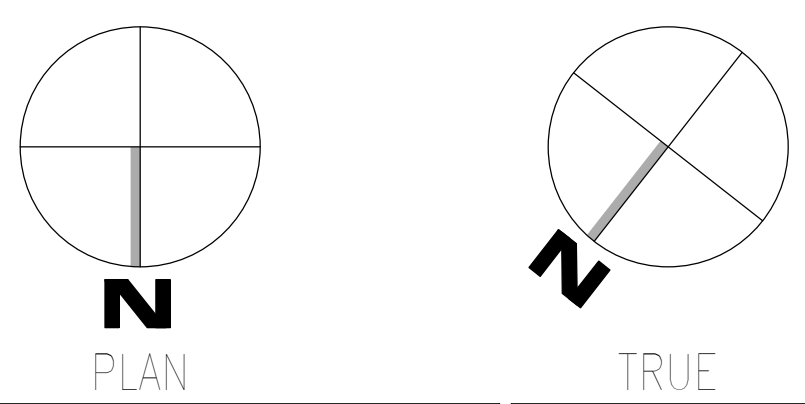
1. PROVIDE NEW 20AMP CIRCUIT AND CIRCUIT BREAKER FROM AVAILABLE SPARE IN EXISTING PANEL 18-PP-SEA.



**OVERALL FLOOR PLAN  
LEVEL 01 - ELECTRICAL**

1/8" = 1'-0"

08-03-2024 15:01:04  
R  
T  
VA FORM 08 - 6231



Revisions:	Date:

**CONSULTANT**

**WileyWilson**  
127 Nationwide Drive  
Lynchburg, VA 24502  
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www.wileywilson.com

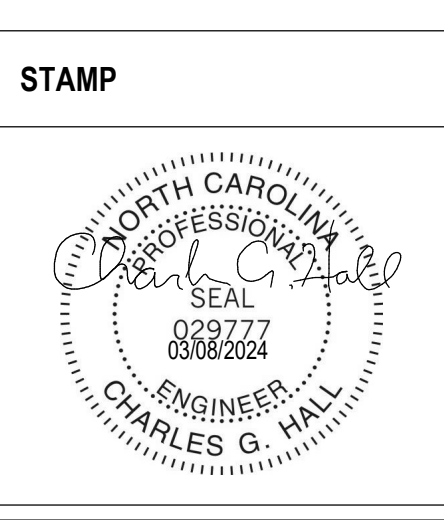
**SES SPECIALIZED ENGINEERING SOLUTIONS**  
Specialized Engineering Solutions  
1300 Baxter Street, Suite 355  
Charlotte, NC 28204

**ARCHITECT/ENGINEER OF RECORD**

**Atriax GROUP**  
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Fax: 828.315.9964

NC Engineering License No.: P-0214  
NC Architectural License No.: 51254



**Office of Construction and Facilities Management**

**VA** U.S. Department of Veterans Affairs

Drawing Title  
**BUILDING 18 LEVEL 01 - ELECTRICAL**

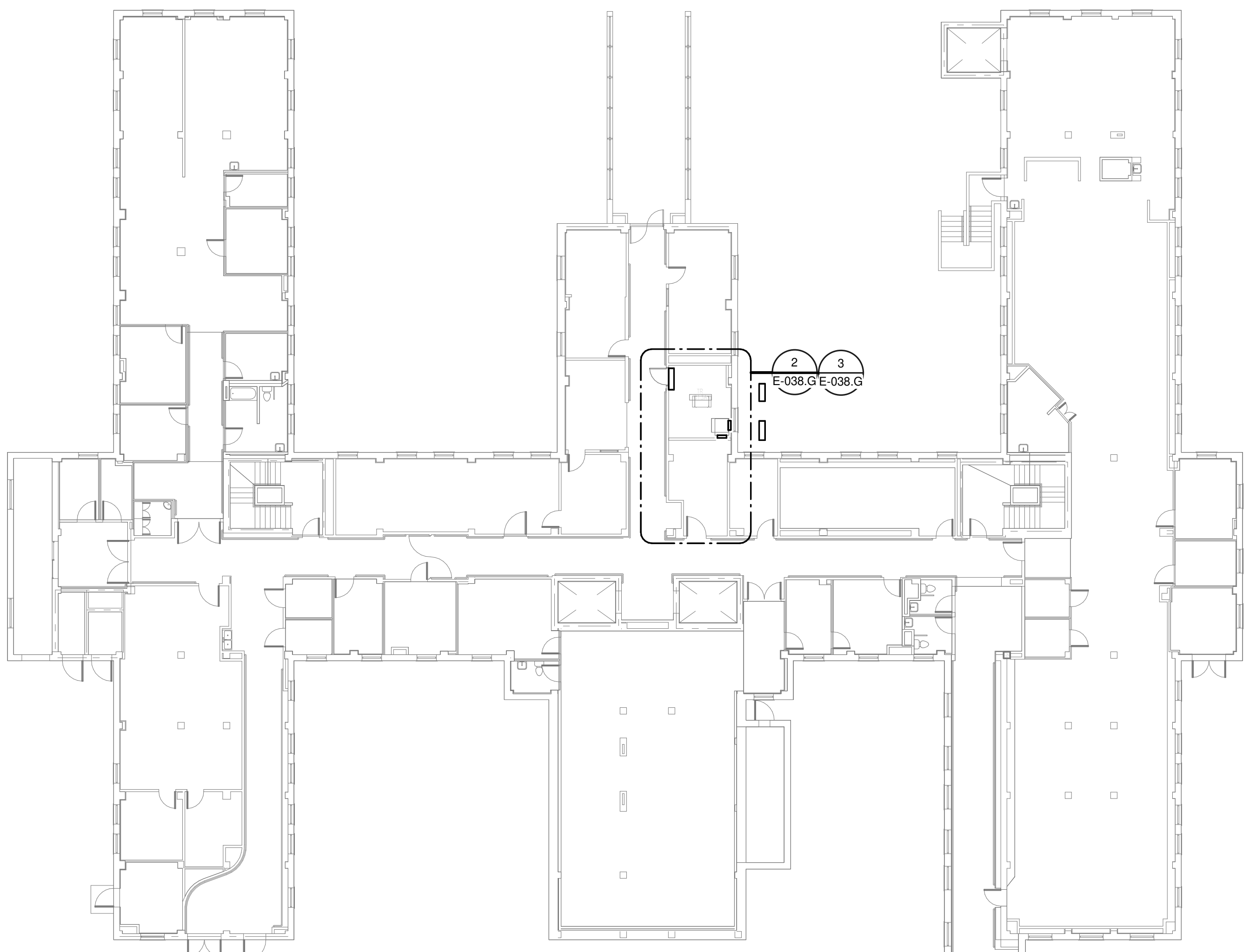
Approved:

Phase  
**100% CONSTRUCTION DOCUMENTS**

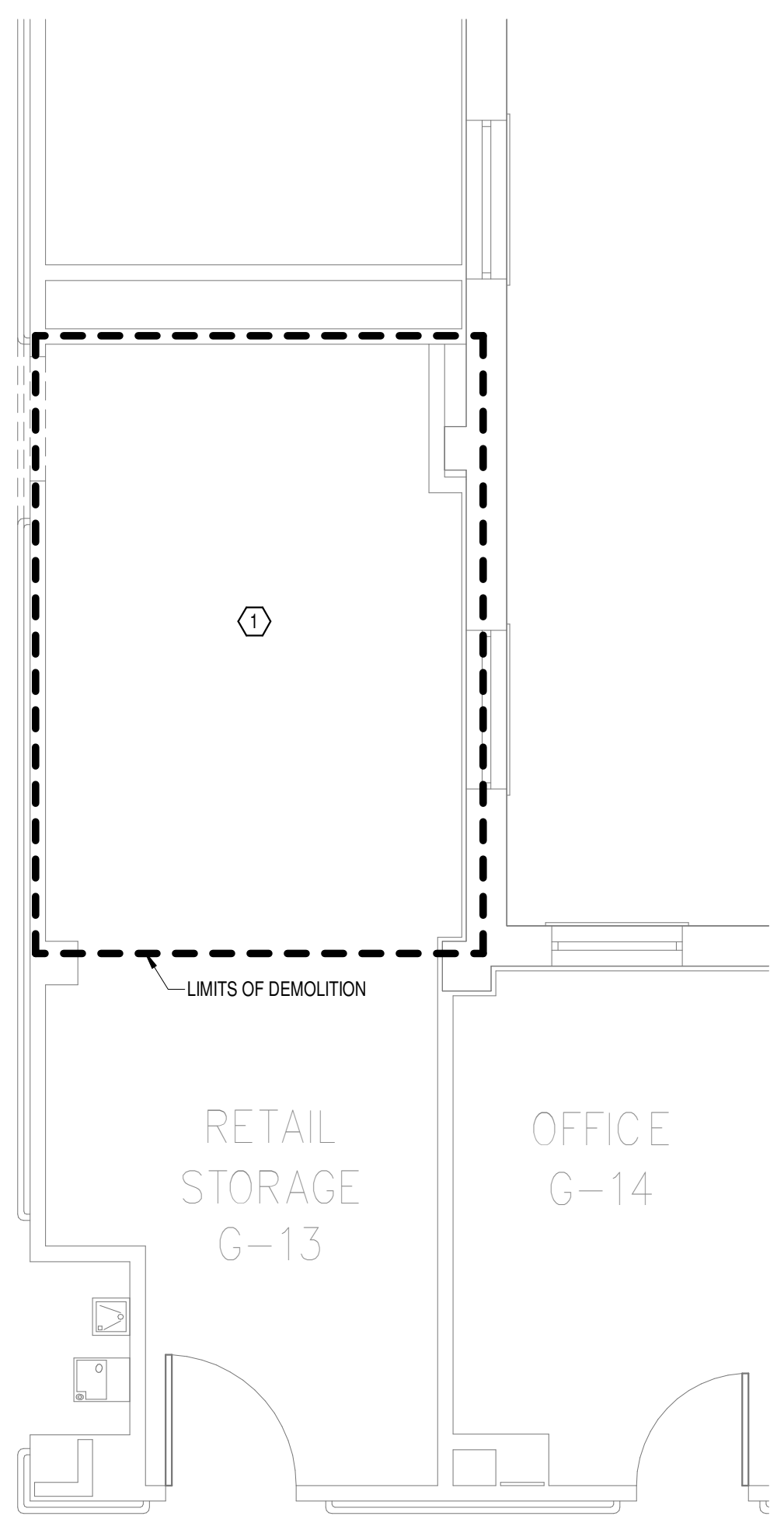
**FULLY SPRINKLERED**

Project Title EHRM INFRASTRUCTURE UPGRADES	Project Number 679-20-104
Location TUSCALOOSA VAMC, TUSCALOOSA, AL.	Building Number 18
Issue Date 03/08/2024	Checked CGH
Drawn MJJ	Drawing Number E-018.1

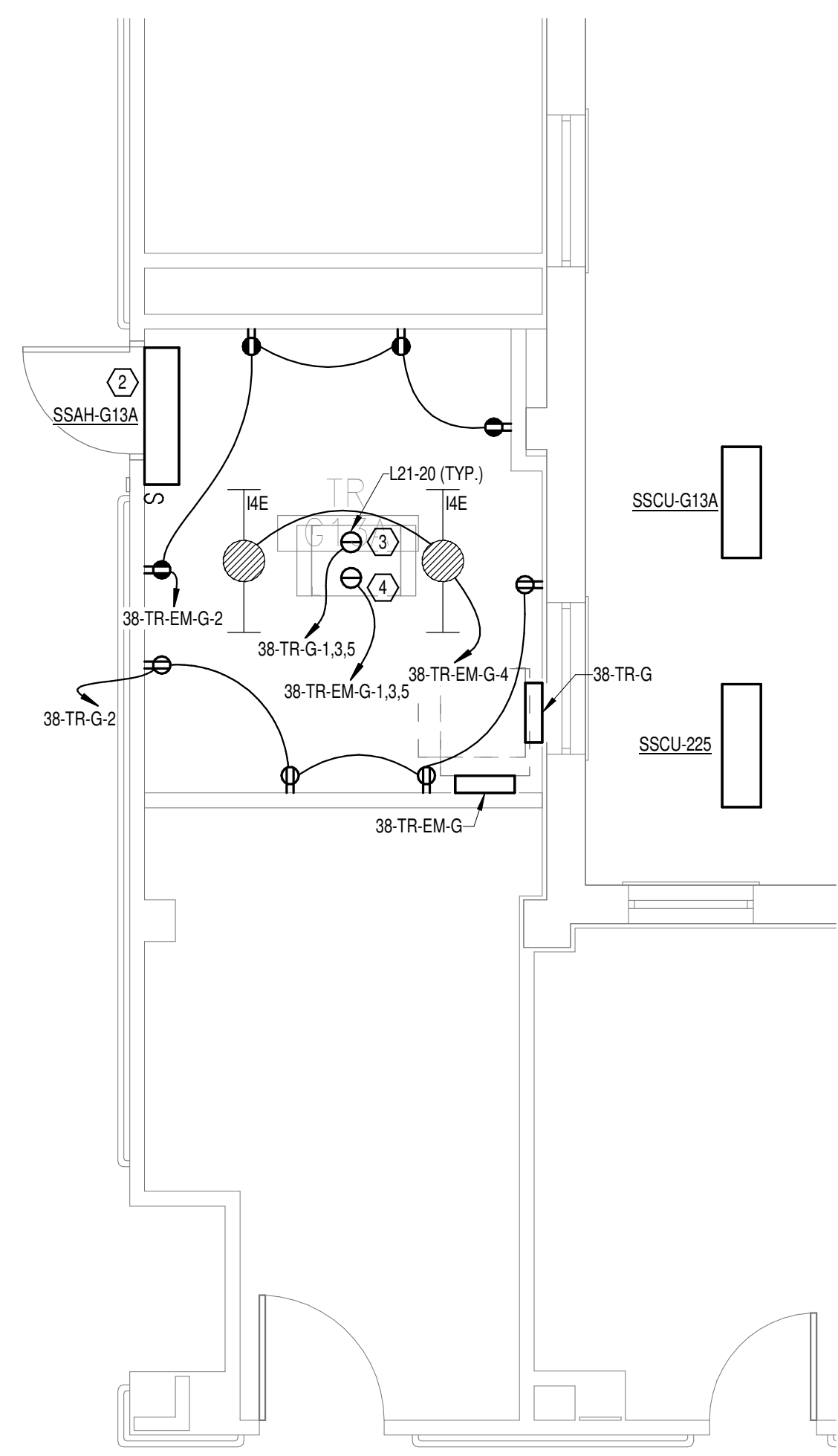




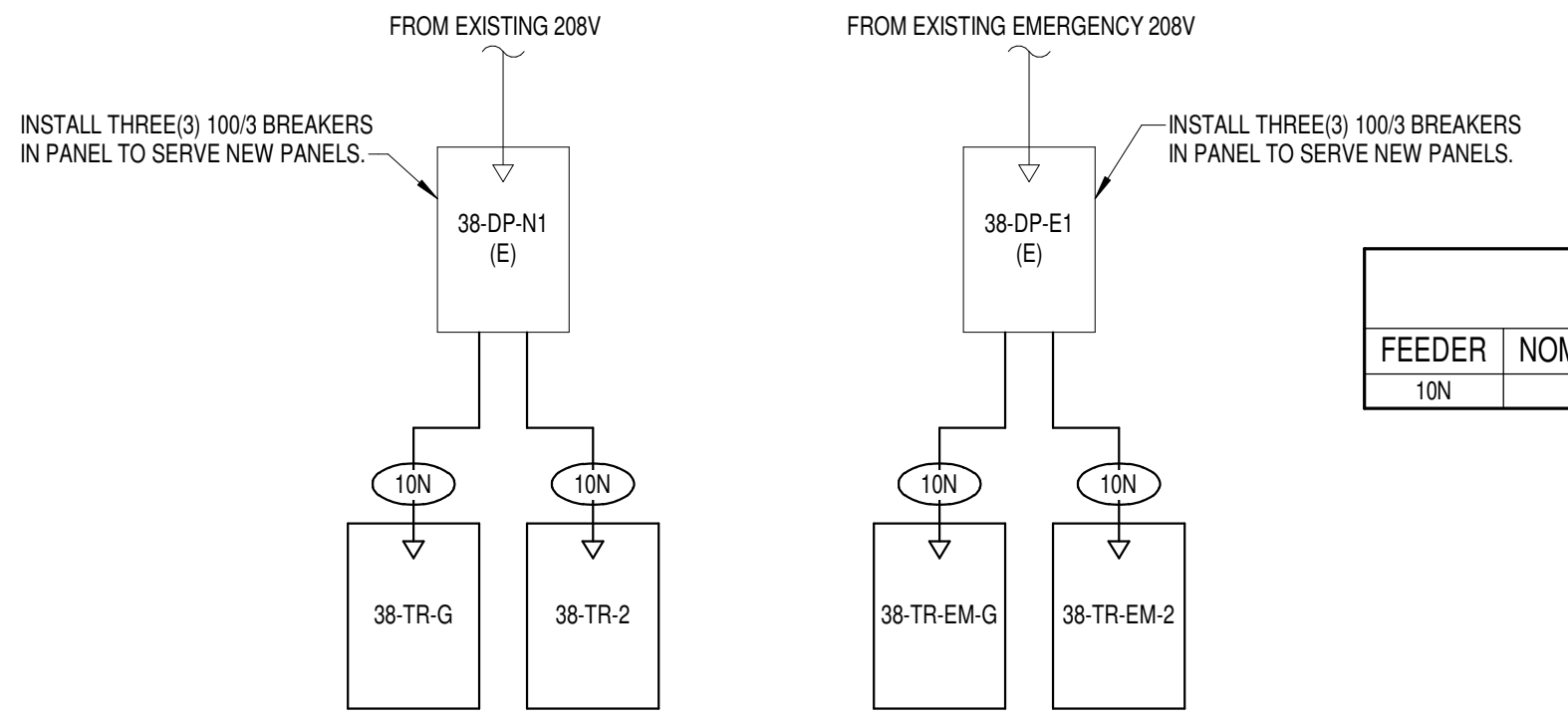
**1 OVERALL FLOOR PLAN GROUND - ELECTRICAL**  
1/16" = 1'-0"



**2 DEMOLITION FLOOR PLAN GROUND LEVEL - ELECTRICAL**  
1/4" = 1'-0"



**3 NEW FLOOR PLAN GROUND LEVEL - ELECTRICAL**  
1/4" = 1'-0"



FEEDER SCHEDULE - COPPER		
FEEDER	NOMINAL SIZE	WIRE AND CONDUIT
10N	100 A	4#1 CU, 48 CU GND - 2" C.

**4 BUILDING 38 - ELECTRICAL ONE-LINE**  
NO SCALE

EQUIPMENT CONNECTION SCHEDULE																	
MARK	DESCRIPTION	FLA	MCA	MOCB	VOLTS	PHASE	POLES	LOAD (VA)	CONTROL TYPE	DISCONNECT BY	DISCONNECT TYPE	FEEDER	PANEL	CIRCUIT NUMBER	SCCR	GEN	REMARKS
SSAH-225	SPLIT SYSTEM CONDENSING UNIT	208	1	2	208	1	2		INT	-	-	(3X) (30A) 2-#10 CU, #10 CU GND - 3/4" C.	38-TR-EM-2	7.9	5	Yes	2
SSAH-G13A	SPLIT SYSTEM CONDENSING UNIT	208	1	2	208	1	2		INT	-	-	(3X) (30A) 2-#10 CU, #10 CU GND - 3/4" C.	38-TR-EM-G	7.9	5	Yes	2
SSCU-225	SPLIT SYSTEM CONDENSING UNIT	20	25	30	208	1	2	3300	INT	ELECTRICAL	30A-SP-208V FUSED DISCONNECT SWITCH	(3X) (30A) 2-#10 CU, #10 CU GND - 3/4" C.	38-TR-EM-2	7.9	5	Yes	1
SSCU-G13A	SPLIT SYSTEM CONDENSING UNIT	15.2	19	25	208	1	2	1960	INT	ELECTRICAL	30A-SP-208V FUSED DISCONNECT SWITCH	(3X) (30A) 2-#10 CU, #10 CU GND - 3/4" C.	38-TR-EM-G	7.9		Yes	1

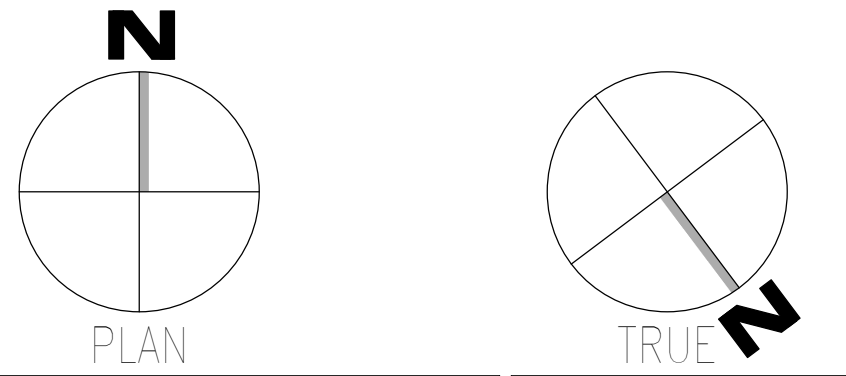
REMARKS: EQUIPMENT CONNECTION SCHEDULE  
1. CONTROLS BETWEEN INDOOR AND OUTDOOR UNITS - INCLUDE CONTROL WIRING IN CONDUIT BETWEEN INDOOR AND OUTDOOR UNIT PER MANUFACTURERS REQUIREMENTS.  
2. CONTROL TYPE - PROVIDE CONTROL AND CONNECTIONS "INT" - CONTROLS ARE MANUFACTURED INTEGRAL TO THE EQUIPMENT (SELF-CONTAINED).

PANEL: 38-TR-EM-G												
LOCATION: TR-G13A			VOLTS: 208/120 WYE			MAINS TYPE: MCB			PHASES: 3			
SUPPLY FROM: 38-DP-E1			WIRING: 4			MCB/MLO RATING: 100 A			SECTIONS: 1			
BRANCH: EMERGENCY			INTEGRAL SPD: Yes			MCB OPTIONS:			PANEL POLES: 24			
SERVICE RATED: No			AVAILABLE SCC (kA): 10			MOUNTING: SURFACE			NEMA ENCLOSURE: NEMA 1			
CKT	CIRCUIT DESCRIPTION	OPT	RATING	POLES	A	B	C	POLES	RATING	OPT	CIRCUIT DESCRIPTION	CKT
1	REC - IT RACK TR-G13A		20 A	3	1667 VA   720 VA	1667 VA   66 VA		1	20 A		REC - TR-G13A	2
3	SSAH-G13		25 A	2	980 VA   0 VA	980 VA   0 VA		1	20 A		SSAH-G13	8
5	SSCU-G13		20 A	1	0 VA   0 VA	0 VA   0 VA		1	20 A		SSCU-G13	10
7	SSCU-G13		20 A	1	0 VA   0 VA	0 VA   0 VA		1	20 A		SSCU-G13	12
9	SSCU-G13		20 A	1	0 VA   0 VA	0 VA   0 VA		1	20 A		SSCU-G13	14
11	SSCU-G13		20 A	1	0 VA   0 VA	0 VA   0 VA		1	20 A		SSCU-G13	16
13	SSCU-G13		20 A	1	0 VA   0 VA	0 VA   0 VA		1	20 A		SSCU-G13	18
15	SSCU-G13		20 A	1	0 VA   0 VA	0 VA   0 VA		1	20 A		SSCU-G13	20
17	SSCU-G13		20 A	1	0 VA   0 VA	0 VA   0 VA		1	20 A		SSCU-G13	22
19	SSCU-G13		20 A	1	0 VA   0 VA	0 VA   0 VA		1	20 A		SSCU-G13	24
21	SSCU-G13		20 A	1	0 VA   0 VA	0 VA   0 VA		1	20 A		SSCU-G13	26
23	SSCU-G13		20 A	1	0 VA   0 VA	0 VA   0 VA		1	20 A		SSCU-G13	28
TOTAL LOAD:					3387 VA	2713 VA	1667 VA					
TOTAL AMPS:					29 A	24 A	14 A					
LOAD CLASSIFICATION			CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS						
LTG			66 VA	125.00%	83 VA	CONNECTED LOAD: 1746 VA						
PWR-C			5000 VA	125.00%	6250 VA	CONNECTED CURRENT: 22 A						
REC			720 VA	100.00%	720 VA	DEMAND LOAD: 9503 VA						
MEQ-C			1960 VA	125.00%	2450 VA	DEMAND CURRENT: 26 A						
						CONSIDER 125% DEMAND: 11878 A						
						EQUIPMENT AMPS: 100 A						
						FEEDER AVAILABLE:						
						SPARE CAPACITY: 73 %						
						74 A						

OPTIONS:  
CIRCUIT BREAKER OPTIONS SUFFIX: 'S' OR 'ST' - PROVIDE SHUNT TRIP CIRCUIT BREAKER / 'G' OR 'GFCI' - PROVIDE GFCI CIRCUIT BREAKER / 'GFP' - PROVIDE GFP CIRCUIT BREAKER / 'ERMS' - ENERGY REDUCING MAINTENANCE SWITCH / 'ZSI' - ZONE SELECTIVE INTERLOCKING / 'L' - PROVIDE CIRCUIT BREAKER WITH LOCKING PROVISIONS / 'R' - PROVIDE CIRCUIT BREAKER WITH RED MARKING  
GENERAL REMARKS:  
A. PANEL AIC (INTERRUPTING) RATING SHALL BE MINIMUM 120% OF THE AVAILABLE SCC (SHORT CIRCUIT CURRENT).  
B. BUS B PANEL.  
C. WHERE NEW PANELS ARE SHOWN AT TELECOM PLYWOOD LOCATIONS, MOUNT PANELS TO PLYWOOD.

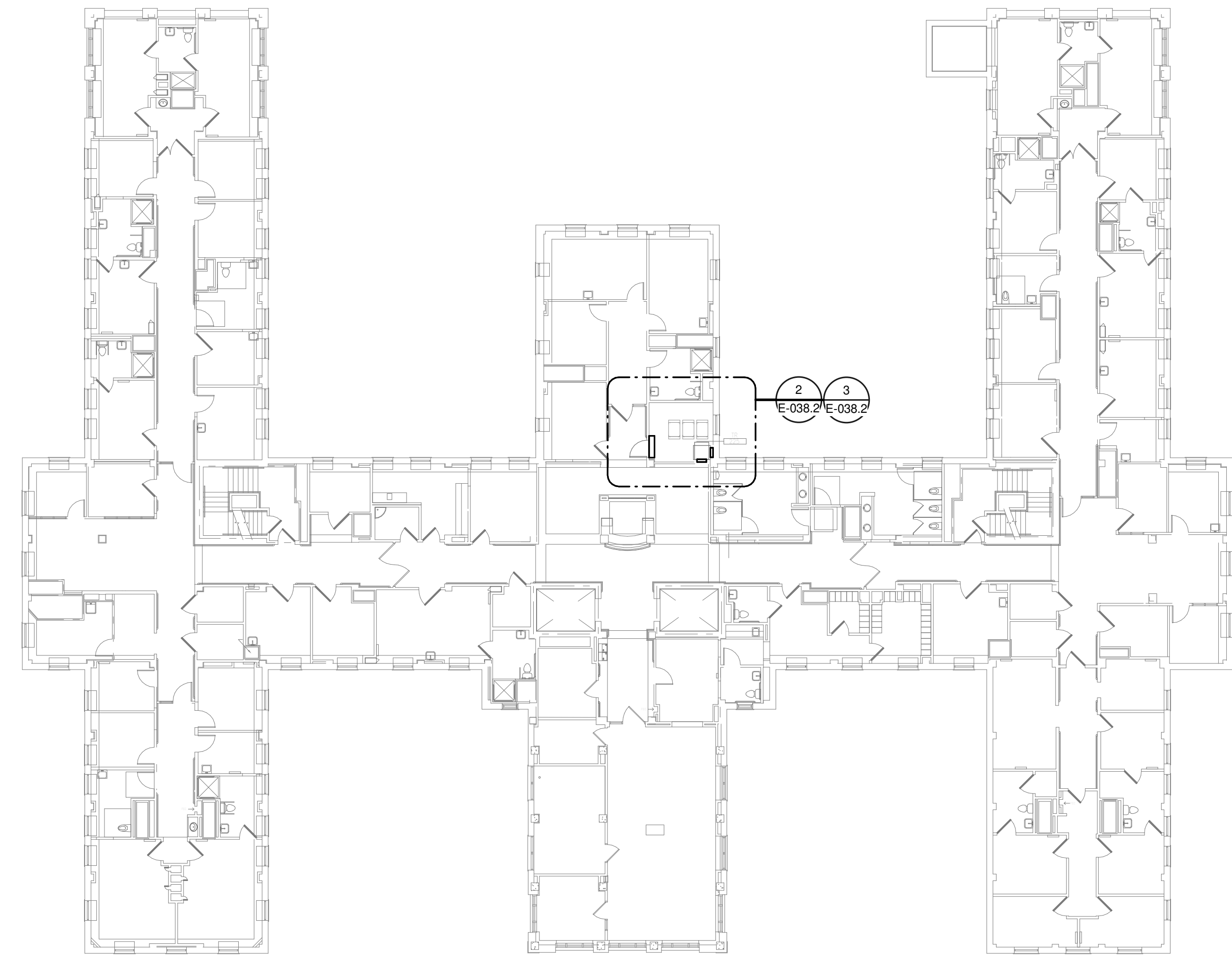
PANEL: 38-TR-G												
LOCATION: TR-G13A			VOLTS: 208/120 WYE			MAINS TYPE: MCB			PHASES: 3			
SUPPLY FROM: 38-DP-N1			WIRING: 4			MCB/MLO RATING: 100 A			SECTIONS: 1			
BRANCH: NORMAL			INTEGRAL SPD: Yes			MCB OPTIONS:			PANEL POLES: 24			
SERVICE RATED: No			AVAILABLE SCC (kA): 10			MOUNTING: SURFACE			NEMA ENCLOSURE: NEMA 1			
CKT	CIRCUIT DESCRIPTION	OPT	RATING	POLES	A	B	C	POLES	RATING	OPT	CIRCUIT DESCRIPTION	CKT
1	REC - IT RACK TR-G13A		20 A	3	1667 VA   720 VA	1667 VA   0 VA		1	20 A		REC - TR-G13A	2
3	SSAH-G13		25 A	2	980 VA   0 VA	980 VA   0 VA		1	20 A		SSAH-G13	8
5	SSCU-G13		20 A	1	0 VA   0 VA	0 VA   0 VA		1	20 A		SSCU-G13	10
7	SSCU-G13		20 A	1	0 VA   0 VA	0 VA   0 VA		1	20 A		SSCU-G13	12
9	SSCU-G13		20 A	1	0 VA   0 VA	0 VA   0 VA		1	20 A		SSCU-G13	14
11	SSCU-G13		20 A	1	0 VA   0 VA	0 VA   0 VA		1	20 A		SSCU-G13	16
13	SSCU-G13		20 A	1	0 VA   0 VA	0 VA   0 VA		1	20 A		SSCU-G13	18
15	SSCU-G13		20 A	1	0 VA   0 VA	0 VA   0 VA		1	20 A		SSCU-G13	20
17	SSCU-G13		20 A	1	0 VA   0 VA	0 VA   0 VA		1	20 A		SSCU-G13	22
19	SSCU-G13		20 A	1	0 VA   0 VA	0 VA   0 VA		1	20 A		SSCU-G13	24
21	SSCU-G13		20 A	1	0 VA   0 VA	0 VA   0 VA		1	20 A		SSCU-G13	26
23	SSCU-G13		20 A	1	0 VA   0 VA	0 VA   0 VA		1	20 A		SSCU-G13	28
TOTAL LOAD:					2387 VA	1667 VA	1667 VA					
TOTAL AMPS:					20 A	14 A	14 A					
LOAD CLASSIFICATION			CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS						
LTG			5000 VA	125.00%	6250 VA	CONNECTED LOAD: 5720 VA						
PWR-C			720 VA	100.00%	720 VA	CONNECTED CURRENT: 16 A						
REC			1960 VA	100.00%	1960 VA	DEMAND LOAD: 6970 VA						
						DEMAND CURRENT: 19 A						
						CONSIDER 125% DEMAND: 8713 A						
						EQUIPMENT AMPS: 100 A						
						FEEDER AVAILABLE:						
						SPARE CAPACITY: 80 %						
						81 A						

OPTIONS:  
CIRCUIT BREAKER OPTIONS SUFFIX: 'S' OR 'ST' - PROVIDE SHUNT TRIP CIRCUIT BREAKER / 'G' OR 'GFCI' - PROVIDE GFCI CIRCUIT BREAKER / 'GFP' - PROVIDE GFP CIRCUIT BREAKER / 'ERMS' - ENERGY REDUCING MAINTENANCE SWITCH / 'ZSI' - ZONE SELECTIVE INTERLOCKING / 'L' - PROVIDE CIRCUIT BREAKER WITH LOCKING PROVISIONS / 'R' - PROVIDE CIRCUIT BREAKER WITH RED MARKING  
GENERAL REMARKS:  
A. PANEL AIC (INTERRUPTING) RATING SHALL BE MINIMUM 120% OF THE AVAILABLE SCC (SHORT CIRCUIT CURRENT).  
B. BUS B PANEL.  
C. WHERE NEW PANELS ARE SHOWN AT TELECOM PLYWOOD LOCATIONS, MOUNT PANELS TO PLYWOOD.

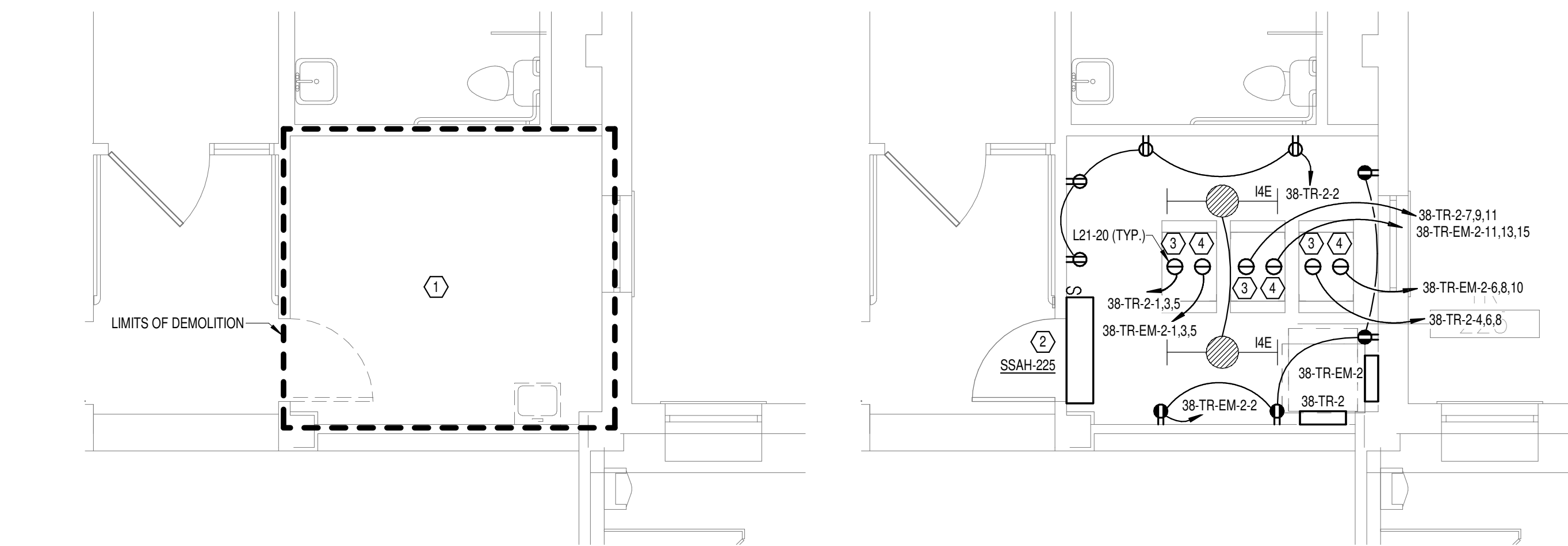


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<b>CONSULTANT</b> WileyWilson 127 Nationwide Drive Lynchburg, VA 24502 Phone: 434.947.1901 www.wileywilson.com		<b>ARCHITECT/ENGINEER OF RECORD</b> Atriax, pllc 102 3rd Avenue, NE PO Box 1629, Hickory, NC 28603 Phone: 828.315.9962 Fax: 828.315.9964 NC Engineering License No.: P-0214 NC Architectural License No.: 51254		<b>STAMP</b> NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 03/27/77 08/08/2024 CHARLES G. HALL	Office of Construction and Facilities Management U.S. Department of Veterans Affairs	Drawing Title <b>BUILDING 38 GROUND LEVEL - ELECTRICAL</b> Approved:	Phase <b>100% CONSTRUCTION DOCUMENTS</b> <b>FULLY SPRINKLERED</b>	Project Title <b>EHRM INFRASTRUCTURE UPGRADES</b>	Project Number <b>679-20-104</b>	Building Number <b>38</b>	Drawing Number <b>E-038.G</b>
Revisions:	Date:	Location TUSCALOOSA VAMC, TUSCALOOSA, AL.	Issue Date 03/08/2024	Checked CGH	Drawn MJJ						



1 OVERALL FLOOR PLAN  
LEVEL 02 - ELECTRICAL  
1/16" = 1'-0"



2 DEMOLITION FLOOR  
PLAN LEVEL 02 -  
ELECTRICAL  
1/4" = 1'-0"

3 NEW FLOOR PLAN LEVEL  
02 - ELECTRICAL  
1/4" = 1'-0"

- GENERAL NOTES:**
- A. REFER TO TELECOM, HVAC, AND FIRE PROTECTION DRAWINGS. COORDINATE LOCATION ON NEW LIGHTING FIXTURES, NEW ELECTRICAL PANELS, AND NEW CABLE TRAY MOUNTED RECEPTACLES WITH OTHER DISCIPLINES.
- SHEET NOTES:**
1. REMOVE ALL EXISTING DEVICES AND WIRING BACK TO SOURCE. VISIT SITE TO DETERMINE FULL EXTENT OF DEMOLITION.
  2. REFER TO EQUIPMENT CONNECTION SCHEDULE.
  3. PROVIDE RECEPTACLE FOR BUS B. MOUNT RECEPTACLE TO CABLE TRAY ABOVE RACK.
  4. PROVIDE RECEPTACLE FOR BUS A. MOUNT RECEPTACLE TO CABLE TRAY ABOVE RACK.

**PANEL: 38-TR-EM-2**

LOCATION: TR 225      VOLTS: 208/120 WYE      MAINS TYPE: MCB  
 SUPPLY FROM: 38-DP-E1      PHASES: 3      MCB/MLO RATING: 100 A  
 BRANCH: EMERGENCY      WIRES: 4      MCB OPTIONS:  
 SERVICE RATED: No      INTEGRAL SPD: Yes      SECTIONS: 1  
 MOUNTING: SURFACE      AVAILABLE SCC (KA): 10      PANEL POLES: 24  
 NEMA ENCLOSURE: NEMA 1

CKT	CIRCUIT DESCRIPTION	OPT	RATING	POLES	A	B	C	POLES	RATING	OPT	CIRCUIT DESCRIPTION	CKT
1	REC - IT RACK TR-225		20 A	3	1667 VA 720 VA	1667 VA 66 VA	1667 VA 1667 VA	1	20 A		REC - TR-225	2
3	REC - IT RACK TR-225		20 A	3	1667 VA 720 VA	1667 VA 66 VA	1667 VA 1667 VA	1	20 A		LTG - TR-225	4
5												
7	SSCU-225/SSAH-225		30 A	2	1665 VA 1667 VA	1665 VA 1667 VA		3	20 A		REC - IT RACK TR-225	8
9												
11	REC - IT RACK TR-225		20 A	3	1667 VA 0 VA	1667 VA 0 VA	1667 VA 0 VA	1	20 A	--	SPARE	10
13												
15	REC - IT RACK TR-225		20 A	3	1667 VA 0 VA	1667 VA 0 VA		1	20 A	--	SPARE	12
17	SPACE	--	--	1	--	--	--	1	--	--	SPACE	14
19	SPACE	--	--	1	--	--	--	1	--	--	SPACE	16
21	SPACE	--	--	1	--	--	--	1	--	--	SPACE	18
23	SPACE	--	--	1	--	--	--	1	--	--	SPACE	20
<b>TOTAL LOAD:</b>					7385 VA	6731 VA	5000 VA					
<b>TOTAL AMPS:</b>					64 A	58 A	42 A					

**LOAD CLASSIFICATION**

	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS
LTG	66 VA	125.00%	83 VA	CONNECTED LOAD: 19116 VA
PWR-C	15000 VA	125.00%	18750 VA	CONNECTED CURRENT: 53 A
REC	720 VA	100.00%	720 VA	DEMAND LOAD: 23715 VA
MEQ-C	3330 VA	125.00%	4163 VA	DEMAND CURRENT: 66 A
				CONSIDER 125% DEMAND: 29644 A
				EQUIPMENT AMPS: 100 A
				FEEDER AVAILABLE: 34 %
				SPARE CAPACITY: 34 A

**OPTIONS:**

CIRCUIT BREAKER OPTIONS SUFFIX: 'S' OR 'ST' - PROVIDE SHUNT TRIP CIRCUIT BREAKER / 'G' OR 'GFCI' - PROVIDE GFCI CIRCUIT BREAKER / 'GFP' - PROVIDE GFP CIRCUIT BREAKER / 'ERMS' - ENERGY REDUCING MAINTENANCE SWITCH / 'ZSI' - ZONE SELECTIVE INTERLOCKING / 'L' - PROVIDE CIRCUIT BREAKER WITH LOCKING PROVISIONS / 'R' - PROVIDE CIRCUIT BREAKER WITH RED MARKING

**GENERAL REMARKS:**

A. PANEL AIC (INTERRUPTING) RATING SHALL BE MINIMUM 120% OF THE AVAILABLE SCC (SHORT CIRCUIT CURRENT).  
 B. BUS B PANEL.  
 C. WHERE NEW PANELS ARE SHOWN AT TELECOM PLYWOOD LOCATIONS, MOUNT PANELS TO PLYWOOD.

**PANEL: 38-TR-2**

LOCATION: TR 225      VOLTS: 208/120 WYE      MAINS TYPE: MCB  
 SUPPLY FROM: 38-DP-N1      PHASES: 3      MCB/MLO RATING: 100 A  
 BRANCH: NORMAL      WIRES: 4      MCB OPTIONS:  
 SERVICE RATED: No      INTEGRAL SPD: Yes      SECTIONS: 1  
 MOUNTING: SURFACE      AVAILABLE SCC (KA): 10      PANEL POLES: 24  
 NEMA ENCLOSURE: NEMA 1

CKT	CIRCUIT DESCRIPTION	OPT	RATING	POLES	A	B	C	POLES	RATING	OPT	CIRCUIT DESCRIPTION	CKT
1	REC - IT RACK TR-225		20 A	3	1667 VA 720 VA	1667 VA 1667 VA	1667 VA 1667 VA	1	20 A		REC - TR-225	2
3	REC - IT RACK TR-225		20 A	3	1667 VA 720 VA	1667 VA 1667 VA	1667 VA 1667 VA	1	20 A		REC - IT RACK TR-225	4
5												
7	REC - IT RACK TR-225		20 A	3	1667 VA 1667 VA	1667 VA 1667 VA		1	20 A	--	SPARE	8
9												
11	REC - IT RACK TR-225		20 A	3	1667 VA 0 VA	1667 VA 0 VA	1667 VA 0 VA	1	20 A	--	SPARE	10
13												
15	REC - IT RACK TR-225		20 A	3	1667 VA 0 VA	1667 VA 0 VA	1667 VA 0 VA	1	20 A	--	SPARE	12
17	SPACE	--	--	1	--	--	--	1	--	--	SPACE	14
19	SPACE	--	--	1	--	--	--	1	--	--	SPACE	16
21	SPACE	--	--	1	--	--	--	1	--	--	SPACE	18
23	SPACE	--	--	1	--	--	--	1	--	--	SPACE	20
<b>TOTAL LOAD:</b>					5720 VA	5000 VA	5000 VA					
<b>TOTAL AMPS:</b>					48 A	42 A	42 A					

**LOAD CLASSIFICATION**

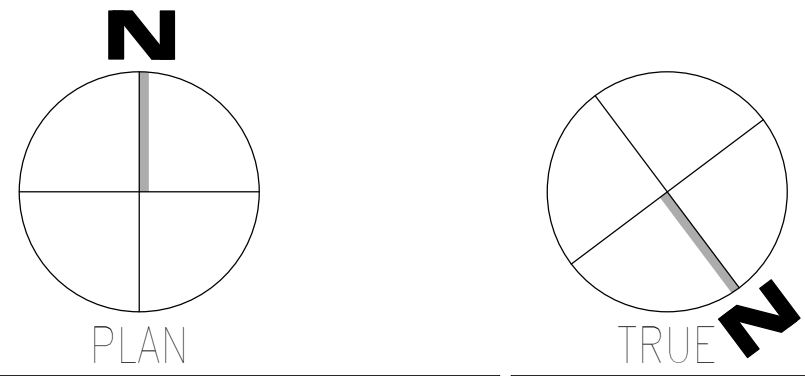
	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS
PWR-C	15000 VA	125.00%	18750 VA	CONNECTED LOAD: 15720 VA
REC	720 VA	100.00%	720 VA	CONNECTED CURRENT: 44 A
				DEMAND LOAD: 19470 VA
				DEMAND CURRENT: 54 A
				CONSIDER 125% DEMAND: 24338 A
				EQUIPMENT AMPS: 100 A
				FEEDER AVAILABLE: 45 %
				SPARE CAPACITY: 46 A

**OPTIONS:**

CIRCUIT BREAKER OPTIONS SUFFIX: 'S' OR 'ST' - PROVIDE SHUNT TRIP CIRCUIT BREAKER / 'G' OR 'GFCI' - PROVIDE GFCI CIRCUIT BREAKER / 'GFP' - PROVIDE GFP CIRCUIT BREAKER / 'ERMS' - ENERGY REDUCING MAINTENANCE SWITCH / 'ZSI' - ZONE SELECTIVE INTERLOCKING / 'L' - PROVIDE CIRCUIT BREAKER WITH LOCKING PROVISIONS / 'R' - PROVIDE CIRCUIT BREAKER WITH RED MARKING

**GENERAL REMARKS:**

A. PANEL AIC (INTERRUPTING) RATING SHALL BE MINIMUM 120% OF THE AVAILABLE SCC (SHORT CIRCUIT CURRENT).  
 B. BUS B PANEL.  
 C. WHERE NEW PANELS ARE SHOWN AT TELECOM PLYWOOD LOCATIONS, MOUNT PANELS TO PLYWOOD.



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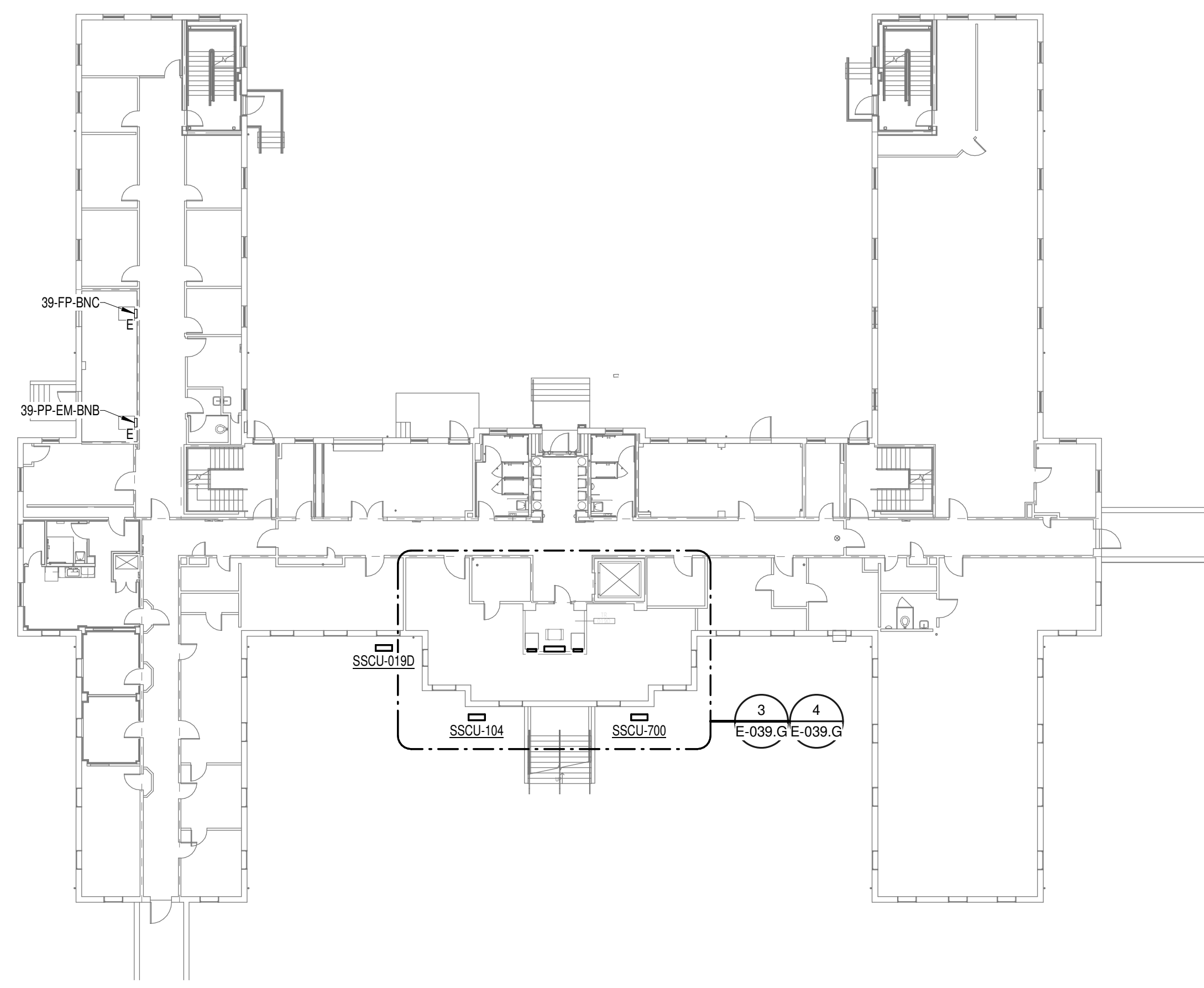
	<b>CONSULTANT</b>  WileyWilson 127 Nationwide Drive Lynchburg, VA 24502 Phone: 434.947.1901 www.wileywilson.com	<b>ARCHITECT/ENGINEER OF RECORD</b>  Atriax, PLLC 102 3rd Avenue, NE PO Box 1629, Hickory, NC 28603 Phone: 828.315.9962 Fax: 828.315.9964 NC Engineering License No.: P-0214 NC Architectural License No.: 51254	<b>STAMP</b> 	Office of Construction and Facilities Management U.S. Department of Veterans Affairs	Drawing Title <b>BUILDING 38 LEVEL 02 -                  ELECTRICAL</b> Approved:	Phase <b>100% CONSTRUCTION                  DOCUMENTS</b> <b>FULLY SPRINKLERED</b>	Project Title <b>EHRM INFRASTRUCTURE UPGRADES</b> Location TUSCALOOSA VAMC, TUSCALOOSA, AL. Issue Date 03/08/2024	Project Number <b>679-20-104</b> Building Number <b>38</b> Drawing Number <b>E-038.2</b>
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EQUIPMENT CONNECTION SCHEDULE																	
MARK	DESCRIPTION	FLA	MCA	MOCP	VOLTS	PHASE	POLES	LOAD [VA]	CONTROL TYPE	DISCONNECT BY	DISCONNECT TYPE	FEEDER	PANEL	CIRCUIT NUMBER	SCCR	GEN	REMARKS
SSAH-019D	SPLIT SYSTEM CONDENSING UNIT				208		2		INT			(3X) (30A) 2-#10 CU, #10 CU GND - 3/4"	39-TR-EM-BA	7.9	5	Yes	2
SSAH-104	SPLIT SYSTEM CONDENSING UNIT				208		2		INT			(3X) (30A) 2-#10 CU, #10 CU GND - 3/4"	39-TR-EM-1A	7.9	5	Yes	2
SSAH-700	SPLIT SYSTEM CONDENSING UNIT				208		2		INT			(3X) (30A) 2-#10 CU, #10 CU GND - 3/4"	39-TR-EM-2A	7.9	5	Yes	2
SSCU-019D	SPLIT SYSTEM CONDENSING UNIT	0.4	19	25	208	1	2	1960	INT	ELECTRICAL	30A/2P/208V FUSED DISCONNECT SWITCH	(3X) (30A) 2-#10 CU, #10 CU GND - 3/4"	39-TR-EM-BA	7.9	5	Yes	1
SSCU-104	SPLIT SYSTEM CONDENSING UNIT	0.4	19	25	208	1	2	1960	INT	ELECTRICAL	30A/2P/208V FUSED DISCONNECT SWITCH	(3X) (30A) 2-#10 CU, #10 CU GND - 3/4"	39-TR-EM-2A	7.9	5	Yes	1
SSCU-700	SPLIT SYSTEM CONDENSING UNIT	0.4	19	25	208	1	2	1960	INT	ELECTRICAL	30A/2P/208V FUSED DISCONNECT SWITCH	(3X) (30A) 2-#10 CU, #10 CU GND - 3/4"	39-TR-EM-1A	7.9	5	Yes	1

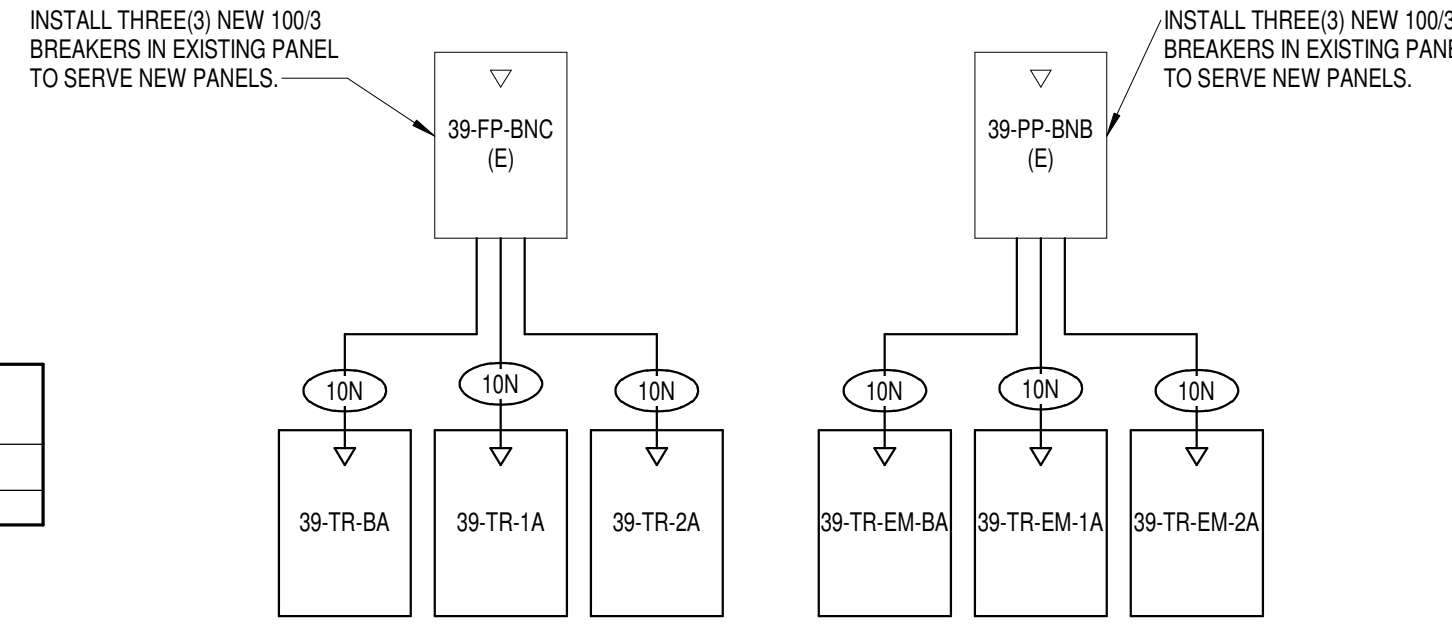
**GENERAL NOTES:**  
 A. REFER TO TELECOM, HVAC, AND FIRE PROTECTION DRAWINGS. COORDINATE LOCATION ON NEW LIGHTING FIXTURES, NEW ELECTRICAL PANELS, AND NEW CABLE TRAY MOUNTED RECEPTACLES WITH OTHER DISCIPLINES.

**SHEET NOTES:**  
 1. REMOVE ALL EXISTING DEVICES AND WIRING BACK TO SOURCE. VISIT SITE TO DETERMINE FULL EXTENT OF DEMOLITION.  
 2. REFER TO EQUIPMENT CONNECTION SCHEDULE.  
 3. PROVIDE RECEPTACLE FOR BUS B. MOUNT RECEPTACLE TO CABLE TRAY ABOVE RACK.  
 4. PROVIDE RECEPTACLE FOR BUS A. MOUNT RECEPTACLE TO CABLE TRAY ABOVE RACK.



**OVERALL FLOOR PLAN  
GROUND LEVEL -  
ELECTRICAL**  
1/4" = 20'-0"

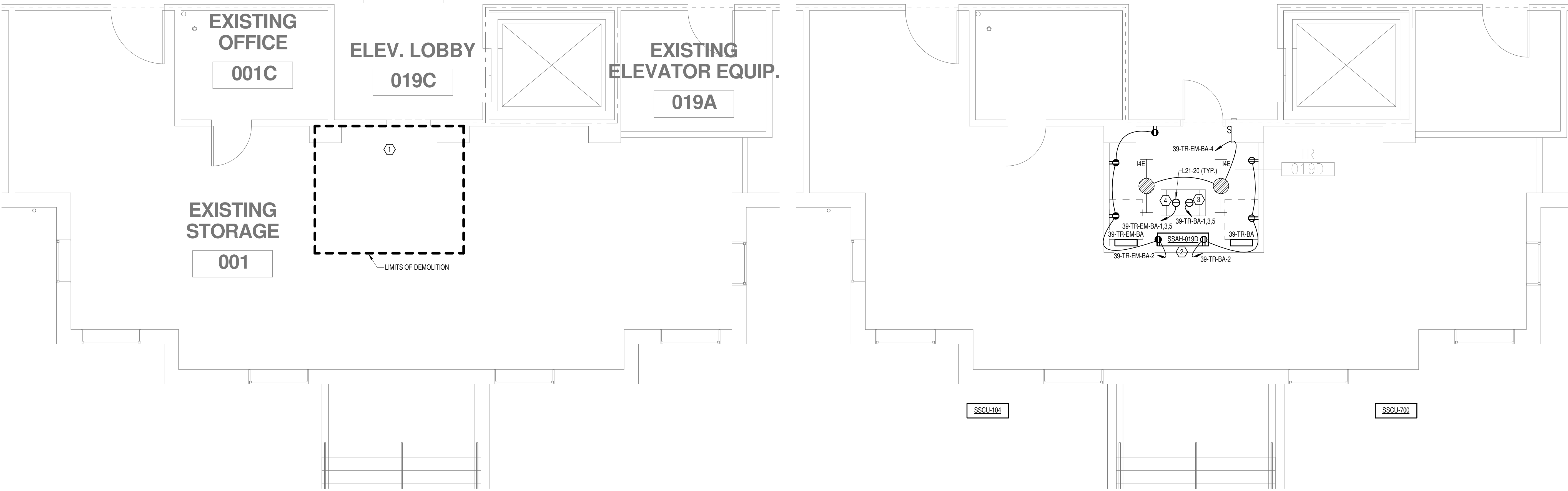
FEEDER SCHEDULE - COPPER		
FEEDER	NOMINAL SIZE	WIRE AND CONDUIT
10N	100 A	4-#1 CU, #8 CU GND - 2" C.



PANEL: 39-TR-BA																	
LOCATION: TR 019D				VOLTS: 208/120 WYE				MAINS TYPE: MCB									
SUPPLY FROM: 39-PP-BNC				PHASES: 3				MCB/IMO RATING: 100 A									
BRANCH: NORMAL				WIRES: 4				MCB OPTIONS:									
SERVICE RATED: No				INTEGRAL SPD: Yes				SECTIONS: 1									
MOUNTING: SURFACE				AVAILABLE SCC (KA): 10				PANEL POLES: 24									
NEMA ENCLOSURE: NEMA 1																	
CKT	CIRCUIT DESCRIPTION	OPT	RATING	POLES	A	B	C	POLES	RATING	OPT	CIRCUIT DESCRIPTION	CKT					
1	REC - IT RACK TR-019D		20 A	3	1667 VA	540 VA		1	20 A	--	REC-TR 019D	2					
3	SPARE	--	20 A	1	0 VA	0 VA		1	20 A	--	SPARE	4					
5	SPARE	--	20 A	1	0 VA	0 VA		1	20 A	--	SPARE	6					
7	SPARE	--	20 A	1	0 VA	0 VA		1	20 A	--	SPARE	8					
9	SPARE	--	20 A	1	0 VA	0 VA		1	20 A	--	SPARE	10					
11	SPARE	--	20 A	1	0 VA	0 VA		1	20 A	--	SPARE	12					
13	SPARE	--	20 A	1	0 VA	0 VA		1	20 A	--	SPARE	14					
15	SPARE	--	20 A	1	0 VA	0 VA		1	20 A	--	SPARE	16					
17	SPARE	--	20 A	1	0 VA	0 VA		1	20 A	--	SPARE	18					
19	SPARE	--	20 A	1	0 VA	0 VA		1	20 A	--	SPARE	20					
21	SPARE	--	20 A	1	0 VA	0 VA		1	20 A	--	SPARE	22					
23	SPARE	--	20 A	1	0 VA	0 VA		1	20 A	--	SPARE	24					
TOTAL LOAD:					2207 VA	1667 VA	1667 VA										
TOTAL AMPS:					18 A	14 A	14 A										

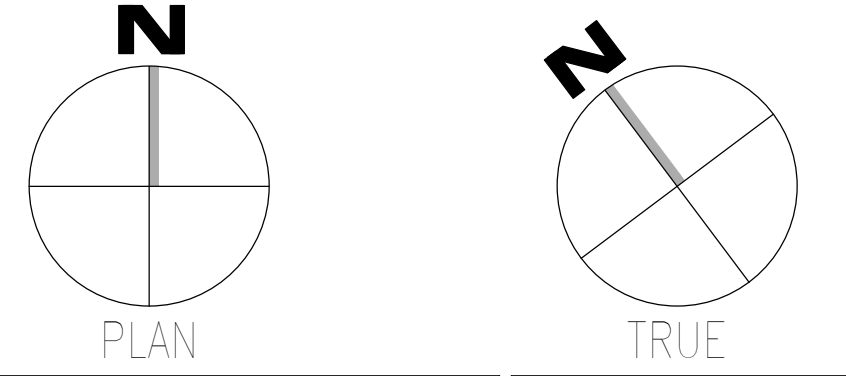
PANEL: 39-TR-EM-BA																	
LOCATION: TR 019D				VOLTS: 208/120 WYE				MAINS TYPE: MCB									
SUPPLY FROM: 39-PP-BNB				PHASES: 3				MCB/IMO RATING: 100 A									
BRANCH: EMERGENCY				WIRES: 4				MCB OPTIONS:									
SERVICE RATED: No				INTEGRAL SPD: Yes				SECTIONS: 1									
MOUNTING: SURFACE				AVAILABLE SCC (KA): 10				PANEL POLES: 24									
NEMA ENCLOSURE: NEMA 1																	
CKT	CIRCUIT DESCRIPTION	OPT	RATING	POLES	A	B	C	POLES	RATING	OPT	CIRCUIT DESCRIPTION	CKT					
1	REC - IT RACK TR-019D		20 A	3	1667 VA	720 VA		1	20 A	--	REC-TR 019D	2					
3	SPARE	--	20 A	1	0 VA	0 VA		1	20 A	--	SPARE	4					
5	SPARE	--	20 A	1	0 VA	0 VA		1	20 A	--	SPARE	6					
7	SSCU-019D/SSAH-019D		20 A	2	980 VA	0 VA		1	20 A	--	SSCU-019D	8					
9	SPARE	--	20 A	1	0 VA	0 VA		1	20 A	--	SPARE	10					
11	SPARE	--	20 A	1	0 VA	0 VA		1	20 A	--	SPARE	12					
13	SPARE	--	20 A	1	0 VA	0 VA		1	20 A	--	SPARE	14					
15	SPARE	--	20 A	1	0 VA	0 VA		1	20 A	--	SPARE	16					
17	SPARE	--	20 A	1	0 VA	0 VA		1	20 A	--	SPARE	18					
19	SPARE	--	20 A	1	0 VA	0 VA		1	20 A	--	SPARE	20					
21	SPARE	--	20 A	1	0 VA	0 VA		1	20 A	--	SPARE	22					
23	SPARE	--	20 A	1	0 VA	0 VA		1	20 A	--	SPARE	24					
TOTAL LOAD:					3367 VA	2713 VA	1667 VA										
TOTAL AMPS:					29 A	24 A	14 A										

**BUILDING 39 -  
ELECTRICAL ONE-LINE**  
2/4" = NO SCALE



**DEMOLITION FLOOR  
PLAN GROUND LEVEL -  
ELECTRICAL**  
3/4" = 1'-0"

**NEW FLOOR PLAN  
GROUND LEVEL -  
ELECTRICAL**  
4/4" = 1'-0"



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 T  
 VA Form 08-6231

Revisions:	Date:

**CONSULTANT**

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 NC Architectural License No.: 51254

**Office of Construction and Facilities Management**

**VA** U.S. Department of Veterans Affairs

Drawing Title  
**BUILDING 39 GROUND LEVEL - ELECTRICAL**

Approved:

Phase  
**100% CONSTRUCTION DOCUMENTS**

**FULLY SPRINKLERED**

Project Title  
**EHRM INFRASTRUCTURE UPGRADES**

Project Number  
**679-20-104**

Building Number  
**39**

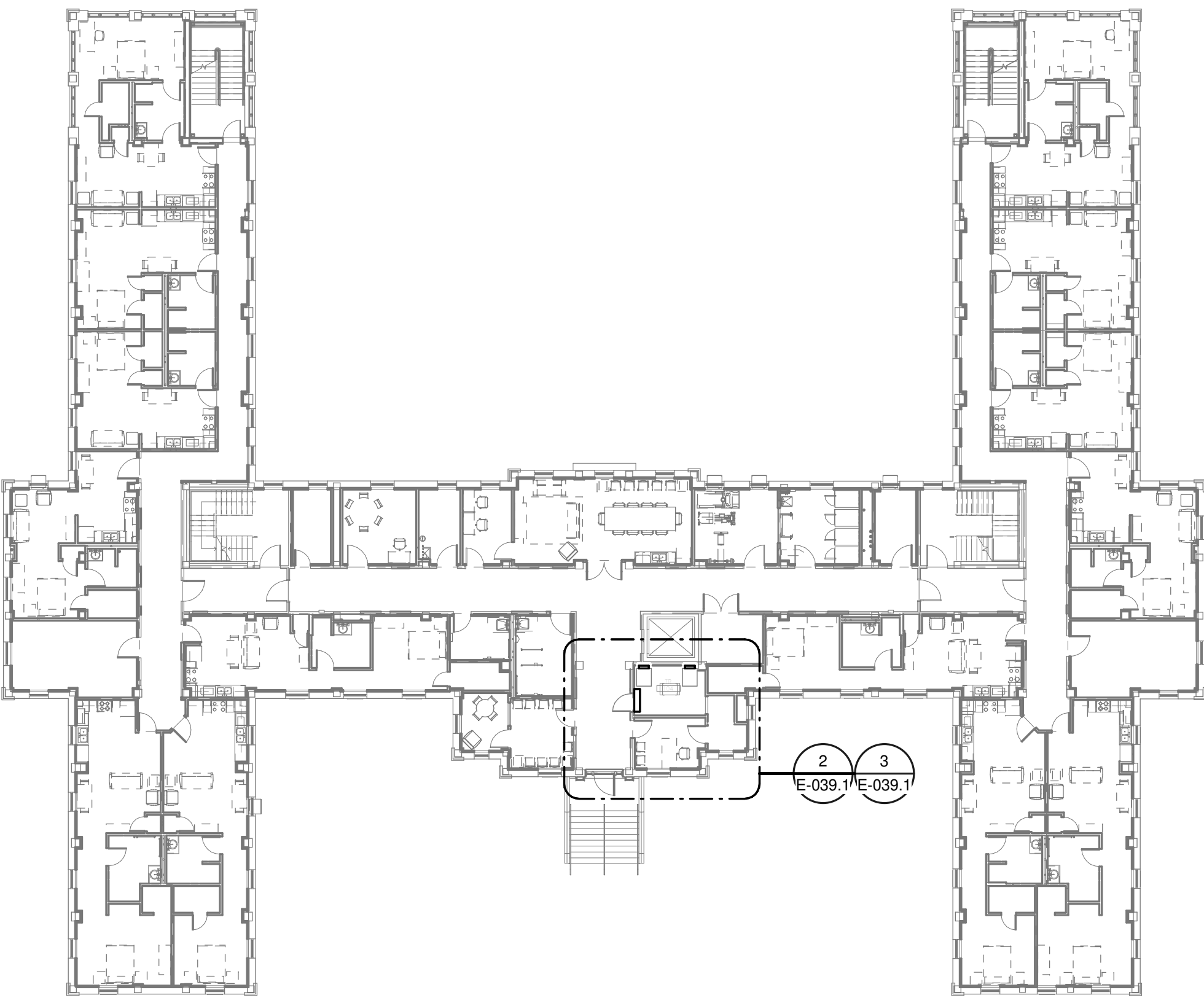
Drawing Number  
**E-039.G**

Location  
**TUSCALOOSA VAMC, TUSCALOOSA, AL.**

Issue Date  
**03/08/2024**

Checked  
**CGH**

Drawn  
**MJJ**



1 OVERALL FLOOR PLAN  
LEVEL 01 - ELECTRICAL  
1" = 20'-0"

PANEL: 39-TR-1A												
LOCATION: TR 104 SUPPLY FROM: 39-FP-BNC BRANCH: NORMAL SERVICE RATED: No MOUNTING: SURFACE NEMA ENCLOSURE: NEMA 1				VOLTS: 208/120 WYE PHASES: 3 WIRES: 4 INTEGRAL SPD: Yes AVAILABLE SCC (KA): 10				MAINS TYPE: MCB MCB/MLO RATING: 100 A MCB OPTIONS: 1 SECTIONS: 1 PANEL POLES: 24				
CKT	CIRCUIT DESCRIPTION	OPT	RATING	POLES	A	B	C	POLES	RATING	OPT	CIRCUIT DESCRIPTION	CKT
1			20 A	3	1667 VA	540 VA		1	20 A		REC-TR 104	2
3	REC - IT RACK TR-104					1667 VA	0 VA					4
5							1667 VA	0 VA				6
7	SPARE	--	20 A	1	0 VA	0 VA		1	20 A	--	SPARE	8
9	SPARE	--	20 A	1	0 VA	0 VA		1	20 A	--	SPARE	10
11	SPARE	--	20 A	1	0 VA	0 VA		1	20 A	--	SPARE	12
13	SPARE	--	20 A	1	0 VA	0 VA		1	20 A	--	SPARE	14
15	SPARE	--	20 A	1	0 VA	0 VA		1	20 A	--	SPARE	16
17	SPACE	--	--	1	--	--		1	--	--	SPACE	18
19	SPACE	--	--	1	--	--		1	--	--	SPACE	20
21	SPACE	--	--	1	--	--		1	--	--	SPACE	22
23	SPACE	--	--	1	--	--		1	--	--	SPACE	24
<b>TOTAL LOAD:</b>					2207 VA	1667 VA	1667 VA					
<b>TOTAL AMPS:</b>					18 A	14 A	14 A					
LOAD CLASSIFICATION				CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS					
PWR-C				5000 VA	125.00%	6250 VA	CONNECTED LOAD: 5540 VA					
REC				540 VA	100.00%	540 VA	CONNECTED CURRENT: 15 A					
							DEMAND LOAD: 6790 VA					
							DEMAND CURRENT: 19 A					
							CONSIDER 125% DEMAND: 8488 A					
							EQUIPMENT AMPS: 100 A					
							FEEDER AVAILABLE: 81 %					
							SPARE CAPACITY: 81 A					

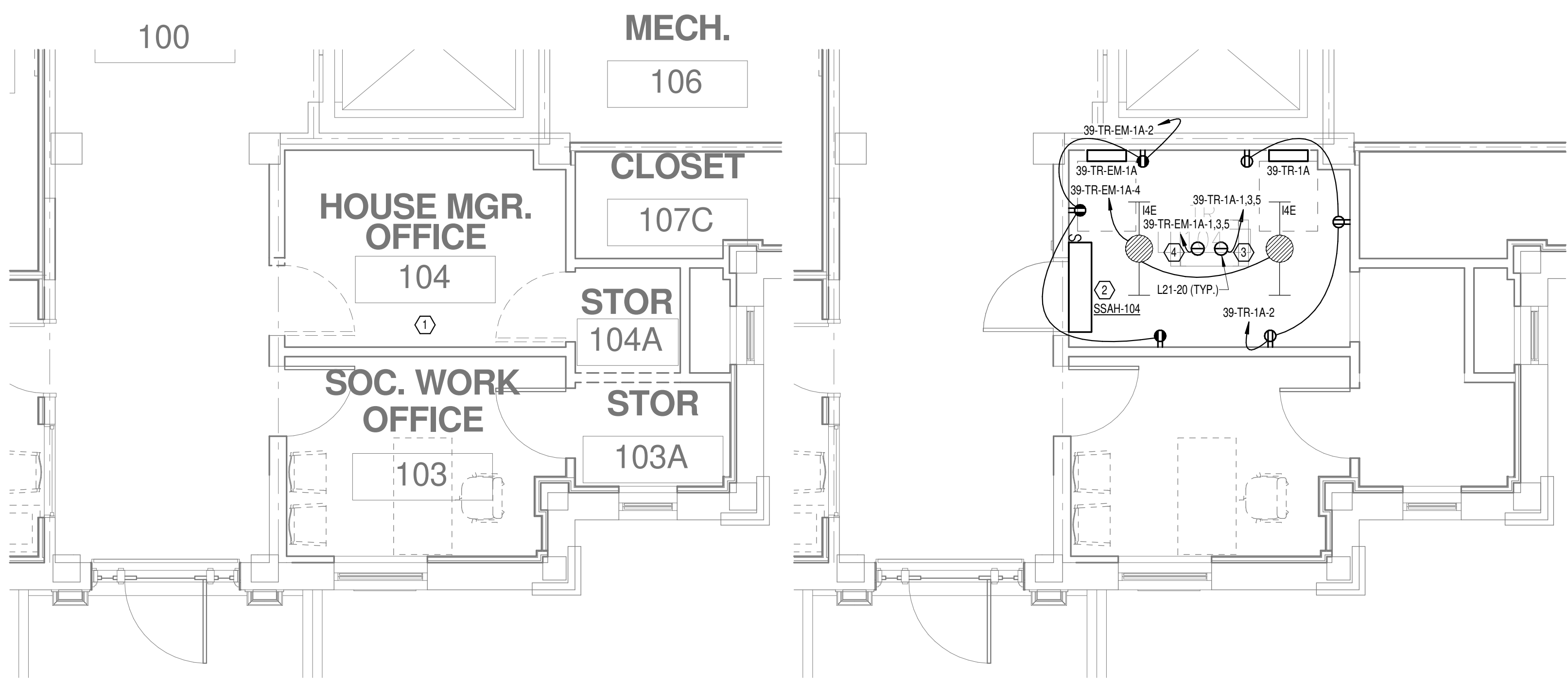
**OPTIONS:**  
CIRCUIT BREAKER OPTIONS SUFFIX: 'S' OR 'ST' - PROVIDE SHUNT TRIP CIRCUIT BREAKER / 'G' OR 'GFCI' - PROVIDE GFCI CIRCUIT BREAKER / 'GFP' - PROVIDE GFP CIRCUIT BREAKER / 'ERMS' - ENERGY REDUCING MAINTENANCE SWITCH / 'ZSI' - ZONE SELECTIVE INTERLOCKING / 'L' - PROVIDE CIRCUIT BREAKER WITH LOCKING PROVISIONS / 'R' - PROVIDE CIRCUIT BREAKER WITH RED MARKING

**GENERAL REMARKS:**  
A. PANEL AIC (INTERRUPTING) RATING SHALL BE MINIMUM 120% OF THE AVAILABLE SCC (SHORT CIRCUIT CURRENT).  
B. BUS B PANEL.  
C. WHERE NEW PANELS ARE SHOWN AT TELECOM PLYWOOD LOCATIONS, MOUNT PANELS TO PLYWOOD.

PANEL: 39-TR-EM-1A												
LOCATION: TR 104 SUPPLY FROM: 39-FP-BNC BRANCH: EMERGENCY SERVICE RATED: No MOUNTING: SURFACE NEMA ENCLOSURE: NEMA 1				VOLTS: 208/120 WYE PHASES: 3 WIRES: 4 INTEGRAL SPD: Yes AVAILABLE SCC (KA): 10				MAINS TYPE: MCB MCB/MLO RATING: 100 A MCB OPTIONS: 1 SECTIONS: 1 PANEL POLES: 24				
CKT	CIRCUIT DESCRIPTION	OPT	RATING	POLES	A	B	C	POLES	RATING	OPT	CIRCUIT DESCRIPTION	CKT
1			20 A	3	1667 VA	540 VA		1	20 A		REC-TR 104	2
3	REC - IT RACK TR-104					1667 VA	66 VA					4
5							1667 VA	0 VA				6
7	SSCU-104/SSAH-104		25 A	2	980 VA	0 VA		1	20 A	--	SPARE	8
9	SPARE	--	20 A	1	0 VA	0 VA		1	20 A	--	SPARE	10
11	SPARE	--	20 A	1	0 VA	0 VA		1	20 A	--	SPARE	12
13	SPARE	--	20 A	1	0 VA	0 VA		1	20 A	--	SPARE	14
15	SPARE	--	20 A	1	0 VA	0 VA		1	20 A	--	SPARE	16
17	SPACE	--	--	1	--	--		1	--	--	SPACE	18
19	SPACE	--	--	1	--	--		1	--	--	SPACE	20
21	SPACE	--	--	1	--	--		1	--	--	SPACE	22
23	SPACE	--	--	1	--	--		1	--	--	SPACE	24
<b>TOTAL LOAD:</b>					3187 VA	2713 VA	1667 VA					
<b>TOTAL AMPS:</b>					28 A	24 A	14 A					
LOAD CLASSIFICATION				CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS					
LTG				66 VA	125.00%	83 VA	CONNECTED LOAD: 7566 VA					
PWR-C				5000 VA	125.00%	6250 VA	CONNECTED CURRENT: 21 A					
REC				540 VA	100.00%	540 VA	DEMAND LOAD: 9323 VA					
MEQ-C				1960 VA	125.00%	2450 VA	DEMAND CURRENT: 26 A					
							CONSIDER 125% DEMAND: 11653 A					
							EQUIPMENT AMPS: 100 A					
							FEEDER AVAILABLE: 74 %					
							SPARE CAPACITY: 74 A					

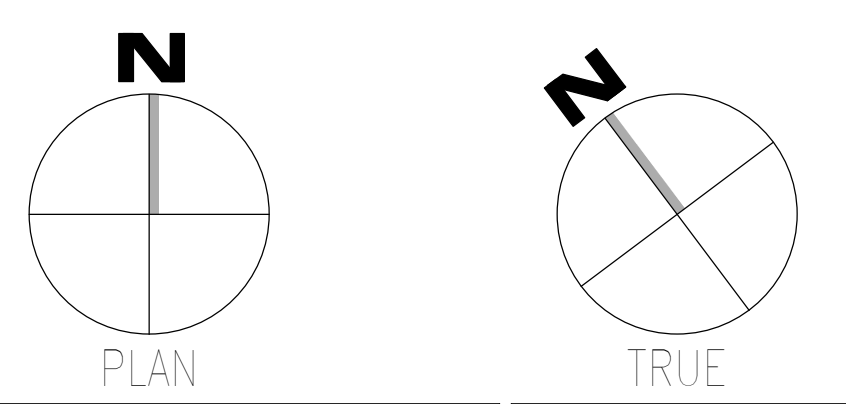
**OPTIONS:**  
CIRCUIT BREAKER OPTIONS SUFFIX: 'S' OR 'ST' - PROVIDE SHUNT TRIP CIRCUIT BREAKER / 'G' OR 'GFCI' - PROVIDE GFCI CIRCUIT BREAKER / 'GFP' - PROVIDE GFP CIRCUIT BREAKER / 'ERMS' - ENERGY REDUCING MAINTENANCE SWITCH / 'ZSI' - ZONE SELECTIVE INTERLOCKING / 'L' - PROVIDE CIRCUIT BREAKER WITH LOCKING PROVISIONS / 'R' - PROVIDE CIRCUIT BREAKER WITH RED MARKING

**GENERAL REMARKS:**  
A. PANEL AIC (INTERRUPTING) RATING SHALL BE MINIMUM 120% OF THE AVAILABLE SCC (SHORT CIRCUIT CURRENT).  
B. BUS A PANEL.  
C. WHERE NEW PANELS ARE SHOWN AT TELECOM PLYWOOD LOCATIONS, MOUNT PANELS TO PLYWOOD.



2 DEMOLITION FLOOR  
PLAN LEVEL 01 -  
ELECTRICAL  
1/4" = 1'-0"

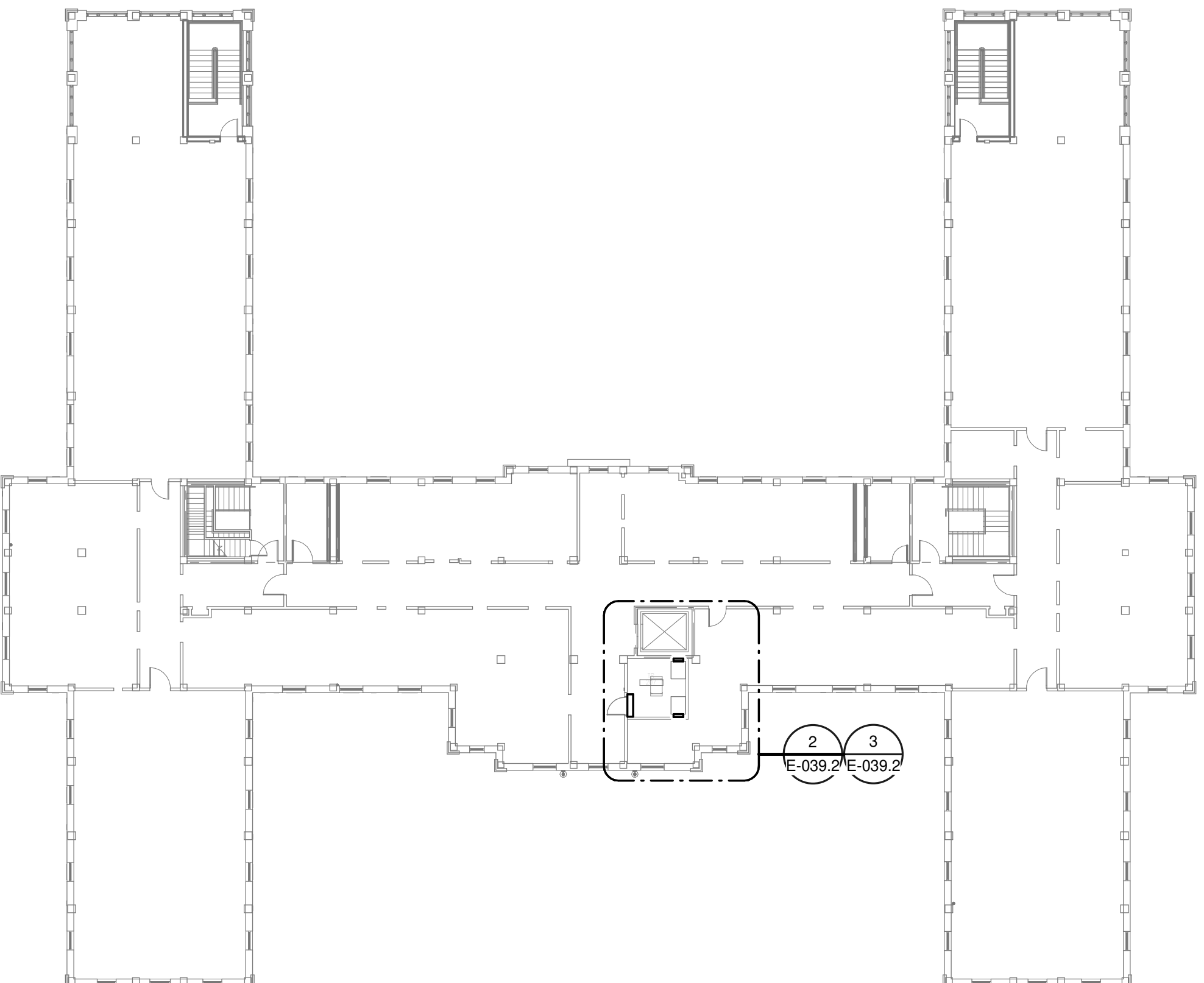
3 NEW FLOOR PLAN LEVEL  
01 - ELECTRICAL  
1/4" = 1'-0"



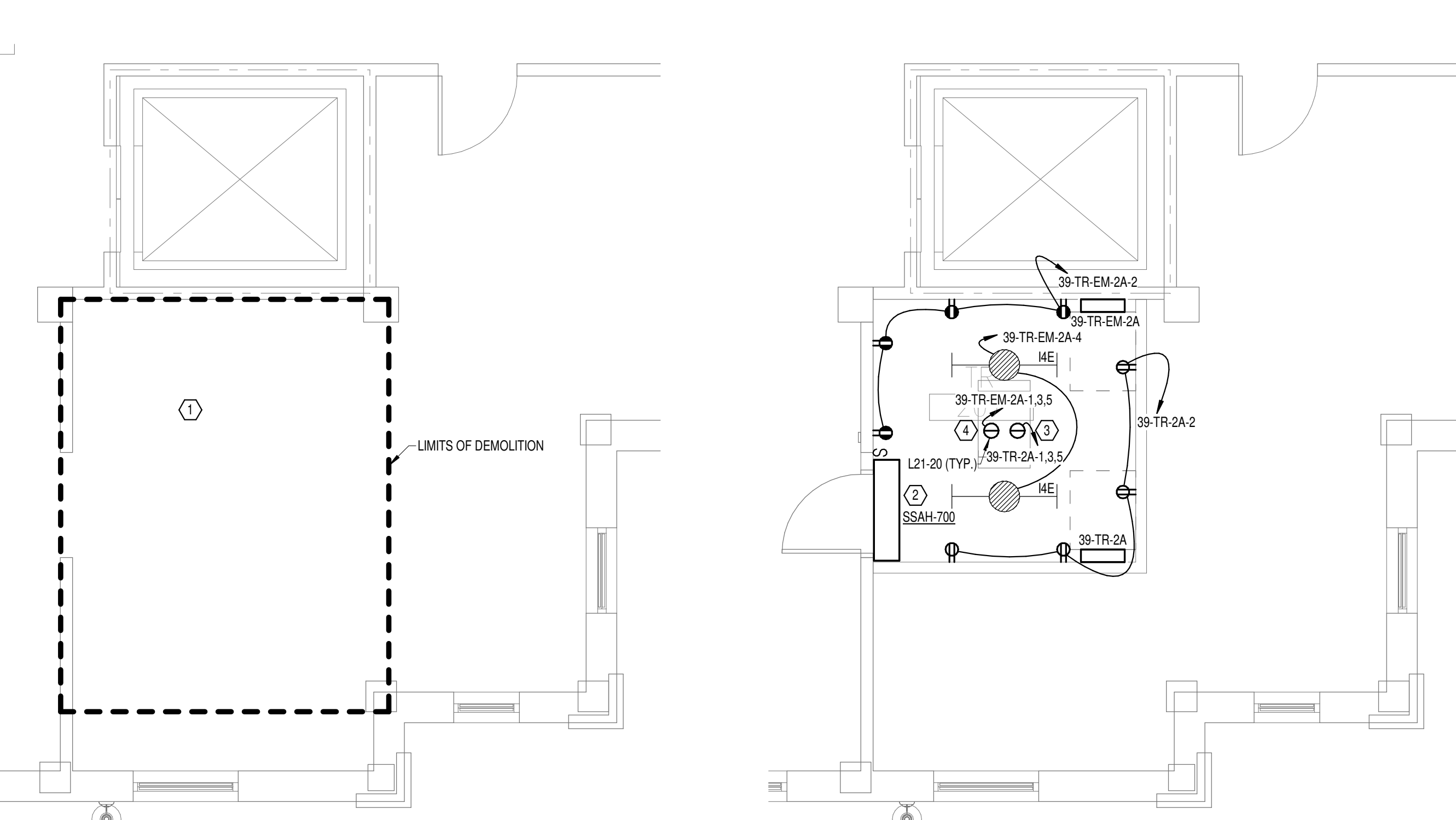
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 CHARLES G. WALL  
 ENGINEER

<b>CONSULTANT</b>  WileyWilson 127 Nationwide Drive Lynchburg, VA 24502 Phone: 434.947.1901 www.wileywilson.com		<b>ARCHITECT/ENGINEER OF RECORD</b>  Atriax, pllc 102 3rd Avenue, NE PO Box 1629, Hickory, NC 28603 Phone: 828.315.9962 Fax: 828.315.9964 NC Engineering License No.: P-0214 NC Architectural License No.: 51254		<b>Office of Construction and Facilities Management</b> U.S. Department of Veterans Affairs		Drawing Title <b>BUILDING 39 LEVEL 01 - ELECTRICAL</b> Approved:		Phase <b>100% CONSTRUCTION DOCUMENTS</b> <b>FULLY SPRINKLERED</b>		Project Title <b>EHRM INFRASTRUCTURE UPGRADES</b> Location TUSCALOOSA VAMC, TUSCALOOSA, AL. Issue Date 03/08/2024		Project Number <b>679-20-104</b> Building Number <b>39</b> Drawing Number <b>E-039.1</b>	
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**OVERALL FLOOR PLAN  
LEVEL 02 - ELECTRICAL**  
1  
1" = 20'-0"



**DEMOLITION FLOOR  
PLAN LEVEL 02 -  
ELECTRICAL**  
2  
1/4" = 1'-0"

**NEW FLOOR PLAN LEVEL  
02 - ELECTRICAL**  
3  
1/4" = 1'-0"

**GENERAL NOTES:**

- A. REFER TO TELECOM, HVAC, AND FIRE PROTECTION DRAWINGS. COORDINATE LOCATION ON NEW LIGHTING FIXTURES, NEW ELECTRICAL PANELS, AND NEW CABLE TRAY MOUNTED RECEPTACLES WITH OTHER DISCIPLINES.

**SHEET NOTES:**

- 1. REMOVE ALL EXISTING DEVICES AND WIRING BACK TO SOURCE. VISIT SITE TO DETERMINE FULL EXTENT OF DEMOLITION.
- 2. REFER TO EQUIPMENT CONNECTION SCHEDULE.
- 3. PROVIDE RECEPTACLE FOR BUS B. MOUNT RECEPTACLE TO CABLE TRAY ABOVE RACK.
- 4. PROVIDE RECEPTACLE FOR BUS A. MOUNT RECEPTACLE TO CABLE TRAY ABOVE RACK.

**PANEL: 39-TR-2A**

LOCATION: TR 207  
SUPPLY FROM: 39-FP-BNC  
BRANCH: NORMAL  
SERVICE RATED: No  
MOUNTING: SURFACE  
NEMA ENCLOSURE: NEMA 1

VOLTS: 208/120 WYE  
PHASES: 3  
WIRES: 4  
INTEGRAL SPD: Yes  
AVAILABLE SCC (KA): 10

MAINS TYPE: MCB  
MCB/MLO RATING: 100 A  
MCB OPTIONS:  
SECTIONS: 1  
PANEL POLES: 24

CKT	CIRCUIT DESCRIPTION	OPT	RATING	POLES	A	B	C	POLES/RATING	OPT	CIRCUIT DESCRIPTION	CKT	
1	REC - IT RACK TR-207		20 A	3	1667 VA	720 VA		1	20 A	REC- TR 207	2	
3	SPARE	--	20 A	1	0 VA	0 VA		1	20 A	SPARE	4	
5	SPARE	--	20 A	1	0 VA	0 VA		1	20 A	SPARE	6	
7	SPARE	--	20 A	1	0 VA	0 VA		1	20 A	SPARE	8	
9	SPARE	--	20 A	1	0 VA	0 VA		1	20 A	SPARE	10	
11	SPARE	--	20 A	1	0 VA	0 VA		1	20 A	SPARE	12	
13	SPARE	--	20 A	1	0 VA	0 VA		1	20 A	SPARE	14	
15	SPARE	--	20 A	1	0 VA	0 VA		1	20 A	SPARE	16	
17	SPARE	--	--	1	--	--		1	--	SPARE	18	
19	SPARE	--	--	1	--	--		1	--	SPARE	20	
21	SPARE	--	--	1	--	--		1	--	SPARE	22	
23	SPARE	--	--	1	--	--		1	--	SPARE	24	
<b>TOTAL LOAD:</b>					2387 VA	1667 VA	1667 VA					
<b>TOTAL AMPS:</b>					20 A	14 A	14 A					

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS
PWR-C	5000 VA	125.00%	6250 VA	CONNECTED LOAD: 5720 VA
REC	720 VA	100.00%	720 VA	CONNECTED CURRENT: 16 A
				DEMAND LOAD: 6970 VA
				DEMAND CURRENT: 19 A
				CONSIDER 125% DEMAND: 8713 A
				EQUIPMENT AMPS: 100 A
				FEEDER AVAILABLE:
				SPARE CAPACITY: 80 %
				81 A

**OPTIONS:**  
CIRCUIT BREAKER OPTIONS SUFFIX: 'S' OR 'ST' - PROVIDE SHUNT TRIP CIRCUIT BREAKER / 'G' OR 'GFCI' - PROVIDE GFCI CIRCUIT BREAKER / 'GFP' - PROVIDE GFP CIRCUIT BREAKER / 'ERMS' - ENERGY REDUCING MAINTENANCE SWITCH / 'ZSI' - ZONE SELECTIVE INTERLOCKING / 'L' - PROVIDE CIRCUIT BREAKER WITH LOCKING PROVISIONS / 'R' - PROVIDE CIRCUIT BREAKER WITH RED MARKING

**GENERAL REMARKS:**  
A. PANEL AIC (INTERRUPTING) RATING SHALL BE MINIMUM 120% OF THE AVAILABLE SCC (SHORT CIRCUIT CURRENT).  
B. BUS B PANEL.  
C. WHERE NEW PANELS ARE SHOWN AT TELECOM PLYWOOD LOCATIONS, MOUNT PANELS TO PLYWOOD.

**PANEL: 39-TR-EM-2A**

LOCATION: TR 207  
SUPPLY FROM: 39-FP-BNC  
BRANCH: EMERGENCY  
SERVICE RATED: No  
MOUNTING: SURFACE  
NEMA ENCLOSURE: NEMA 1

VOLTS: 208/120 WYE  
PHASES: 3  
WIRES: 4  
INTEGRAL SPD: Yes  
AVAILABLE SCC (KA): 10

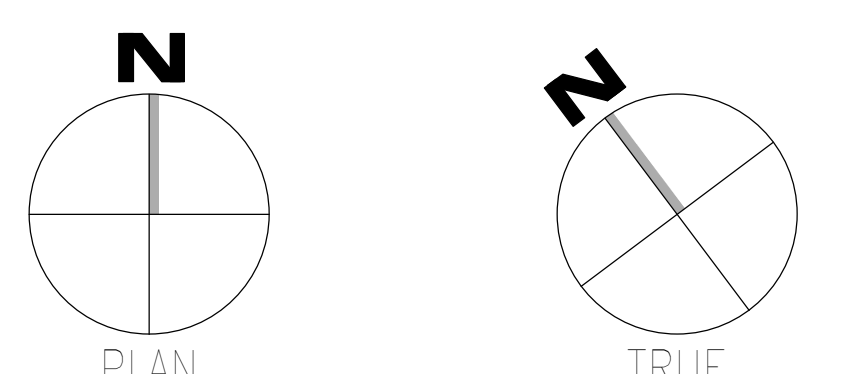
MAINS TYPE: MCB  
MCB/MLO RATING: 100 A  
MCB OPTIONS:  
SECTIONS: 1  
PANEL POLES: 24

CKT	CIRCUIT DESCRIPTION	OPT	RATING	POLES	A	B	C	POLES/RATING	OPT	CIRCUIT DESCRIPTION	CKT	
1	REC - IT RACK TR-207		20 A	3	1667 VA	720 VA		1	20 A	REC- TR 207	2	
3	SPARE	--	20 A	1	0 VA	0 VA		1	20 A	SPARE	4	
5	SPARE	--	20 A	1	0 VA	0 VA		1	20 A	SPARE	6	
7	SSCU-100/SSAH-100		25 A	2	980 VA	0 VA		1	20 A	SPARE	8	
9	SPARE	--	20 A	1	0 VA	0 VA		1	20 A	SPARE	10	
11	SPARE	--	20 A	1	0 VA	0 VA		1	20 A	SPARE	12	
13	SPARE	--	20 A	1	0 VA	0 VA		1	20 A	SPARE	14	
15	SPARE	--	20 A	1	0 VA	0 VA		1	20 A	SPARE	16	
17	SPARE	--	--	1	--	--		1	--	SPARE	18	
19	SPARE	--	--	1	--	--		1	--	SPARE	20	
21	SPARE	--	--	1	--	--		1	--	SPARE	22	
23	SPARE	--	--	1	--	--		1	--	SPARE	24	
<b>TOTAL LOAD:</b>					3367 VA	2713 VA	1667 VA					
<b>TOTAL AMPS:</b>					29 A	24 A	14 A					

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS
LTG	66 VA	125.00%	83 VA	CONNECTED LOAD: 7746 VA
PWR-C	5000 VA	125.00%	6250 VA	CONNECTED CURRENT: 22 A
REC	720 VA	100.00%	720 VA	DEMAND LOAD: 9503 VA
MEQ-C	1960 VA	125.00%	2450 VA	DEMAND CURRENT: 26 A
				CONSIDER 125% DEMAND: 11878 A
				EQUIPMENT AMPS: 100 A
				FEEDER AVAILABLE:
				SPARE CAPACITY: 73 %
				74 A

**OPTIONS:**  
CIRCUIT BREAKER OPTIONS SUFFIX: 'S' OR 'ST' - PROVIDE SHUNT TRIP CIRCUIT BREAKER / 'G' OR 'GFCI' - PROVIDE GFCI CIRCUIT BREAKER / 'GFP' - PROVIDE GFP CIRCUIT BREAKER / 'ERMS' - ENERGY REDUCING MAINTENANCE SWITCH / 'ZSI' - ZONE SELECTIVE INTERLOCKING / 'L' - PROVIDE CIRCUIT BREAKER WITH LOCKING PROVISIONS / 'R' - PROVIDE CIRCUIT BREAKER WITH RED MARKING

**GENERAL REMARKS:**  
A. PANEL AIC (INTERRUPTING) RATING SHALL BE MINIMUM 120% OF THE AVAILABLE SCC (SHORT CIRCUIT CURRENT).  
B. BUS A PANEL.  
C. WHERE NEW PANELS ARE SHOWN AT TELECOM PLYWOOD LOCATIONS, MOUNT PANELS TO PLYWOOD.



<b>CONSULTANT</b>  WileyWilson 127 Nationwide Drive Lynchburg, VA 24502 Phone: 434.947.1901 www.wileywilson.com		<b>ARCHITECT/ENGINEER OF RECORD</b>  Atriax, pllc 102 3rd Avenue, NE PO Box 1629, Hickory, NC 28603 Phone: 828.315.9962 Fax: 828.315.9964 NC Engineering License No.: P-0214 NC Architectural License No.: 51254		<b>STAMP</b> 	Office of Construction and Facilities Management U.S. Department of Veterans Affairs	Drawing Title <b>BUILDING 39 LEVEL 02 - ELECTRICAL</b> Approved:	Phase <b>100% CONSTRUCTION DOCUMENTS</b>  <b>FULLY SPRINKLERED</b>	Project Title <b>EHRM INFRASTRUCTURE UPGRADES</b> Location TUSCALOOSA VAMC, TUSCALOOSA, AL. Issue Date 03/08/2024	Project Number <b>679-20-104</b> Building Number <b>39</b> Drawing Number <b>E-039.2</b>
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EQUIPMENT CONNECTION SCHEDULE																	
MARK	DESCRIPTION	FLA	MCA	MOCP	VOLTS	PHASE	POLES	LOAD [VA]	CONTROL TYPE	DISCONNECT BY	DISCONNECT TYPE	FEEDER	PANEL	CIRCUIT NUMBER	SCCR	GEN	REMARKS
SSAH-7A	SPLIT SYSTEM CONDENSING UNIT				208	1	2		INT	-	-	(3X) (30A) 2-#10 CU, #10 CU GND - 3/4"	40-TR-EM-B	7.9		Yes	2
SSAH-115	SPLIT SYSTEM CONDENSING UNIT				208	1	2		INT	-	-	(3X) (30A) 2-#10 CU, #10 CU GND - 3/4"	40-TR-EM-1	7.9		Yes	2
SSAH-215	SPLIT SYSTEM CONDENSING UNIT				208	1	2		INT	-	-	(3X) (30A) 2-#10 CU, #10 CU GND - 3/4"	40-TR-EM-2	7.9		Yes	2
SSCU-7A	SPLIT SYSTEM CONDENSING UNIT		19	25	208	1	2		INT	ELECTRICAL	30A/2P/208V FUSED DISCONNECT SWITCH	(3X) (30A) 2-#10 CU, #10 CU GND - 3/4"	40-TR-EM-B	7.9		Yes	1
SSCU-115	SPLIT SYSTEM CONDENSING UNIT	0.6	25	30	208	1	2	3330	INT	ELECTRICAL	30A/2P/208V FUSED DISCONNECT SWITCH	(3X) (30A) 2-#10 CU, #10 CU GND - 3/4"	40-TR-EM-1	7.9		Yes	1
SSCU-215	SPLIT SYSTEM CONDENSING UNIT	0.6	25	30	208	1	2	3330	INT	ELECTRICAL	30A/2P/208V FUSED DISCONNECT SWITCH	(3X) (30A) 2-#10 CU, #10 CU GND - 3/4"	40-TR-EM-2	7.9		Yes	1

**SHEET NOTES:**

- REMOVE ALL EXISTING DEVICES AND WIRING BACK TO SOURCE. VISIT SITE TO DETERMINE FULL EXTENT OF DEMOLITION.
- REFER TO EQUIPMENT CONNECTION SCHEDULE.
- PROVIDE RECEPTACLE FOR BUS B. MOUNT RECEPTACLE TO CABLE TRAY ABOVE RACK.
- PROVIDE RECEPTACLE FOR BUS A. MOUNT RECEPTACLE TO CABLE TRAY ABOVE RACK.

**GENERAL NOTES:**

- REFER TO TELECOM, HVAC, AND FIRE PROTECTION DRAWINGS. COORDINATE LOCATION ON NEW LIGHTING FIXTURES, NEW ELECTRICAL PANELS, AND NEW CABLE TRAY MOUNTED RECEPTACLES WITH OTHER DISCIPLINES.

PANEL: 40-TR-B														
LOCATION: TR 7A				VOLTS: 208/120 WYE				MAINS TYPE: MCB						
SUPPLY FROM: 40-FP-BNA				PHASES: 3				MCB/MLO RATING: 100 A						
BRANCH: NORMAL				WIRES: 4				MCB OPTIONS:						
SERVICE RATED: No				INTEGRAL SPD: Yes				SECTIONS: 1						
MOUNTING: SURFACE				AVAILABLE SCC (KA): 10				PANEL POLES: 24						
NEMA ENCLOSURE: NEMA 1														
CKT	CIRCUIT DESCRIPTION	OPT	RATING	POLES	A	B	C	POLES	RATING	OPT	CIRCUIT DESCRIPTION	CKT		
1	REC - IT RACK TR-7A		20 A	3	1667 VA	540 VA			1	20 A	REC - TR 7A	2		
3							1667 VA	0 VA		1	20 A	SPARE	4	
5								1667 VA	0 VA		1	20 A	SPARE	6
7					3873 VA	0 VA			1	20 A	SSCU-7A/SSAH-7A	8		
9						3333 VA	0 VA		1	20 A	SPARE	10		
11							3333 VA	0 VA		1	20 A	SPARE	12	
13					0 VA	0 VA			1	20 A	SPARE	14		
15					0 VA	0 VA			1	20 A	SPARE	16		
17									1		SPARE	18		
19									1		SPARE	20		
21									1		SPARE	22		
23									1		SPARE	24		
<b>TOTAL LOAD:</b>					6080 VA	5000 VA	5000 VA							
<b>TOTAL AMPS:</b>					51 A	42 A	42 A							

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS
PWR-C	15000 VA	125.00%	18750 VA	CONNECTED LOAD: 16080 VA
REC	1080 VA	100.00%	1080 VA	CONNECTED CURRENT: 45 A
				DEMAND LOAD: 19830 VA
				DEMAND CURRENT: 55 A
				CONSIDER 125% DEMAND: 24788 A
				EQUIPMENT AMPS: 100 A
				FEEDER AVAILABLE:
				SPARE CAPACITY: 44 %
				45 A

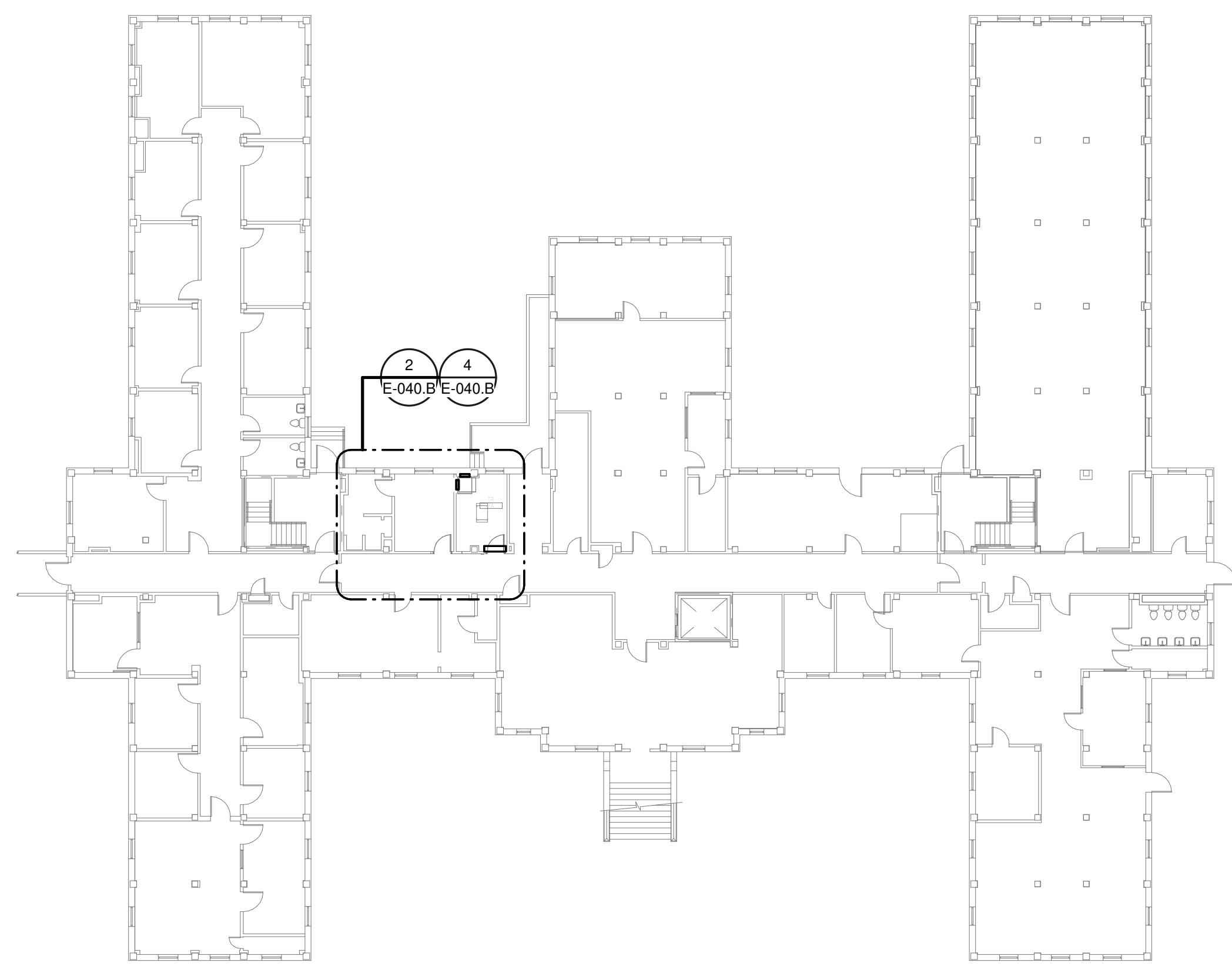
**OPTIONS:**  
CIRCUIT BREAKER OPTIONS SUFFIX: 'S' OR 'ST' - PROVIDE SHUNT TRIP CIRCUIT BREAKER / 'G' OR 'GFCI' - PROVIDE GFCI CIRCUIT BREAKER / 'GFP' - PROVIDE GFP CIRCUIT BREAKER / 'ERMS' - ENERGY REDUCING MAINTENANCE SWITCH / 'ZSI' - ZONE SELECTIVE INTERLOCKING / 'L' - PROVIDE CIRCUIT BREAKER WITH LOCKING PROVISIONS / 'R' - PROVIDE CIRCUIT BREAKER WITH RED MARKING

**GENERAL REMARKS:**  
A. PANEL AIC (INTERRUPTING) RATING SHALL BE MINIMUM 120% OF THE AVAILABLE SCC (SHORT CIRCUIT CURRENT).  
B. BUS B PANEL.  
C. WHERE NEW PANELS ARE SHOWN AT TELECOM PLYWOOD LOCATIONS, MOUNT PANELS TO PLYWOOD.

PANEL: 40-TR-EM-B													
LOCATION: TR 7A				VOLTS: 208/120 WYE				MAINS TYPE: MCB					
SUPPLY FROM: 40-FP-EM-BNB				PHASES: 3				MCB/MLO RATING: 100 A					
BRANCH: EMERGENCY				WIRES: 4				MCB OPTIONS:					
SERVICE RATED: No				INTEGRAL SPD: Yes				SECTIONS: 1					
MOUNTING: SURFACE				AVAILABLE SCC (KA): 10				PANEL POLES: 24					
NEMA ENCLOSURE: NEMA 1													
CKT	CIRCUIT DESCRIPTION	OPT	RATING	POLES	A	B	C	POLES	RATING	OPT	CIRCUIT DESCRIPTION	CKT	
1	REC - TR 7A		20 A	3	1667 VA	540 VA			1	20 A	REC - TR 7A	2	
3							1667 VA	66 VA		1	20 A	LTG - TR 7A	4
5					0 VA	0 VA			1	20 A	SPARE	6	
7					0 VA	0 VA			1	20 A	SPARE	8	
9					25 A	2			1	20 A	SSCU-7A/SSAH-7A	10	
11						0 VA	0 VA		1	20 A	SPARE	12	
13							0 VA	0 VA		1	20 A	SPARE	14
15					0 VA	0 VA			1	20 A	SPARE	16	
17									1		SPARE	18	
19									1		SPARE	20	
21									1		SPARE	22	
23									1		SPARE	24	
<b>TOTAL LOAD:</b>					2207 VA	1733 VA	1667 VA						
<b>TOTAL AMPS:</b>					18 A	15 A	14 A						

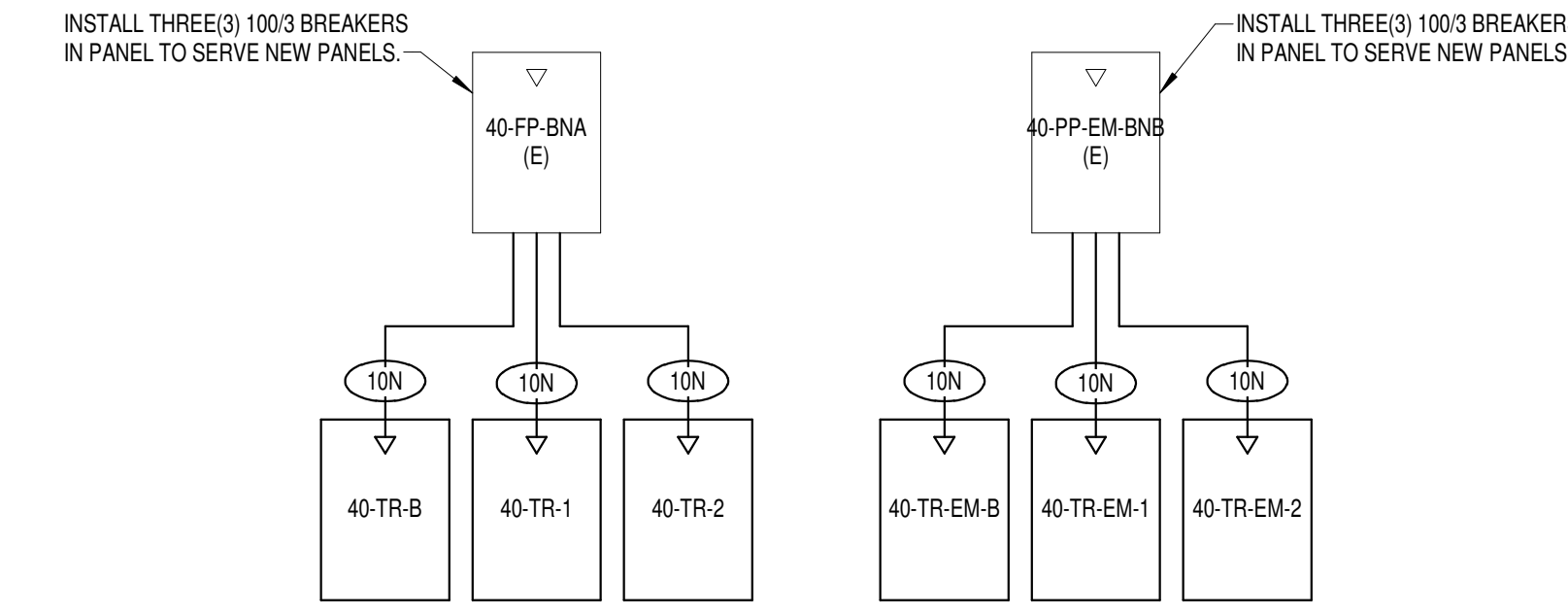
**OPTIONS:**  
CIRCUIT BREAKER OPTIONS SUFFIX: 'S' OR 'ST' - PROVIDE SHUNT TRIP CIRCUIT BREAKER / 'G' OR 'GFCI' - PROVIDE GFCI CIRCUIT BREAKER / 'GFP' - PROVIDE GFP CIRCUIT BREAKER / 'ERMS' - ENERGY REDUCING MAINTENANCE SWITCH / 'ZSI' - ZONE SELECTIVE INTERLOCKING / 'L' - PROVIDE CIRCUIT BREAKER WITH LOCKING PROVISIONS / 'R' - PROVIDE CIRCUIT BREAKER WITH RED MARKING

**GENERAL REMARKS:**  
A. PANEL AIC (INTERRUPTING) RATING SHALL BE MINIMUM 120% OF THE AVAILABLE SCC (SHORT CIRCUIT CURRENT).  
B. BUS A PANEL.  
C. WHERE NEW PANELS ARE SHOWN AT TELECOM PLYWOOD LOCATIONS, MOUNT PANELS TO PLYWOOD.

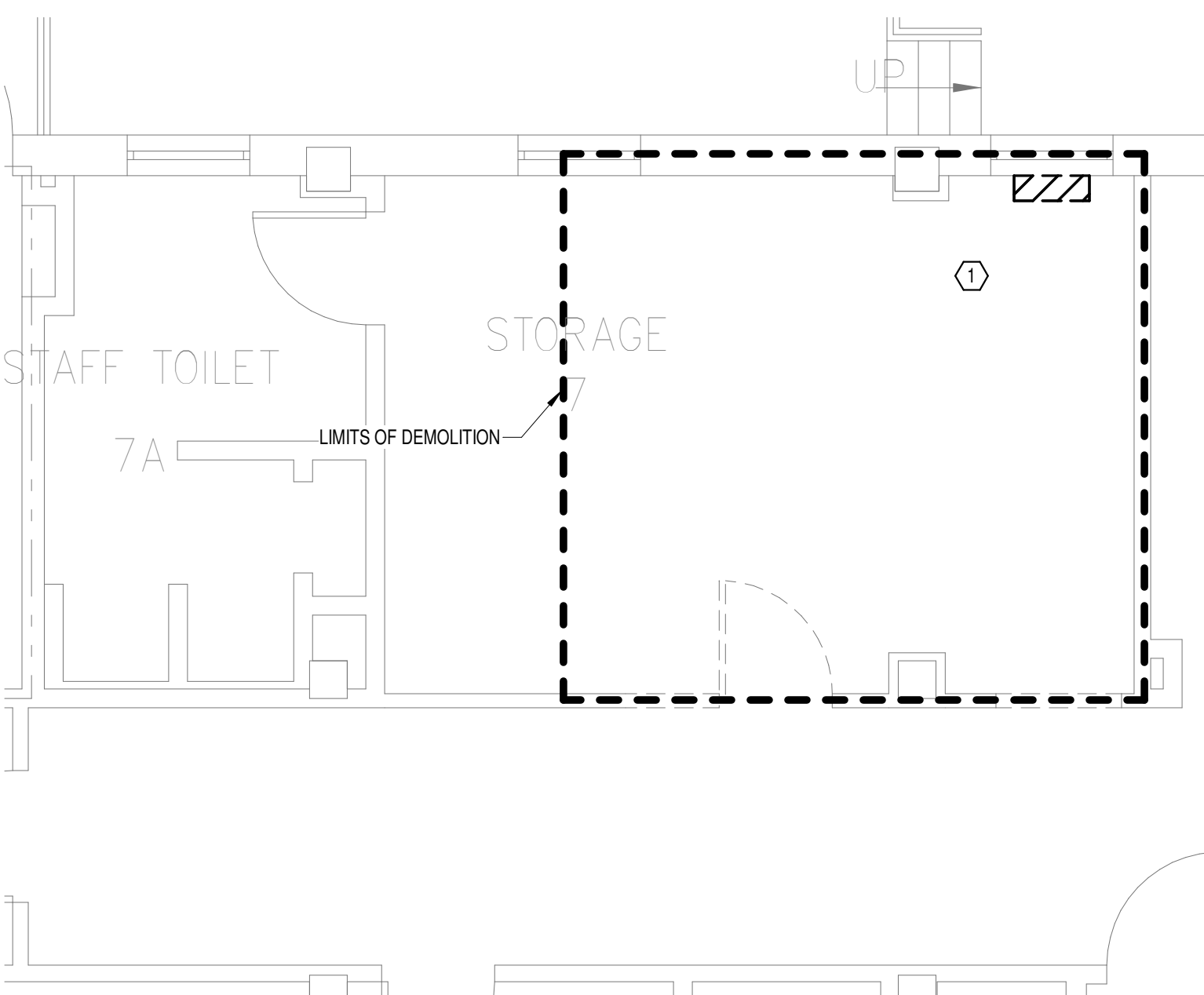


**1 OVERALL FLOOR PLAN BASEMENT LEVEL - ELECTRICAL**  
1" = 20'-0"

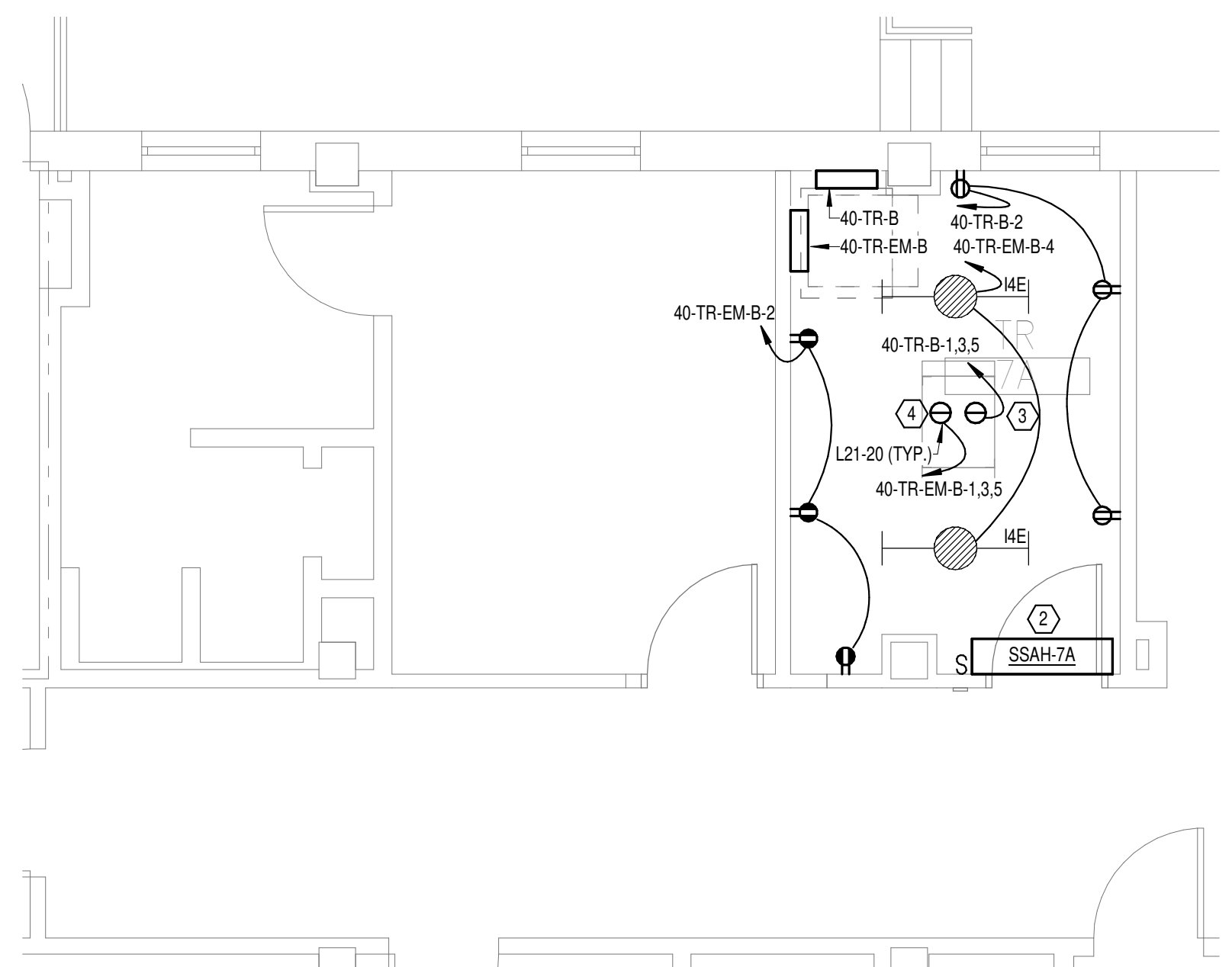
FEEDER SCHEDULE - COPPER		
FEEDER	NOMINAL SIZE	WIRE AND CONDUIT
10N	100 A	4-#1 CU, #8 CU GND - 2" C.



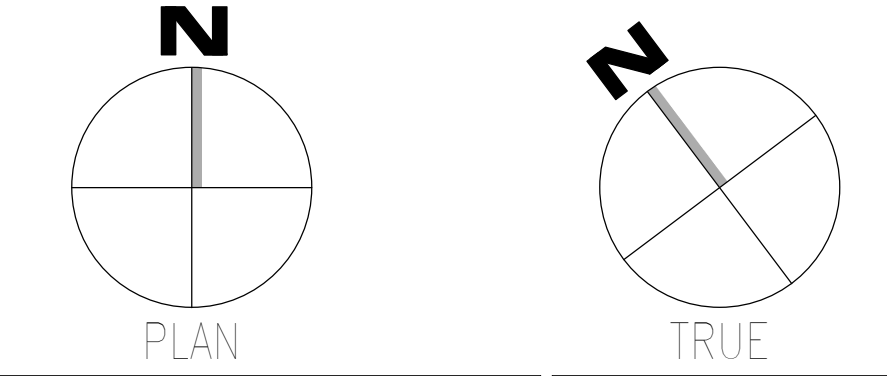
**3 BUILDING 40 - ELECTRICAL ONE-LINE**  
NO SCALE



**2 DEMOLITION FLOOR PLAN BASEMENT LEVEL - ELECTRICAL**  
1/4" = 1'-0"



**4 NEW FLOOR PLAN BASEMENT LEVEL - ELECTRICAL**  
1/4" = 1'-0"



<b>CONSULTANT</b>  WileyWilson 127 Nationwide Drive Lynchburg, VA 24502 Phone: 434.947.1901 www.wileywilson.com		<b>ARCHITECT/ENGINEER OF RECORD</b>  Atriax, p.l.l.c. 102 3rd Avenue, NE PO Box 1629, Hickory, NC 28603 Phone: 828.315.9962 Fax: 828.315.9964 NC Engineering License No.: P-0214 NC Architectural License No.: 51254		<b>Office of Construction and Facilities Management</b>  U.S. Department of Veterans Affairs		Drawing Title <b>BUILDING 40 BASEMENT LEVEL - ELECTRICAL</b> Approved:		Phase <b>100% CONSTRUCTION DOCUMENTS</b> <b>FULLY SPRINKLERED</b>		Project Title <b>EHRM INFRASTRUCTURE UPGRADES</b> Location <b>TUSCALOOSA VAMC, TUSCALOOSA, AL.</b> Issue Date <b>03/08/2024</b>		Project Number <b>679-20-104</b> Building Number <b>40</b> Drawing Number <b>E-040.B</b>	
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**SHEET NOTES:**

- REMOVE ALL EXISTING DEVICES AND WIRING BACK TO SOURCE. VISIT SITE TO DETERMINE FULL EXTENT OF DEMOLITION.
- REFER TO EQUIPMENT CONNECTION SCHEDULE.
- PROVIDE RECEPTACLE FOR BUS B. MOUNT RECEPTACLE TO CABLE TRAY ABOVE RACK.
- PROVIDE RECEPTACLE FOR BUS A. MOUNT RECEPTACLE TO CABLE TRAY ABOVE RACK.

**GENERAL NOTES:**

- REFER TO TELECOM, HVAC, AND FIRE PROTECTION DRAWINGS. COORDINATE LOCATION ON NEW LIGHTING FIXTURES, NEW ELECTRICAL PANELS, AND NEW CABLE TRAY MOUNTED RECEPTACLES WITH OTHER DISCIPLINES.

**PANEL: 40-TR-1**

LOCATION: TR 115  
 SUPPLY FROM: 40-FP-BNA  
 BRANCH: NORMAL  
 SERVICE RATED: No  
 MOUNTING: SURFACE  
 NEMA ENCLOSURE: NEMA 1

VOLTS: 208/120 WYE  
 PHASES: 3  
 WIRES: 4  
 INTEGRAL SPD: Yes  
 AVAILABLE SCC (KA): 10

MAINS TYPE: MCB  
 MCB/MLO RATING: 100 A  
 MCB OPTIONS: 1  
 SECTIONS: 1  
 PANEL POLES: 24

CKT	CIRCUIT DESCRIPTION	OPT	RATING	POLES	A	B	C	POLES	RATING	OPT	CIRCUIT DESCRIPTION	CKT	
1	REC - IT RACK TR-115		20 A	3	1667 VA	540 VA					REC - TR 115	2	
3						1667 VA	1667 VA				REC - IT RACK TR-115	4	
5							1667 VA	1667 VA				6	
7	SPARE	--	20 A	1	0 VA	1667 VA						8	
9	SPARE	--	20 A	1	0 VA	0 VA	0 VA				SPARE	10	
11	SPARE	--	20 A	1	0 VA		0 VA	0 VA			SPARE	12	
13	SPARE	--	20 A	1	0 VA	0 VA					SPARE	14	
15	SPARE	--	20 A	1		0 VA	0 VA				SPARE	16	
17	SPARE	--	--	1							SPARE	18	
19	SPARE	--	--	1							SPARE	20	
21	SPARE	--	--	1							SPARE	22	
23	SPARE	--	--	1							SPARE	24	
<b>TOTAL LOAD:</b>					3873 VA	3333 VA	3333 VA						
<b>TOTAL AMPS:</b>					32 A	28 A	28 A						

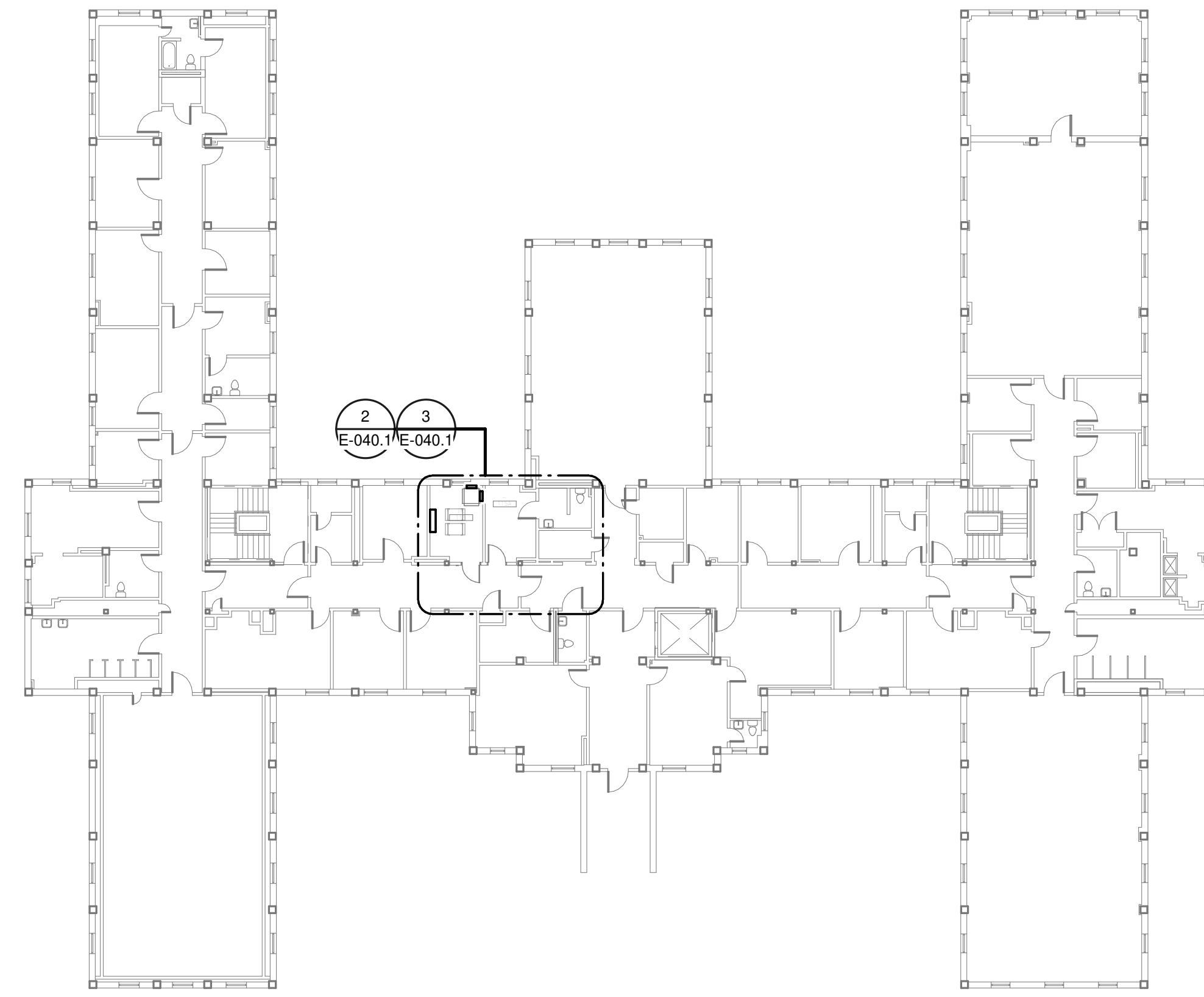
LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS
PWR-C	10000 VA	125.00%	12500 VA	CONNECTED LOAD: 10540 VA
REC	540 VA	100.00%	540 VA	CONNECTED CURRENT: 29 A
				DEMAND LOAD: 13040 VA
				DEMAND CURRENT: 58 A
				CONSIDER 125% DEMAND: 16300 A
				EQUIPMENT AMPS: 100 A
				FEEDER AVAILABLE:
				SPARE CAPACITY: 63 %
				64 A

**OPTIONS:**

CIRCUIT BREAKER OPTIONS SUFFIX: 'S' OR 'ST' - PROVIDE SHUNT TRIP CIRCUIT BREAKER / 'G' OR 'GFCI' - PROVIDE GFCI CIRCUIT BREAKER / 'GFP' - PROVIDE GFP CIRCUIT BREAKER / 'ERMS' - ENERGY REDUCING MAINTENANCE SWITCH / 'ZSI' - ZONE SELECTIVE INTERLOCKING / 'L' - PROVIDE CIRCUIT BREAKER WITH LOCKING PROVISIONS / 'R' - PROVIDE CIRCUIT BREAKER WITH RED MARKING

**GENERAL REMARKS:**

A. PANEL AIC (INTERRUPTING) RATING SHALL BE MINIMUM 120% OF THE AVAILABLE SCC (SHORT CIRCUIT CURRENT).  
 B. BUS B PANEL.  
 C. WHERE NEW PANELS ARE SHOWN AT TELECOM PLYWOOD LOCATIONS, MOUNT PANELS TO PLYWOOD.



1  
**OVERALL FLOOR PLAN  
 LEVEL 01 - ELECTRICAL**  
 1" = 20'-0"

**PANEL: 40-TR-EM-1**

LOCATION: TR 115  
 SUPPLY FROM: 40-PP-EM-BNB  
 BRANCH: EMERGENCY  
 SERVICE RATED: No  
 MOUNTING: SURFACE  
 NEMA ENCLOSURE: NEMA 1

VOLTS: 208/120 WYE  
 PHASES: 3  
 WIRES: 4  
 INTEGRAL SPD: Yes  
 AVAILABLE SCC (KA): 10

MAINS TYPE: MCB  
 MCB/MLO RATING: 100 A  
 MCB OPTIONS: 1  
 SECTIONS: 1  
 PANEL POLES: 24

CKT	CIRCUIT DESCRIPTION	OPT	RATING	POLES	A	B	C	POLES	RATING	OPT	CIRCUIT DESCRIPTION	CKT	
1	REC - IT RACK TR-115		20 A	3	1667 VA	720 VA					REC - TR 115	2	
3						1667 VA	66 VA				LTG - TR 115	4	
5							1667 VA	1667 VA				6	
7	SSCU-115/SSAH-115		30 A	2	1665 VA	1667 VA					REC - IT RACK TR-115	8	
9						1665 VA	1667 VA					10	
11	SPARE	--	20 A	1			0 VA	0 VA			SPARE	12	
13	SPARE	--	20 A	1	0 VA	0 VA					SPARE	14	
15	SPARE	--	20 A	1		0 VA	0 VA				SPARE	16	
17	SPARE	--	--	1							SPARE	18	
19	SPARE	--	--	1							SPARE	20	
21	SPARE	--	--	1							SPARE	22	
23	SPARE	--	--	1							SPARE	24	
<b>TOTAL LOAD:</b>					5718 VA	5064 VA	3333 VA						
<b>TOTAL AMPS:</b>					50 A	44 A	28 A						

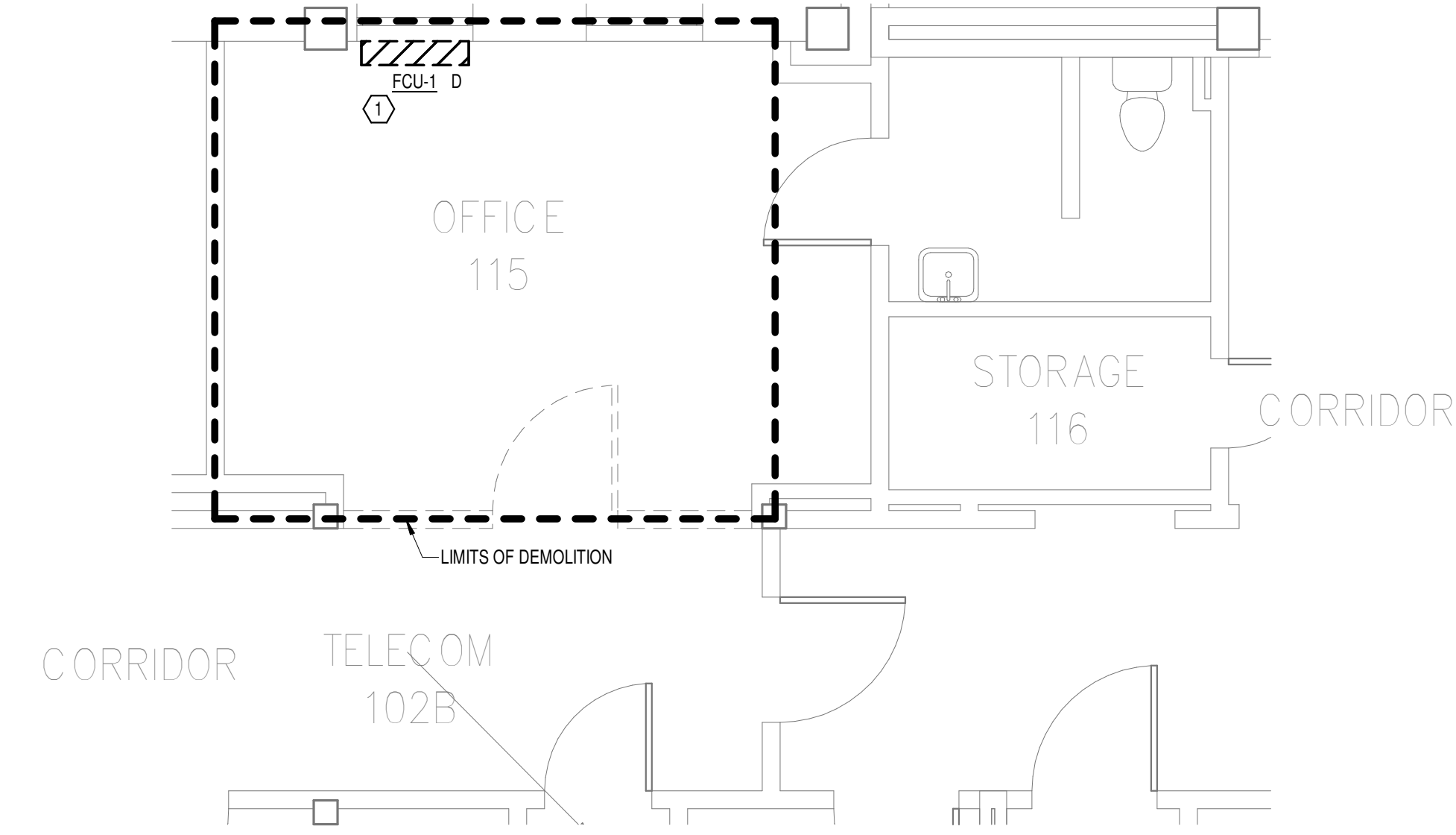
LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS
LTG	66 VA	125.00%	83 VA	CONNECTED LOAD: 14116 VA
PWR-C	10000 VA	125.00%	12500 VA	CONNECTED CURRENT: 39 A
REC	720 VA	100.00%	720 VA	DEMAND LOAD: 17465 VA
MEQ-C	3330 VA	125.00%	4163 VA	DEMAND CURRENT: 48 A
				CONSIDER 125% DEMAND: 21831 A
				EQUIPMENT AMPS: 100 A
				FEEDER AVAILABLE:
				SPARE CAPACITY: 51 %
				52 A

**OPTIONS:**

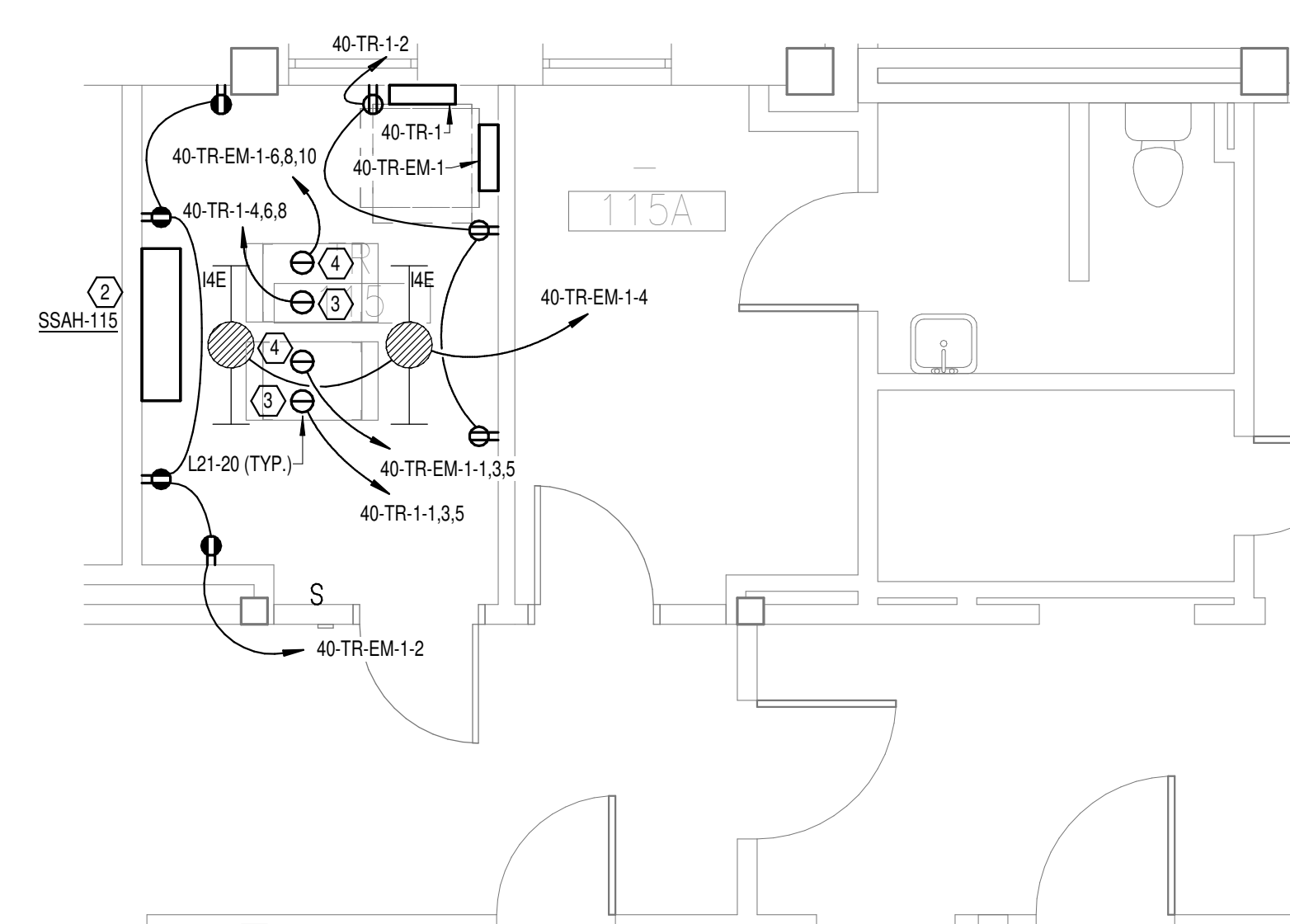
CIRCUIT BREAKER OPTIONS SUFFIX: 'S' OR 'ST' - PROVIDE SHUNT TRIP CIRCUIT BREAKER / 'G' OR 'GFCI' - PROVIDE GFCI CIRCUIT BREAKER / 'GFP' - PROVIDE GFP CIRCUIT BREAKER / 'ERMS' - ENERGY REDUCING MAINTENANCE SWITCH / 'ZSI' - ZONE SELECTIVE INTERLOCKING / 'L' - PROVIDE CIRCUIT BREAKER WITH LOCKING PROVISIONS / 'R' - PROVIDE CIRCUIT BREAKER WITH RED MARKING

**GENERAL REMARKS:**

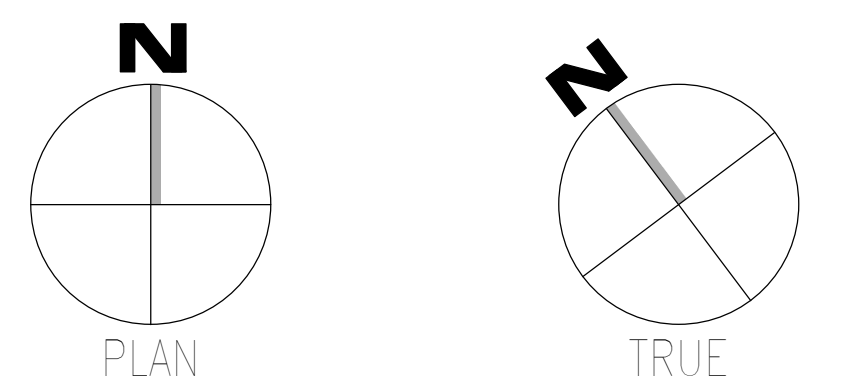
A. PANEL AIC (INTERRUPTING) RATING SHALL BE MINIMUM 120% OF THE AVAILABLE SCC (SHORT CIRCUIT CURRENT).  
 B. BUS A PANEL.  
 C. WHERE NEW PANELS ARE SHOWN AT TELECOM PLYWOOD LOCATIONS, MOUNT PANELS TO PLYWOOD.



2  
**DEMOLITION FLOOR  
 PLAN LEVEL 01 -  
 ELECTRICAL**  
 1/4" = 1'-0"



3  
**NEW FLOOR PLAN LEVEL  
 01 - ELECTRICAL**  
 1/4" = 1'-0"



AutoCAD: 08/20/2025 08:58 - VA TUSCALOOSA EHRM Infrastructure Upgrades/2025/008\_VA EHRM TUSCALOOSA PSD\_Bldg.dwt  
 08-03-2024 15:58:31  
 F

Revisions:	Date:

**CONSULTANT**

**Wiley|Wilson**  
 127 Nationwide Drive  
 Lynchburg, VA 24502  
 Phone: 434.947.1901  
 www.wileywilson.com

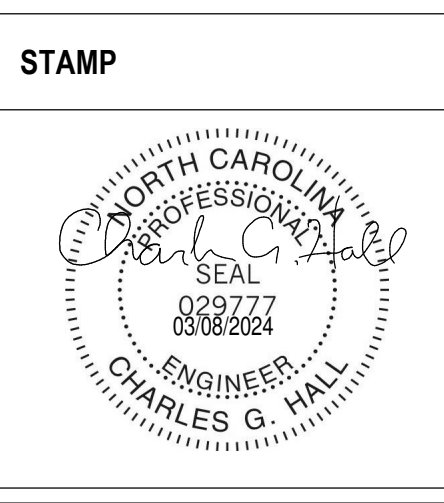
**SPECIALIZED ENGINEERING SOLUTIONS**  
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 1300 Baxter Street, Suite 355  
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**Atriax**  
 GROUP  
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 102 3rd Avenue, NE  
 PO Box 1629, Hickory, NC 28603  
 Phone: 828.315.9962  
 Fax: 828.315.9964

NC Engineering License No.: P-0214  
 NC Architectural License No.: 51254



**Office of Construction and Facilities Management**

**VA** U.S. Department of Veterans Affairs

Drawing Title  
**BUILDING 40 LEVEL 01 - ELECTRICAL**

Approved: \_\_\_\_\_

Phase  
**100% CONSTRUCTION DOCUMENTS**

**FULLY SPRINKLERED**

Project Title  
**EHRM INFRASTRUCTURE UPGRADES**

Location  
**TUSCALOOSA VAMC, TUSCALOOSA, AL.**

Issue Date  
**03/08/2024**

Checked  
**CGH**

Drawn  
**MJJ**

Project Number  
**679-20-104**

Building Number  
**40**

Drawing Number  
**E-040.1**

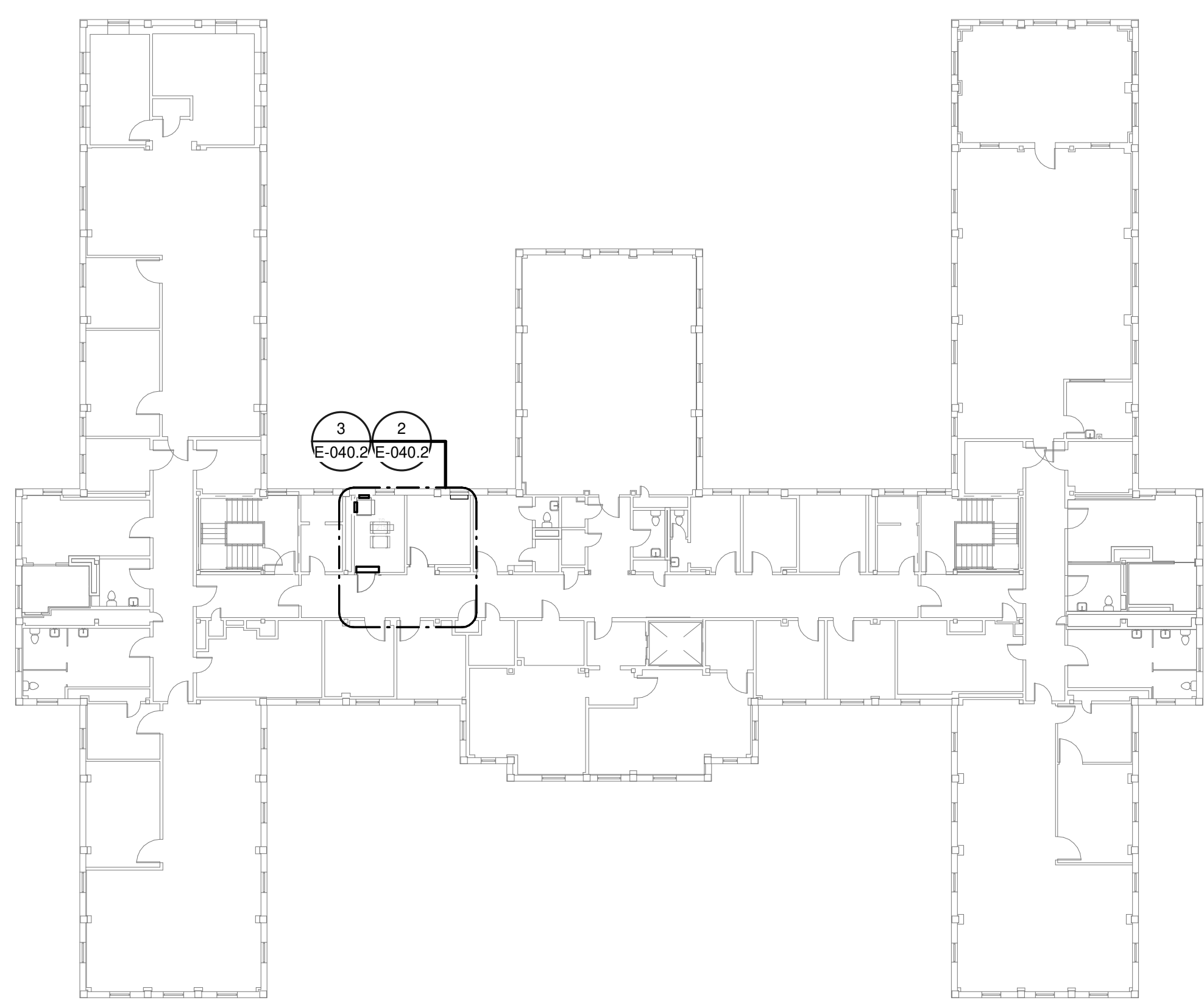
**SHEET NOTES:**

- REMOVE ALL EXISTING DEVICES AND WIRING BACK TO SOURCE. VISIT SITE TO DETERMINE FULL EXTENT OF DEMOLITION.
- REFER TO EQUIPMENT CONNECTION SCHEDULE.
- PROVIDE RECEPTACLE FOR BUS B. MOUNT RECEPTACLE TO CABLE TRAY ABOVE RACK.
- PROVIDE RECEPTACLE FOR BUS A. MOUNT RECEPTACLE TO CABLE TRAY ABOVE RACK.

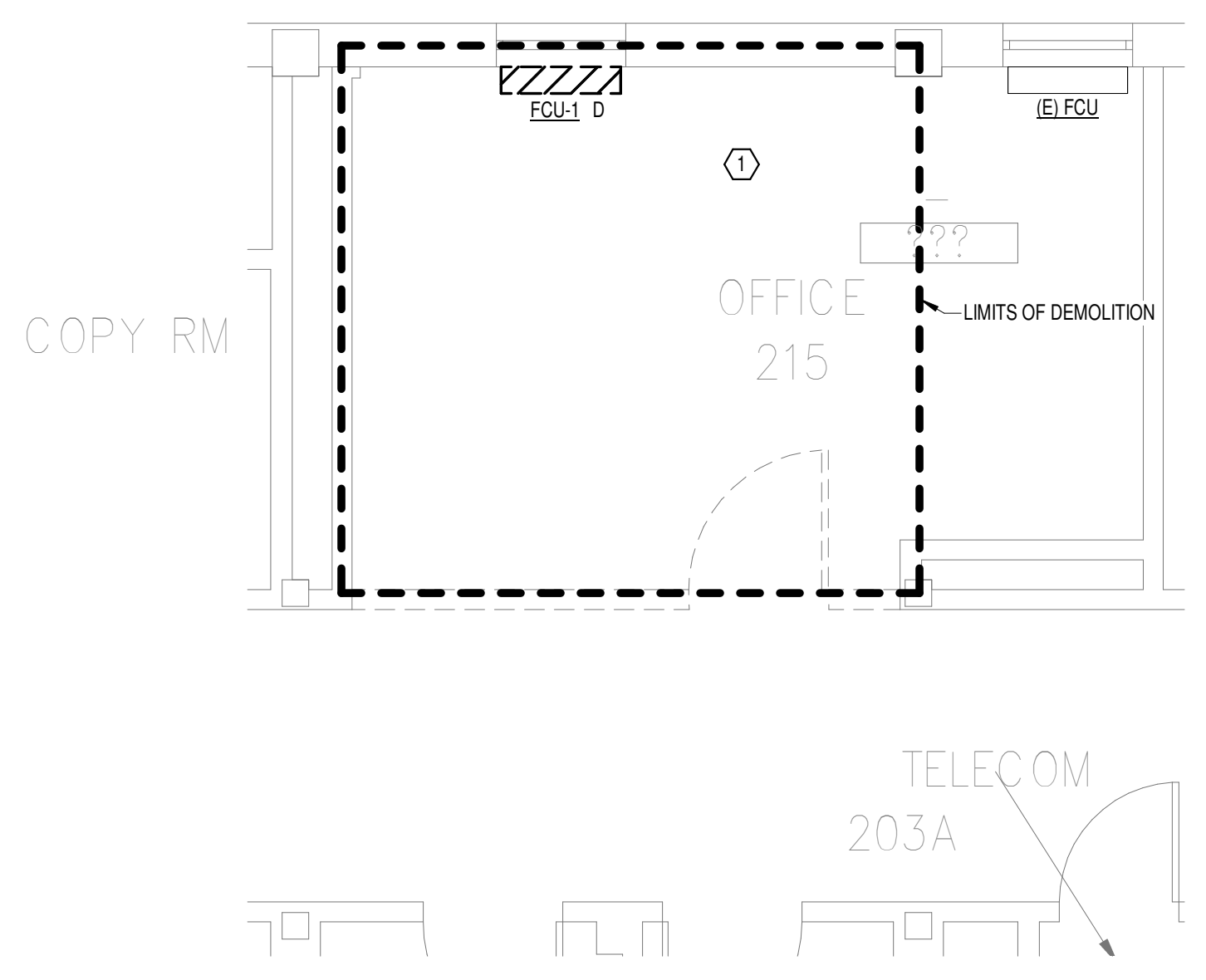
**GENERAL NOTES:**

- A. REFER TO TELECOM, HVAC, AND FIRE PROTECTION DRAWINGS. COORDINATE LOCATION ON NEW LIGHTING FIXTURES, NEW ELECTRICAL PANELS, AND NEW CABLE TRAY MOUNTED RECEPTACLES WITH OTHER DISCIPLINES.

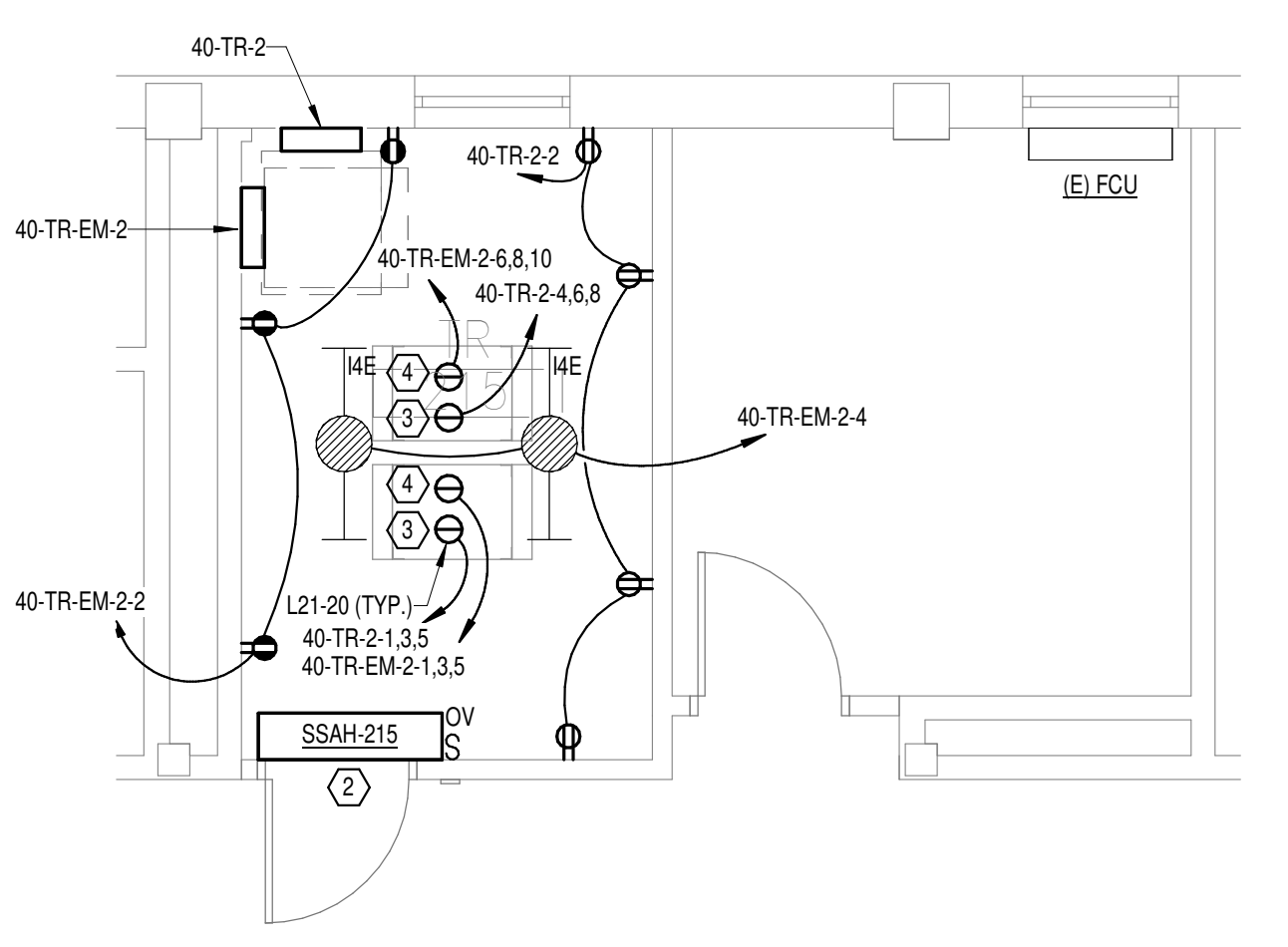
PANEL: 40-TR-2												
LOCATION: TR 215				VOLTS: 208/120 WYE				MAINS TYPE: MCB				
SUPPLY FROM: 40-PP-BNA				PHASES: 3				MCB/MLO RATING: 100 A				
BRANCH: NORMAL				WIRES: 4				MCB OPTIONS:				
SERVICE RATED: No				INTEGRAL SPD: Yes				SECTIONS: 1				
MOUNTING: SURFACE				AVAILABLE SCC (KA): 10				PANEL POLES: 24				
NEMA ENCLOSURE: NEMA 1												
CKT	CIRCUIT DESCRIPTION	OPT	RATING	POLES	A	B	C	POLES	RATING	OPT	CIRCUIT DESCRIPTION	CKT
1					1667 VA	720 VA			1	20 A	REC-TR 215	2
3	REC - IT RACK TR-215		20 A	3	1667 VA	1667 VA			1	20 A	REC-TR 215	4
5							1667 VA	1667 VA	3	20 A	REC - IT RACK TR-215	6
7	SPARE	--	20 A	1	0 VA	1667 VA			1	20 A	SPARE	8
9	SPARE	--	20 A	1	0 VA	0 VA	0 VA	0 VA	1	20 A	SPARE	10
11	SPARE	--	20 A	1	0 VA	0 VA	0 VA	0 VA	1	20 A	SPARE	12
13	SPARE	--	20 A	1	0 VA	0 VA			1	20 A	SPARE	14
15	SPARE	--	20 A	1	0 VA	0 VA			1	20 A	SPARE	16
17	SPARE	--	20 A	1					1	20 A	SPARE	18
19	SPARE	--	20 A	1					1	20 A	SPARE	20
21	SPARE	--	20 A	1					1	20 A	SPARE	22
23	SPARE	--	20 A	1					1	20 A	SPARE	24
<b>TOTAL LOAD:</b>					4053 VA	3333 VA	3333 VA					
<b>TOTAL AMPS:</b>					34 A	28 A	28 A					
LOAD CLASSIFICATION		CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS							
PWR-C		10000 VA	125.00%	12500 VA	CONNECTED LOAD: 10720 VA							
REC		720 VA	100.00%	720 VA	CONNECTED CURRENT: 30 A							
					DEMAND LOAD: 13220 VA							
					DEMAND CURRENT: 37 A							
					CONSIDER 125% DEMAND: 16525 A							
					EQUIPMENT AMPS: 100 A							
					FEEDER AVAILABLE: 63 %							
					SPARE CAPACITY: 63 A							
<b>OPTIONS:</b>												
CIRCUIT BREAKER OPTIONS SUFFIX: 'S' OR 'ST' - PROVIDE SHUNT TRIP CIRCUIT BREAKER / 'G' OR 'GFCI' - PROVIDE GFCI CIRCUIT BREAKER / 'GFP' - PROVIDE GFP CIRCUIT BREAKER / 'ERMS' - ENERGY REDUCING MAINTENANCE SWITCH / 'ZSI' - ZONE SELECTIVE INTERLOCKING / 'L' - PROVIDE CIRCUIT BREAKER WITH LOCKING PROVISIONS / 'R' - PROVIDE CIRCUIT BREAKER WITH RED MARKING												
<b>GENERAL REMARKS:</b>												
A. PANEL AIC (INTERRUPTING) RATING SHALL BE MINIMUM 120% OF THE AVAILABLE SCC (SHORT CIRCUIT CURRENT).												
B. BUS A PANEL.												
C. WHERE NEW PANELS ARE SHOWN AT TELECOM PLYWOOD LOCATIONS, MOUNT PANELS TO PLYWOOD.												



1 OVERALL FLOOR PLAN LEVEL 02 - ELECTRICAL  
1" = 20'-0"

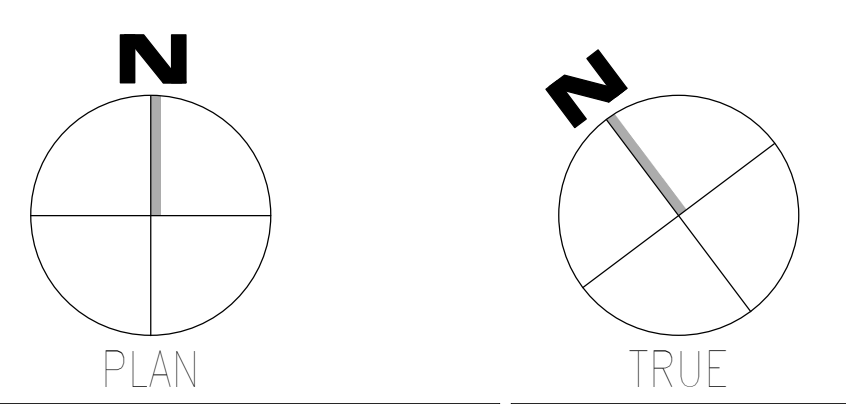


2 DEMOLITION FLOOR PLAN LEVEL 02 - ELECTRICAL  
1/4" = 1'-0"



3 NEW FLOOR PLAN LEVEL 02 - ELECTRICAL  
1/4" = 1'-0"

PANEL: 40-TR-EM-2												
LOCATION: TR 215				VOLTS: 208/120 WYE				MAINS TYPE: MCB				
SUPPLY FROM: 40-PP-EM-BNB				PHASES: 3				MCB/MLO RATING: 100 A				
BRANCH: EMERGENCY				WIRES: 4				MCB OPTIONS:				
SERVICE RATED: No				INTEGRAL SPD: Yes				SECTIONS: 1				
MOUNTING: SURFACE				AVAILABLE SCC (KA): 10				PANEL POLES: 24				
NEMA ENCLOSURE: NEMA 1												
CKT	CIRCUIT DESCRIPTION	OPT	RATING	POLES	A	B	C	POLES	RATING	OPT	CIRCUIT DESCRIPTION	CKT
1					1667 VA	540 VA			1	20 A	REC-TR 215	2
3	REC - IT RACK TR-215		20 A	3	1667 VA	66 VA			1	20 A	LTG -TR 215	4
5							1667 VA	1667 VA	3	20 A	REC - IT RACK TR-215	6
7	SSCU-215/SSAH-215		30 A	2	1665 VA	1667 VA			1	20 A	REC - IT RACK TR-215	8
9							0 VA	0 VA	1	20 A	SPARE	10
11	SPARE	--	20 A	1	0 VA	0 VA			1	20 A	SPARE	12
13	SPARE	--	20 A	1	0 VA	0 VA			1	20 A	SPARE	14
15	SPARE	--	20 A	1	0 VA	0 VA			1	20 A	SPARE	16
17	SPARE	--	20 A	1					1	20 A	SPARE	18
19	SPARE	--	20 A	1					1	20 A	SPARE	20
21	SPARE	--	20 A	1					1	20 A	SPARE	22
23	SPARE	--	20 A	1					1	20 A	SPARE	24
<b>TOTAL LOAD:</b>					5538 VA	5064 VA	3333 VA					
<b>TOTAL AMPS:</b>					48 A	44 A	28 A					
LOAD CLASSIFICATION		CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS							
LTG		66 VA	125.00%	83 VA	CONNECTED LOAD: 13926 VA							
PWR-C		10000 VA	125.00%	12500 VA	CONNECTED CURRENT: 39 A							
REC		540 VA	100.00%	540 VA	DEMAND LOAD: 17285 VA							
MEQ-C		3330 VA	125.00%	4163 VA	DEMAND CURRENT: 48 A							
					CONSIDER 125% DEMAND: 21606 A							
					EQUIPMENT AMPS: 100 A							
					FEEDER AVAILABLE: 52 %							
					SPARE CAPACITY: 52 A							
<b>OPTIONS:</b>												
CIRCUIT BREAKER OPTIONS SUFFIX: 'S' OR 'ST' - PROVIDE SHUNT TRIP CIRCUIT BREAKER / 'G' OR 'GFCI' - PROVIDE GFCI CIRCUIT BREAKER / 'GFP' - PROVIDE GFP CIRCUIT BREAKER / 'ERMS' - ENERGY REDUCING MAINTENANCE SWITCH / 'ZSI' - ZONE SELECTIVE INTERLOCKING / 'L' - PROVIDE CIRCUIT BREAKER WITH LOCKING PROVISIONS / 'R' - PROVIDE CIRCUIT BREAKER WITH RED MARKING												
<b>GENERAL REMARKS:</b>												
A. PANEL AIC (INTERRUPTING) RATING SHALL BE MINIMUM 120% OF THE AVAILABLE SCC (SHORT CIRCUIT CURRENT).												
B. BUS A PANEL.												
C. WHERE NEW PANELS ARE SHOWN AT TELECOM PLYWOOD LOCATIONS, MOUNT PANELS TO PLYWOOD.												



AutoDesk: Desc: 202075.008 - VA Tuscaloosa EHRM Infrastructure Upgrades/202075.008 - VA EHRM Tuscaloosa P50 - Bldg Int  
 08-03-2024 15:58:32  
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Revisions:	Date:

**CONSULTANT**

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NC Engineering License No.: P-0214  
 NC Architectural License No.: 51254

**STAMP**

Office of  
 Construction  
 and Facilities  
 Management

U.S. Department  
 of Veterans Affairs

Drawing Title

**BUILDING 40 LEVEL 02 - ELECTRICAL**

Approved: \_\_\_\_\_

Phase

**100% CONSTRUCTION DOCUMENTS**

**FULLY SPRINKLERED**

Project Title

**EHRM INFRASTRUCTURE UPGRADES**

Location

**TUSCALOOSA VAMC, TUSCALOOSA, AL.**

Issue Date

**03/08/2024**

Checked

**CGH**

Drawn

**MJJ**

Project Number

**679-20-104**

Building Number

**40**

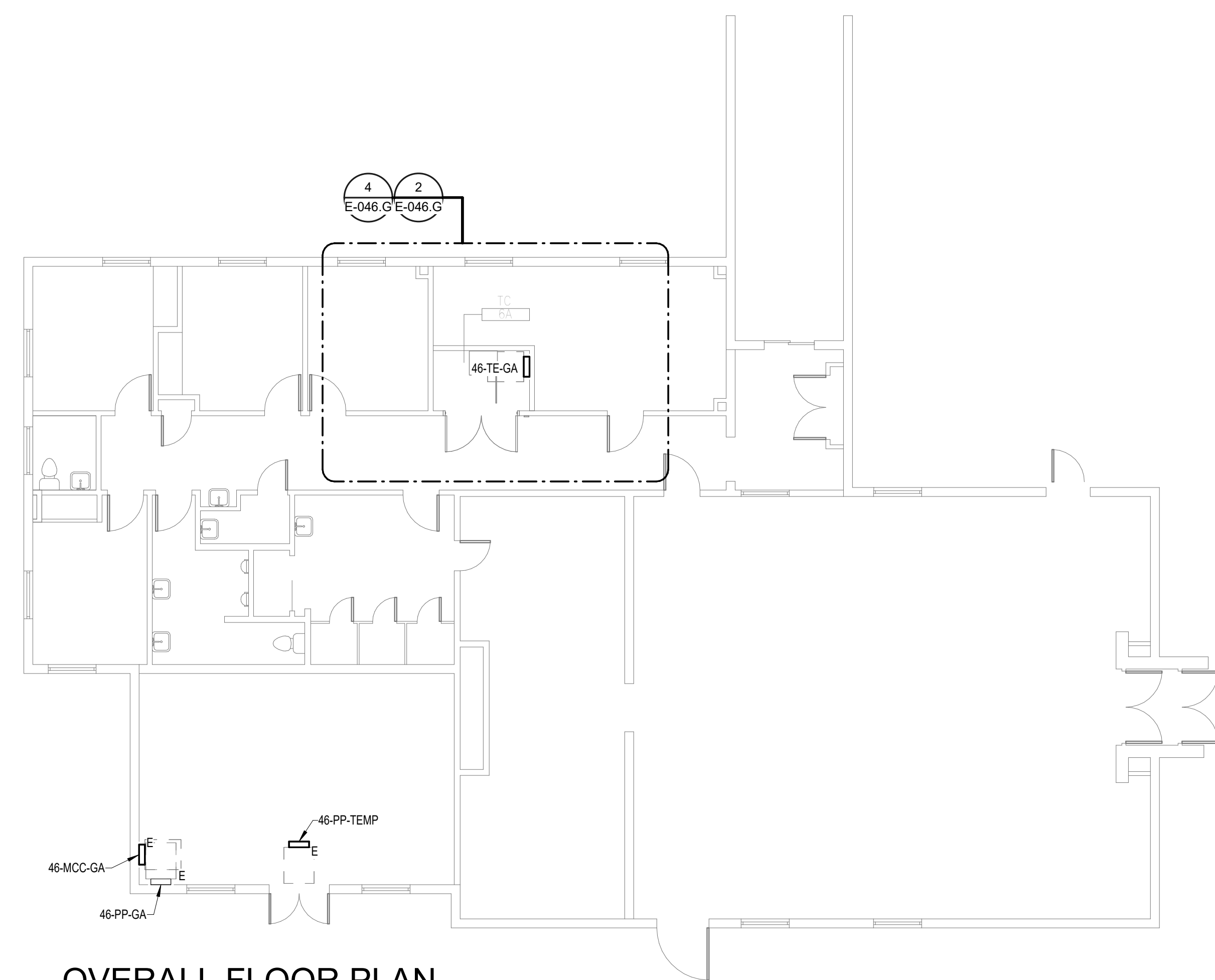
Drawing Number

**E-040.2**





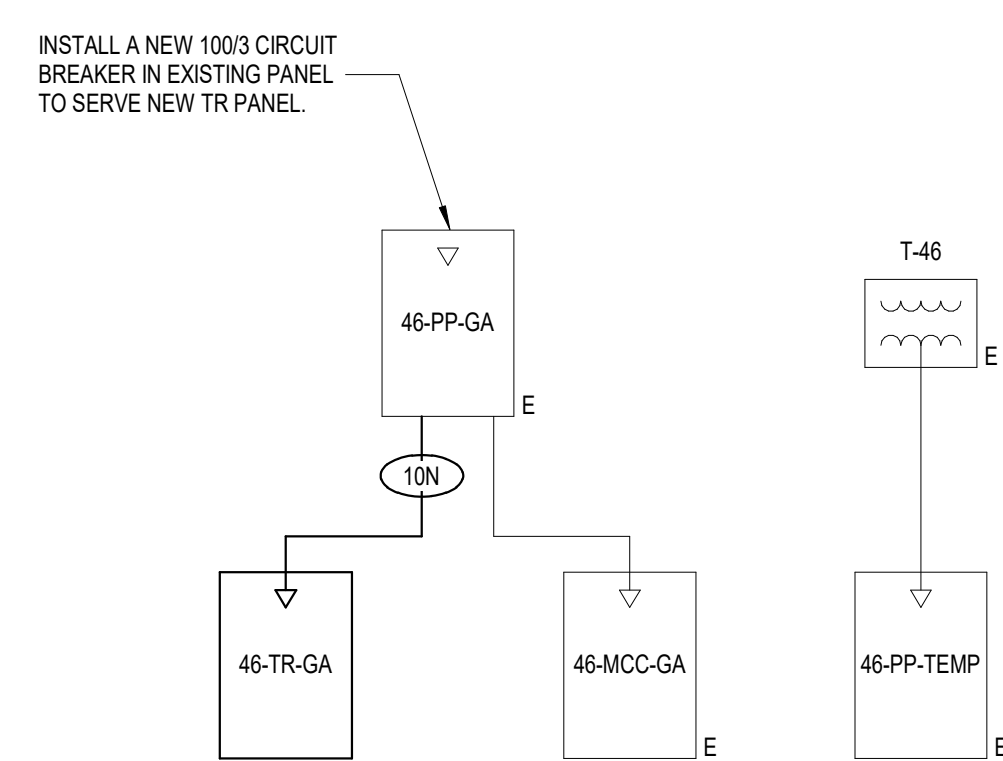
**GENERAL NOTES:**  
 A. REFER TO TELECOM, HVAC, AND FIRE PROTECTION DRAWINGS. COORDINATE LOCATION ON NEW LIGHTING FIXTURES, NEW ELECTRICAL PANELS, AND NEW CABLE TRAY MOUNTED RECEPTACLES WITH OTHER DISCIPLINES.  
**SHEET NOTES:**  
 1. REMOVE ALL EXISTING DEVICES AND WIRING BACK TO SOURCE. VISIT SITE TO DETERMINE FULL EXTENT OF DEMOLITION.



**OVERALL FLOOR PLAN  
 GROUND LEVEL -  
 ELECTRICAL**  
 1/8" = 1'-0"

**FEEDER SCHEDULE - COPPER**

FEEDER	NOMINAL SIZE	WIRE AND CONDUIT
10N	100 A	4#1 CU, #6 CU GND - 2" C



**BUILDING 46 -  
 ELECTRICAL ONE-LINE**  
 NO SCALE

**EXISTING PANEL: 46-PP-GA**

LOCATION: TC 6A  
 SUPPLY FROM: 46-PP-GA  
 BRANCH: NORMAL  
 SERVICE RATED: No  
 MOUNTING: SURFACE  
 NEMA ENCLOSURE: NEMA

VOLTS: 208/120 WYE  
 PHASES: 3  
 WIRES: 4  
 INTEGRAL SPD: No  
 AVAILABLE SCC (KA): 10

MAINS TYPE: MCB  
 MCB/MLO RATING: 350 A  
 MCB OPTIONS: 1  
 SECTIONS: 1  
 PANEL POLES: 42

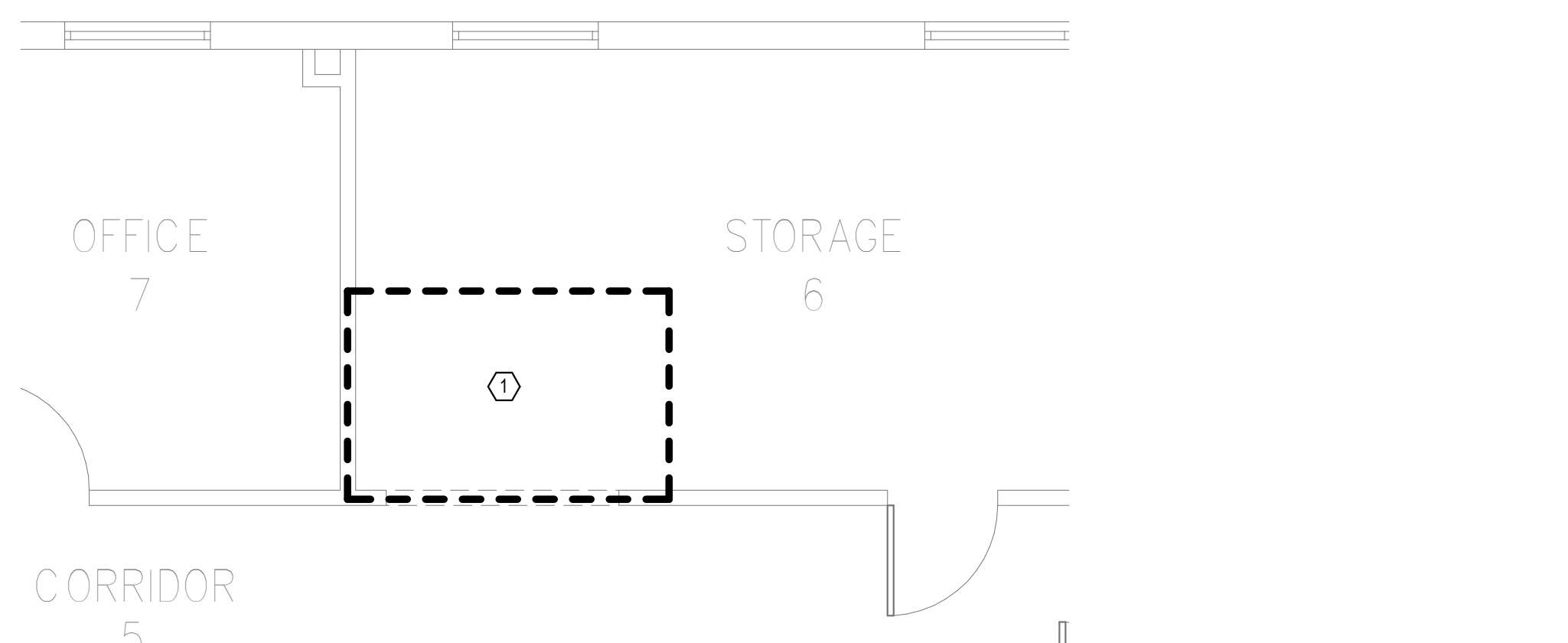
CKT	CIRCUIT DESCRIPTION	OPT	RATING	POLES	A	B	C	POLES	RATING	OPT	CIRCUIT DESCRIPTION	CKT
1	SPACE	--	--	1	--	1220 VA						2
3	SPACE	--	--	1	--	0 VA	0 VA					4
5	SPACE	--	--	1	--	0 VA	0 VA					6
7	EXISTING 104-RP-GC	--	100 A	3	0 VA	--	0 VA	0 VA	0 VA	1	--	8
9	SPACE	--	--	1	--	0 VA	0 VA					10
11	EXISTING HEAT TRACE ROOF	--	30 A	3	0 VA	0 VA	0 VA	0 VA	0 VA	2	30 A	12
13	EXISTING HEAT TRACE ROOF (208)	--	30 A	3	0 VA	0 VA	0 VA	0 VA	0 VA	3	175 A	14
15	SPACE	--	--	1	--	0 VA	0 VA					16
17	SPACE	--	--	1	--	0 VA	0 VA					18
19	EXISTING 46-RP-GA	--	125 A	3	0 VA	0 VA	0 VA	0 VA	0 VA	3	125 A	20
21	SPACE	--	--	1	--	0 VA	0 VA					22
23	SPACE	--	--	1	--	0 VA	0 VA					24
25	SPACE	--	--	1	--	0 VA	0 VA					26
27	SPACE	--	--	1	--	0 VA	0 VA					28
29	SPACE	--	--	1	--	0 VA	0 VA					30
31	EXISTING CHILLER	--	250 A	3	0 VA	0 VA	0 VA	0 VA	0 VA	3	150 A	32
33	SPACE	--	--	1	--	0 VA	0 VA					34
35	SPACE	--	--	1	--	0 VA	0 VA					36
37	SPACE	--	--	1	--	0 VA	0 VA					38
39	SPACE	--	--	1	--	0 VA	0 VA					40
41	SPACE	--	--	1	--	0 VA	0 VA					42
<b>TOTAL LOAD:</b>					1220 VA	0 VA	0 VA	0 VA				
<b>TOTAL AMPS:</b>					10 A	0 A	0 A					

**LOAD CLASSIFICATION**

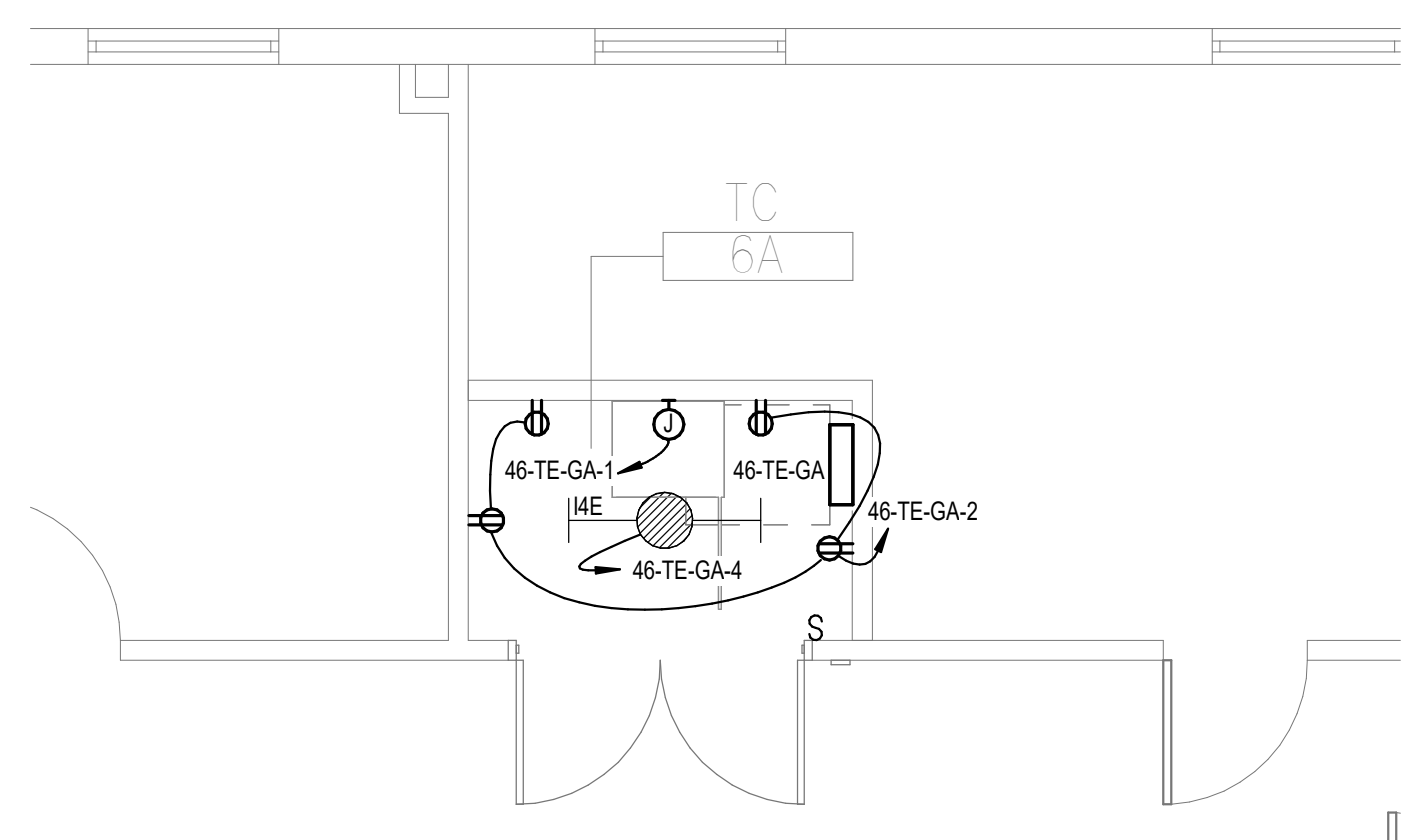
	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS
LTG	0 VA	0.00%	0 VA	CONNECTED LOAD: 1220 VA
PWR-C	500 VA	125.00%	625 VA	CONNECTED CURRENT: 3 A
REC	720 VA	100.00%	720 VA	DEMAND LOAD: 1345 VA
				DEMAND CURRENT: 4 A
				CONSIDER 125% DEMAND: 1681 A
				EQUIPMENT AMPS: 350 A
				FEEDER AVAILABLE:
				SPARE CAPACITY: 98 %
				346 A

**OPTIONS:**  
 CIRCUIT BREAKER OPTIONS SUFFIX: 'S' OR 'ST' - PROVIDE SHUNT TRIP CIRCUIT BREAKER / 'G' OR 'GFCI' - PROVIDE GFCI CIRCUIT BREAKER / 'GFP' - PROVIDE GFP CIRCUIT BREAKER / 'ERMS' - ENERGY REDUCING MAINTENANCE SWITCH / 'ZSI' - ZONE SELECTIVE INTERLOCKING / 'L' - PROVIDE CIRCUIT BREAKER WITH LOCKING PROVISIONS / 'TR' - PROVIDE CIRCUIT BREAKER WITH RED MARKING

**GENERAL REMARKS:**  
 A. PANEL AIC (INTERRUPTING) RATING SHALL BE MINIMUM 120% OF THE AVAILABLE SCC (SHORT CIRCUIT CURRENT).



**DEMOLITION FLOOR PLAN  
 GROUND LEVEL -  
 ELECTRICAL**  
 1/4" = 1'-0"



**NEW FLOOR PLAN  
 GROUND LEVEL -  
 ELECTRICAL**  
 1/4" = 1'-0"

**PANEL: 46-TE-GA**

LOCATION: TC 6A  
 SUPPLY FROM: 46-PP-GA  
 BRANCH: NORMAL  
 SERVICE RATED: No  
 MOUNTING: SURFACE  
 NEMA ENCLOSURE: NEMA 1

VOLTS: 208/120 WYE  
 PHASES: 3  
 WIRES: 4  
 INTEGRAL SPD: Yes  
 AVAILABLE SCC (KA): 10

MAINS TYPE: MCB  
 MCB/MLO RATING: 100 A  
 MCB OPTIONS: 1  
 SECTIONS: 1  
 PANEL POLES: 24

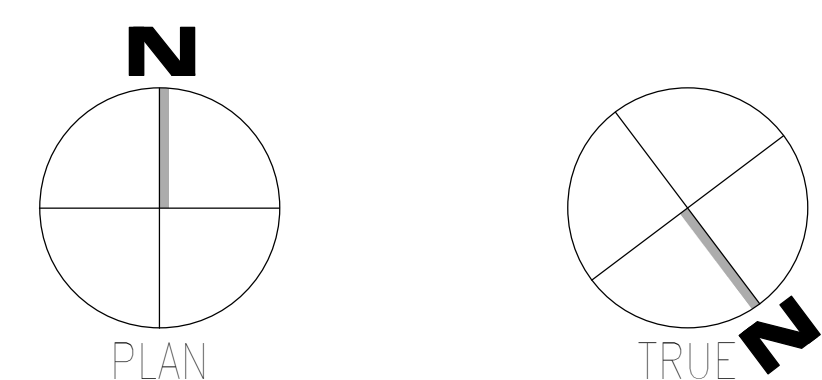
CKT	CIRCUIT DESCRIPTION	OPT	RATING	POLES	A	B	C	POLES	RATING	OPT	CIRCUIT DESCRIPTION	CKT	
1	TE CABINET	--	20 A	1	500 VA	720 VA				1	20 A	REC - TC 6A	2
3	SPACE	--	20 A	1		0 VA	0 VA			1	20 A	LTG - TC 6A	4
5	SPACE	--	20 A	1		0 VA	0 VA	0 VA	0 VA	1	20 A	--	6
7	SPACE	--	20 A	1	0 VA	0 VA				1	20 A	--	8
9	SPACE	--	20 A	1		0 VA	0 VA	0 VA	0 VA	1	20 A	--	10
11	SPACE	--	20 A	1		0 VA	0 VA	0 VA	0 VA	1	20 A	--	12
13	SPACE	--	20 A	1	0 VA	0 VA				1	20 A	--	14
15	SPACE	--	20 A	1		0 VA	0 VA	0 VA	0 VA	1	20 A	--	16
17	SPACE	--	--	1						1	--	--	18
19	SPACE	--	--	1						1	--	--	20
21	SPACE	--	--	1						1	--	--	22
23	SPACE	--	--	1						1	--	--	24
<b>TOTAL LOAD:</b>					1220 VA	0 VA	0 VA	0 VA					
<b>TOTAL AMPS:</b>					10 A	0 A	0 A						

**LOAD CLASSIFICATION**

	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS
LTG	0 VA	0.00%	0 VA	CONNECTED LOAD: 1220 VA
PWR-C	500 VA	125.00%	625 VA	CONNECTED CURRENT: 3 A
REC	720 VA	100.00%	720 VA	DEMAND LOAD: 1345 VA
				DEMAND CURRENT: 4 A
				CONSIDER 125% DEMAND: 1681 A
				EQUIPMENT AMPS: 100 A
				FEEDER AVAILABLE:
				SPARE CAPACITY: 96 %
				96 A

**OPTIONS:**  
 CIRCUIT BREAKER OPTIONS SUFFIX: 'S' OR 'ST' - PROVIDE SHUNT TRIP CIRCUIT BREAKER / 'G' OR 'GFCI' - PROVIDE GFCI CIRCUIT BREAKER / 'GFP' - PROVIDE GFP CIRCUIT BREAKER / 'ERMS' - ENERGY REDUCING MAINTENANCE SWITCH / 'ZSI' - ZONE SELECTIVE INTERLOCKING / 'L' - PROVIDE CIRCUIT BREAKER WITH LOCKING PROVISIONS / 'TR' - PROVIDE CIRCUIT BREAKER WITH RED MARKING

**GENERAL REMARKS:**  
 A. PANEL AIC (INTERRUPTING) RATING SHALL BE MINIMUM 120% OF THE AVAILABLE SCC (SHORT CIRCUIT CURRENT).  
 B. BUS A AND B PANEL.  
 C. WHERE NEW PANELS ARE SHOWN AT TELECOM PLYWOOD LOCATIONS, MOUNT PANELS TO PLYWOOD.



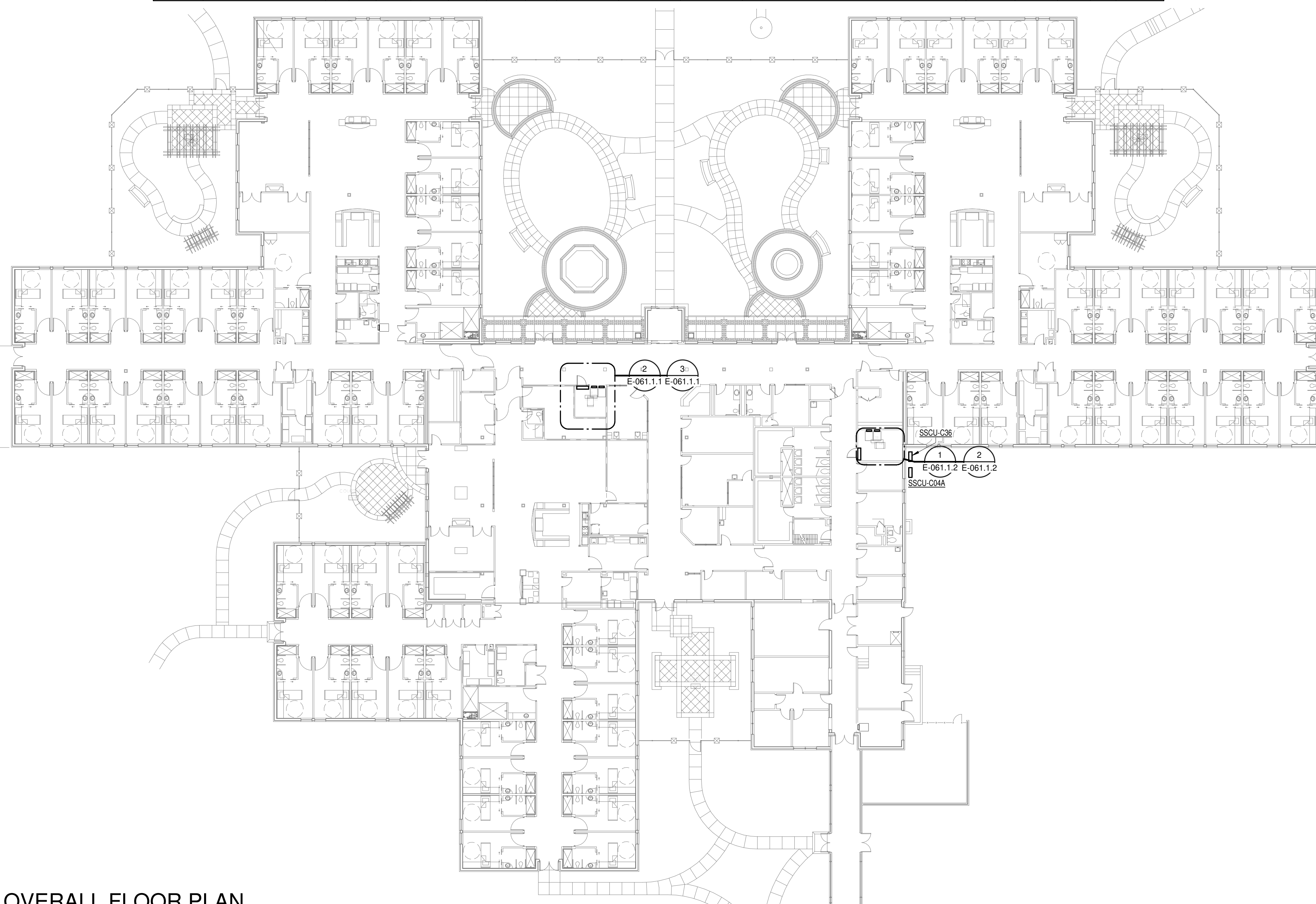
<b>CONSULTANT</b> <p>WileyWilson          127 Nationwide Drive          Lynchburg, VA 24502          Phone: 434.947.1901          www.wileywilson.com</p>		<b>ARCHITECT/ENGINEER OF RECORD</b> <p>Atriax, pllc          102 3rd Avenue, NE          PO Box 1629, Hickory, NC 28603          Phone: 828.315.9962          Fax: 828.315.9964          www.atriaxgroup.com</p>		<b>Office of Construction and Facilities Management</b> <p>U.S. Department of Veterans Affairs</p>		Drawing Title <b>BUILDING 46 GROUND LEVEL - ELECTRICAL</b> Approved:		Phase <b>100% CONSTRUCTION DOCUMENTS</b> <b>FULLY SPRINKLERED</b>		Project Title <b>EHRM INFRASTRUCTURE UPGRADES</b>		Project Number <b>679-20-104</b>	
Revisions:		Date:		Location <b>TUSCALOOSA VAMC, TUSCALOOSA, AL.</b>		Issue Date <b>03/08/2024</b>		Checked <b>CGH</b>		Drawn <b>MJJ</b>		Drawing Number <b>E-046.G</b>	



EQUIPMENT CONNECTION SCHEDULE																	
MARK	DESCRIPTION	FLA	MCA	MOCP	VOLTS	PHASE	POLES	LOAD [VA]	CONTROL TYPE	DISCONNECT BY	DISCONNECT TYPE	FEEDER	PANEL	CIRCUIT NUMBER	SCCR	GEN	REMARKS
SSAH-C04A	SPLIT SYSTEM CONDENSING UNIT				208		2		INT			(3X) (80A) 2#10 CU #10 CU GND - 3/4"	61-TR-EM-1A	7.9	5	Yes	2
SSAH-C36	SPLIT SYSTEM CONDENSING UNIT				208		2		INT			(3X) (80A) 2#10 CU #10 CU GND - 3/4"	61-TR-EM-1B	7.9	5	Yes	2
SSCU-C04A	SPLIT SYSTEM CONDENSING UNIT	0.4	19	25	208	1	2	1900	INT	ELECTRICAL	30A/2P/208V FUSED DISCONNECT SWITCH	(3X) (80A) 2#10 CU #10 CU GND - 3/4"	61-TR-EM-1A	7.9	5	Yes	1
SSCU-C36	SPLIT SYSTEM CONDENSING UNIT	0.4	19	25	208	1	2	1900	INT	ELECTRICAL	30A/2P/208V FUSED DISCONNECT SWITCH	(3X) (80A) 2#10 CU #10 CU GND - 3/4"	61-TR-EM-1B	7.9	5	Yes	1

REMARKS: (EQUIPMENT CONNECTION SCHEDULE)  
 1. CONTROLS BETWEEN INDOOR AND OUTDOOR UNITS - INCLUDE CONTROL WIRING IN CONDUIT BETWEEN INDOOR AND OUTDOOR UNIT PER MANUFACTURERS REQUIREMENTS.  
 2. \*CONTROL TYPE - PROVIDE CONTROL AND CONNECTIONS "INT" - CONTROLS ARE MANUFACTURED INTEGRAL TO THE EQUIPMENT (SELF-CONTAINED).

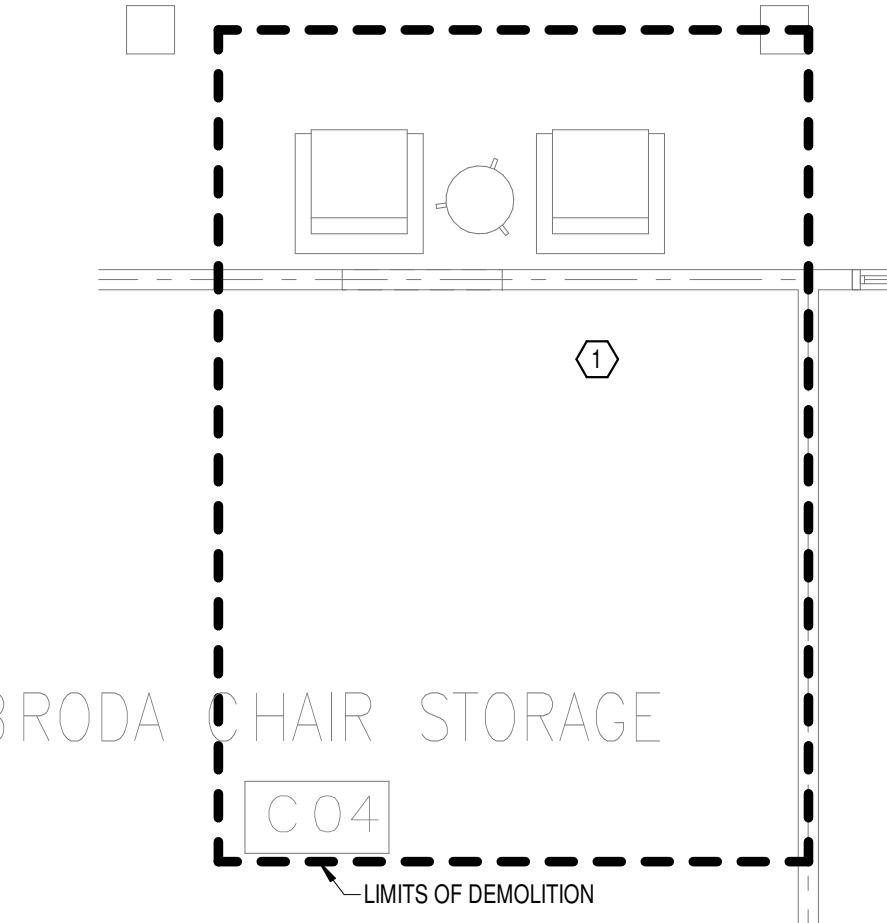
**GENERAL NOTES:**  
 A. REFER TO TELECOM, HVAC, AND FIRE PROTECTION DRAWINGS. COORDINATE LOCATION ON NEW LIGHTING FIXTURES, NEW ELECTRICAL PANELS, AND NEW CABLE TRAY MOUNTED RECEPTACLES WITH OTHER DISCIPLINES.  
**SHEET NOTES:**  
 1. REMOVE ALL EXISTING DEVICES AND WIRING BACK TO SOURCE. VISIT SITE TO DETERMINE FULL EXTENT OF DEMOLITION.  
 2. REFER TO EQUIPMENT CONNECTION SCHEDULE.  
 3. PROVIDE RECEPTACLE FOR BUS B. MOUNT RECEPTACLE TO CABLE TRAY ABOVE RACK.  
 4. PROVIDE RECEPTACLE FOR BUS A. MOUNT RECEPTACLE TO CABLE TRAY ABOVE RACK.



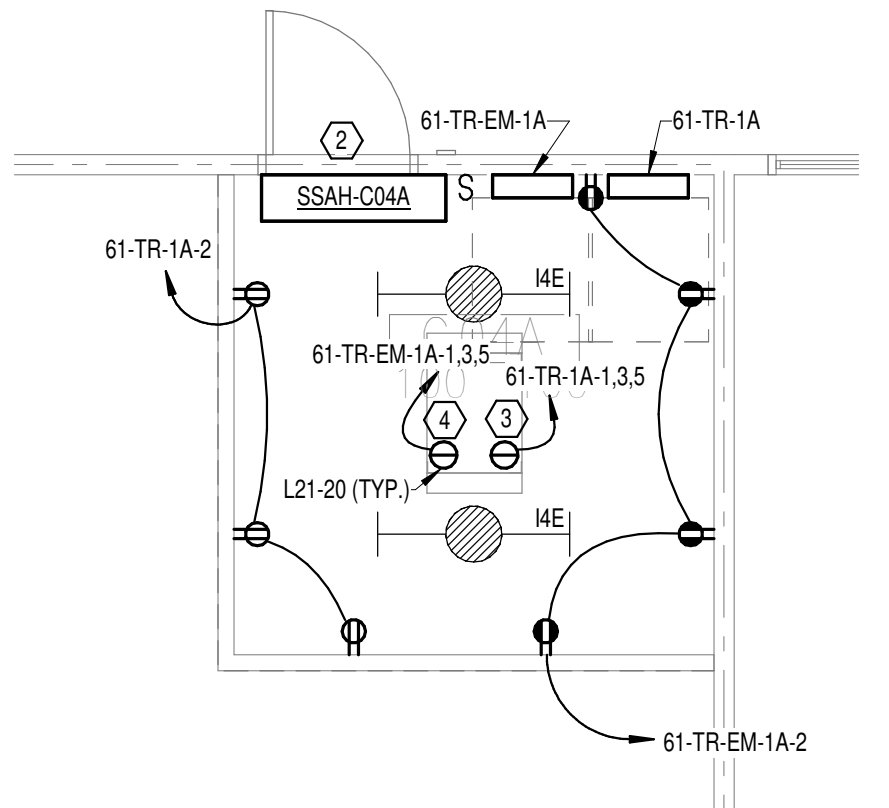
PANEL: 61-TR-1A															
LOCATION: TR C04A		VOLTS: 208/120 WYE		MAINS TYPE: MCB		PHASES: 3		MCB/MLO RATING: 100 A		BRANCH: NORMAL		WIRES: 4		MCB OPTIONS: 1	
SUPPLY FROM: 61-RP-1NA		INTEGRAL SPD: Yes		SECTIONS: 1		SERVICE RATED: No		AVAILABLE SCC (KA): 10		PANEL POLES: 24		MOUNTING: SURFACE		NEMA ENCLOSURE: NEMA 1	
CKT	CIRCUIT DESCRIPTION	OPT	RATING	POLES	A	B	C	POLES/RATING	OPT	CIRCUIT DESCRIPTION	CKT				
1	REC - IT RACK TR-C04A 100		20 A	3	1667 VA	540 VA		1	20 A	REC - TR C04A 100	2				
3	SPARE	--	20 A	1	0 VA	0 VA		1	20 A	SPARE	4				
5	SPARE	--	20 A	1	0 VA	0 VA		1	20 A	SPARE	6				
7	SPARE	--	20 A	1	0 VA	0 VA		1	20 A	SPARE	8				
9	SPARE	--	20 A	1	0 VA	0 VA		1	20 A	SPARE	10				
11	SPARE	--	20 A	1	0 VA	0 VA	0 VA	0 VA	1	20 A	12				
13	SPARE	--	20 A	1	0 VA	0 VA		1	20 A	SPARE	14				
15	SPARE	--	20 A	1	0 VA	0 VA		1	20 A	SPARE	16				
17	SPARE	--	20 A	1	0 VA	0 VA		1	20 A	SPARE	18				
19	SPARE	--	20 A	1	0 VA	0 VA		1	20 A	SPARE	20				
21	SPARE	--	20 A	1	0 VA	0 VA		1	20 A	SPARE	22				
23	SPARE	--	20 A	1	0 VA	0 VA		1	20 A	SPARE	24				
<b>TOTAL LOAD:</b>					2207 VA	1667 VA	1667 VA								
<b>TOTAL AMPS:</b>					18 A	14 A	14 A								
LOAD CLASSIFICATION		CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS										
PWR-C		5000 VA	125.00%	6250 VA	CONNECTED LOAD: 5540 VA										
REC		540 VA	100.00%	540 VA	CONNECTED CURRENT: 15 A										
					DEMAND LOAD: 6700 VA										
					DEMAND CURRENT: 19 A										
					CONSIDER 125% DEMAND: 8488 A										
					EQUIPMENT AMPS: 100 A										
					FEEDER AVAILABLE: 61 %										
					SPARE CAPACITY: 61 A										

PANEL: 61-TR-EM-1A															
LOCATION: TR C04A		VOLTS: 208/120 WYE		MAINS TYPE: MCB		PHASES: 3		MCB/MLO RATING: 100 A		BRANCH: EMERGENCY		WIRES: 4		MCB OPTIONS: 1	
SUPPLY FROM: 61-FP-EM-1CA		INTEGRAL SPD: Yes		SECTIONS: 1		SERVICE RATED: No		AVAILABLE SCC (KA): 10		PANEL POLES: 24		MOUNTING: SURFACE		NEMA ENCLOSURE: NEMA 1	
CKT	CIRCUIT DESCRIPTION	OPT	RATING	POLES	A	B	C	POLES/RATING	OPT	CIRCUIT DESCRIPTION	CKT				
1	REC - IT RACK TR-C04A 100		20 A	3	1667 VA	720 VA		1	20 A	REC - TR C04A 100	2				
3	SPARE	--	20 A	1	0 VA	0 VA		1	20 A	LTG - TR C04A 100	4				
5	SPARE	--	20 A	1	0 VA	0 VA		1	20 A	SPARE	6				
7	SSCU-C04A/SSAH-C04A		25 A	2	980 VA	0 VA		1	20 A	SPARE	8				
9	SPARE	--	20 A	1	0 VA	0 VA		1	20 A	SPARE	10				
11	SPARE	--	20 A	1	0 VA	0 VA	0 VA	0 VA	1	20 A	12				
13	SPARE	--	20 A	1	0 VA	0 VA		1	20 A	SPARE	14				
15	SPARE	--	20 A	1	0 VA	0 VA		1	20 A	SPARE	16				
17	SPARE	--	20 A	1	0 VA	0 VA		1	20 A	SPARE	18				
19	SPARE	--	20 A	1	0 VA	0 VA		1	20 A	SPARE	20				
21	SPARE	--	20 A	1	0 VA	0 VA		1	20 A	SPARE	22				
23	SPARE	--	20 A	1	0 VA	0 VA		1	20 A	SPARE	24				
<b>TOTAL LOAD:</b>					3367 VA	2680 VA	1667 VA								
<b>TOTAL AMPS:</b>					29 A	24 A	14 A								
LOAD CLASSIFICATION		CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS										
LTG		33 VA	125.00%	41 VA	CONNECTED LOAD: 7713 VA										
PWR-C		5000 VA	125.00%	6250 VA	CONNECTED CURRENT: 21 A										
REC		720 VA	100.00%	720 VA	DEMAND LOAD: 9461 VA										
MEQ-C		1960 VA	125.00%	2450 VA	DEMAND CURRENT: 26 A										
					CONSIDER 125% DEMAND: 11827 A										
					EQUIPMENT AMPS: 100 A										
					FEEDER AVAILABLE: 73 %										
					SPARE CAPACITY: 74 A										

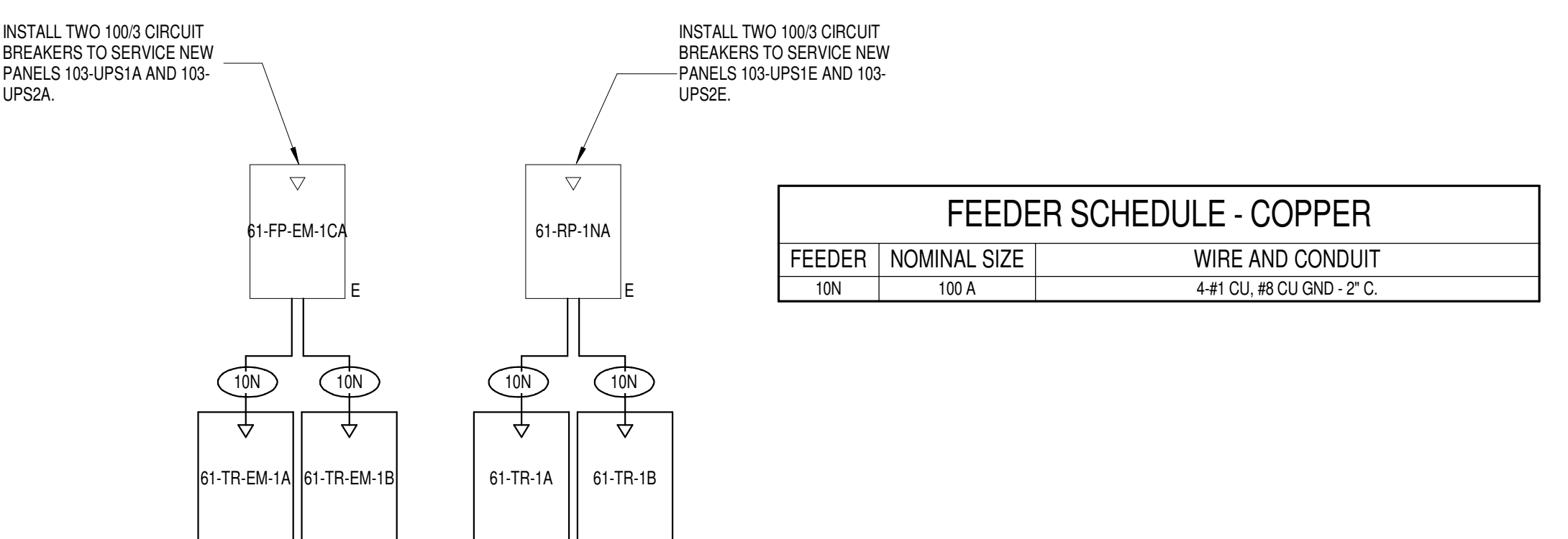
1 OVERALL FLOOR PLAN LEVEL 01 - ELECTRICAL  
1" = 20'-0"



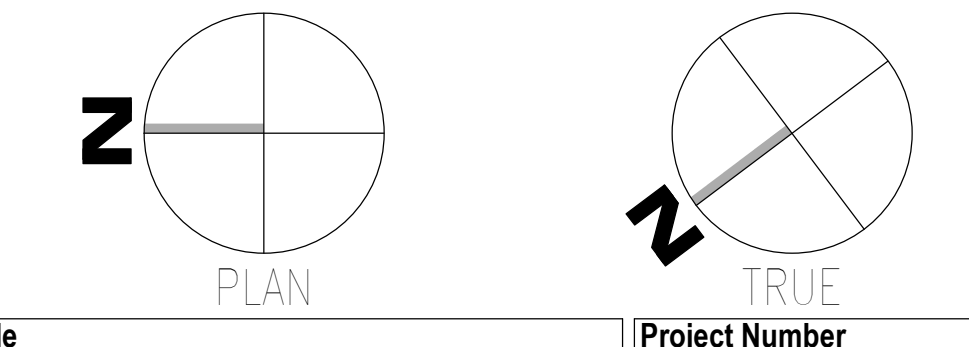
2 DEMOLITION FLOOR PLAN LEVEL 01 - ROOM 1 - ELECTRICAL  
1/4" = 1'-0"



3 NEW FLOOR PLAN LEVEL 01 - ROOM 1 - ELECTRICAL  
1/4" = 1'-0"



4 BUILDING 61 - ELECTRICAL ONE-LINE  
NO SCALE



<b>CONSULTANT</b>  WileyWilson 127 Nationwide Drive Lynchburg, VA 24502 Phone: 434.947.1901 www.wileywilson.com		<b>ARCHITECT/ENGINEER OF RECORD</b>  Atriax, pllc 102 3rd Avenue, NE PO Box 1629, Hickory, NC 28603 Phone: 828.315.9962 Fax: 828.315.9964 NC Engineering License No.: P-0214 NC Architectural License No.: 51254		<b>Office of Construction and Facilities Management</b>  U.S. Department of Veterans Affairs		Drawing Title <b>BUILDING 61 LEVEL 01 - ELECTRICAL</b> Approved:		Phase <b>100% CONSTRUCTION DOCUMENTS</b> <b>FULLY SPRINKLERED</b>		Project Title <b>EHRM INFRASTRUCTURE UPGRADES</b> Location <b>TUSCALOOSA VAMC, TUSCALOOSA, AL.</b> Issue Date <b>03/08/2024</b>		Project Number <b>679-20-104</b> Building Number <b>61</b> Drawing Number <b>E-061.1.1</b>	
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**GENERAL NOTES:**

- A. REFER TO TELECOM, HVAC, AND FIRE PROTECTION DRAWINGS. COORDINATE LOCATION ON NEW LIGHTING FIXTURES, NEW ELECTRICAL PANELS, AND NEW CABLE TRAY MOUNTED RECEPTACLES WITH OTHER DISCIPLINES.

**SHEET NOTES:**

- 1. REMOVE ALL EXISTING DEVICES AND WIRING BACK TO SOURCE. VISIT SITE TO DETERMINE FULL EXTENT OF DEMOLITION.
- 2. REFER TO EQUIPMENT CONNECTION SCHEDULE.
- 3. PROVIDE RECEPTACLE FOR BUS B. MOUNT RECEPTACLE TO CABLE TRAY ABOVE RACK.
- 4. PROVIDE RECEPTACLE FOR BUS A. MOUNT RECEPTACLE TO CABLE TRAY ABOVE RACK.

PANEL: 61-TR-1B													
LOCATION: TR C36				VOLTS: 208/120 WYE				MAINS TYPE: MCB					
SUPPLY FROM: 61-RP-1NA				PHASES: 3				MCB/MLO RATING: 100 A					
BRANCH: NORMAL				WIRES: 4				MCB OPTIONS:					
SERVICE RATED: No				INTEGRAL SPD: Yes				SECTIONS: 1					
MOUNTING: SURFACE				AVAILABLE SCC (KA): 10				PANEL POLES: 24					
NEMA ENCLOSURE: NEMA 1													
CKT	CIRCUIT DESCRIPTION	OPT	RATING	POLES	A	B	C	POLES	RATING	OPT	CIRCUIT DESCRIPTION	CKT	
1					1667 VA	720 VA				1	20 A	REC - TR C36	2
3	REC - IT RACK TR-C36		20 A	3		1667 VA	0 VA			1	20 A		4
5							1667 VA	0 VA		1	20 A		6
7	SPARE		20 A	1	0 VA	0 VA				1	20 A		8
9	SPARE		20 A	1		0 VA	0 VA			1	20 A		10
11	SPARE		20 A	1			0 VA	0 VA		1	20 A		12
13	SPARE		20 A	1	0 VA	0 VA				1	20 A		14
15	SPARE		20 A	1		0 VA	0 VA			1	20 A		16
17	SPACE			1						1			18
19	SPACE			1						1			20
21	SPACE			1						1			22
23	SPACE			1						1			24
<b>TOTAL LOAD:</b>					2387 VA	1667 VA	1667 VA						
<b>TOTAL AMPS:</b>					20 A	14 A	14 A						
LOAD CLASSIFICATION		CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS								
PWR-C		5000 VA	125.00%	6250 VA	CONNECTED LOAD:	5720 VA							
REC		720 VA	100.00%	720 VA	CONNECTED CURRENT:	116 A							
					DEMAND LOAD:	6970 VA							
					DEMAND CURRENT:	19 A							
					CONSIDER 125% DEMAND:	8713 A							
					EQUIPMENT AMPS:	100 A							
					FEEDER AVAILABLE:	80 %							
					SPARE CAPACITY:	81 A							

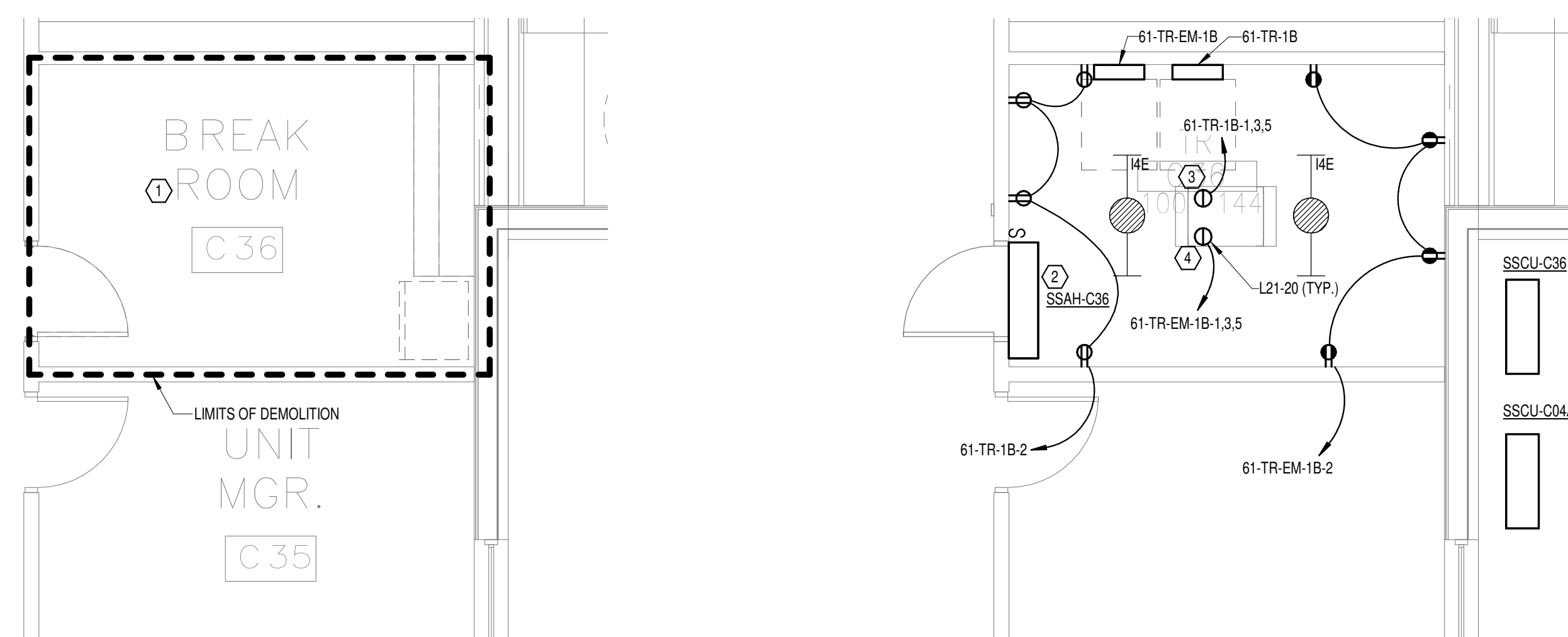
**OPTIONS:**  
CIRCUIT BREAKER OPTIONS SUFFIX: 'S' OR 'ST' - PROVIDE SHUNT TRIP CIRCUIT BREAKER / 'G' OR 'GFCC' - PROVIDE GFCC CIRCUIT BREAKER / 'GFP' - PROVIDE GFP CIRCUIT BREAKER / 'ERMS' - ENERGY REDUCING MAINTENANCE SWITCH / 'ZSF' - ZONE SELECTIVE INTERLOCKING / 'L' - PROVIDE CIRCUIT BREAKER WITH LOCKING PROVISIONS / 'R' - PROVIDE CIRCUIT BREAKER WITH RED MARKING

**GENERAL REMARKS:**  
A. PANEL AIC (INTERRUPTING) RATING SHALL BE MINIMUM 120% OF THE AVAILABLE SCC (SHORT CIRCUIT CURRENT).  
B. BUS B PANEL.  
C. WHERE NEW PANELS ARE SHOWN AT TELECOM PLYWOOD LOCATIONS, MOUNT PANELS TO PLYWOOD.

PANEL: 61-TR-EM-1B													
LOCATION: TR C36				VOLTS: 208/120 WYE				MAINS TYPE: MCB					
SUPPLY FROM: 61-FP-EM-1CA				PHASES: 3				MCB/MLO RATING: 100 A					
BRANCH: EMERGENCY				WIRES: 4				MCB OPTIONS:					
SERVICE RATED: No				INTEGRAL SPD: Yes				SECTIONS: 1					
MOUNTING: SURFACE				AVAILABLE SCC (KA): 10				PANEL POLES: 24					
NEMA ENCLOSURE: NEMA 1													
CKT	CIRCUIT DESCRIPTION	OPT	RATING	POLES	A	B	C	POLES	RATING	OPT	CIRCUIT DESCRIPTION	CKT	
1					1667 VA	720 VA				1	20 A	REC - TR C36	2
3	REC - IT RACK TR-C36		20 A	3		1667 VA	33 VA			1	20 A	LTG - TR-C36	4
5							1667 VA	0 VA		1	20 A		6
7	SSCU-C36/SSAH-C36		25 A	2	980 VA	0 VA				1	20 A		8
9						980 VA	0 VA			1	20 A		10
11	SPARE		20 A	1			0 VA	0 VA		1	20 A		12
13	SPARE		20 A	1	0 VA	0 VA				1	20 A		14
15	SPARE		20 A	1		0 VA	0 VA			1	20 A		16
17	SPACE			1						1			18
19	SPACE			1						1			20
21	SPACE			1						1			22
23	SPACE			1						1			24
<b>TOTAL LOAD:</b>					3367 VA	2680 VA	1667 VA						
<b>TOTAL AMPS:</b>					29 A	24 A	14 A						
LOAD CLASSIFICATION		CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS								
LTG		33 VA	125.00%	41 VA	CONNECTED LOAD:	7713 VA							
PWR-C		5000 VA	125.00%	6250 VA	CONNECTED CURRENT:	21 A							
REC		720 VA	100.00%	720 VA	DEMAND LOAD:	9461 VA							
MEQ-C		1960 VA	125.00%	2450 VA	DEMAND CURRENT:	26 A							
					CONSIDER 125% DEMAND:	11827 A							
					EQUIPMENT AMPS:	100 A							
					FEEDER AVAILABLE:	73 %							
					SPARE CAPACITY:	74 A							

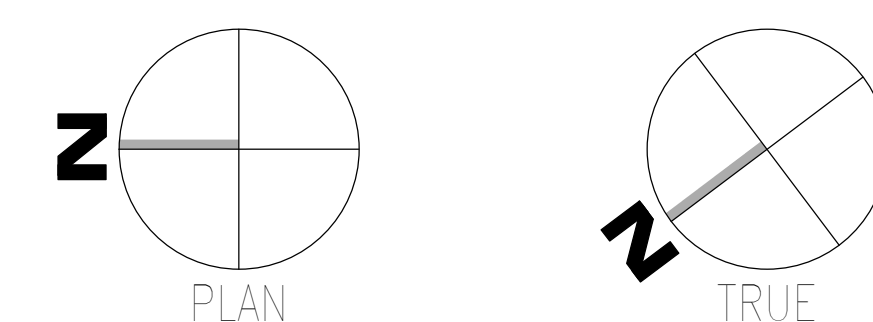
**OPTIONS:**  
CIRCUIT BREAKER OPTIONS SUFFIX: 'S' OR 'ST' - PROVIDE SHUNT TRIP CIRCUIT BREAKER / 'G' OR 'GFCC' - PROVIDE GFCC CIRCUIT BREAKER / 'GFP' - PROVIDE GFP CIRCUIT BREAKER / 'ERMS' - ENERGY REDUCING MAINTENANCE SWITCH / 'ZSF' - ZONE SELECTIVE INTERLOCKING / 'L' - PROVIDE CIRCUIT BREAKER WITH LOCKING PROVISIONS / 'R' - PROVIDE CIRCUIT BREAKER WITH RED MARKING

**GENERAL REMARKS:**  
A. PANEL AIC (INTERRUPTING) RATING SHALL BE MINIMUM 120% OF THE AVAILABLE SCC (SHORT CIRCUIT CURRENT).  
B. BUS A PANEL.  
C. WHERE NEW PANELS ARE SHOWN AT TELECOM PLYWOOD LOCATIONS, MOUNT PANELS TO PLYWOOD.



1  
1/4" = 1'-0"  
DEMOLITION FLOOR PLAN LEVEL 01 - ROOM 2 - ELECTRICAL

2  
1/4" = 1'-0"  
NEW FLOOR PLAN LEVEL 01 - ROOM 2 - ELECTRICAL



Revisions:	Date:

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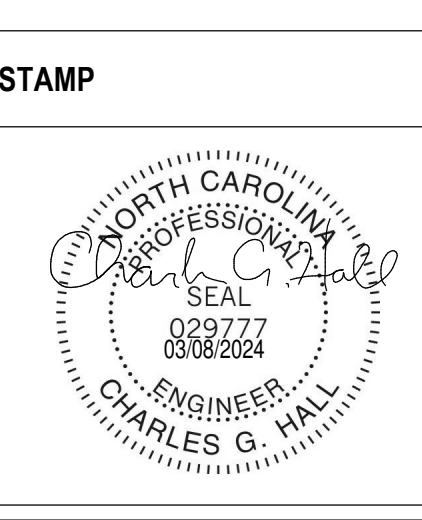
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**Office of Construction and Facilities Management**

**VA** U.S. Department of Veterans Affairs

Drawing Title  
**BUILDING 61 LEVEL 01 - ELECTRICAL**

Approved: \_\_\_\_\_

Phase  
**100% CONSTRUCTION DOCUMENTS**

**FULLY SPRINKLERED**

Project Title  
**EHRM INFRASTRUCTURE UPGRADES**

Project Number  
**679-20-104**

Building Number  
**61**

Drawing Number  
**E-061.1.2**

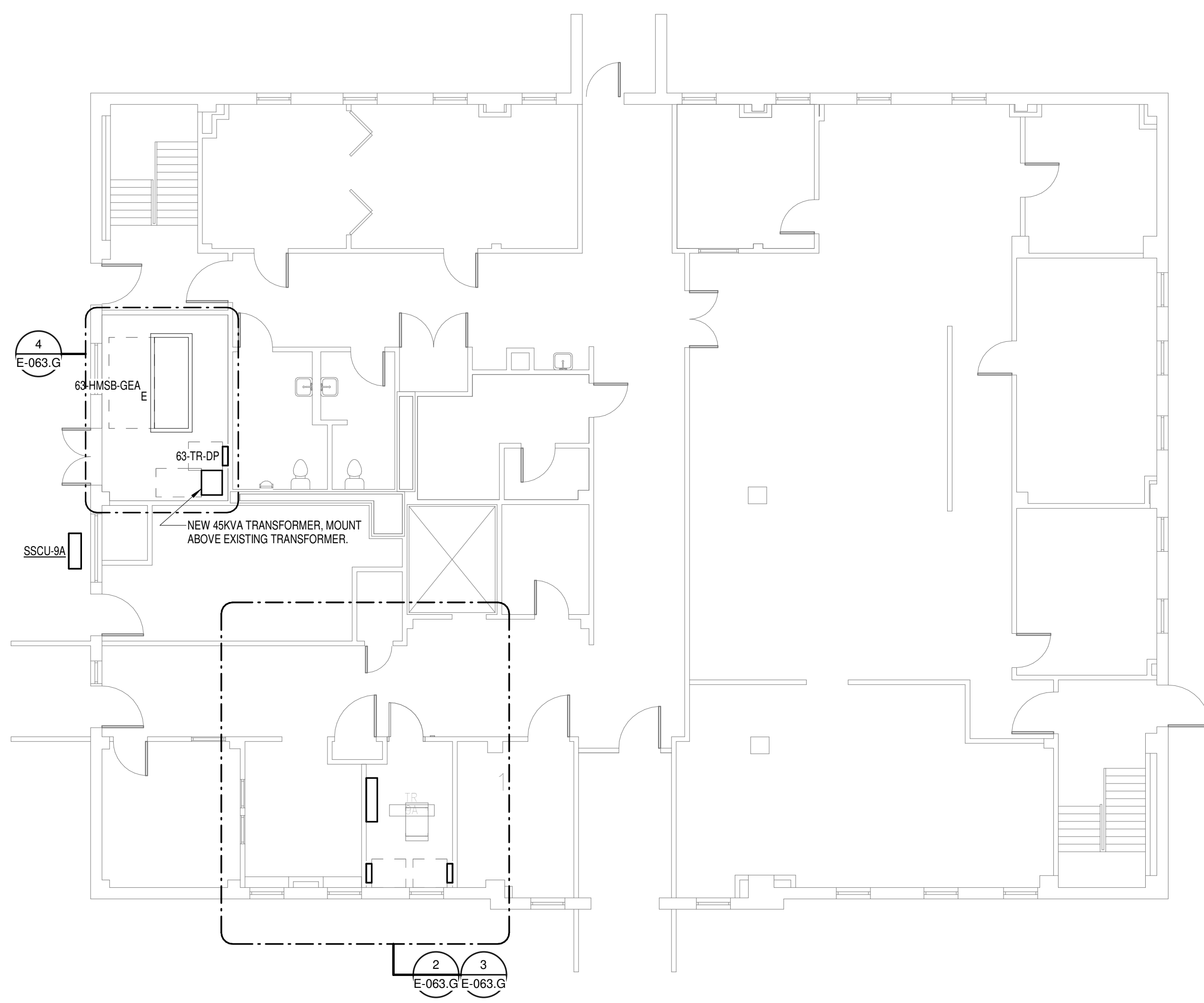
Location  
**TUSCALOOSA VAMC, TUSCALOOSA, AL.**

Issue Date  
**03/08/2024**

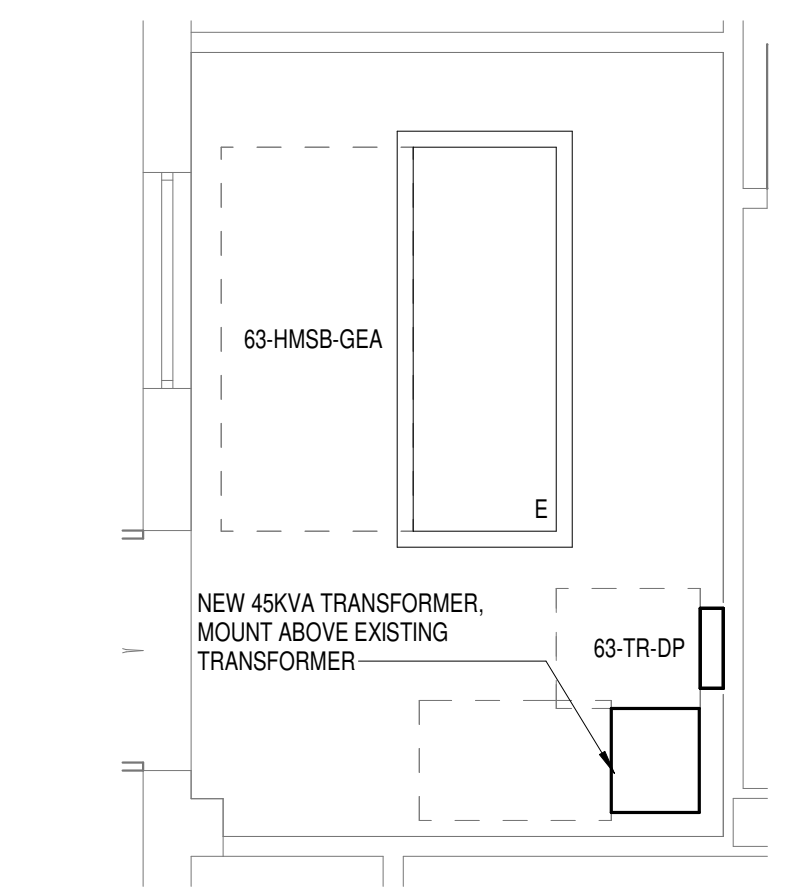
Checked  
**CGH**

Drawn  
**MJJ**





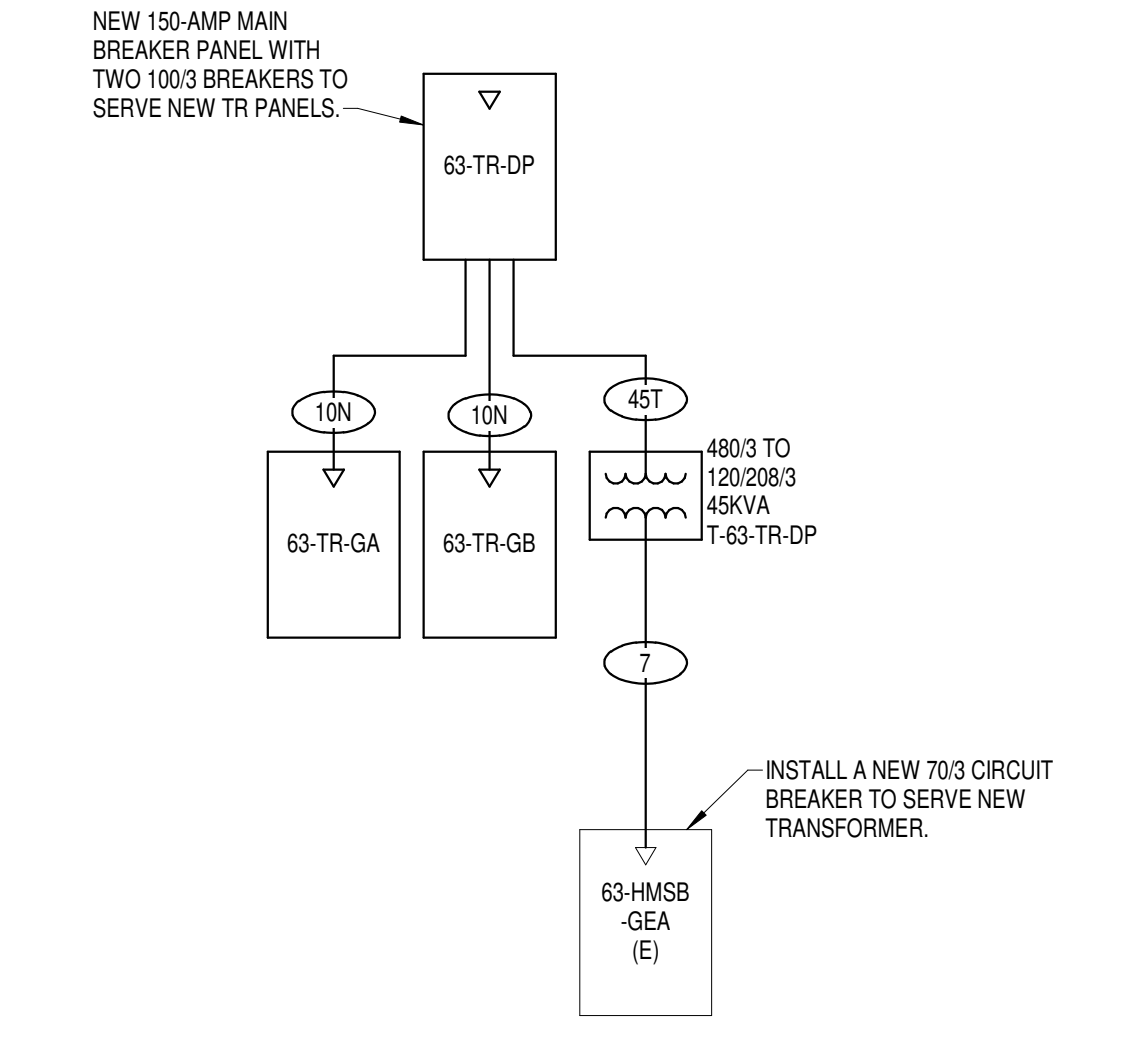
OVERALL FLOOR PLAN GROUND LEVEL - ELECTRICAL  
1  
1/8" = 1'-0"



ENLARGED PLAN GROUND LEVEL ELECTRICAL ROOM  
4  
1/4" = 1'-0"

FEEDER SCHEDULE - COPPER

FEEDER	NOMINAL SIZE	WIRE AND CONDUIT
7	75 A	3 #4 CU, #8 CU GND - 1-1/4" C.
10N	100 A	4 #1 CU, #8 CU GND - 2" C.
45T	150 A	4 #20 CU, #4 CU GND - 2" C.



BUILDING 63 - ELECTRICAL ONE-LINE  
5  
NO SCALE



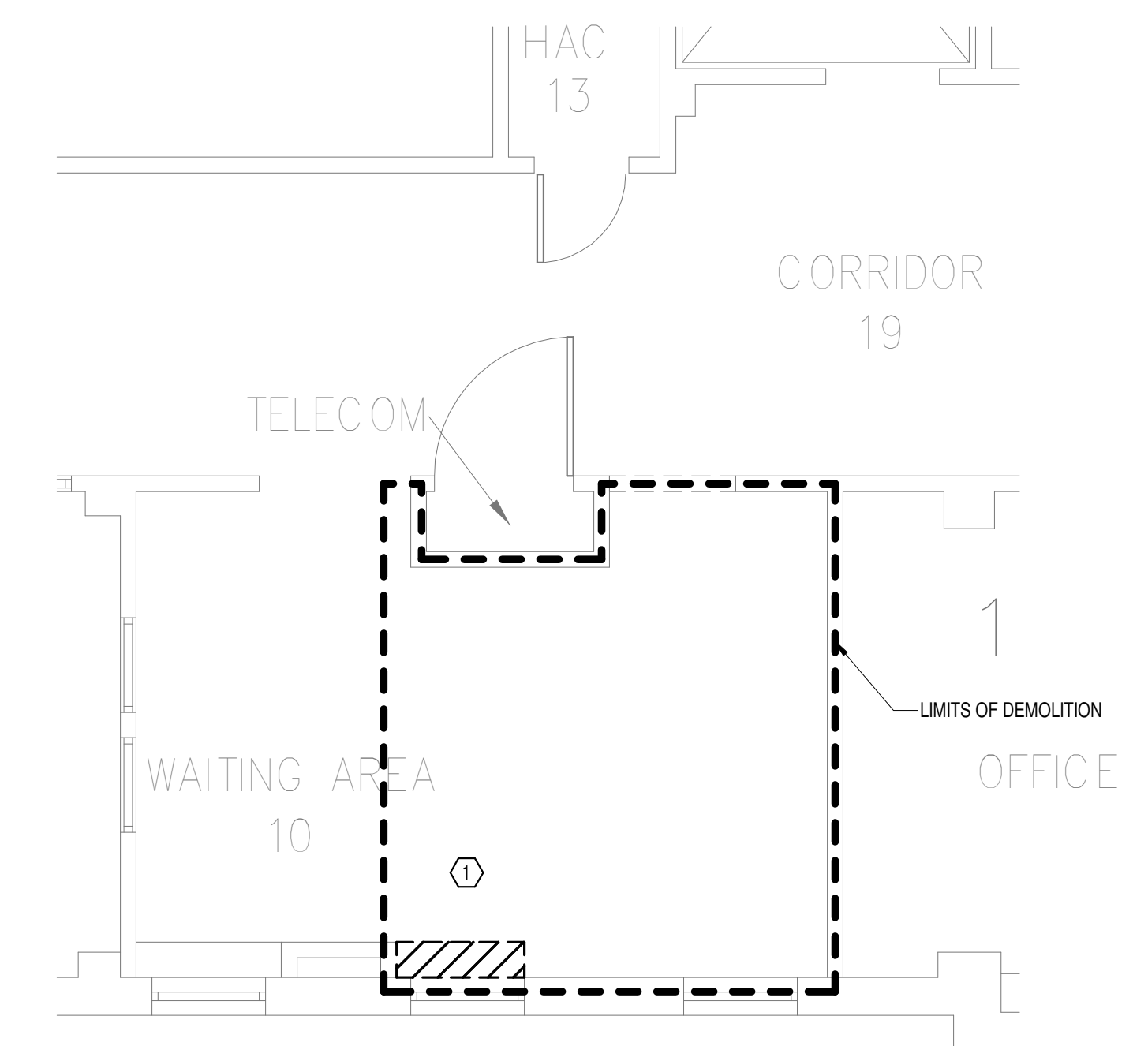
EXISTING SWITCHBOARD 63-HMSB-GEA  
6  
NO SCALE

**GENERAL NOTES:**  
A. REFER TO TELECOM, HVAC, AND FIRE PROTECTION DRAWINGS. COORDINATE LOCATION ON NEW LIGHTING FIXTURES, NEW ELECTRICAL PANELS, AND NEW CABLE TRAY MOUNTED RECEPTACLES WITH OTHER DISCIPLINES.  
**SHEET NOTES:**  
1. REMOVE ALL EXISTING DEVICES AND WIRING BACK TO SOURCE. VISIT SITE TO DETERMINE FULL EXTENT OF DEMOLITION.  
2. REFER TO EQUIPMENT CONNECTION SCHEDULE.  
3. PROVIDE RECEPTACLE FOR BUS B. MOUNT RECEPTACLE TO CABLE TRAY ABOVE RACK.  
4. PROVIDE RECEPTACLE FOR BUS A. MOUNT RECEPTACLE TO CABLE TRAY ABOVE RACK.

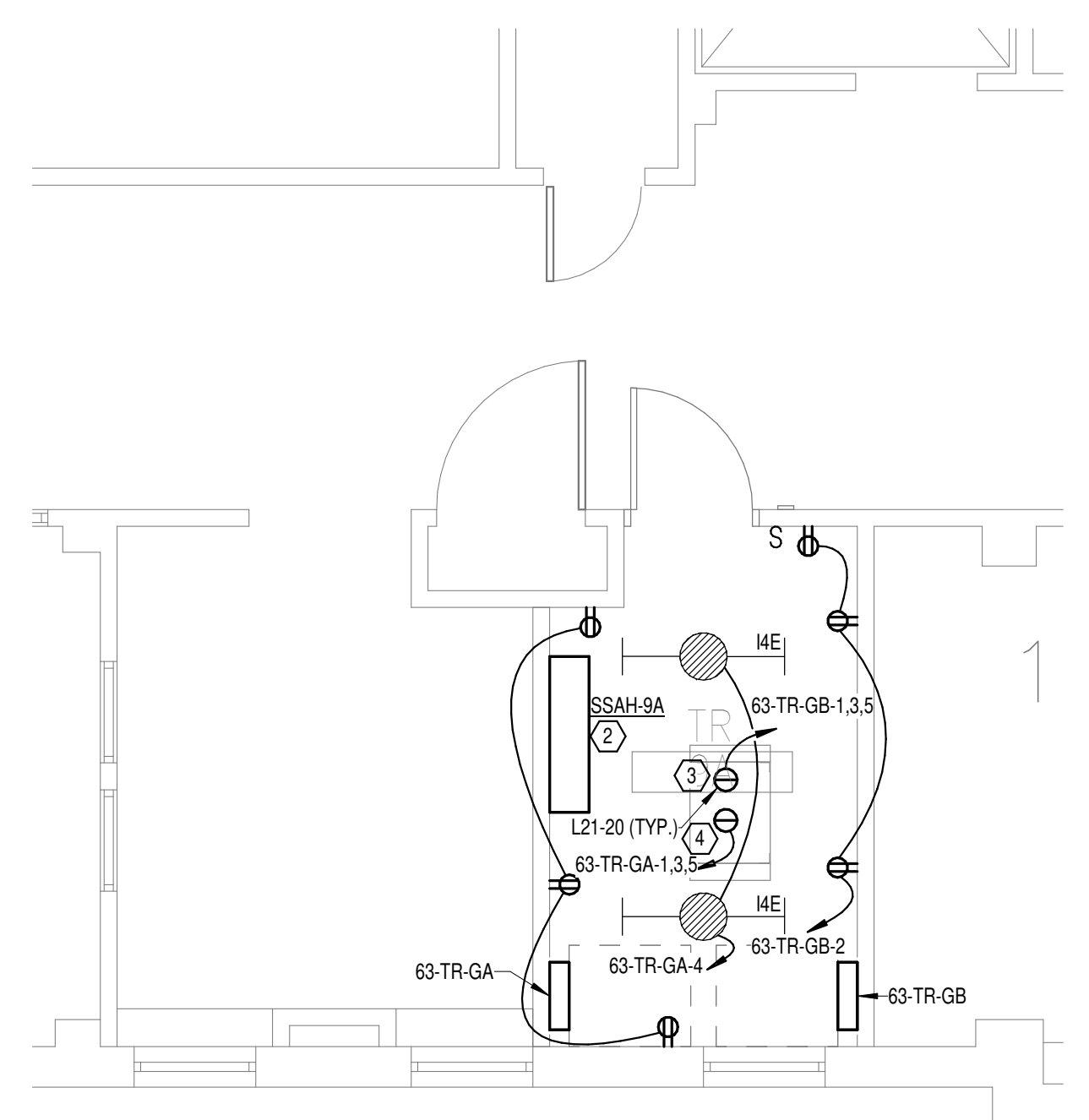
EQUIPMENT CONNECTION SCHEDULE

MARK	DESCRIPTION	FLA	MCA	MOCB	VOLTS	PHASE	POLES	LOAD [VA]	CONTROL TYPE	DISCONNECT BY	DISCONNECT TYPE	FEEDER	PANEL	CIRCUIT NUMBER	SCCR	GEN	REMARKS
SSAH-8A	SPLIT SYSTEM CONDENSING UNIT				208	1	2		INT			(3X) (30A) 2-#10 CU, #10 CU GND - 3/4" C.	63-TR-GB	7.9	5	Yes	2
SSCU-8A	SPLIT SYSTEM CONDENSING UNIT	0.4	19	25	208	1	2	1960	INT	ELECTRICAL	30A/2P/208V FUSED DISCONNECT SWITCH	(3X) (30A) 2-#10 CU, #10 CU GND - 3/4" C.	63-TR-GB	7.9	5	Yes	1

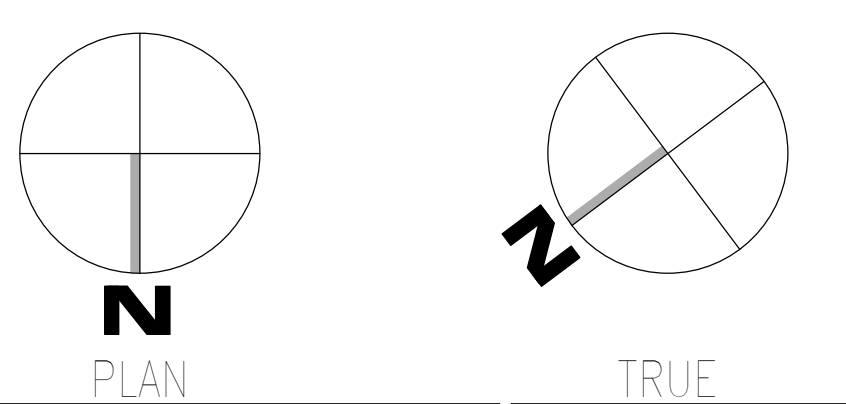
REMARKS: (EQUIPMENT CONNECTION SCHEDULE)  
1. CONTROLS BETWEEN INDOOR AND OUTDOOR UNITS - INCLUDE CONTROL WIRING IN CONDUIT BETWEEN INDOOR AND OUTDOOR UNIT PER MANUFACTURERS REQUIREMENTS.  
2. \*CONTROL TYPE - PROVIDE CONTROL AND CONNECTIONS "INT" - CONTROLS ARE MANUFACTURED INTEGRAL TO THE EQUIPMENT (SELF-CONTAINED).



DEMOLITION FLOOR PLAN GROUND LEVEL - ELECTRICAL  
2  
1/4" = 1'-0"



NEW FLOOR PLAN GROUND LEVEL - ELECTRICAL  
3  
1/4" = 1'-0"



08/03/2024 15:24:52  
AutoSave: 2025-08-08 12:45:08 - VA Tuscaloosa EHRM Infrastructure Upgrades/2025-08-08 - VA EHRM Tuscaloosa - R50 - 09/05.rvt

Revisions table with columns for Revisions and Date.

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STAMP  
Professional Engineer Seal for Charles G. Hall, State of North Carolina, License No. 029777, dated 03/08/2024.

Office of Construction and Facilities Management  
VA U.S. Department of Veterans Affairs

Drawing Title  
BUILDING 63 GROUND LEVEL - ELECTRICAL  
Approved:

Phase  
100% CONSTRUCTION DOCUMENTS  
FULLY SPRINKLERED

Project Title  
EHRM INFRASTRUCTURE UPGRADES  
Project Number  
679-20-104  
Building Number  
63  
Drawing Number  
E-063.G  
Location  
TUSCALOOSA VAMC, TUSCALOOSA, AL.  
Issue Date  
03/08/2024  
Checked  
CGH  
Drawn  
MJJ



**PANEL: 63-TR-DP**

LOCATION: GROUND LEVEL ELECT...  
 SUPPLY FROM: T-63-TR-DP  
 BRANCH: NORMAL  
 SERVICE RATED: No  
 MOUNTING: SURFACE  
 NEMA ENCLOSURE: NEMA 1

VOLTS: 208/120 WYE  
 PHASES: 3  
 WIRES: 4  
 INTEGRAL SPD: Yes  
 AVAILABLE SCC (KA): 10

MAINS TYPE: MCB  
 MCB/MLO RATING: 150 A  
 MCB OPTIONS:  
 SECTIONS: 1  
 PANEL POLES: 42

CKT	CIRCUIT DESCRIPTION	OPT	RATING	POLES	A	B	C	POLES	RATING	OPT	CIRCUIT DESCRIPTION	CKT
1	63-TR-GA		100 A	3	2207 VA	3187 VA					63-TR-GB	2
3	REC - IT RACK TR-9A		20 A	3							REC - TR 9A	4
5												6
7	SPARE	--	20 A	1	0 VA	0 VA					SPARE	8
9	SPARE	--	20 A	1		0 VA	0 VA				SPARE	10
11	SPARE	--	20 A	1			0 VA	0 VA			SPARE	12
13	SPARE	--	20 A	1	0 VA	0 VA					SPARE	14
15	SPARE	--	20 A	1		0 VA	0 VA				SPARE	16
17	SPARE	--	20 A	1			0 VA	0 VA			SPARE	18
19	SPARE	--	20 A	1	0 VA	0 VA					SPARE	20
21	SPARE	--	20 A	1		0 VA	0 VA				SPARE	22
23	SPARE	--	20 A	1			0 VA	0 VA			SPARE	24
25	SPARE	--	20 A	1	0 VA	0 VA					SPARE	26
27	SPARE	--	20 A	1		0 VA	0 VA				SPARE	28
29	SPARE	--	20 A	1			0 VA	0 VA			SPARE	30
31	SPARE	--	20 A	1	0 VA	0 VA					SPARE	32
33	SPARE	--	20 A	1		0 VA	0 VA				SPARE	34
35	SPARE	--	--	1							SPACE	36
37	SPACE	--	--	1							SPACE	38
39	SPACE	--	--	1							SPACE	40
41	SPACE	--	--	1							SPACE	42
<b>TOTAL LOAD:</b>					5393 VA	4379 VA	3333 VA					
<b>TOTAL AMPS:</b>					46 A	38 A	28 A					

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS
LTG	66 VA	125.00%	83 VA	CONNECTED LOAD: 13106 VA
PWR-C	10000 VA	125.00%	12500 VA	CONNECTED CURRENT: 36 A
REC	1080 VA	100.00%	1080 VA	DEMAND LOAD: 16113 VA
MEQ-C	1960 VA	125.00%	2450 VA	DEMAND CURRENT: 45 A
				CONSIDER 125% DEMAND: 20141 A
				EQUIPMENT AMPS: 150 A
				FEEDER AVAILABLE:
				SPARE CAPACITY: 70 %
				105 A

**OPTIONS:**  
 CIRCUIT BREAKER OPTIONS SUFFIX: 'S' OR 'ST' - PROVIDE SHUNT TRIP CIRCUIT BREAKER / 'G' OR 'GFCI' - PROVIDE GFCI CIRCUIT BREAKER / 'GFP' - PROVIDE GFP CIRCUIT BREAKER / 'ERMS' - ENERGY REDUCING MAINTENANCE SWITCH / 'ZSI' - ZONE SELECTIVE INTERLOCKING / 'L' - PROVIDE CIRCUIT BREAKER WITH LOCKING PROVISIONS / 'R' - PROVIDE CIRCUIT BREAKER WITH RED MARKING

**GENERAL REMARKS:**  
 A. PANEL AIC (INTERRUPTING) RATING SHALL BE MINIMUM 120% OF THE AVAILABLE SCC (SHORT CIRCUIT CURRENT).  
 B. BUS B PANEL.  
 C. WHERE NEW PANELS ARE SHOWN AT TELECOM PLYWOOD LOCATIONS, MOUNT PANELS TO PLYWOOD.

**PANEL: 63-TR-GA**

LOCATION: TR 9A  
 SUPPLY FROM: 63-TR-DP  
 BRANCH: NORMAL  
 SERVICE RATED: No  
 MOUNTING: SURFACE  
 NEMA ENCLOSURE: NEMA 1

VOLTS: 208/120 WYE  
 PHASES: 3  
 WIRES: 4  
 INTEGRAL SPD: Yes  
 AVAILABLE SCC (KA): 10

MAINS TYPE: MCB  
 MCB/MLO RATING: 100 A  
 MCB OPTIONS:  
 SECTIONS: 1  
 PANEL POLES: 24

CKT	CIRCUIT DESCRIPTION	OPT	RATING	POLES	A	B	C	POLES	RATING	OPT	CIRCUIT DESCRIPTION	CKT
1					1667 VA	540 VA					REC - TR 9A	2
3	REC - IT RACK TR-9A		20 A	3							LTG - TR 9A	4
5												6
7	SPARE	--	20 A	1	0 VA	0 VA					SPARE	8
9	SPARE	--	20 A	1		0 VA	0 VA				SPARE	10
11	SPARE	--	20 A	1			0 VA	0 VA			SPARE	12
13	SPARE	--	20 A	1	0 VA	0 VA					SPARE	14
15	SPARE	--	20 A	1		0 VA	0 VA				SPARE	16
17	SPACE	--	--	1							SPACE	18
19	SPACE	--	--	1							SPACE	20
21	SPACE	--	--	1							SPACE	22
23	SPACE	--	--	1							SPACE	24
<b>TOTAL LOAD:</b>					2207 VA	1733 VA	1667 VA					
<b>TOTAL AMPS:</b>					18 A	15 A	14 A					

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS
LTG	66 VA	125.00%	83 VA	CONNECTED LOAD: 5606 VA
PWR-C	5000 VA	125.00%	6250 VA	CONNECTED CURRENT: 18 A
REC	540 VA	100.00%	540 VA	DEMAND LOAD: 8873 VA
				DEMAND CURRENT: 19 A
				CONSIDER 125% DEMAND: 8591 A
				EQUIPMENT AMPS: 100 A
				FEEDER AVAILABLE:
				SPARE CAPACITY: 80 %
				81 A

**OPTIONS:**  
 CIRCUIT BREAKER OPTIONS SUFFIX: 'S' OR 'ST' - PROVIDE SHUNT TRIP CIRCUIT BREAKER / 'G' OR 'GFCI' - PROVIDE GFCI CIRCUIT BREAKER / 'GFP' - PROVIDE GFP CIRCUIT BREAKER / 'ERMS' - ENERGY REDUCING MAINTENANCE SWITCH / 'ZSI' - ZONE SELECTIVE INTERLOCKING / 'L' - PROVIDE CIRCUIT BREAKER WITH LOCKING PROVISIONS / 'R' - PROVIDE CIRCUIT BREAKER WITH RED MARKING

**GENERAL REMARKS:**  
 A. PANEL AIC (INTERRUPTING) RATING SHALL BE MINIMUM 120% OF THE AVAILABLE SCC (SHORT CIRCUIT CURRENT).  
 B. BUS B PANEL.  
 C. WHERE NEW PANELS ARE SHOWN AT TELECOM PLYWOOD LOCATIONS, MOUNT PANELS TO PLYWOOD.

**PANEL: 63-TR-GB**

LOCATION: TR 9A  
 SUPPLY FROM: 63-TR-DP  
 BRANCH: NORMAL  
 SERVICE RATED: No  
 MOUNTING: SURFACE  
 NEMA ENCLOSURE: NEMA 1

VOLTS: 208/120 WYE  
 PHASES: 3  
 WIRES: 4  
 INTEGRAL SPD: Yes  
 AVAILABLE SCC (KA): 10

MAINS TYPE: MCB  
 MCB/MLO RATING: 100 A  
 MCB OPTIONS:  
 SECTIONS: 1  
 PANEL POLES: 24

CKT	CIRCUIT DESCRIPTION	OPT	RATING	POLES	A	B	C	POLES	RATING	OPT	CIRCUIT DESCRIPTION	CKT
1					1667 VA	540 VA					REC - TR 9A	2
3	REC - IT RACK TR-9A		20 A	3							LTG - TR 9A	4
5												6
7	SSCU-10/SSAH-10		25 A	2	980 VA	0 VA					SPARE	8
9							980 VA	0 VA			SPARE	10
11	SPARE	--	20 A	1			0 VA	0 VA			SPARE	12
13	SPARE	--	20 A	1	0 VA	0 VA					SPARE	14
15	SPARE	--	20 A	1		0 VA	0 VA				SPARE	16
17	SPACE	--	--	1							SPACE	18
19	SPACE	--	--	1							SPACE	20
21	SPACE	--	--	1							SPACE	22
23	SPACE	--	--	1							SPACE	24
<b>TOTAL LOAD:</b>					3187 VA	2647 VA	1667 VA					
<b>TOTAL AMPS:</b>					28 A	23 A	14 A					

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS
PWR-C	5000 VA	125.00%	6250 VA	CONNECTED LOAD: 7500 VA
REC	540 VA	100.00%	540 VA	CONNECTED CURRENT: 21 A
MEQ-C	1960 VA	125.00%	2450 VA	DEMAND LOAD: 3240 VA
				DEMAND CURRENT: 26 A
				CONSIDER 125% DEMAND: 11550 A
				EQUIPMENT AMPS: 100 A
				FEEDER AVAILABLE:
				SPARE CAPACITY: 74 %
				74 A

**OPTIONS:**  
 CIRCUIT BREAKER OPTIONS SUFFIX: 'S' OR 'ST' - PROVIDE SHUNT TRIP CIRCUIT BREAKER / 'G' OR 'GFCI' - PROVIDE GFCI CIRCUIT BREAKER / 'GFP' - PROVIDE GFP CIRCUIT BREAKER / 'ERMS' - ENERGY REDUCING MAINTENANCE SWITCH / 'ZSI' - ZONE SELECTIVE INTERLOCKING / 'L' - PROVIDE CIRCUIT BREAKER WITH LOCKING PROVISIONS / 'R' - PROVIDE CIRCUIT BREAKER WITH RED MARKING

**GENERAL REMARKS:**  
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 B. BUS B PANEL.  
 C. WHERE NEW PANELS ARE SHOWN AT TELECOM PLYWOOD LOCATIONS, MOUNT PANELS TO PLYWOOD.

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Revisions:	Date:

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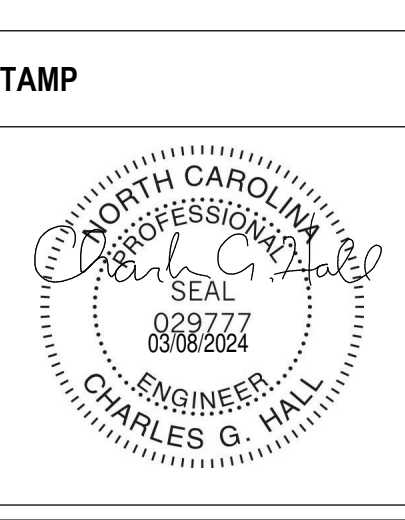
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 Fax: 828.315.9964

NC Engineering License No.: P-0214  
 NC Architectural License No.: 51254



**Office of Construction and Facilities Management**

**VA** U.S. Department of Veterans Affairs

Drawing Title  
**ELECTRICAL PANEL SCHEDULES**

Approved: \_\_\_\_\_

Phase  
**100% CONSTRUCTION DOCUMENTS**

**FULLY SPRINKLERED**

Project Title  
**EHRM INFRASTRUCTURE UPGRADES**

Project Number  
**679-20-104**

Building Number  
**63**

Drawing Number  
**E-063.700**

Location  
**TUSCALOOSA VAMC, TUSCALOOSA, AL.**

Issue Date  
**03/08/2024**

Checked  
**CGH**

Drawn  
**MJJ**

EQUIPMENT CONNECTION SCHEDULE																	
MARK	DESCRIPTION	FLA	MCA	MOCP	VOLTS	PHASE	POLES	LOAD [VA]	CONTROL TYPE	DISCONNECT BY	DISCONNECT TYPE	FEEDER	PANEL	CIRCUIT NUMBER	SCCR	GEN	REMARKS
SSAH-120A	SPLIT SYSTEM CONDENSING UNIT				208	1	2		INT			(3X) (80A) 2-#10 CU #10 CU GND - 3/4"	135-TR-EM-1	7.9	5	Yes	2
SSAH-B-08A	SPLIT SYSTEM CONDENSING UNIT				208	1	2		INT			(3X) (80A) 2-#10 CU #10 CU GND - 3/4"	135-TR-EM-B	7.9	5	Yes	2
SSAH-G-66	SPLIT SYSTEM CONDENSING UNIT				208	1	2		INT			(3X) (80A) 2-#10 CU #10 CU GND - 3/4"	135-TR-EM-G	7.9	5	Yes	2
SSCU-120A	SPLIT SYSTEM CONDENSING UNIT	0.6	25	30	208	1	2	3330	INT	ELECTRICAL	30A/2P/208V FUSED DISCONNECT SWITCH	(3X) (80A) 2-#10 CU #10 CU GND - 3/4"	135-TR-EM-1	7.9	5	Yes	1
SSCU-B-08A	SPLIT SYSTEM CONDENSING UNIT	0.6	25	30	208	1	2	3330	INT	ELECTRICAL	30A/2P/208V FUSED DISCONNECT SWITCH	(3X) (80A) 2-#10 CU #10 CU GND - 3/4"	135-TR-EM-B	7.9	5	Yes	1
SSCU-G-66	SPLIT SYSTEM CONDENSING UNIT	0.6	25	30	208	1	2	3330	INT	ELECTRICAL	30A/2P/208V FUSED DISCONNECT SWITCH	(3X) (80A) 2-#10 CU #10 CU GND - 3/4"	135-TR-EM-G	7.9	5	Yes	1

REMARKS: (EQUIPMENT CONNECTION SCHEDULE)  
 1. CONTROLS BETWEEN INDOOR AND OUTDOOR UNITS - INCLUDE CONTROL WIRING IN CONDUIT BETWEEN INDOOR AND OUTDOOR UNIT PER MANUFACTURERS REQUIREMENTS.  
 2. "CONTROL TYPE" - PROVIDE CONTROL AND CONNECTIONS "INT" - CONTROLS ARE MANUFACTURED INTEGRAL TO THE EQUIPMENT (SELF-CONTAINED).

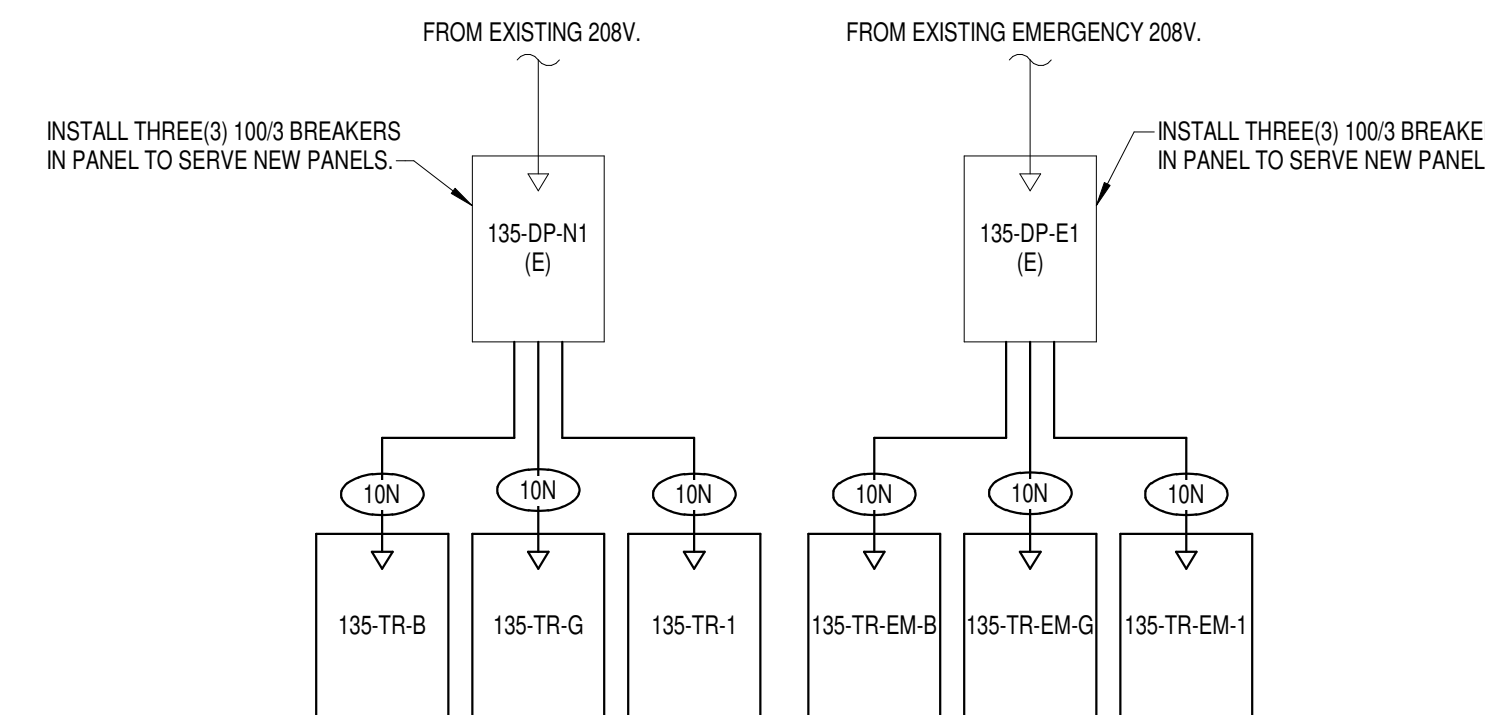
**SHEET NOTES:**

- REMOVE ALL EXISTING DEVICES AND WIRING BACK TO SOURCE. VISIT SITE TO DETERMINE FULL EXTENT OF DEMOLITION.
- REFER TO EQUIPMENT CONNECTION SCHEDULE.
- PROVIDE RECEPTACLE FOR BUS A. MOUNT RECEPTACLE TO CABLE TRAY ABOVE RACK.
- PROVIDE RECEPTACLE FOR BUS B. MOUNT RECEPTACLE TO CABLE TRAY ABOVE RACK.

**GENERAL NOTES:**

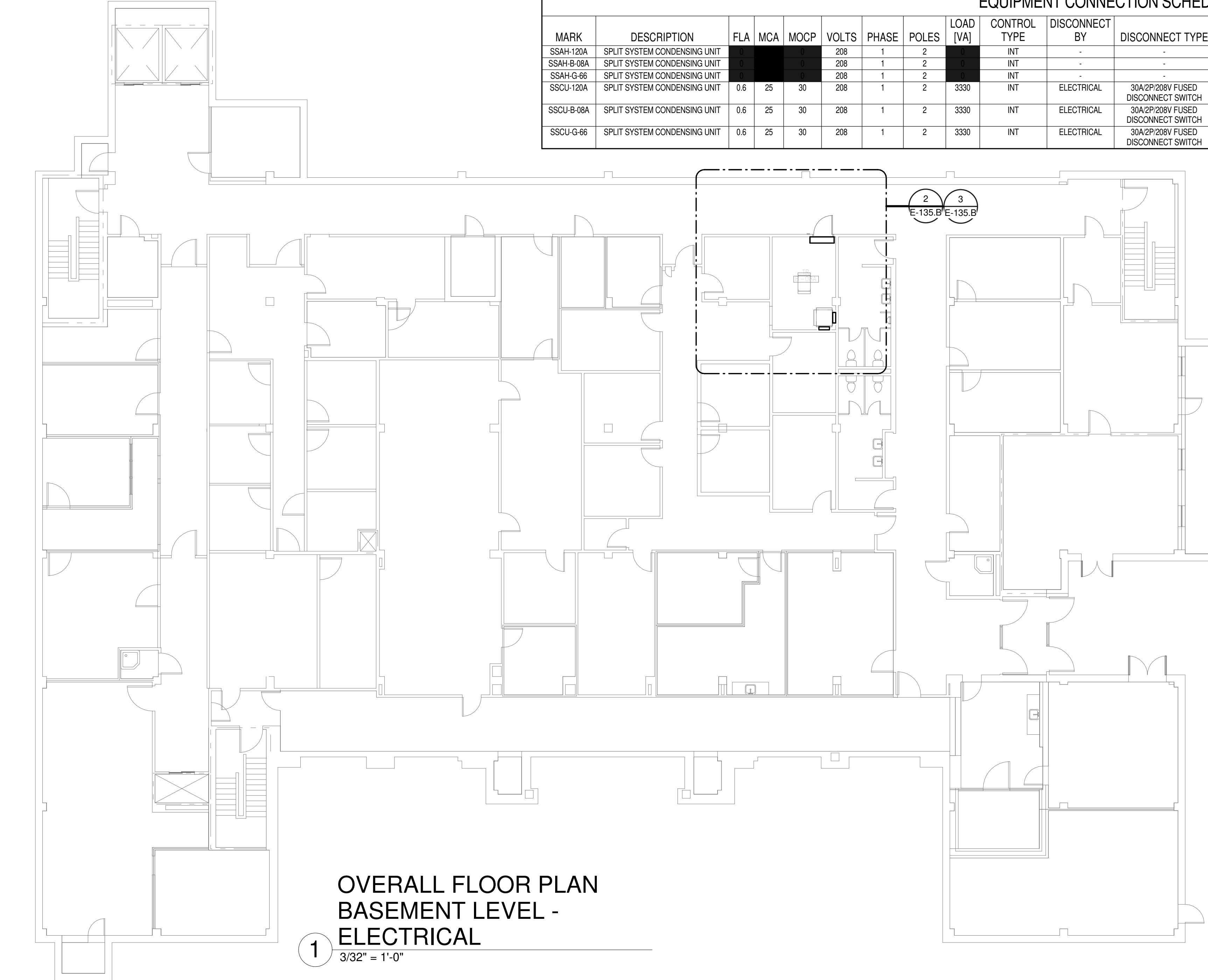
- REFER TO TELECOM, HVAC, AND FIRE PROTECTION DRAWINGS. COORDINATE LOCATION ON NEW LIGHTING FIXTURES, NEW ELECTRICAL PANELS, AND NEW CABLE TRAY MOUNTED RECEPTACLES WITH OTHER DISCIPLINES.

FEEDER SCHEDULE - COPPER			
FEEDER	NOMINAL SIZE	WIRE AND CONDUIT	
10N	100 A	4-#1 CU #8 CU GND - 2" C.	

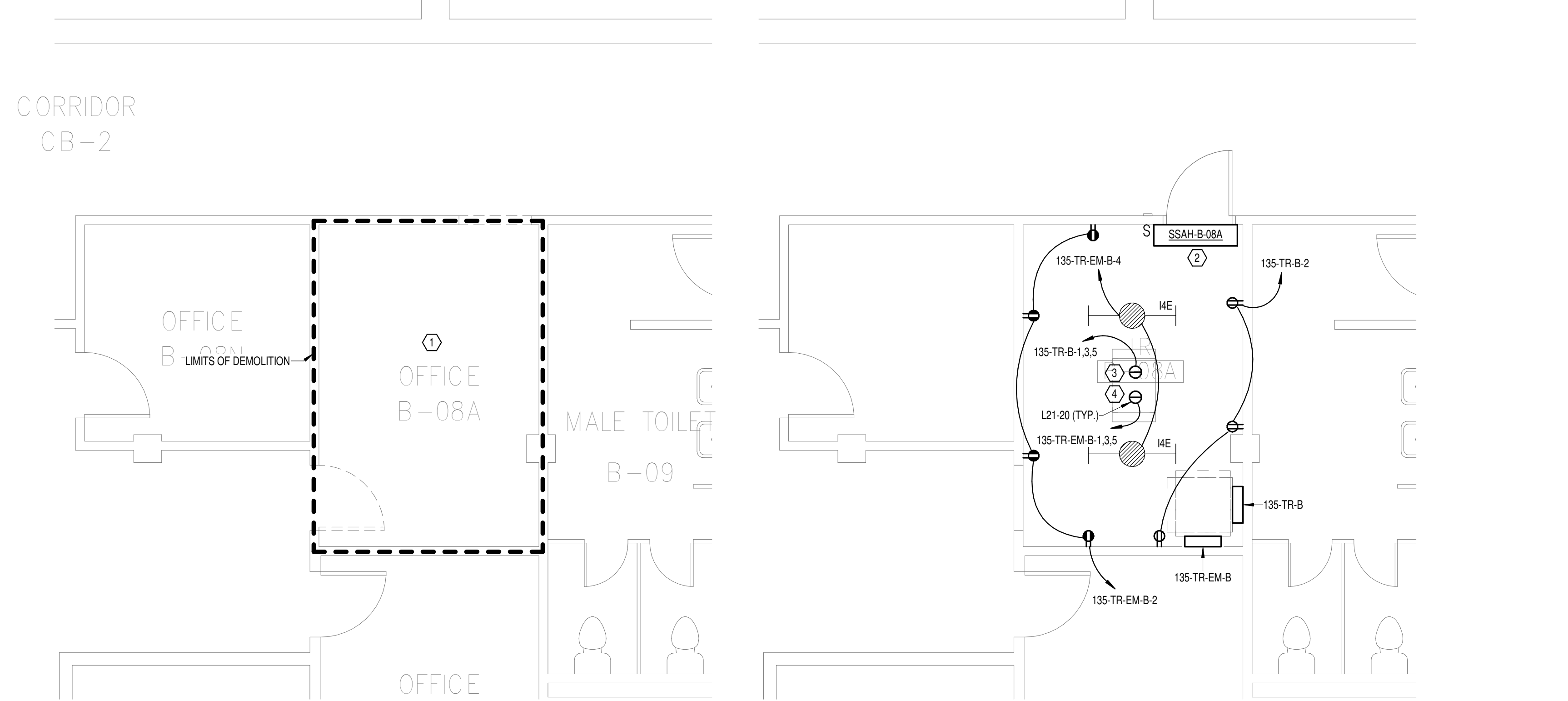


PANEL: 135-TR-B																	
LOCATION: TR B-08A				VOLTS: 208/120 WYE				MAINS TYPE: MCB									
SUPPLY FROM: 135-DP-N1				PHASES: 3				MCB/MLO RATING: 100 A									
BRANCH: NORMAL				WIRES: 4				MCB OPTIONS:									
SERVICE RATED: No				INTEGRAL SPD: Yes				SECTIONS: 1									
MOUNTING: SURFACE				AVAILABLE SCC (KA): 10				PANEL POLES: 24									
NEMA ENCLOSURE: NEMA 1																	
CKT	CIRCUIT DESCRIPTION	OPT	RATING	POLES	A	B	C	POLES/RATING	OPT	CIRCUIT DESCRIPTION	CKT						
1					1667 VA	540 VA		1	20 A	REC - TR 08A	2						
3	REC - IT RACK TR-B-08A		20 A	3				1	20 A		4						
5								1	20 A		6						
7	SPARE		20 A	1	0 VA	0 VA		1	20 A		8						
9	SPARE		20 A	1	0 VA	0 VA		1	20 A		10						
11	SPARE		20 A	1			0 VA	0 VA	1	20 A	12						
13	SPARE		20 A	1	0 VA	0 VA		1	20 A		14						
15	SPARE		20 A	1			0 VA	0 VA	1	20 A	16						
17	SPACE		--	1	--	--	--	--	1	--	18						
19	SPACE		--	1	--	--	--	--	1	--	20						
21	SPACE		--	1	--	--	--	--	1	--	22						
23	SPACE		--	1	--	--	--	--	1	--	24						
TOTAL LOAD:					2207 VA	1667 VA	1667 VA										
TOTAL AMPS:					18 A	14 A	14 A										
LOAD CLASSIFICATION				CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS										
PWR-C				5000 VA	125.00%	6250 VA	CONNECTED LOAD: 5540 VA										
REC				540 VA	100.00%	540 VA	CONNECTED CURRENT: 15 A										
							DEMAND LOAD: 6790 VA										
							DEMAND CURRENT: 19 A										
							CONSIDER 125% DEMAND: 8488 A										
							EQUIPMENT AMPS: 100 A										
							FEEDER AVAILABLE:										
							SPARE CAPACITY: 81 %										
							81 A										
<b>OPTIONS:</b>																	
CIRCUIT BREAKER OPTIONS SUFFIX: 'S' OR 'ST' - PROVIDE SHUNT TRIP CIRCUIT BREAKER / 'G' OR 'GFCI' - PROVIDE GFCI CIRCUIT BREAKER / 'GFP' - PROVIDE GFP CIRCUIT BREAKER / 'ERMS' - ENERGY REDUCING MAINTENANCE SWITCH / 'ZSI' - ZONE SELECTIVE INTERLOCKING / 'L' - PROVIDE CIRCUIT BREAKER WITH LOCKING PROVISIONS / 'R' - PROVIDE CIRCUIT BREAKER WITH RED MARKING																	
<b>GENERAL REMARKS:</b>																	
A. PANEL AIC (INTERRUPTING) RATING SHALL BE MINIMUM 120% OF THE AVAILABLE SCC (SHORT CIRCUIT CURRENT).																	
B. BUS B PANEL.																	
C. WHERE NEW PANELS ARE SHOWN AT TELECOM PLYWOOD LOCATIONS, MOUNT PANELS TO PLYWOOD.																	

PANEL: 135-TR-EM-B																	
LOCATION: TR B-08A				VOLTS: 208/120 WYE				MAINS TYPE: MCB									
SUPPLY FROM: 135-DP-E1				PHASES: 3				MCB/MLO RATING: 100 A									
BRANCH: EMERGENCY				WIRES: 4				MCB OPTIONS:									
SERVICE RATED: No				INTEGRAL SPD: Yes				SECTIONS: 1									
MOUNTING: SURFACE				AVAILABLE SCC (KA): 10				PANEL POLES: 24									
NEMA ENCLOSURE: NEMA 1																	
CKT	CIRCUIT DESCRIPTION	OPT	RATING	POLES	A	B	C	POLES/RATING	OPT	CIRCUIT DESCRIPTION	CKT						
1					1667 VA	720 VA		1	20 A	REC - TR 08A	2						
3	REC - IT RACK TR-B-08A		20 A	3				1	20 A		4						
5								1	20 A		6						
7	SSCU-B-08A/SSAH-B-08A		30 A	2	1665 VA	0 VA		1	20 A		8						
9	SPARE		20 A	1			0 VA	0 VA	1	20 A	10						
11	SPARE		20 A	1			0 VA	0 VA	1	20 A	12						
13	SPARE		20 A	1	0 VA	0 VA		1	20 A		14						
15	SPARE		20 A	1			0 VA	0 VA	1	20 A	16						
17	SPACE		--	1	--	--	--	--	1	--	18						
19	SPACE		--	1	--	--	--	--	1	--	20						
21	SPACE		--	1	--	--	--	--	1	--	22						
23	SPACE		--	1	--	--	--	--	1	--	24						
TOTAL LOAD:					4052 VA	3398 VA	1667 VA										
TOTAL AMPS:					36 A	31 A	14 A										
LOAD CLASSIFICATION				CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS										
LTG				66 VA	125.00%	83 VA	CONNECTED LOAD: 9116 VA										
PWR-C				5000 VA	125.00%	6250 VA	CONNECTED CURRENT: 25 A										
REC				720 VA	100.00%	720 VA	DEMAND LOAD: 11215 VA										
MEQ-C				3330 VA	125.00%	4163 VA	DEMAND CURRENT: 31 A										
							CONSIDER 125% DEMAND: 14019 A										
							EQUIPMENT AMPS: 100 A										
							FEEDER AVAILABLE:										
							SPARE CAPACITY: 68 %										
							69 A										
<b>OPTIONS:</b>																	
CIRCUIT BREAKER OPTIONS SUFFIX: 'S' OR 'ST' - PROVIDE SHUNT TRIP CIRCUIT BREAKER / 'G' OR 'GFCI' - PROVIDE GFCI CIRCUIT BREAKER / 'GFP' - PROVIDE GFP CIRCUIT BREAKER / 'ERMS' - ENERGY REDUCING MAINTENANCE SWITCH / 'ZSI' - ZONE SELECTIVE INTERLOCKING / 'L' - PROVIDE CIRCUIT BREAKER WITH LOCKING PROVISIONS / 'R' - PROVIDE CIRCUIT BREAKER WITH RED MARKING																	
<b>GENERAL REMARKS:</b>																	
A. PANEL AIC (INTERRUPTING) RATING SHALL BE MINIMUM 120% OF THE AVAILABLE SCC (SHORT CIRCUIT CURRENT).																	
B. BUS A PANEL.																	
C. WHERE NEW PANELS ARE SHOWN AT TELECOM PLYWOOD LOCATIONS, MOUNT PANELS TO PLYWOOD.																	



**OVERALL FLOOR PLAN BASEMENT LEVEL - ELECTRICAL**  
 1  
 3/32" = 1'-0"



**DEMOLITION FLOOR PLAN BASEMENT LEVEL - ELECTRICAL**  
 2  
 1/4" = 1'-0"

**NEW FLOOR PLAN BASEMENT LEVEL - ELECTRICAL**  
 3  
 1/4" = 1'-0"

**BUILDING 135 - ELECTRICAL ONE-LINE**  
 4  
 NO SCALE

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 VA Form 08-6231

<b>CONSULTANT</b>  WileyWilson 127 Nationwide Drive Lynchburg, VA 24502 Phone: 434.947.1901 www.wileywilson.com		<b>ARCHITECT/ENGINEER OF RECORD</b>  Atriax, pllc 102 3rd Avenue, NE PO Box 1629, Hickory, NC 28603 Phone: 828.315.9962 Fax: 828.315.9964 NC Engineering License No.: P-0214 NC Architectural License No.: 51254		<b>STAMP</b>  CHARLES G. HALL ENGINEER 03/08/2024	<b>Office of Construction and Facilities Management</b>  U.S. Department of Veterans Affairs	Drawing Title <b>BUILDING 135 BASEMENT LEVEL - ELECTRICAL</b> Approved:	Phase <b>100% CONSTRUCTION DOCUMENTS</b> <b>FULLY SPRINKLERED</b>	Project Title <b>EHRM INFRASTRUCTURE UPGRADES</b> Location <b>TUSCALOOSA VAMC, TUSCALOOSA, AL.</b> Issue Date <b>03/08/2024</b>	Project Number <b>679-20-104</b> Building Number <b>135</b> Drawing Number <b>E-135.B</b>
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**SHEET NOTES:**

- REMOVE ALL EXISTING DEVICES AND WIRING BACK TO SOURCE. VISIT SITE TO DETERMINE FULL EXTENT OF DEMOLITION.
- REFER TO EQUIPMENT CONNECTION SCHEDULE.
- PROVIDE RECEPTACLE FOR BUS B. MOUNT RECEPTACLE TO CABLE TRAY ABOVE RACK.
- PROVIDE RECEPTACLE FOR BUS A. MOUNT RECEPTACLE TO CABLE TRAY ABOVE RACK.

**GENERAL NOTES:**

- REFER TO TELECOM, HVAC, AND FIRE PROTECTION DRAWINGS. COORDINATE LOCATION ON NEW LIGHTING FIXTURES, NEW ELECTRICAL PANELS, AND NEW CABLE TRAY MOUNTED RECEPTACLES WITH OTHER DISCIPLINES.

**PANEL: 135-TR-G**

LOCATION: TR C-66  
 SUPPLY FROM: 135-DP-A1  
 BRANCH: NORMAL  
 SERVICE RATED: No  
 MOUNTING: SURFACE  
 NEMA ENCLOSURE: NEMA 1

VOLTS: 208/120 WYE  
 PHASES: 3  
 WIRES: 4  
 INTEGRAL SPD: Yes  
 AVAILABLE SCC (KA): 10

MAINS TYPE: MCB  
 MCB/MLO RATING: 100 A  
 MCB OPTIONS:  
 SECTIONS: 1  
 PANEL POLES: 24

CKT	CIRCUIT DESCRIPTION	OPT	RATING	POLES	A	B	C	POLES	RATING	OPT	CIRCUIT DESCRIPTION	CKT	
1					1667 VA	540 VA					REC - TR-G-66	2	
3	REC - IT RACK TR-G-66		20 A	3								4	
5											REC - IT RACK TR-G-66	6	
7	SPARE	--	20 A	1	0 VA	1667 VA					SPARE	8	
9	SPARE	--	20 A	1		0 VA	0 VA				SPARE	10	
11	SPARE	--	20 A	1		0 VA	0 VA	0 VA	0 VA		SPARE	12	
13	SPARE	--	20 A	1	0 VA	0 VA					SPARE	14	
15	SPARE	--	20 A	1		0 VA	0 VA				SPARE	16	
17	SPARE	--	--	1							SPARE	18	
19	SPARE	--	--	1							SPARE	20	
21	SPARE	--	--	1							SPARE	22	
23	SPARE	--	--	1							SPARE	24	
<b>TOTAL LOAD:</b>					3873 VA	3333 VA	3333 VA						
<b>TOTAL AMPS:</b>					32 A	28 A	28 A						

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS
PWR-C	10000 VA	125.00%	12500 VA	CONNECTED LOAD: 10540 VA
REC	540 VA	100.00%	540 VA	CONNECTED CURRENT: 29 A
				DEMAND LOAD: 13040 VA
				DEMAND CURRENT: 36 A
				CONSIDER 125% DEMAND: 16300 A
				EQUIPMENT AMPS: 100 A
				FEEDER AVAILABLE:
				SPARE CAPACITY: 63 %
				64 %

**OPTIONS:**  
 CIRCUIT BREAKER OPTIONS SUFFIX: 'S' OR 'ST' - PROVIDE SHUNT TRIP CIRCUIT BREAKER / 'G' OR 'GFO' - PROVIDE GFCI CIRCUIT BREAKER / 'GFP' - PROVIDE GFP CIRCUIT BREAKER / 'ERMS' - ENERGY REDUCING MAINTENANCE SWITCH / 'ZSI' - ZONE SELECTIVE INTERLOCKING / 'L' - PROVIDE CIRCUIT BREAKER WITH LOCKING PROVISIONS / 'R' - PROVIDE CIRCUIT BREAKER WITH RED MARKING

**GENERAL REMARKS:**  
 A. PANEL AIC (INTERRUPTING) RATING SHALL BE MINIMUM 120% OF THE AVAILABLE SCC (SHORT CIRCUIT CURRENT).  
 B. BUS B PANEL  
 C. WHERE NEW PANELS ARE SHOWN AT TELECOM PLYWOOD LOCATIONS, MOUNT PANELS TO PLYWOOD.

**PANEL: 135-TR-EM-G**

LOCATION: TR C-66  
 SUPPLY FROM: 135-DP-E1  
 BRANCH: EMERGENCY  
 SERVICE RATED: No  
 MOUNTING: SURFACE  
 NEMA ENCLOSURE: NEMA 1

VOLTS: 208/120 WYE  
 PHASES: 3  
 WIRES: 4  
 INTEGRAL SPD: Yes  
 AVAILABLE SCC (KA): 10

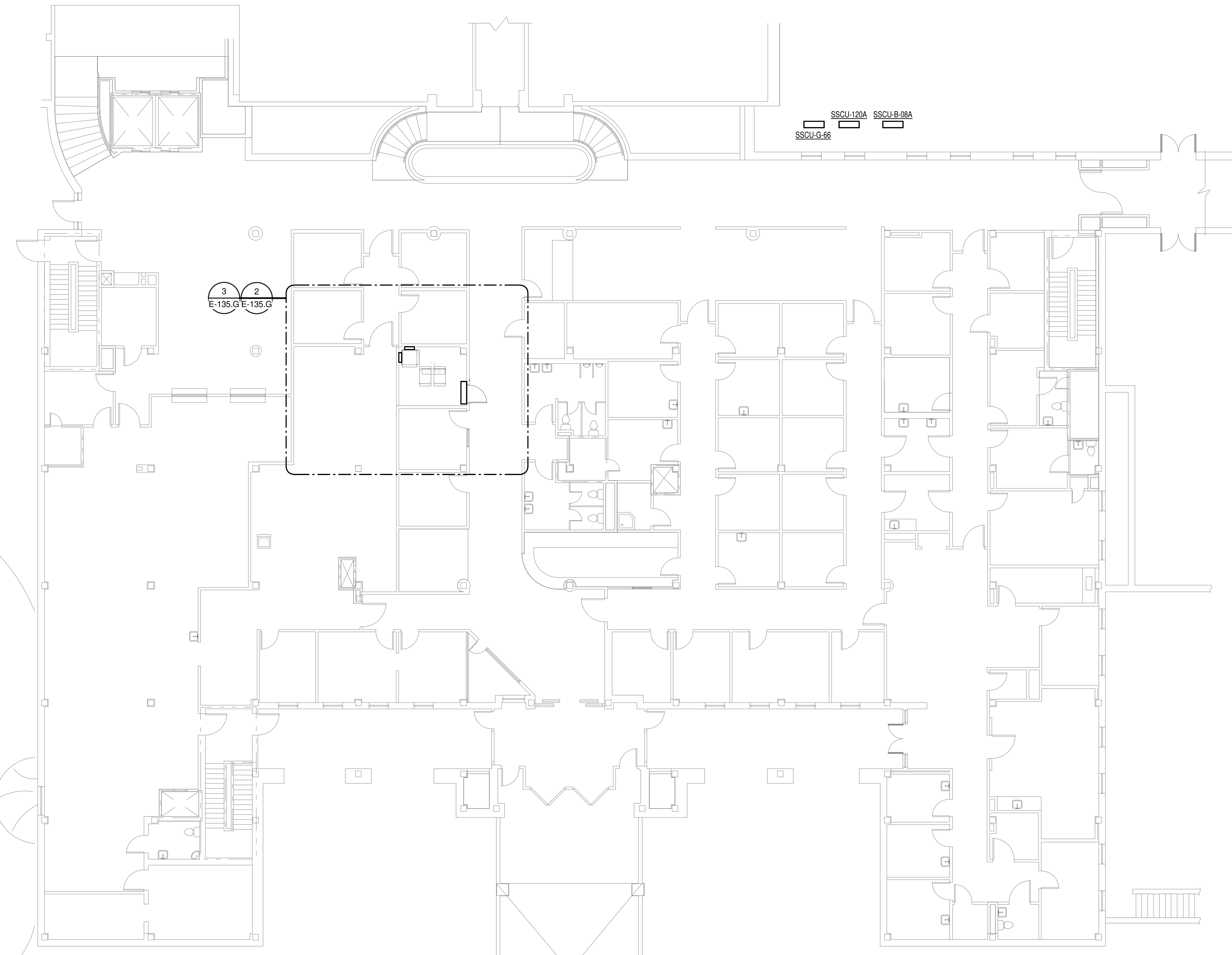
MAINS TYPE: MCB  
 MCB/MLO RATING: 100 A  
 MCB OPTIONS:  
 SECTIONS: 1  
 PANEL POLES: 24

CKT	CIRCUIT DESCRIPTION	OPT	RATING	POLES	A	B	C	POLES	RATING	OPT	CIRCUIT DESCRIPTION	CKT	
1					1667 VA	720 VA					REC - TR G66	2	
3	REC - IT RACK TR-G-66		20 A	3							LTG - TR-G-66	4	
5											REC - IT RACK TR-G-66	6	
7	SCCU-G-58/SSAH-G-58		30 A	2	1665 VA	1667 VA					REC - IT RACK TR-G-66	8	
9												10	
11	SPARE	--	20 A	1			0 VA	0 VA			SPARE	12	
13	SPARE	--	20 A	1	0 VA	0 VA					SPARE	14	
15	SPARE	--	20 A	1		0 VA	0 VA				SPARE	16	
17	SPARE	--	--	1							SPARE	18	
19	SPARE	--	--	1							SPARE	20	
21	SPARE	--	--	1							SPARE	22	
23	SPARE	--	--	1							SPARE	24	
<b>TOTAL LOAD:</b>					5718 VA	5064 VA	3333 VA						
<b>TOTAL AMPS:</b>					50 A	44 A	28 A						

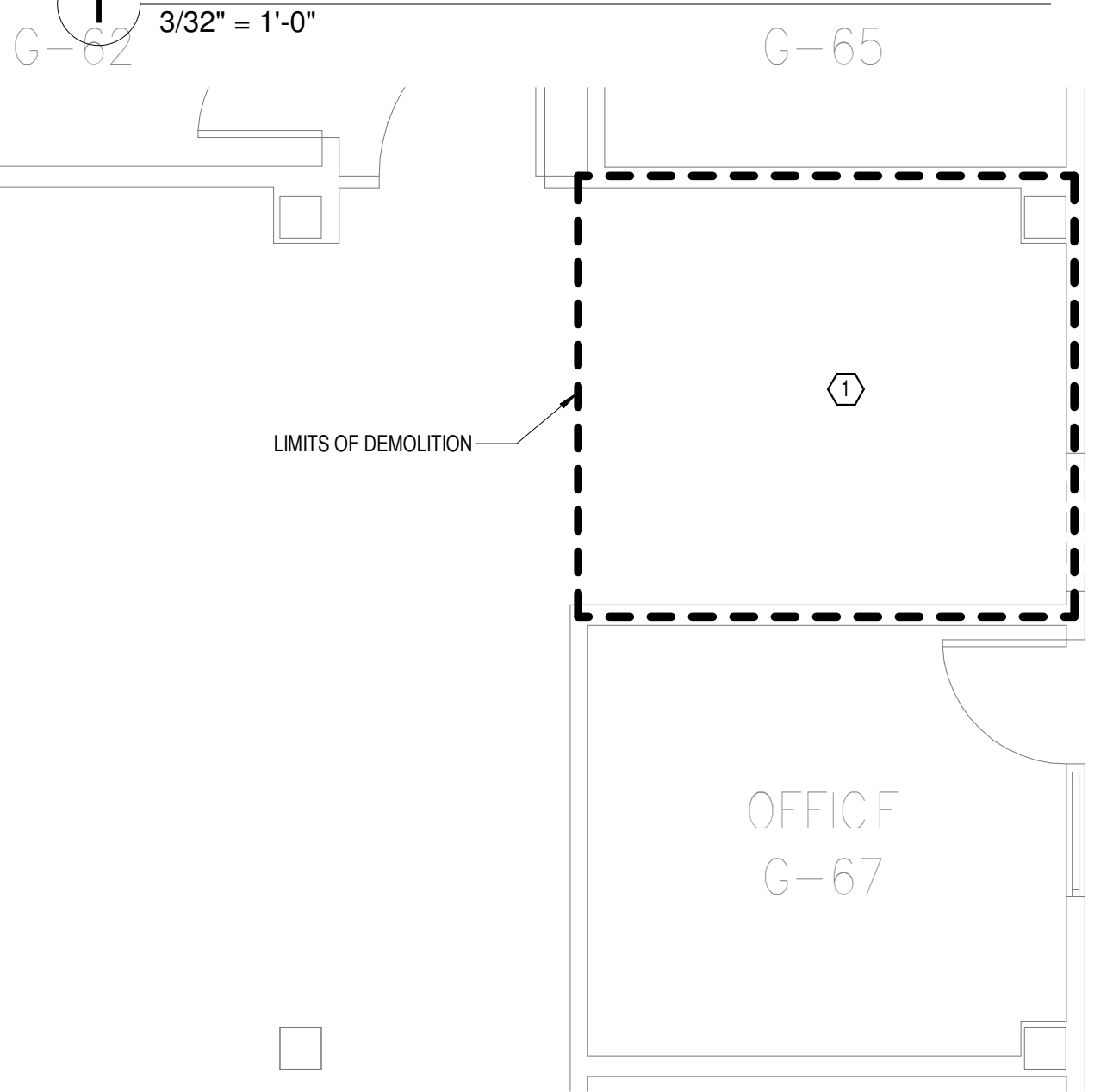
LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS
LTG	66 VA	125.00%	83 VA	CONNECTED LOAD: 14116 VA
PWR-C	10000 VA	125.00%	12500 VA	CONNECTED CURRENT: 39 A
REC	720 VA	100.00%	720 VA	DEMAND LOAD: 17465 VA
MEQ-C	3330 VA	125.00%	4163 VA	DEMAND CURRENT: 48 A
				CONSIDER 125% DEMAND: 21831 A
				EQUIPMENT AMPS: 100 A
				FEEDER AVAILABLE:
				SPARE CAPACITY: 51 %
				52 A

**OPTIONS:**  
 CIRCUIT BREAKER OPTIONS SUFFIX: 'S' OR 'ST' - PROVIDE SHUNT TRIP CIRCUIT BREAKER / 'G' OR 'GFO' - PROVIDE GFCI CIRCUIT BREAKER / 'GFP' - PROVIDE GFP CIRCUIT BREAKER / 'ERMS' - ENERGY REDUCING MAINTENANCE SWITCH / 'ZSI' - ZONE SELECTIVE INTERLOCKING / 'L' - PROVIDE CIRCUIT BREAKER WITH LOCKING PROVISIONS / 'R' - PROVIDE CIRCUIT BREAKER WITH RED MARKING

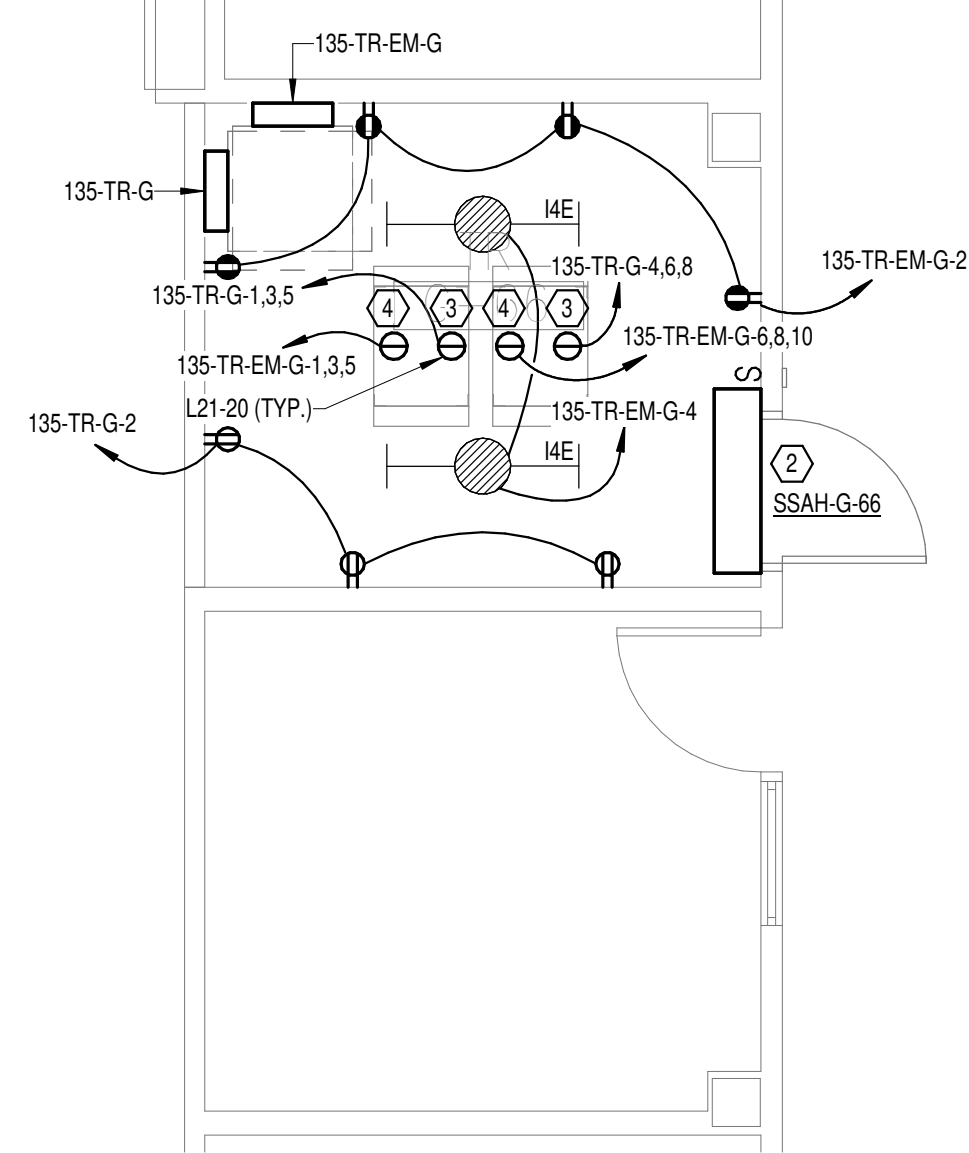
**GENERAL REMARKS:**  
 A. PANEL AIC (INTERRUPTING) RATING SHALL BE MINIMUM 120% OF THE AVAILABLE SCC (SHORT CIRCUIT CURRENT).  
 B. BUS A PANEL  
 C. WHERE NEW PANELS ARE SHOWN AT TELECOM PLYWOOD LOCATIONS, MOUNT PANELS TO PLYWOOD.



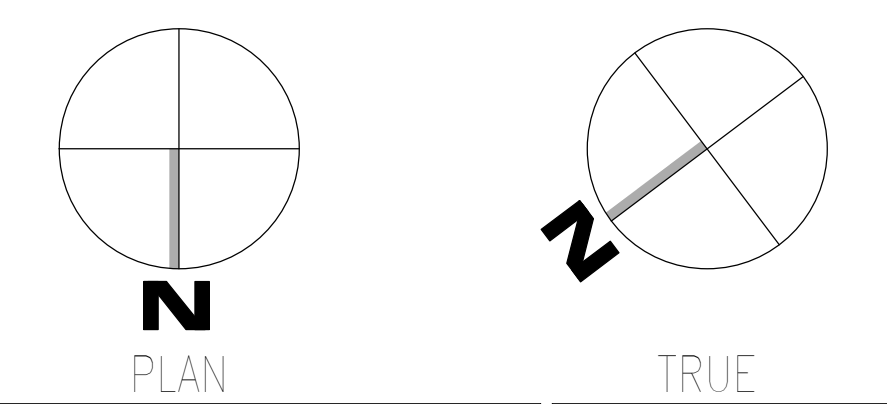
**OVERALL FLOOR PLAN  
 GROUND LEVEL -  
 ELECTRICAL**



**DEMOLITION FLOOR  
 PLAN GROUND LEVEL -  
 ELECTRICAL**



**NEW FLOOR PLAN  
 GROUND LEVEL -  
 ELECTRICAL**



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Revisions:	Date:

**CONSULTANT**

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 Phone: 434.947.1901  
 www.wileywilson.com

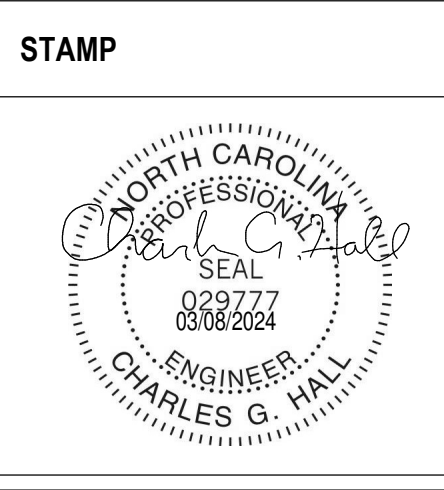
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 NC Architectural License No.: 51254



**Office of Construction and Facilities Management**

**VA** U.S. Department of Veterans Affairs

Drawing Title  
**BUILDING 135 GROUND LEVEL - ELECTRICAL**

Approved: \_\_\_\_\_

Phase  
**100% CONSTRUCTION DOCUMENTS**

**FULLY SPRINKLERED**

Project Title  
**EHRM INFRASTRUCTURE UPGRADES**

Location  
**TUSCALOOSA VAMC, TUSCALOOSA, AL.**

Issue Date  
**03/08/2024**

Checked  
**CGH**

Drawn  
**MJJ**

Project Number  
**679-20-104**

Building Number  
**135**

Drawing Number  
**E-135.G**



**SHEET NOTES:**  
 1. REMOVE ALL EXISTING DEVICES AND WIRING BACK TO SOURCE. VISIT SITE TO DETERMINE FULL EXTENT OF DEMOLITION.  
 2. REFER TO EQUIPMENT CONNECTION SCHEDULE.  
 3. PROVIDE RECEPTACLE FOR BUS B. MOUNT RECEPTACLE TO CABLE TRAY ABOVE RACK.  
 4. PROVIDE RECEPTACLE FOR BUS A. MOUNT RECEPTACLE TO CABLE TRAY ABOVE RACK.

**GENERAL NOTES:**  
 A. REFER TO TELECOM, HVAC, AND FIRE PROTECTION DRAWINGS. COORDINATE LOCATION ON NEW LIGHTING FIXTURES, NEW ELECTRICAL PANELS, AND NEW CABLE TRAY MOUNTED RECEPTACLES WITH OTHER DISCIPLINES.

**PANEL: 135-TR-1**

LOCATION: TR 120A  
 SUPPLY FROM: 135-DP-N1  
 BRANCH: NORMAL  
 SERVICE RATED: No  
 MOUNTING: SURFACE  
 NEMA ENCLOSURE: NEMA 1

VOLTS: 208/120 WYE  
 PHASES: 3  
 WIRES: 4  
 INTEGRAL SPD: Yes  
 AVAILABLE SCC (KA): 10

MAINS TYPE: MCB  
 MCB/MLO RATING: 100 A  
 MCB OPTIONS:  
 SECTIONS: 1  
 PANEL POLES: 24

CKT	CIRCUIT DESCRIPTION	OPT	RATING	POLES	A	B	C	POLES	RATING	OPT	CIRCUIT DESCRIPTION	CKT
1	REC - IT RACK TR-120A		20 A	3	1667 VA	0 VA		1	20 A	--	SPARE	2
3	REC - TR 120A		20 A	1	720 VA	0 VA		1	20 A	--	SPARE	4
5	SPARE		20 A	1		0 VA	1667 VA	0 VA	1	20 A	--	SPARE
7	SPARE		20 A	1		0 VA	0 VA	0 VA	1	20 A	--	SPARE
9	SPARE		20 A	1		0 VA	0 VA	0 VA	1	20 A	--	SPARE
11	SPARE		20 A	1		0 VA	0 VA	0 VA	1	20 A	--	SPARE
13	SPARE		20 A	1		0 VA	0 VA	0 VA	1	20 A	--	SPARE
15	SPARE		20 A	1		0 VA	0 VA	0 VA	1	20 A	--	SPARE
17	SPARE		--	--	1				1	--	SPARE	18
19	SPARE		--	--	1				1	--	SPARE	20
21	SPARE		--	--	1				1	--	SPARE	22
23	SPARE		--	--	1				1	--	SPARE	24
<b>TOTAL LOAD:</b>					2387 VA	1667 VA	1667 VA					
<b>TOTAL AMPS:</b>					20 A	14 A	14 A					

**LOAD CLASSIFICATION**

	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS
PWR-C	5000 VA	125.00%	6250 VA	CONNECTED LOAD: 5720 VA
REC	720 VA	100.00%	720 VA	CONNECTED CURRENT: 16 A
				DEMAND LOAD: 6970 VA
				DEMAND CURRENT: 19 A
				CONSIDER 125% DEMAND: 8713 A
				EQUIPMENT AMPS: 100 A
				FEEDER AVAILABLE:
				SPARE CAPACITY: 80 %
				81 A

**OPTIONS:**  
 CIRCUIT BREAKER OPTIONS SUFFIX: 'S' OR 'ST' - PROVIDE SHUNT TRIP CIRCUIT BREAKER / 'G' OR 'GFI' - PROVIDE GFCI CIRCUIT BREAKER / 'GFP' - PROVIDE GFP CIRCUIT BREAKER / 'ERMS' - ENERGY REDUCING MAINTENANCE SWITCH / 'ZSF' - ZONE SELECTIVE INTERLOCKING / 'L' - PROVIDE CIRCUIT BREAKER WITH LOCKING PROVISIONS / 'R' - PROVIDE CIRCUIT BREAKER WITH RED MARKING

**GENERAL REMARKS:**  
 A. PANEL AIC (INTERRUPTING) RATING SHALL BE MINIMUM 120% OF THE AVAILABLE SCC (SHORT CIRCUIT CURRENT).  
 B. BUS B PANEL.  
 C. WHERE NEW PANELS ARE SHOWN AT TELECOM PLYWOOD LOCATIONS, MOUNT PANELS TO PLYWOOD.

**PANEL: 135-TR-EM-1**

LOCATION: TR 120A  
 SUPPLY FROM: 135-DP-E1  
 BRANCH: EMERGENCY  
 SERVICE RATED: No  
 MOUNTING: SURFACE  
 NEMA ENCLOSURE: NEMA 1

VOLTS: 208/120 WYE  
 PHASES: 3  
 WIRES: 4  
 INTEGRAL SPD: Yes  
 AVAILABLE SCC (KA): 10

MAINS TYPE: MCB  
 MCB/MLO RATING: 100 A  
 MCB OPTIONS:  
 SECTIONS: 1  
 PANEL POLES: 24

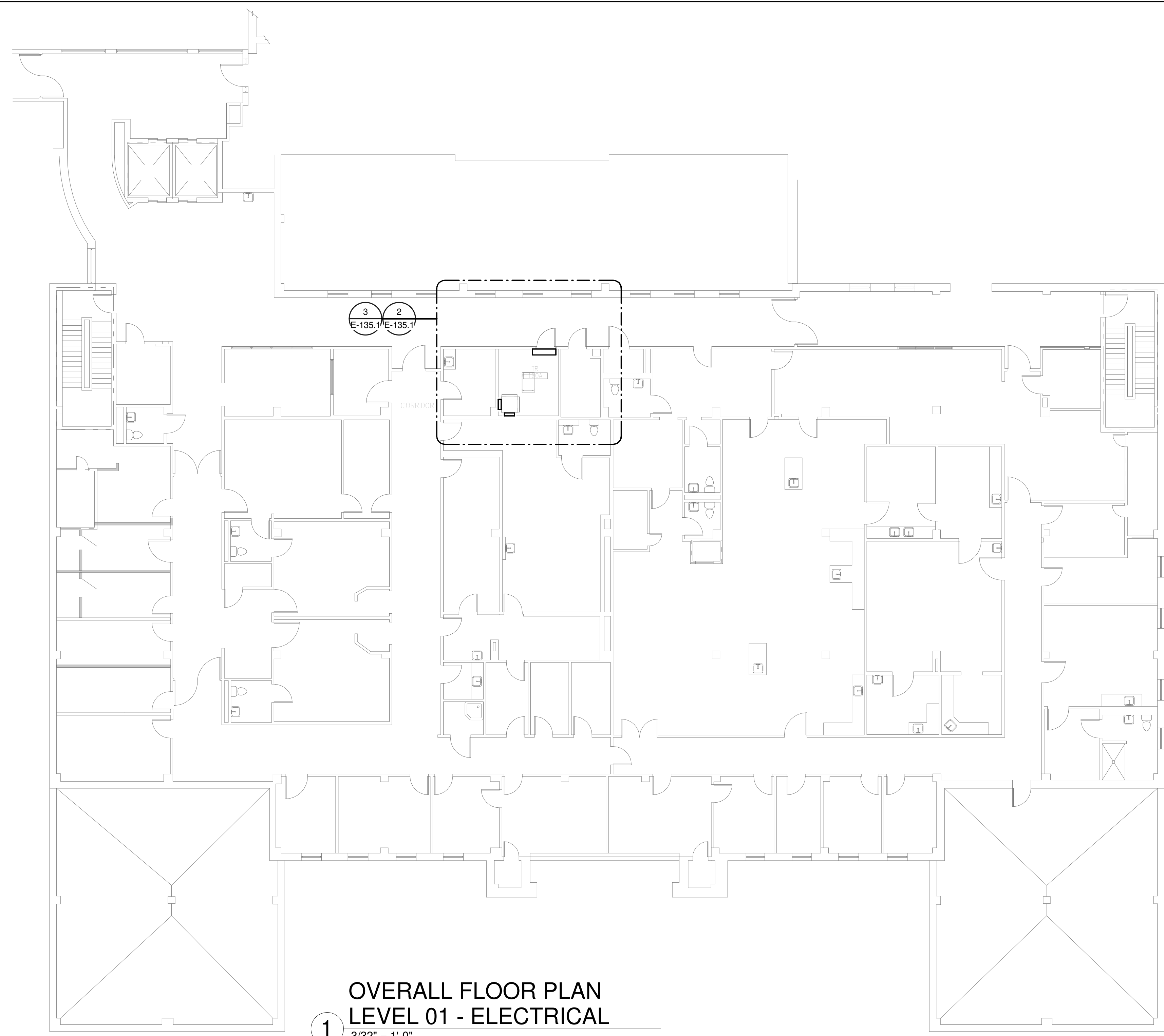
CKT	CIRCUIT DESCRIPTION	OPT	RATING	POLES	A	B	C	POLES	RATING	OPT	CIRCUIT DESCRIPTION	CKT
1	REC - IT RACK TR-120A		20 A	3	1667 VA	720 VA		1	20 A	--	REC - TR 120A	2
3	REC - TR 120A		20 A	1	1667 VA	66 VA		1	20 A	--	LTG - TR 120A	4
5	SSCU-120/SSAH-120		30 A	2	1665 VA	0 VA		1	20 A	--	SPARE	6
7	SPARE		20 A	1		1665 VA	0 VA	1	20 A	--	SPARE	8
9	SPARE		20 A	1		0 VA	0 VA	0 VA	1	20 A	--	SPARE
11	SPARE		20 A	1		0 VA	0 VA	0 VA	1	20 A	--	SPARE
13	SPARE		20 A	1		0 VA	0 VA	0 VA	1	20 A	--	SPARE
15	SPARE		20 A	1		0 VA	0 VA	0 VA	1	20 A	--	SPARE
17	SPARE		--	--	1				1	--	SPARE	16
19	SPARE		--	--	1				1	--	SPARE	18
21	SPARE		--	--	1				1	--	SPARE	20
23	SPARE		--	--	1				1	--	SPARE	22
<b>TOTAL LOAD:</b>					4052 VA	3398 VA	1667 VA					
<b>TOTAL AMPS:</b>					36 A	31 A	14 A					

**LOAD CLASSIFICATION**

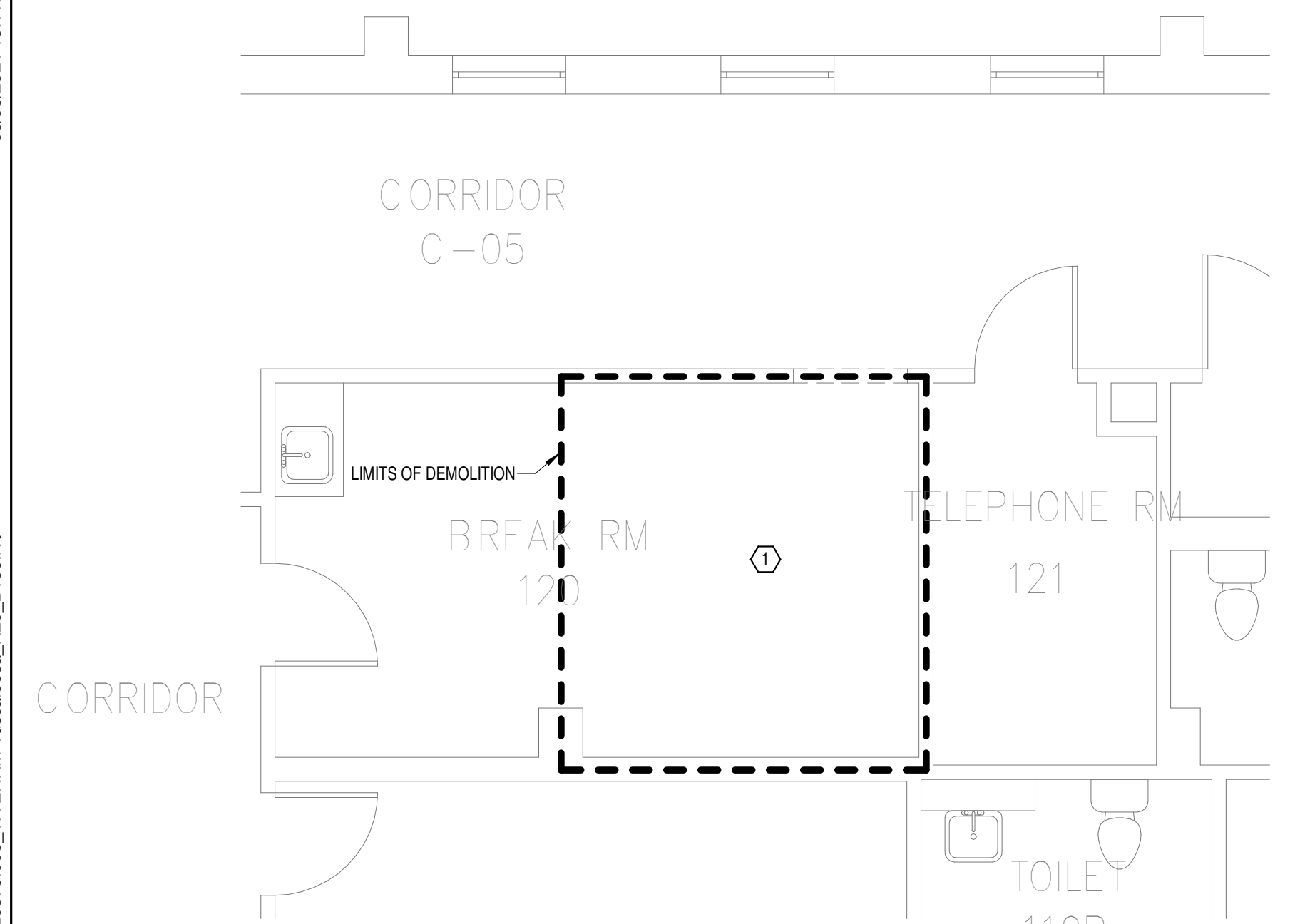
	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS
LTG	66 VA	125.00%	83 VA	CONNECTED LOAD: 9116 VA
PWR-C	5000 VA	125.00%	6250 VA	CONNECTED CURRENT: 25 A
REC	720 VA	100.00%	720 VA	DEMAND LOAD: 11215 VA
MEQ-C	3330 VA	125.00%	4163 VA	DEMAND CURRENT: 31 A
				CONSIDER 125% DEMAND: 14019 A
				EQUIPMENT AMPS: 100 A
				FEEDER AVAILABLE:
				SPARE CAPACITY: 68 %
				69 A

**OPTIONS:**  
 CIRCUIT BREAKER OPTIONS SUFFIX: 'S' OR 'ST' - PROVIDE SHUNT TRIP CIRCUIT BREAKER / 'G' OR 'GFI' - PROVIDE GFCI CIRCUIT BREAKER / 'GFP' - PROVIDE GFP CIRCUIT BREAKER / 'ERMS' - ENERGY REDUCING MAINTENANCE SWITCH / 'ZSF' - ZONE SELECTIVE INTERLOCKING / 'L' - PROVIDE CIRCUIT BREAKER WITH LOCKING PROVISIONS / 'R' - PROVIDE CIRCUIT BREAKER WITH RED MARKING

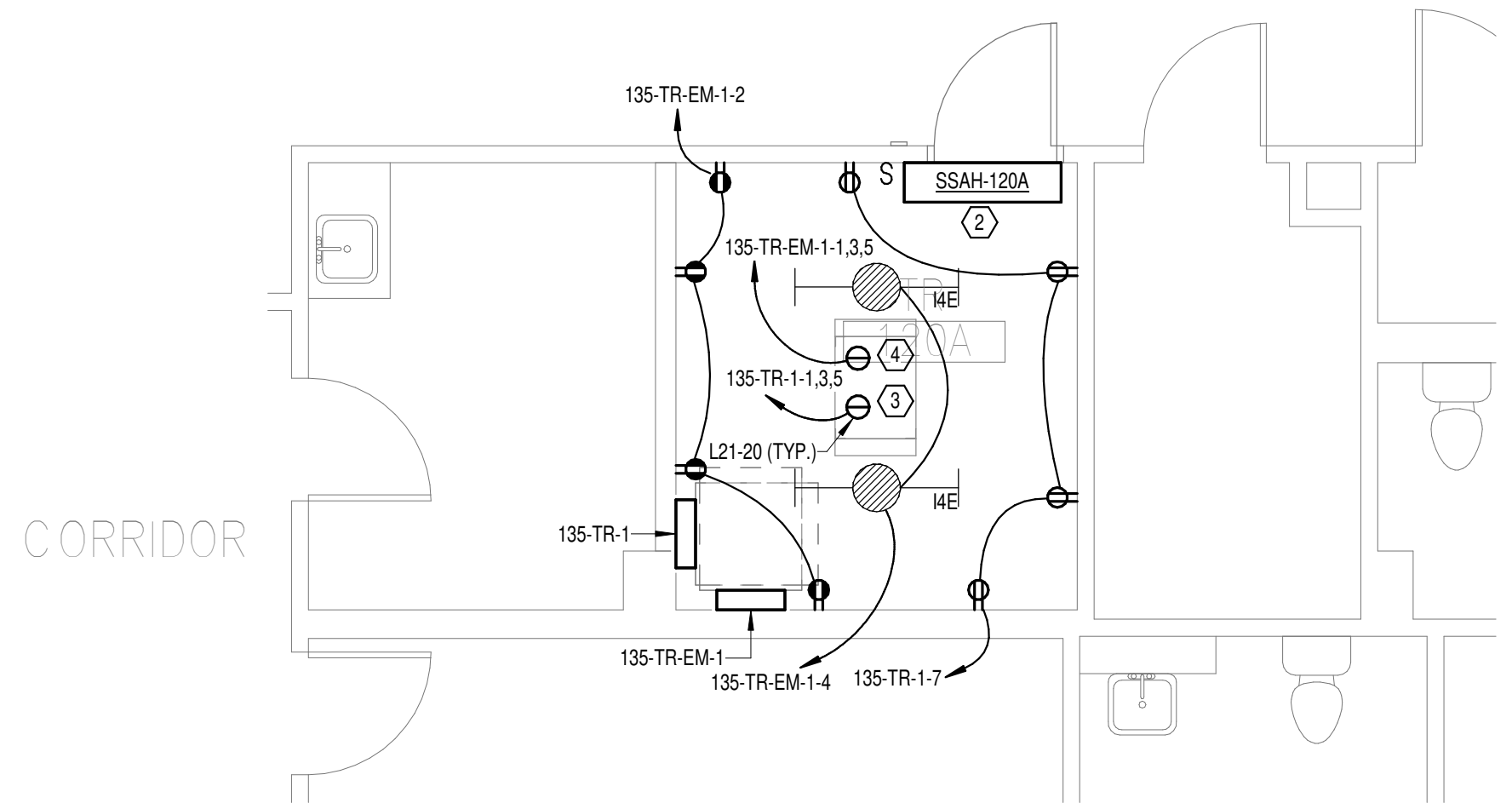
**GENERAL REMARKS:**  
 A. PANEL AIC (INTERRUPTING) RATING SHALL BE MINIMUM 120% OF THE AVAILABLE SCC (SHORT CIRCUIT CURRENT).  
 B. BUS A PANEL.  
 C. WHERE NEW PANELS ARE SHOWN AT TELECOM PLYWOOD LOCATIONS, MOUNT PANELS TO PLYWOOD.



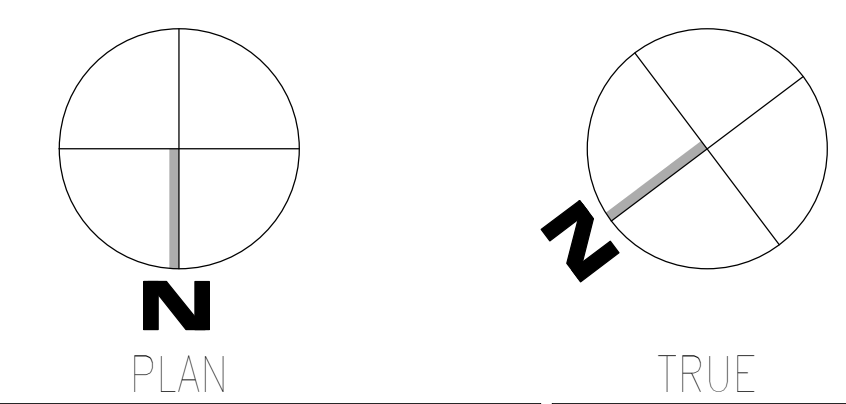
**1**  
**OVERALL FLOOR PLAN**  
**LEVEL 01 - ELECTRICAL**  
 3/32" = 1'-0"



**2**  
**DEMOLITION FLOOR PLAN**  
**LEVEL 01 - ELECTRICAL**  
 1/4" = 1'-0"



**3**  
**NEW FLOOR PLAN LEVEL**  
**01 - ELECTRICAL**  
 1/4" = 1'-0"



08/03/2024 15:11:35  
 Autodesk Docs: 202508 - VA Tuscaloosa EHRM Infrastructure Upgrades/2025-08 - VA EHRM Tuscaloosa - P00\_0135.rvt  
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Revisions:	Date:

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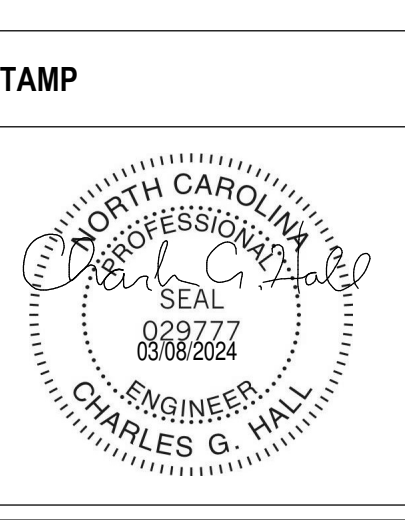
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 NC Architectural License No.: 51254



**Office of Construction and Facilities Management**

**VA** U.S. Department of Veterans Affairs

Drawing Title  
**BUILDING 135 LEVEL 01 - ELECTRICAL**

Approved: \_\_\_\_\_

Phase  
**100% CONSTRUCTION DOCUMENTS**

**FULLY SPRINKLERED**

Project Title  
**EHRM INFRASTRUCTURE UPGRADES**

Project Number  
**679-20-104**

Building Number  
**135**

Drawing Number  
**E-135.1**

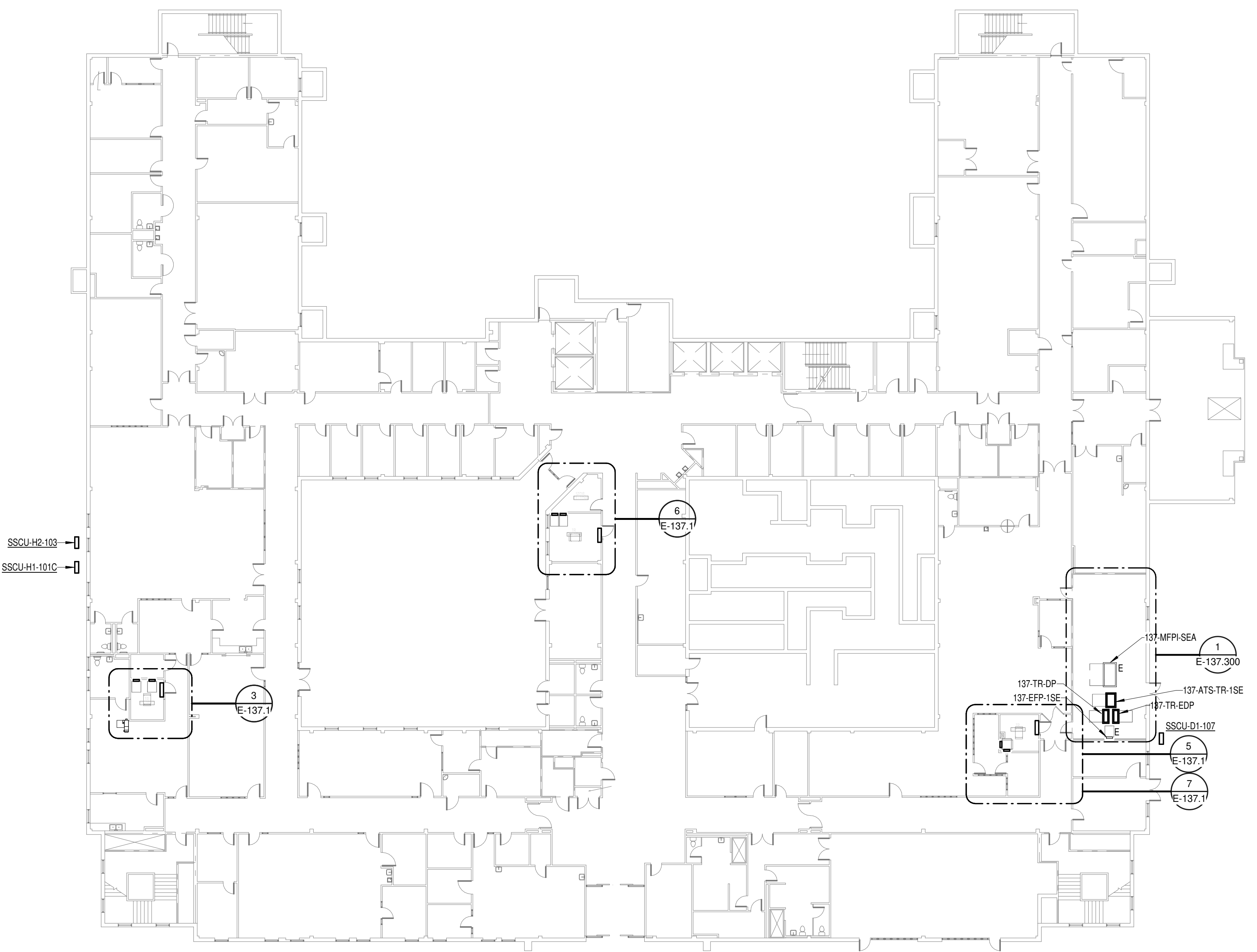
Location  
**TUSCALOOSA VAMC, TUSCALOOSA, AL.**

Issue Date  
**03/08/2024**

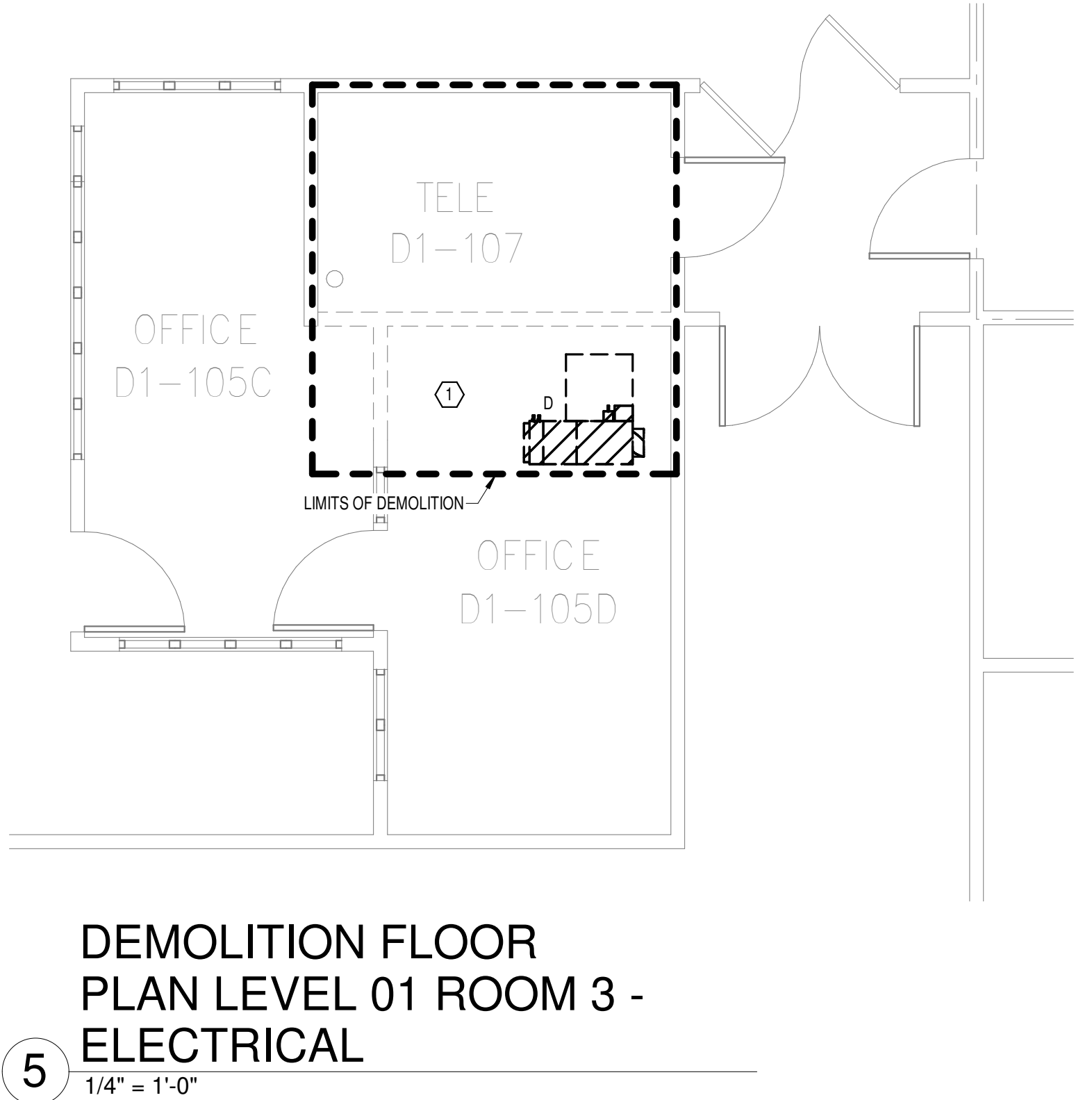
Checked  
**CGH**

Drawn  
**MJJ**

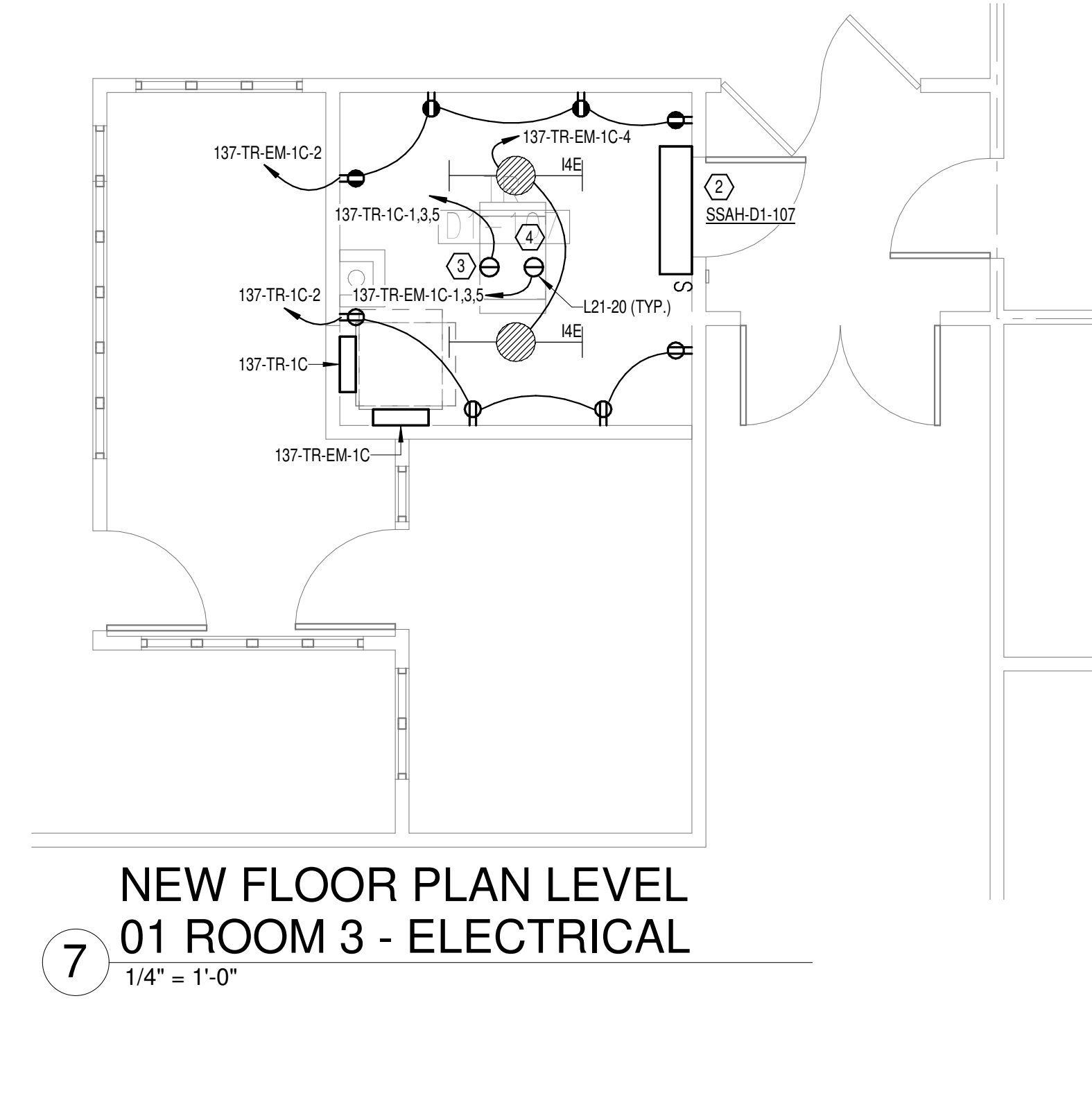
- GENERAL NOTES:**
- A. REFER TO TELECOM, HVAC, AND FIRE PROTECTION DRAWINGS. COORDINATE LOCATION ON NEW LIGHTING FIXTURES, NEW ELECTRICAL PANELS, AND NEW CABLE TRAY MOUNTED RECEPTACLES WITH OTHER DISCIPLINES.
- SHEET NOTES:**
- 1. REMOVE ALL EXISTING DEVICES AND WIRING BACK TO SOURCE. VISIT SITE TO DETERMINE FULL EXTENT OF DEMOLITION.
  - 2. REFER TO EQUIPMENT CONNECTION SCHEDULE.
  - 3. PROVIDE RECEPTACLE FOR BUS B. MOUNT RECEPTACLE TO CABLE TRAY ABOVE RACK.
  - 4. PROVIDE RECEPTACLE FOR BUS A. MOUNT RECEPTACLE TO CABLE TRAY ABOVE RACK.



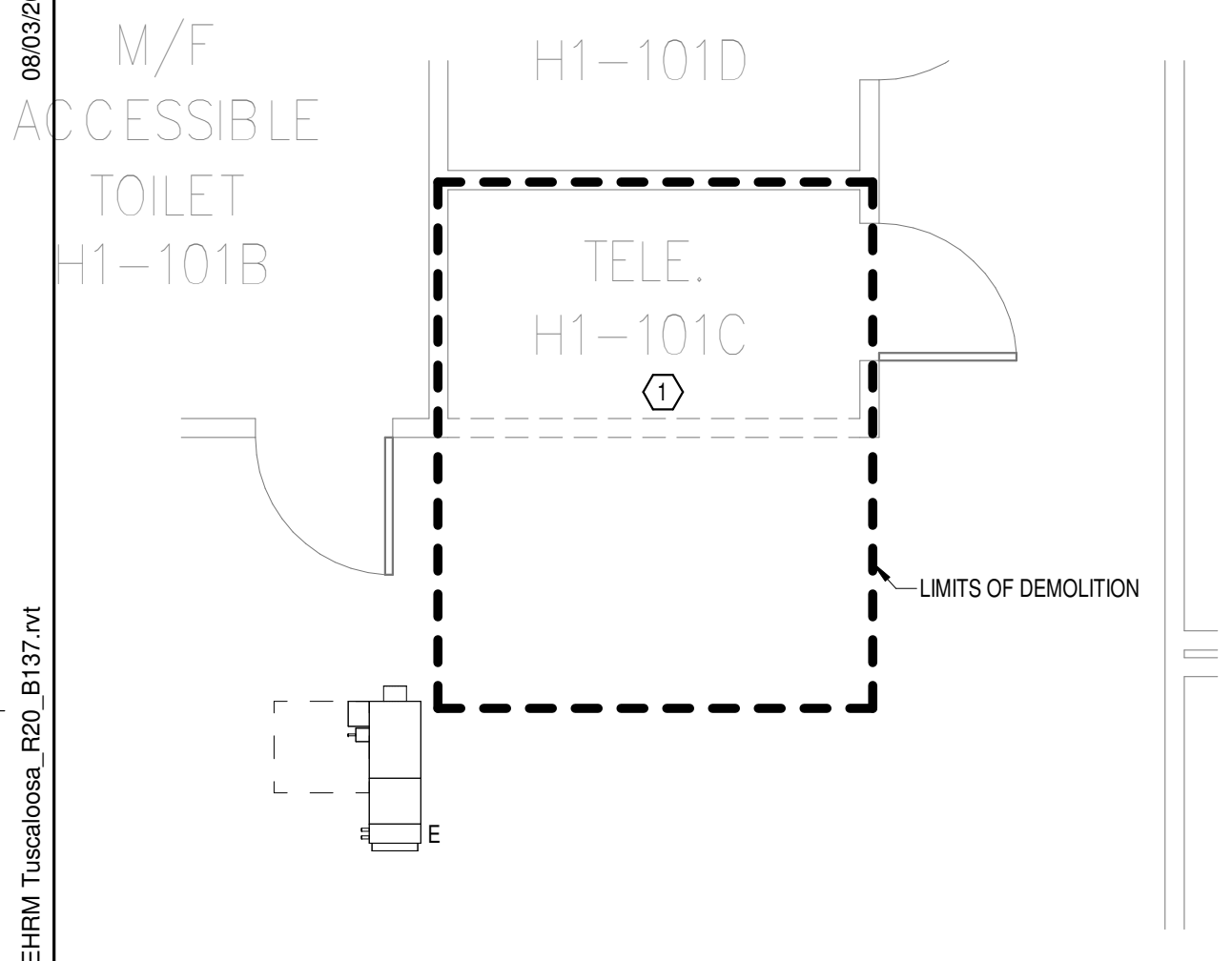
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OVERALL FLOOR PLAN  
LEVEL 01 - ELECTRICAL  
1" = 20'-0"



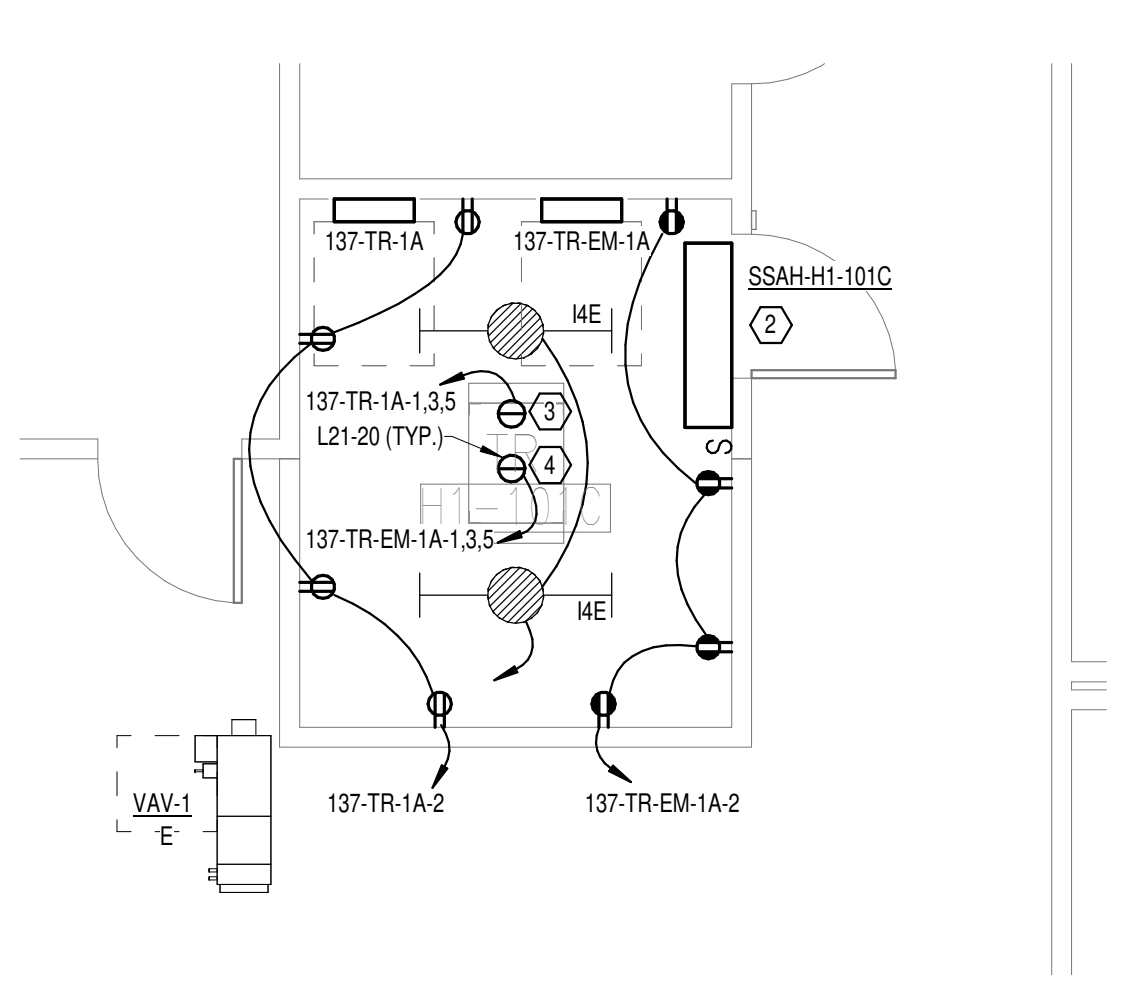
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DEMOLITION FLOOR  
PLAN LEVEL 01 ROOM 3 -  
ELECTRICAL  
1/4" = 1'-0"



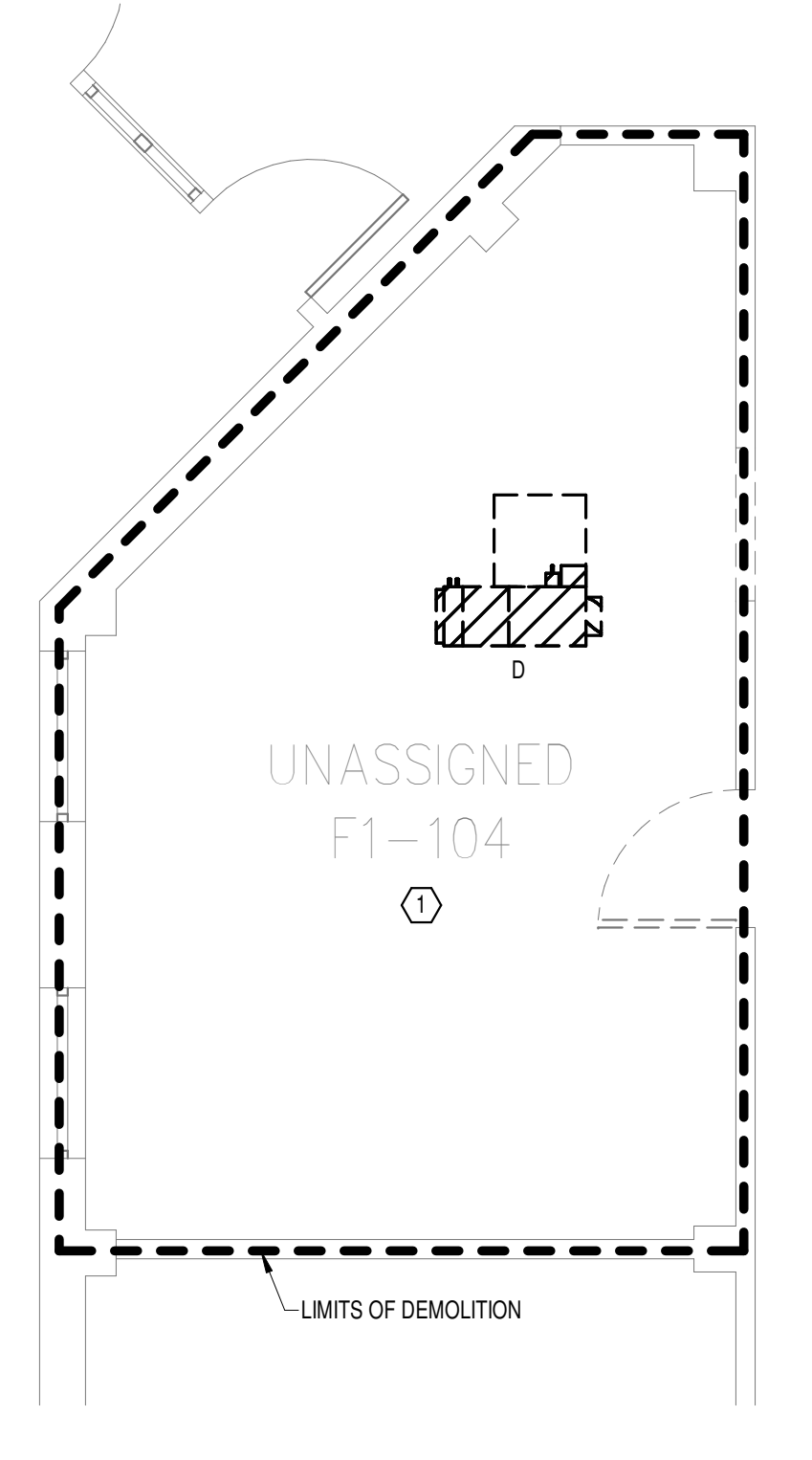
**7**  
NEW FLOOR PLAN LEVEL  
01 ROOM 3 - ELECTRICAL  
1/4" = 1'-0"



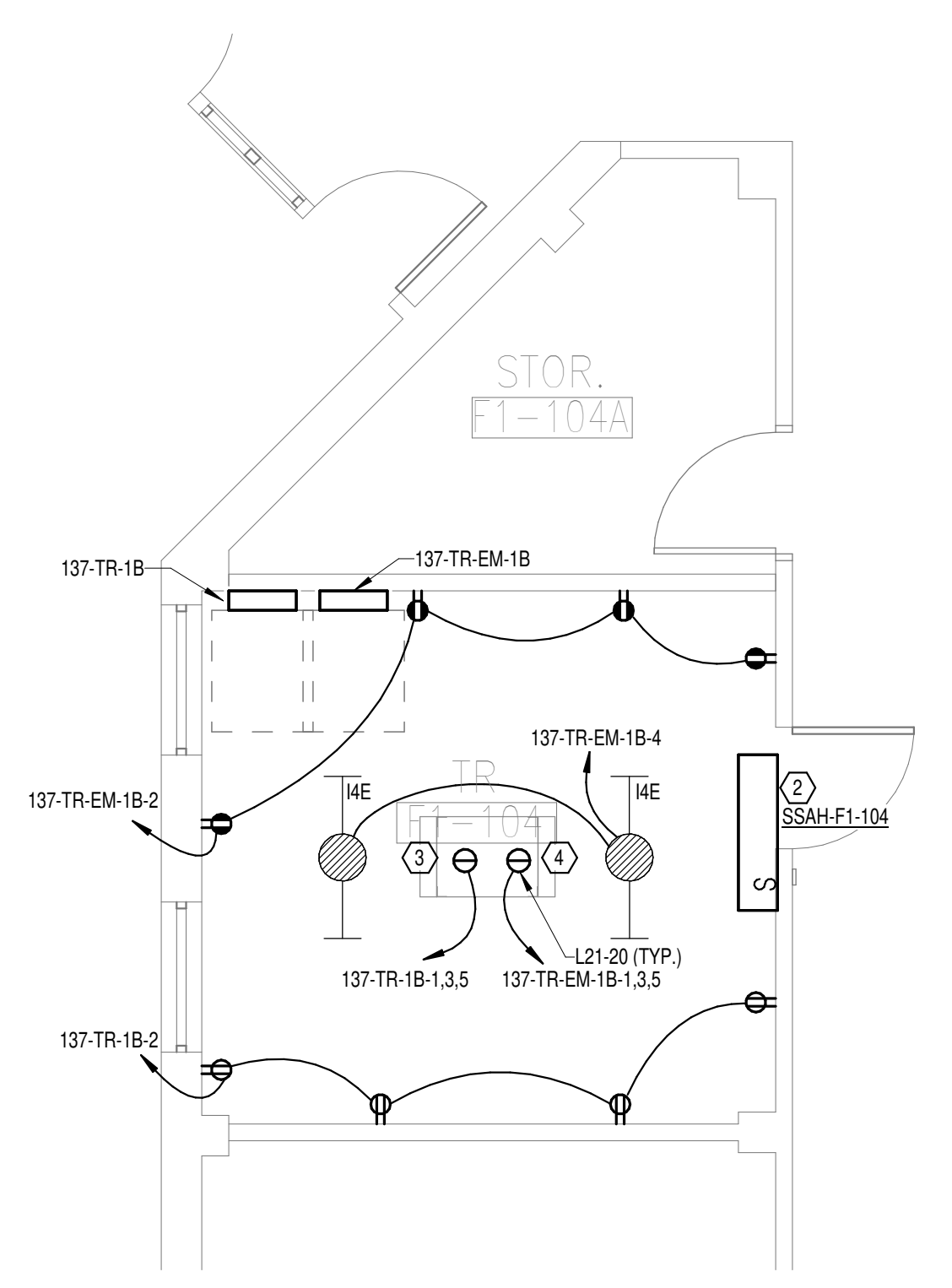
**2**  
DEMOLITION FLOOR  
PLAN LEVEL 01 ROOM 1 -  
ELECTRICAL  
1/4" = 1'-0"



**3**  
NEW FLOOR PLAN LEVEL  
01 ROOM 1 - ELECTRICAL  
1/4" = 1'-0"



**4**  
DEMOLITION FLOOR  
PLAN LEVEL 01 ROOM 2 -  
ELECTRICAL  
1/4" = 1'-0"



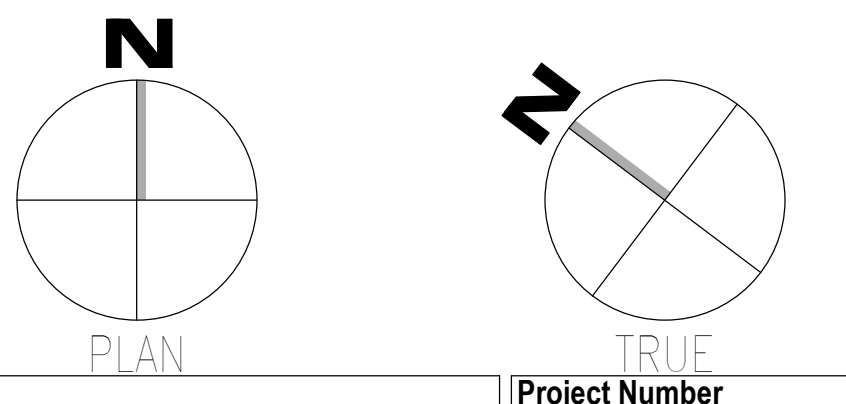
**6**  
NEW FLOOR PLAN LEVEL  
01 ROOM 2 - ELECTRICAL  
1/4" = 1'-0"



**8**  
EXISTING PANEL  
137-EFP-1SE  
NO SCALE



**9**  
EXISTING  
SWITCHBOARD  
137-MPFI-SEA  
NO SCALE



Autodesk: 202075.008 - VA Tuscaloosa EHRM Infrastructure Upgrades 202075.008 - VA EHRM Tuscaloosa RFD\_0137.rvt  
 08/03/2024 14:54:48  
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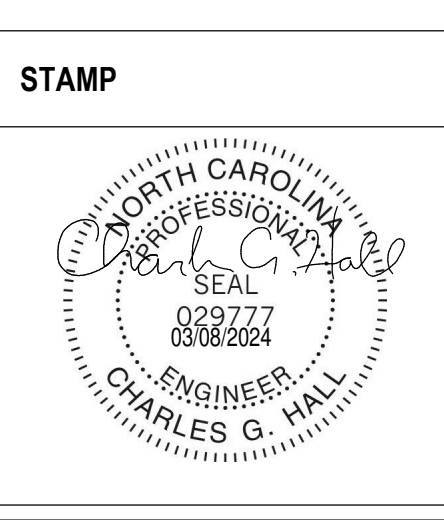
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**VA** U.S. Department of Veterans Affairs

Drawing Title  
**BUILDING 137 LEVEL 01 - ELECTRICAL**

Approved: \_\_\_\_\_

Phase  
**100% CONSTRUCTION DOCUMENTS**

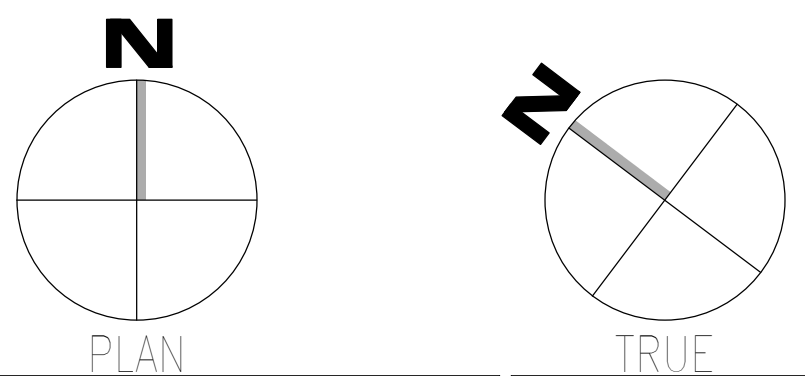
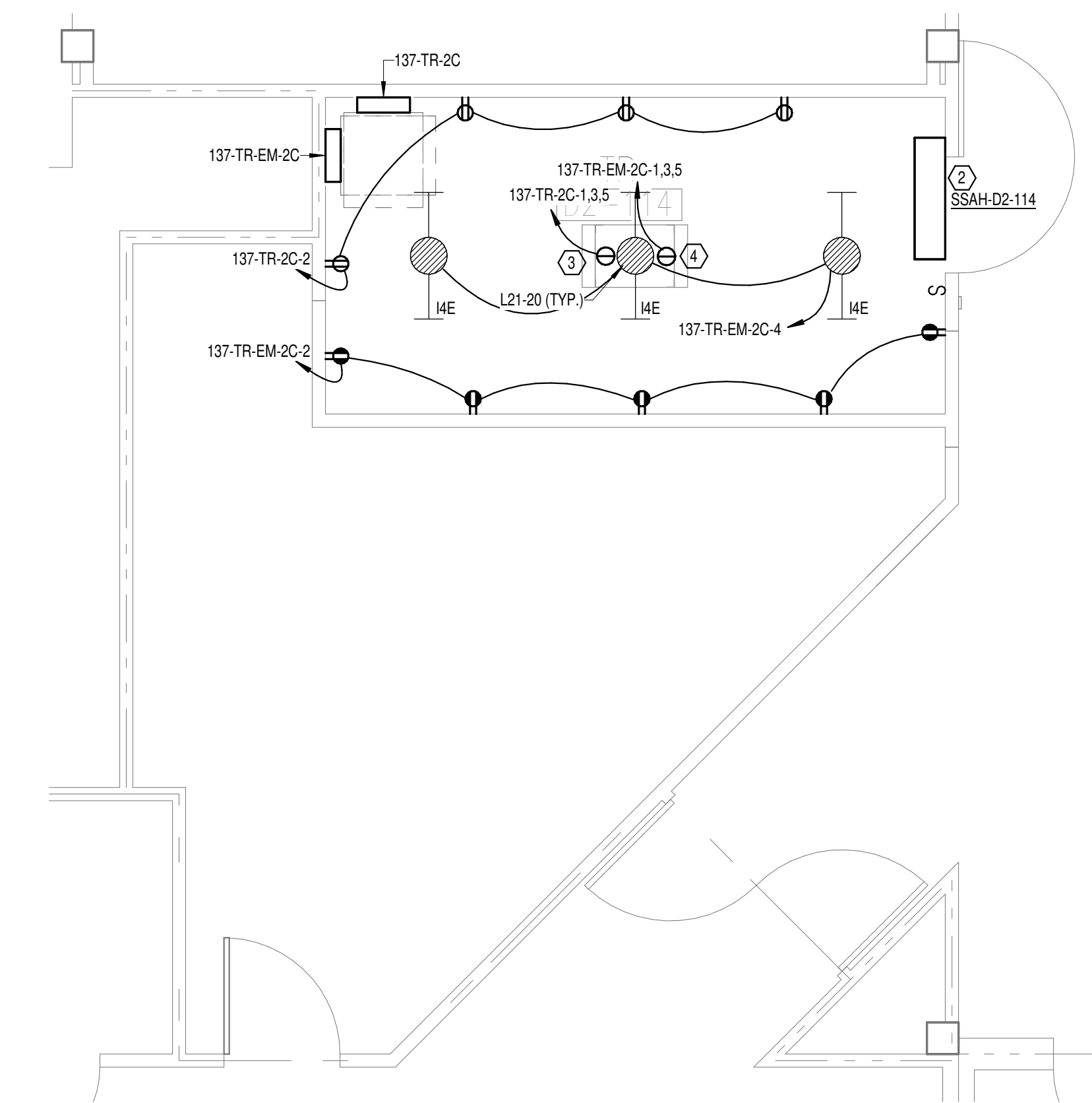
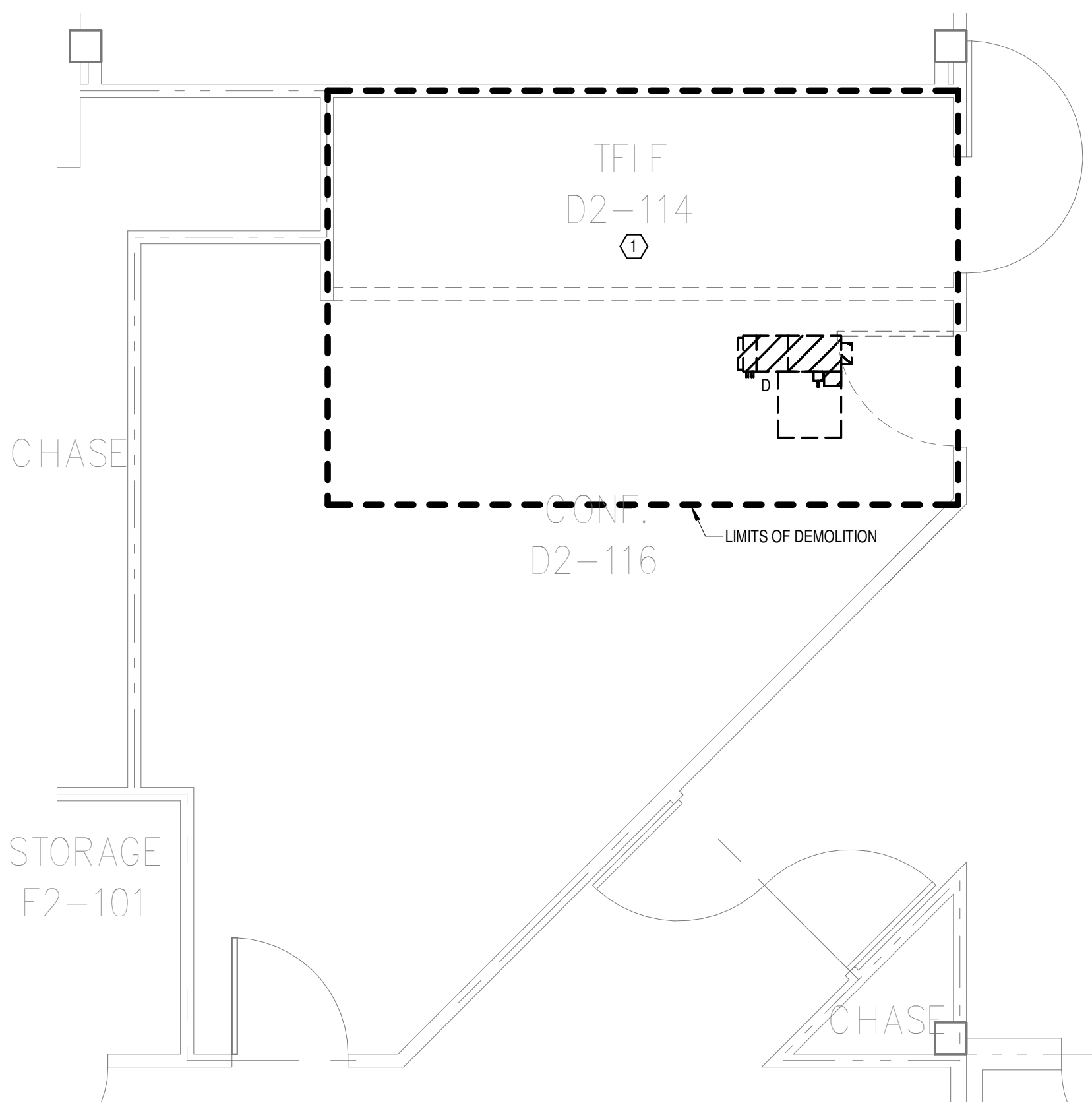
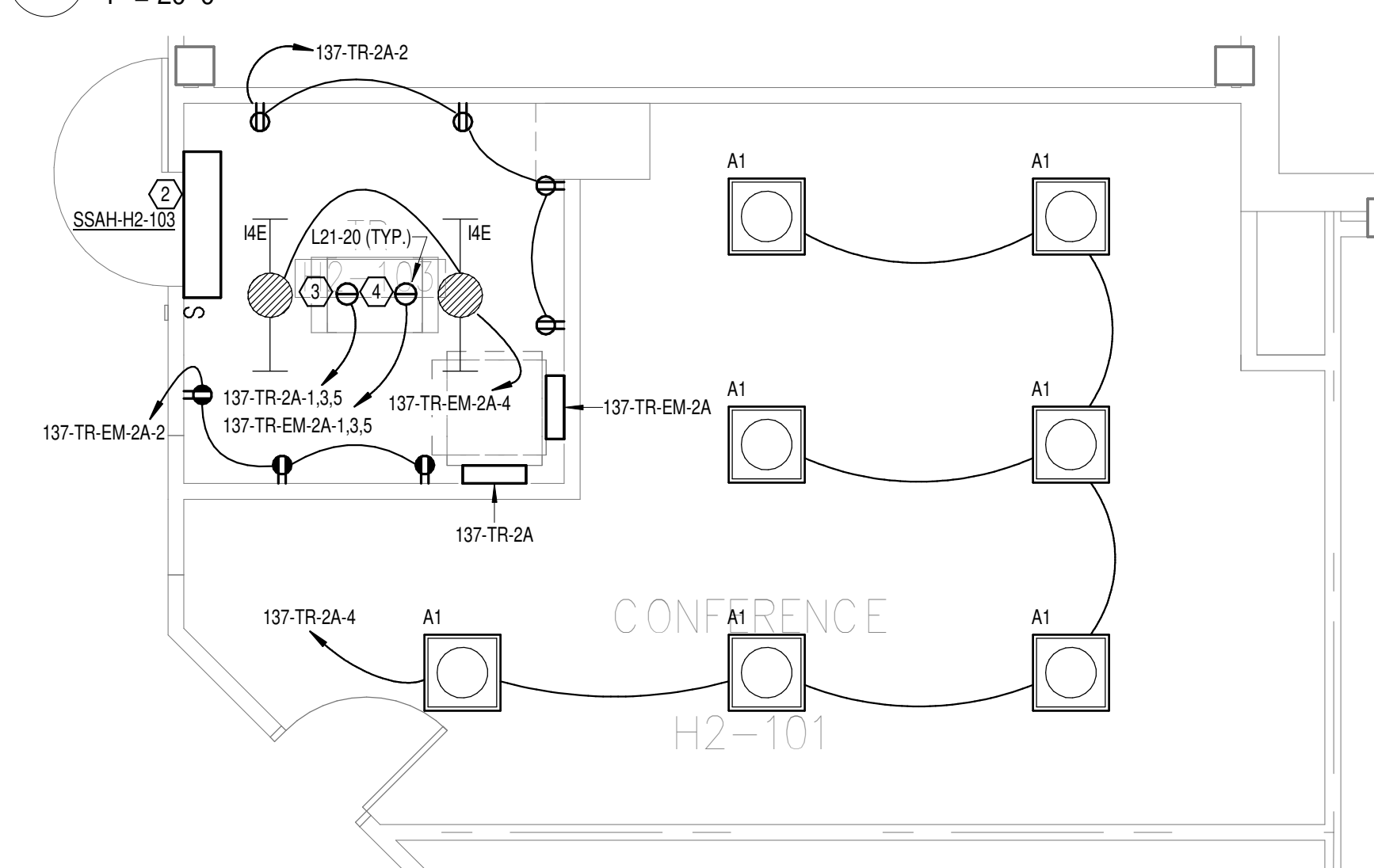
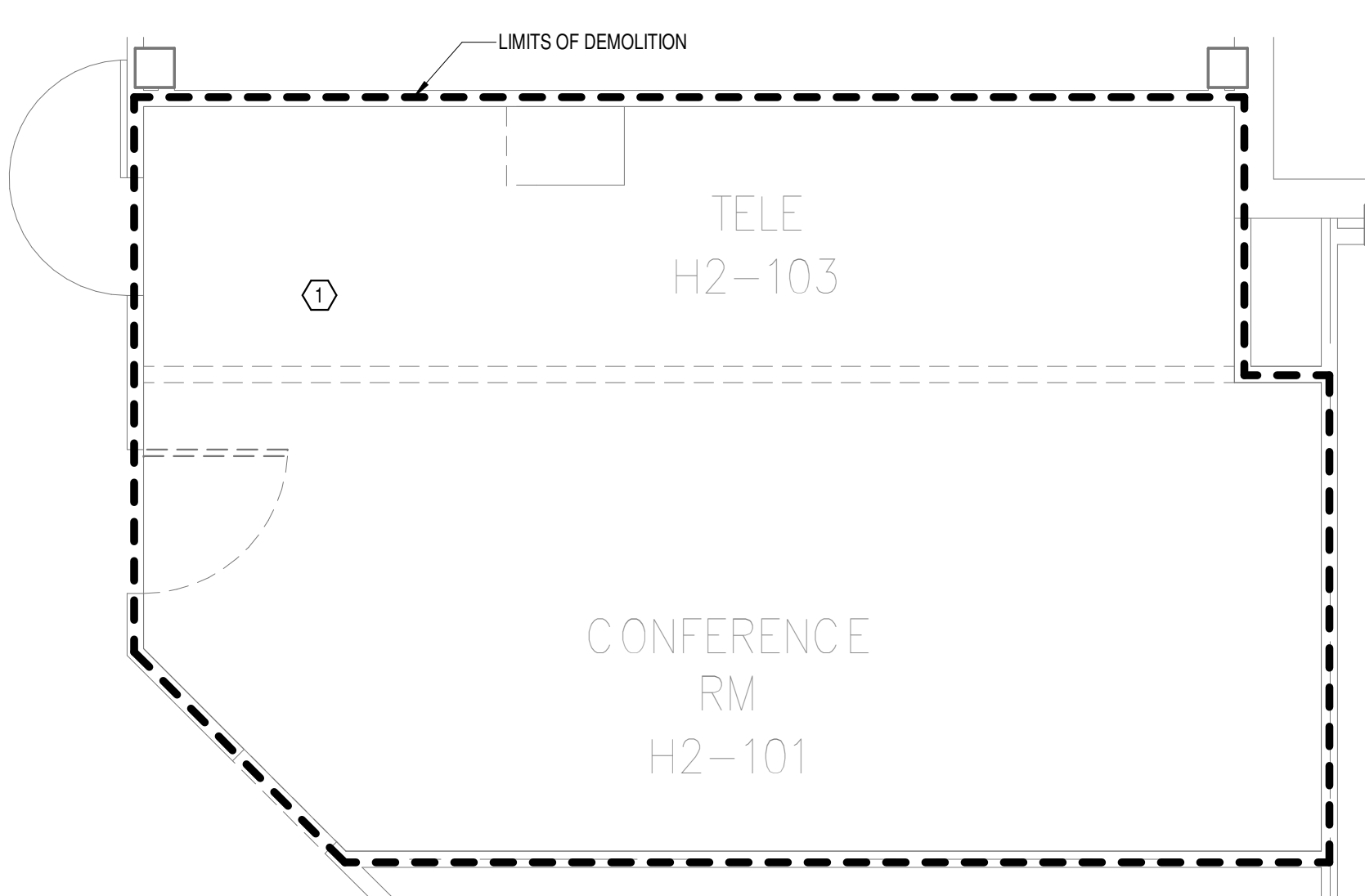
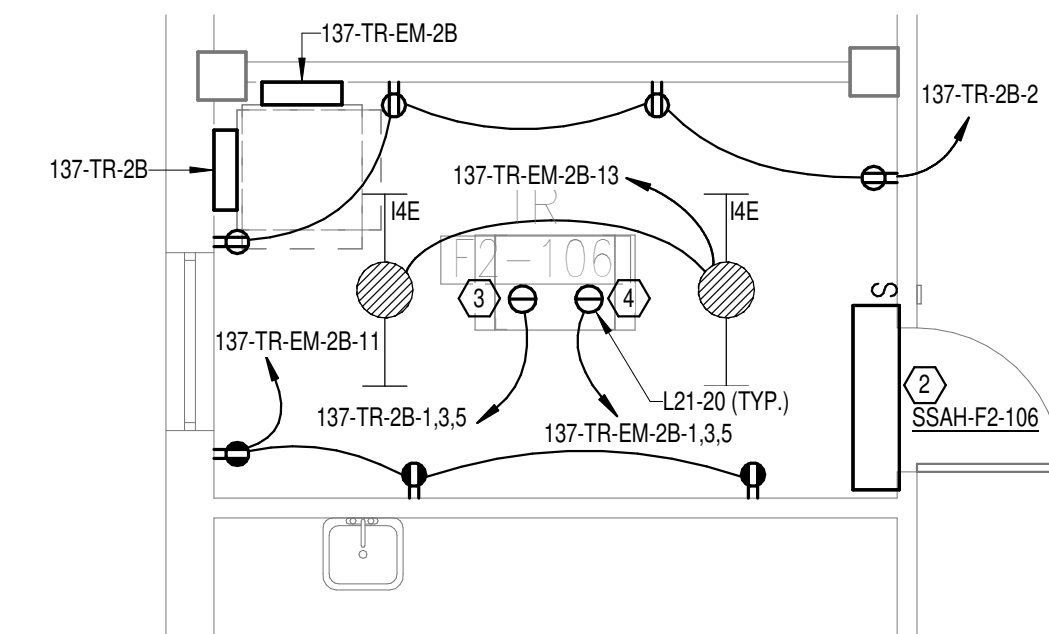
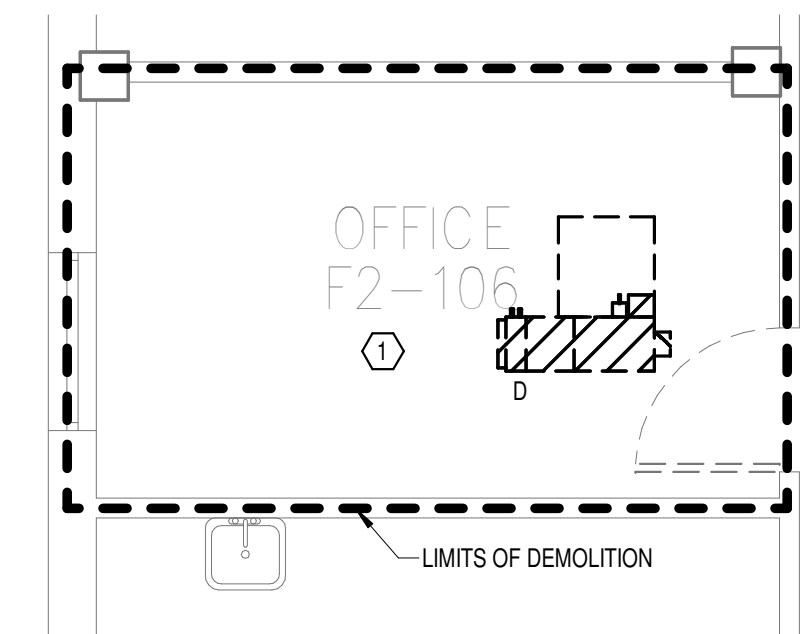
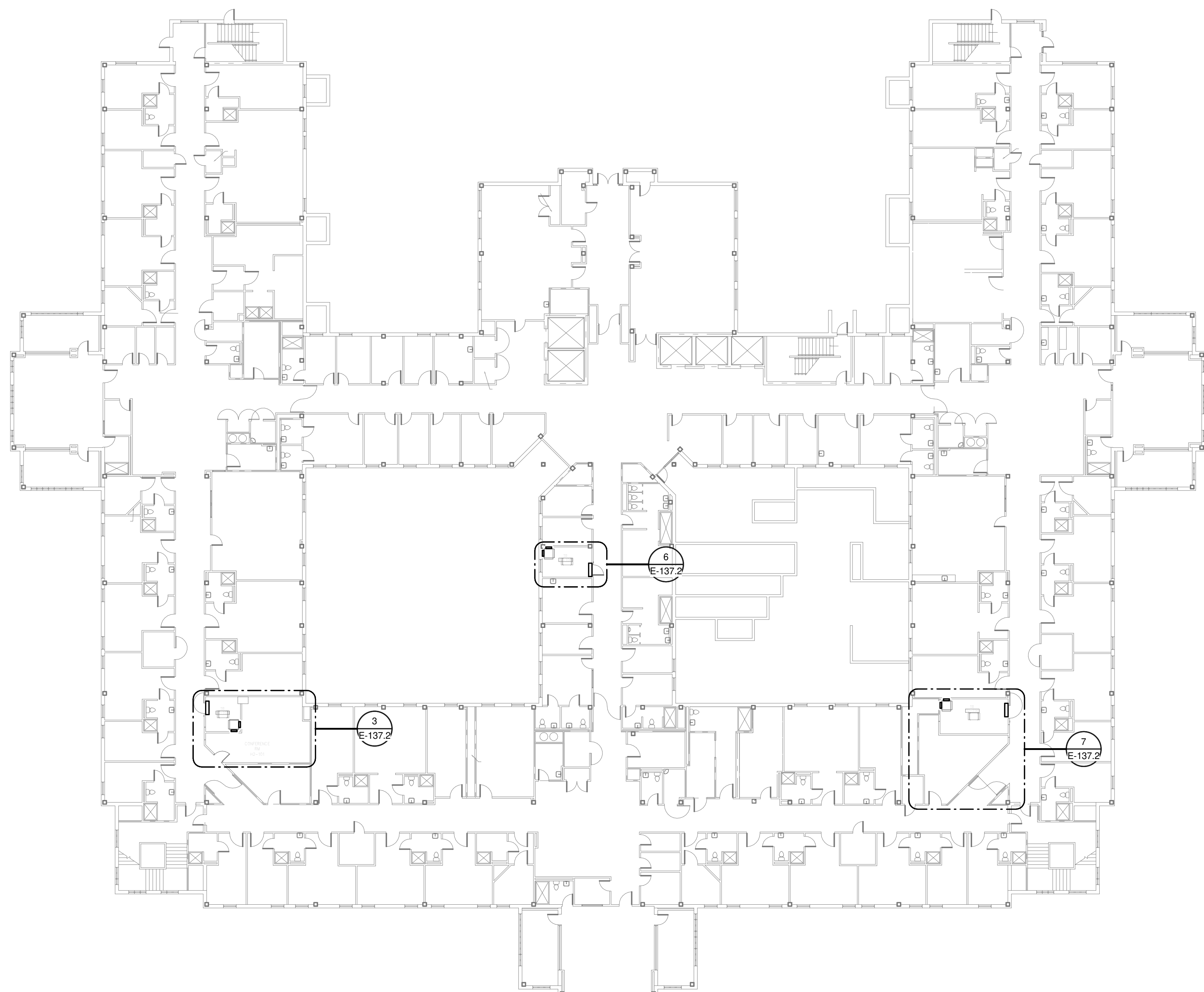
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Project Title EHRM INFRASTRUCTURE UPGRADES	Project Number 679-20-104
Location TUSCALOOSA VAMC, TUSCALOOSA, AL.	Building Number 137
Issue Date 03/08/2024	Checked CGH
Drawn MJJ	Drawing Number E-137.1

**GENERAL NOTES:**  
 A. REFER TO TELECOM, HVAC, AND FIRE PROTECTION DRAWINGS. COORDINATE LOCATION ON NEW LIGHTING FIXTURES, NEW ELECTRICAL PANELS, AND NEW CABLE TRAY MOUNTED RECEPTACLES WITH OTHER DISCIPLINES.

**SHEET NOTES:**

- REMOVE ALL EXISTING DEVICES AND WIRING BACK TO SOURCE. VISIT SITE TO DETERMINE FULL EXTENT OF DEMOLITION.
- REFER TO EQUIPMENT CONNECTION SCHEDULE.
- PROVIDE RECEPTACLE FOR BUS B. MOUNT RECEPTACLE TO CABLE TRAY ABOVE RACK.
- PROVIDE RECEPTACLE FOR BUS A. MOUNT RECEPTACLE TO CABLE TRAY ABOVE RACK.



08/03/2024 14:55:44  
 Autodesk:Draw:2025:08 - VA Tuscaloosa EHRM Infrastructure Upgrades/2025:08 - VA EHRM Tuscaloosa RFD\_0137.rvt  
 VA FORM 08 - 6231

Revisions:	Date:

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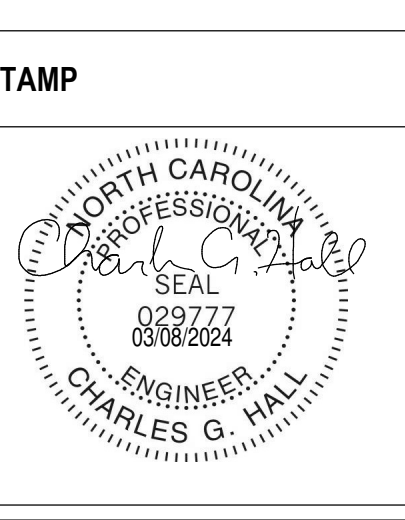
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**VA** U.S. Department of Veterans Affairs

Drawing Title  
**BUILDING 137 LEVEL 02 - ELECTRICAL**

Approved: \_\_\_\_\_

Phase  
**100% CONSTRUCTION DOCUMENTS**

**FULLY SPRINKLERED**

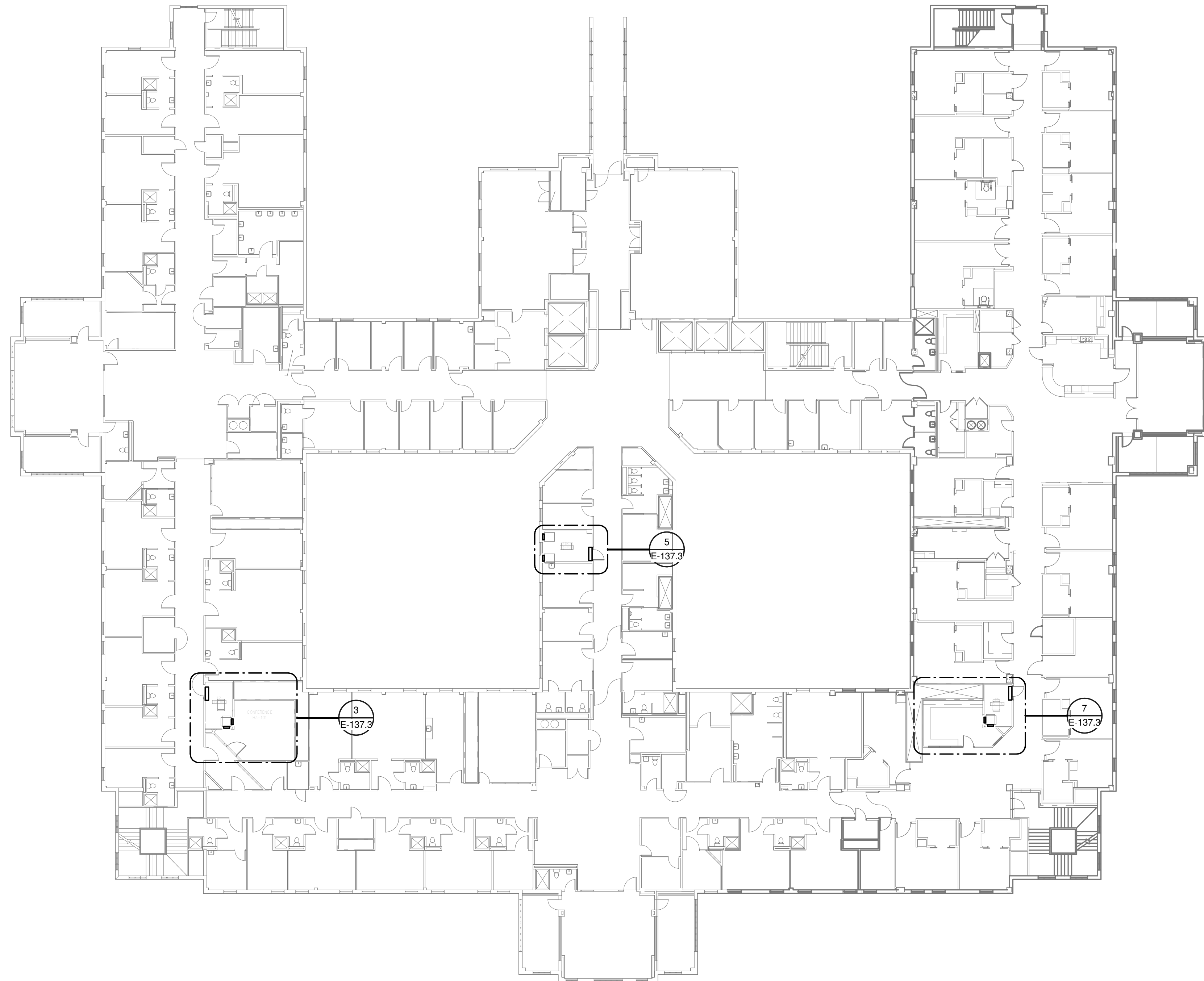
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Location TUSCALOOSA VAMC, TUSCALOOSA, AL.	Building Number 137
Issue Date 03/08/2024	Checked CGH
Drawn MJJ	Drawing Number E-137.2



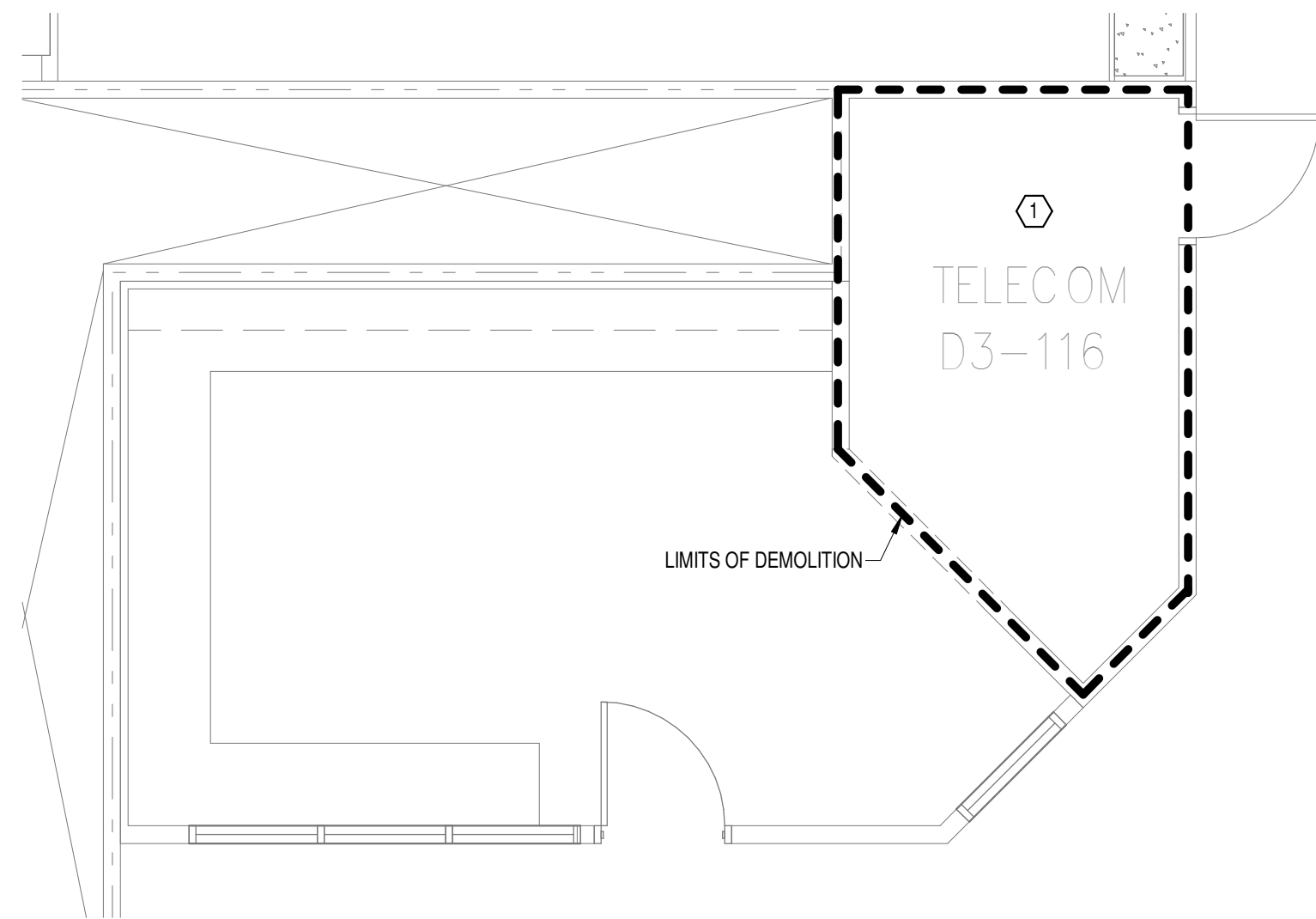
**GENERAL NOTES:**  
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**SHEET NOTES:**

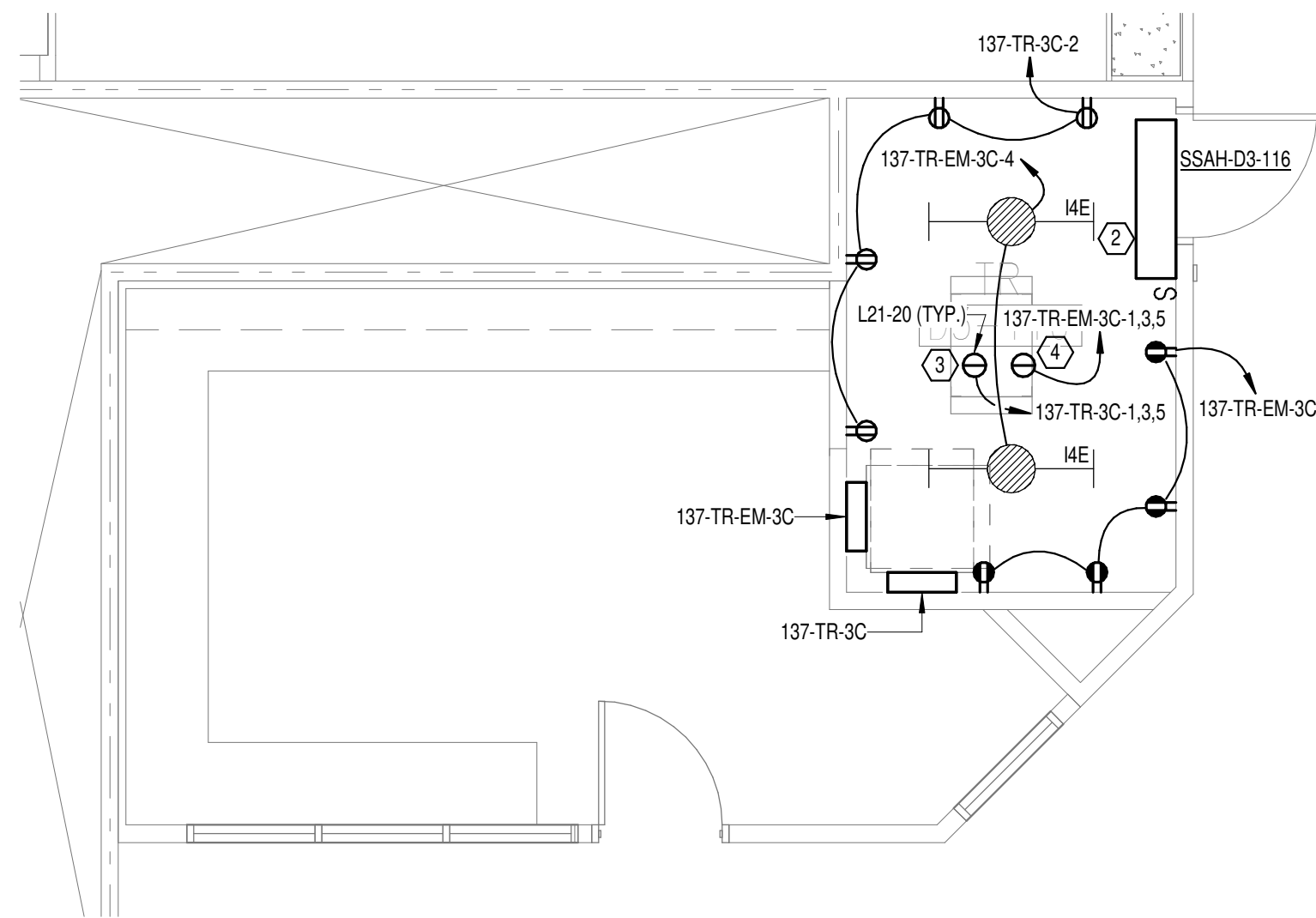
1. REMOVE ALL EXISTING DEVICES AND WIRING BACK TO SOURCE. VISIT SITE TO DETERMINE FULL EXTENT OF DEMOLITION.
2. REFER TO EQUIPMENT CONNECTION SCHEDULE.
3. PROVIDE RECEPTACLE FOR BUS B. MOUNT RECEPTACLE TO CABLE TRAY ABOVE RACK.
4. PROVIDE RECEPTACLE FOR BUS A. MOUNT RECEPTACLE TO CABLE TRAY ABOVE RACK.



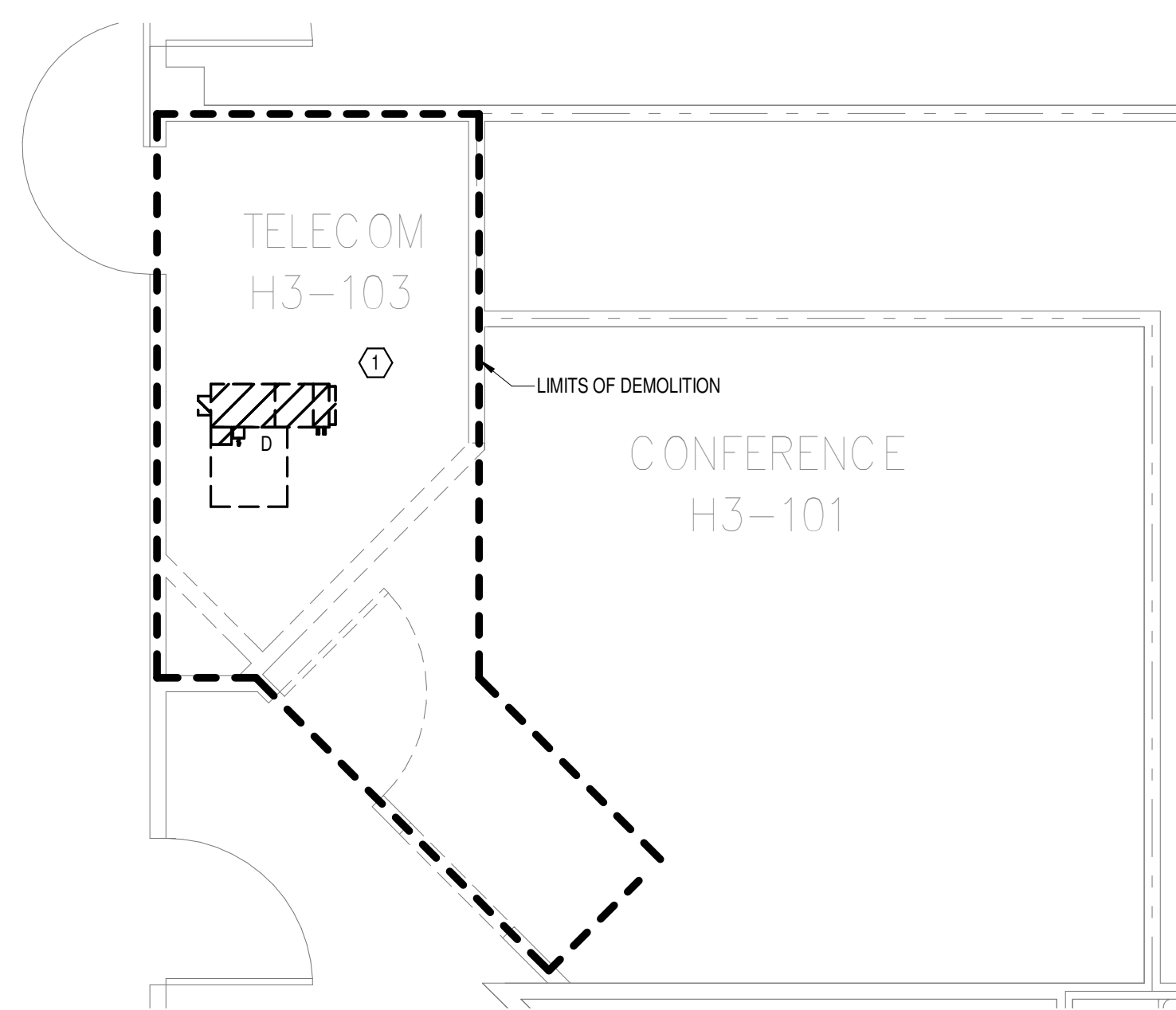
**1** OVERALL FLOOR PLAN LEVEL 03 - ELECTRICAL  
 1" = 20'-0"



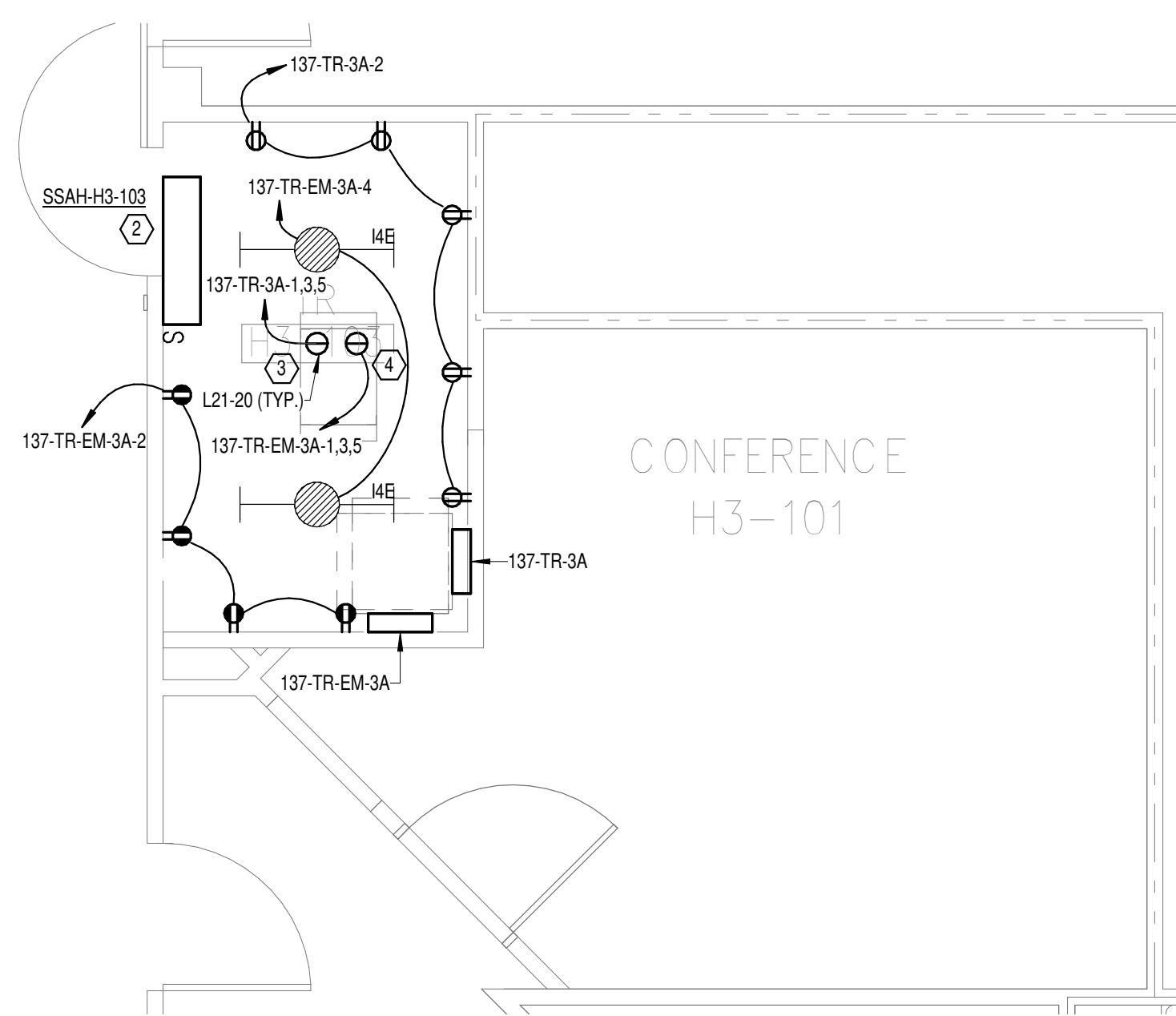
**6** DEMOLITION FLOOR PLAN LEVEL 03 ROOM 3 - ELECTRICAL  
 1/4" = 1'-0"



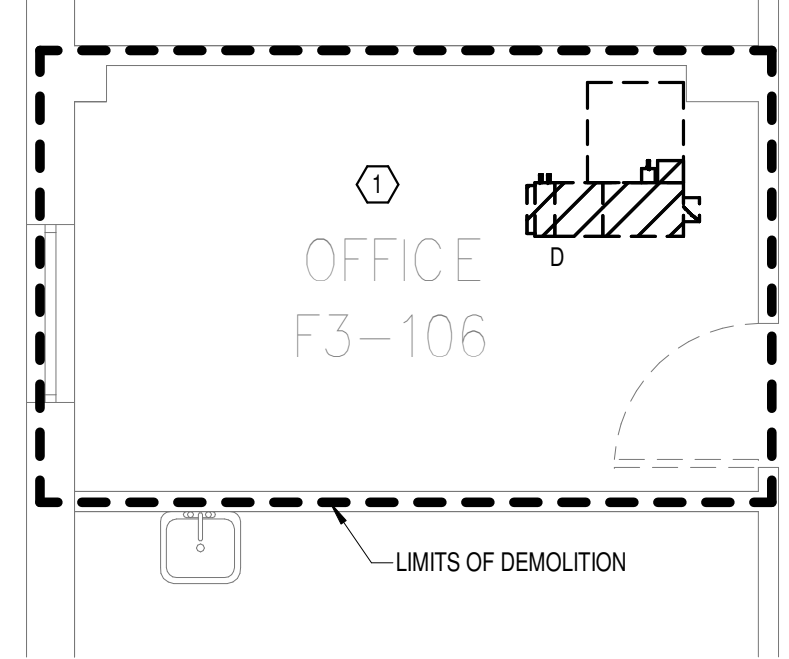
**7** NEW FLOOR PLAN LEVEL 03 ROOM 3 - ELECTRICAL  
 1/4" = 1'-0"



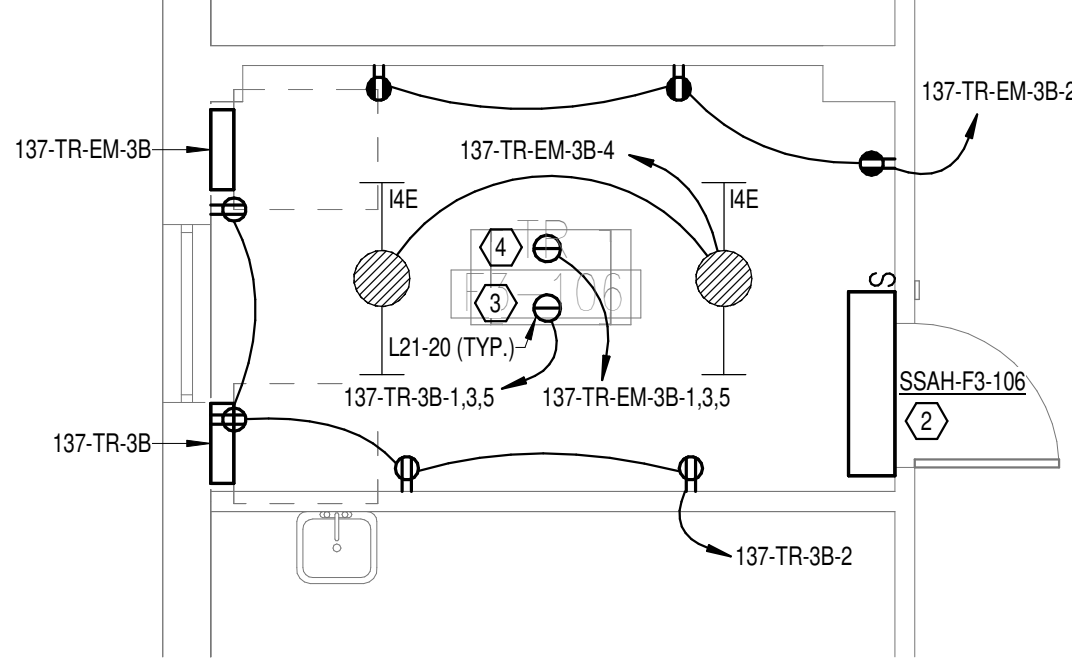
**2** DEMOLITION FLOOR PLAN LEVEL 03 ROOM 1 - ELECTRICAL  
 1/4" = 1'-0"



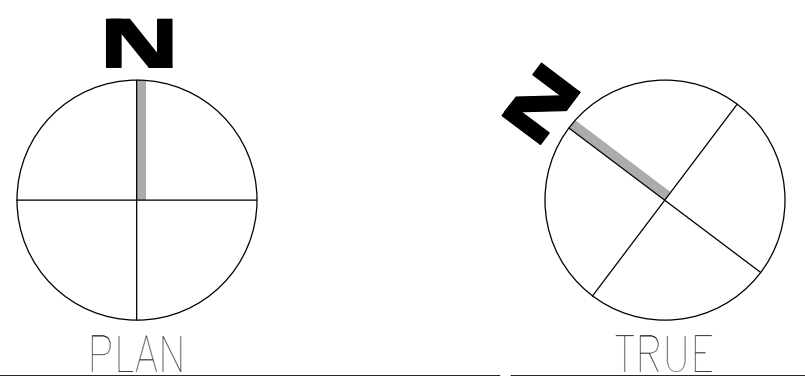
**3** NEW FLOOR PLAN LEVEL 03 ROOM 1 - ELECTRICAL  
 1/4" = 1'-0"



**4** DEMOLITION FLOOR PLAN LEVEL 03 ROOM 2 - ELECTRICAL  
 1/4" = 1'-0"



**5** NEW FLOOR PLAN LEVEL 03 ROOM 2 - ELECTRICAL  
 1/4" = 1'-0"



08/03/2024 14:55:47  
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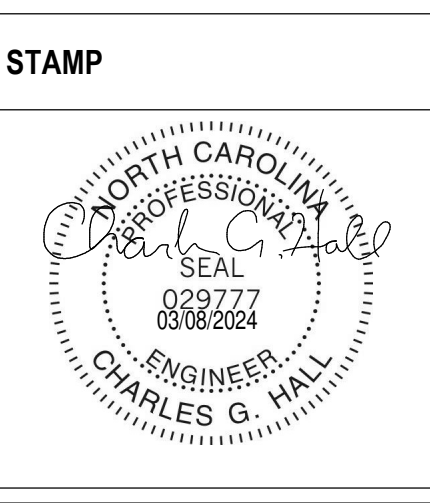
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**VA** U.S. Department of Veterans Affairs

Drawing Title  
**BUILDING 137 LEVEL 03 - ELECTRICAL**

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Phase  
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Project Title  
**EHRM INFRASTRUCTURE UPGRADES**

Project Number  
**679-20-104**

Building Number  
**137**

Location  
**TUSCALOOSA VAMC, TUSCALOOSA, AL.**

Issue Date  
**03/08/2024**

Checked  
**CGH**

Drawn  
**MJJ**

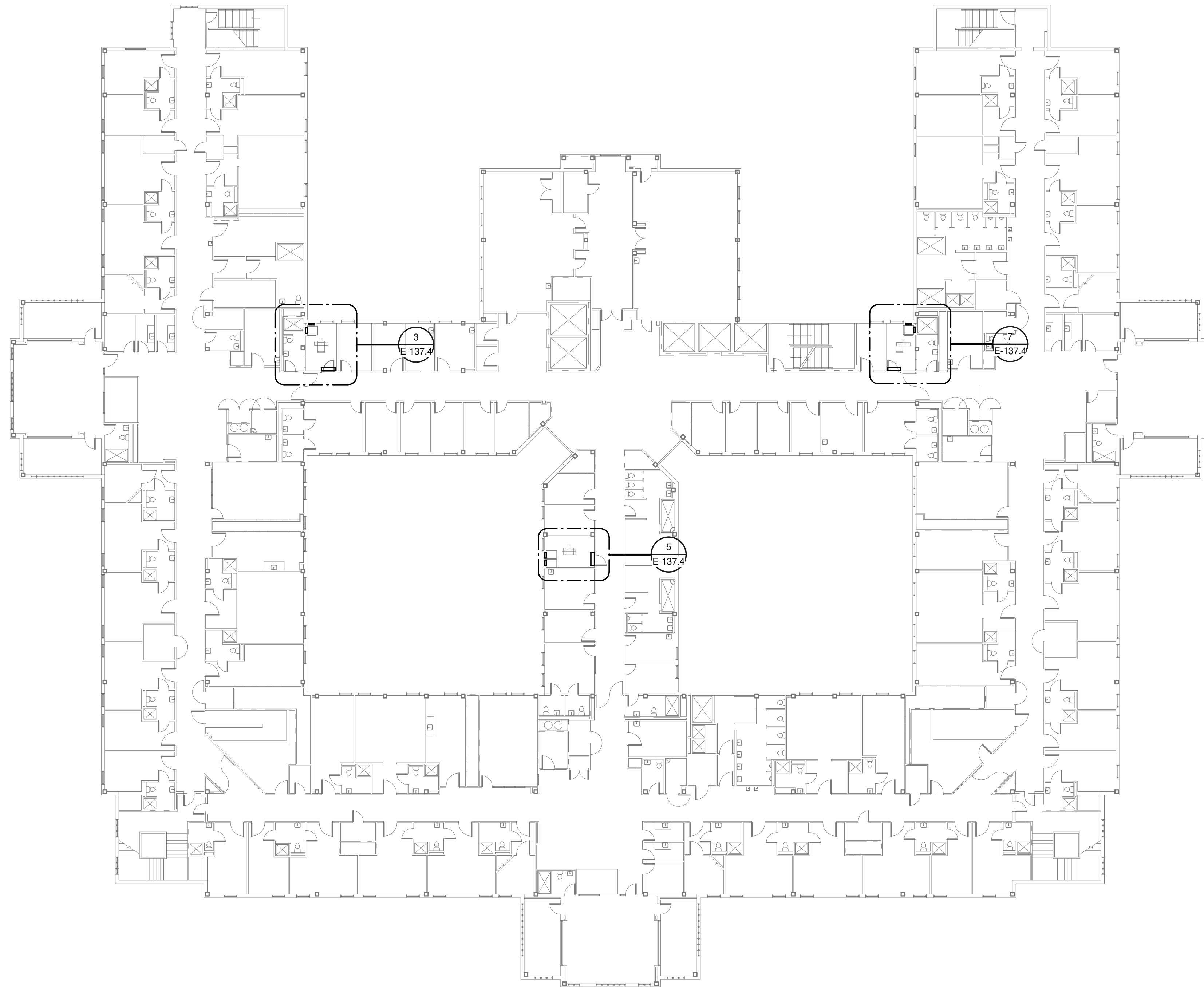
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**GENERAL NOTES:**

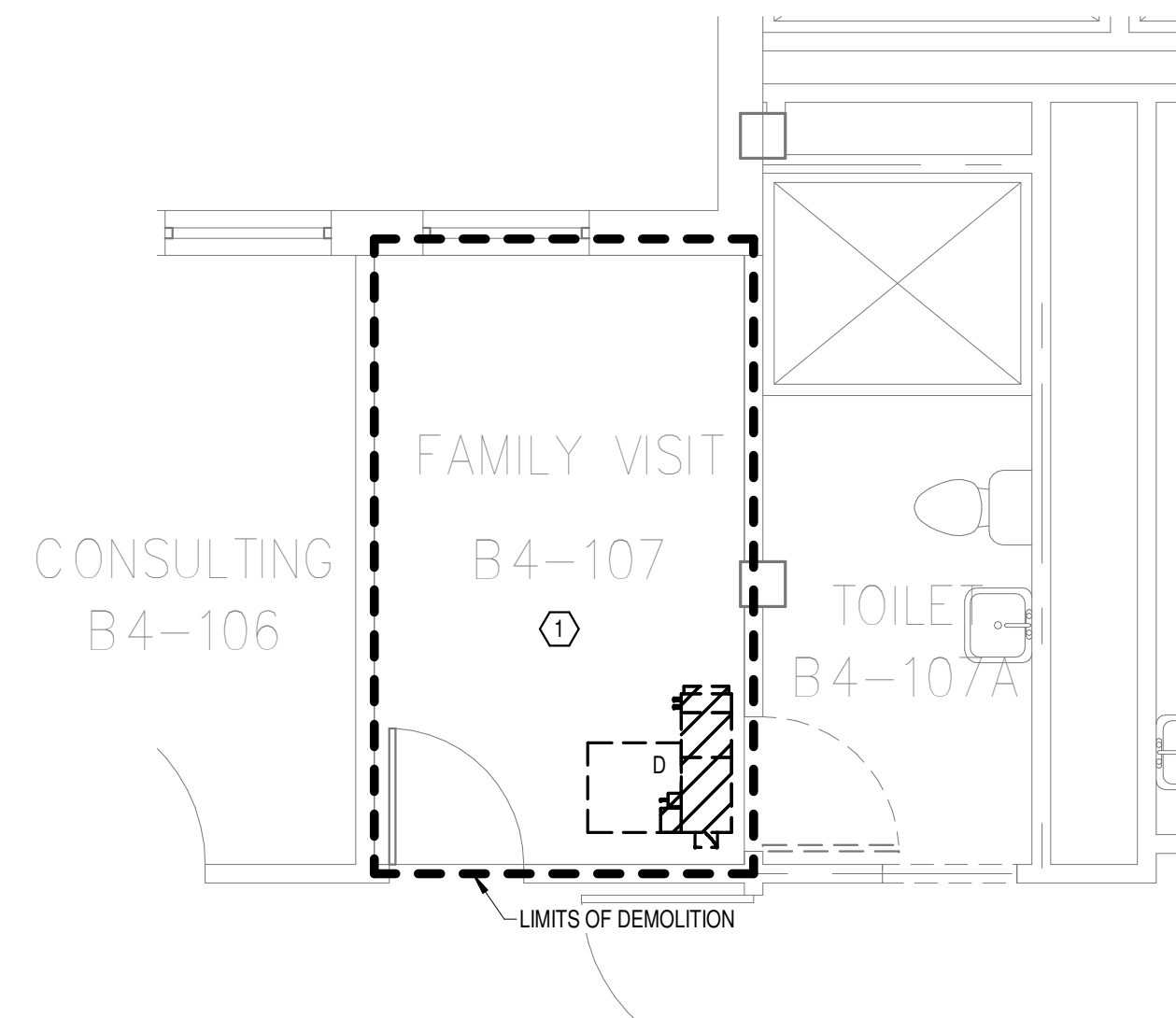
A. REFER TO TELECOM, HVAC, AND FIRE PROTECTION DRAWINGS. COORDINATE LOCATION ON NEW LIGHTING FIXTURES, NEW ELECTRICAL PANELS, AND NEW CABLE TRAY MOUNTED RECEPTACLES WITH OTHER DISCIPLINES.

**SHEET NOTES:**

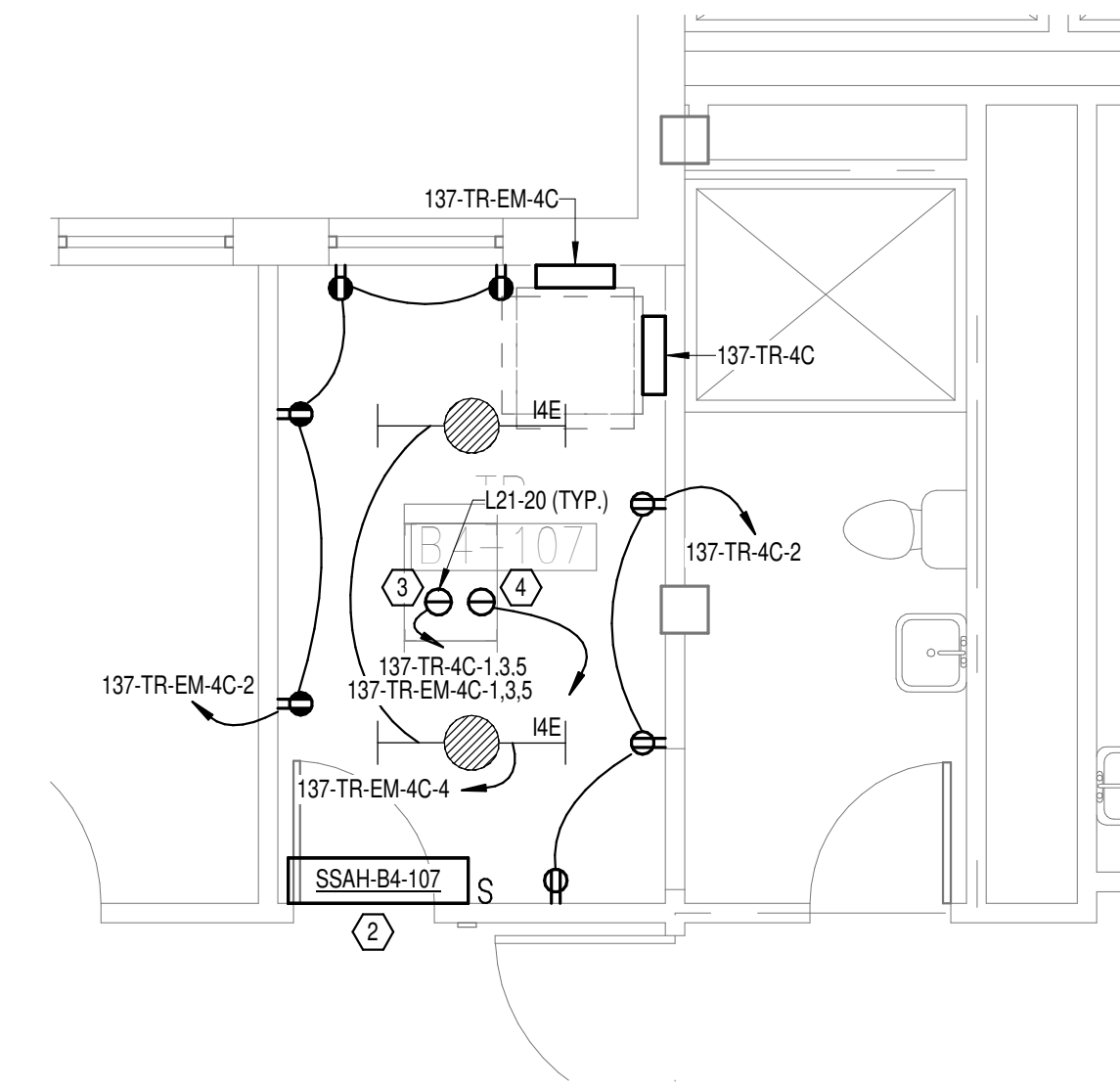
1. REMOVE ALL EXISTING DEVICES AND WIRING BACK TO SOURCE. VISIT SITE TO DETERMINE FULL EXTENT OF DEMOLITION.
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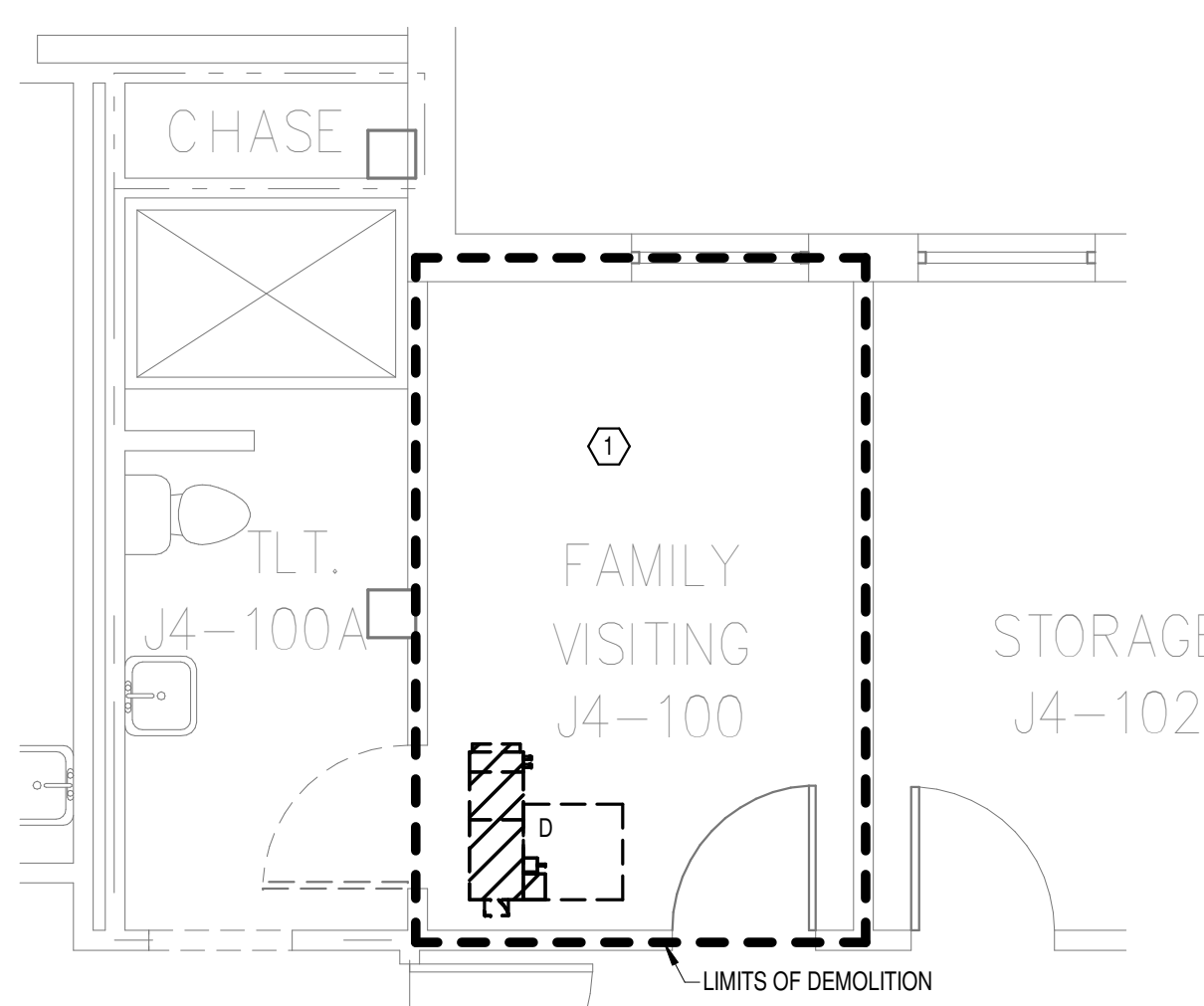
**1 OVERALL FLOOR PLAN  
LEVEL 04 - ELECTRICAL**  
1" = 20'-0"



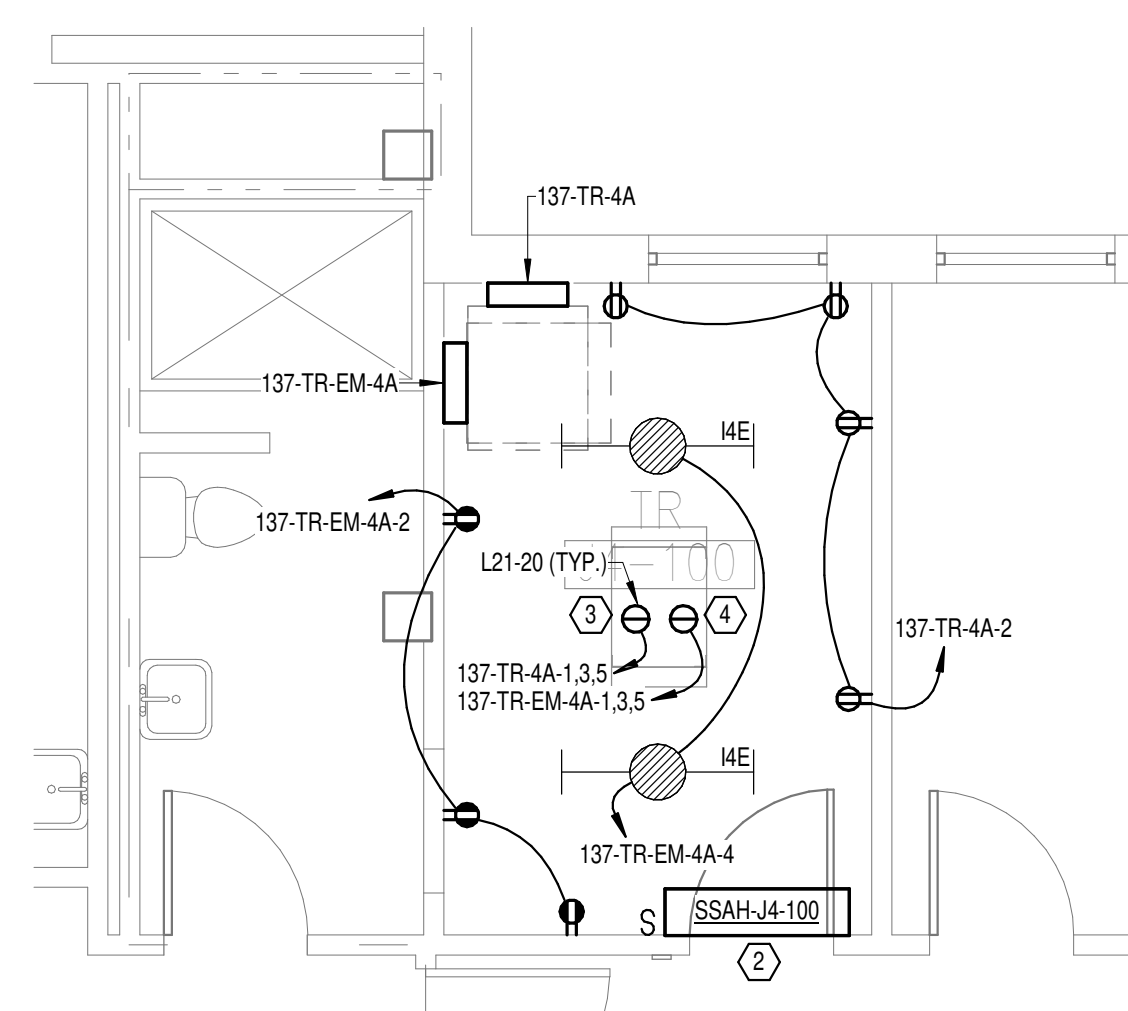
**6 DEMOLITION FLOOR  
PLAN LEVEL 04 ROOM 3 -  
ELECTRICAL**  
1/4" = 1'-0"



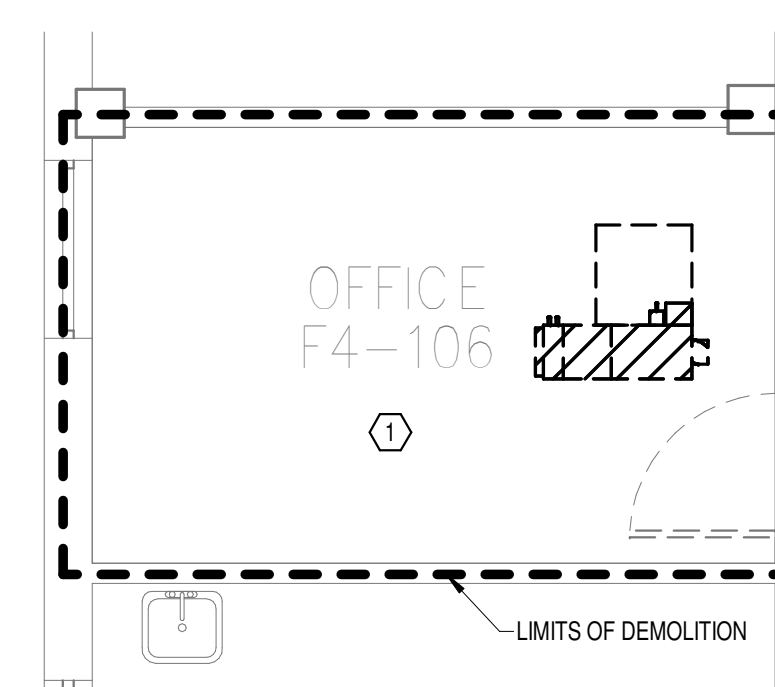
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04 ROOM 3 - ELECTRICAL**  
1/4" = 1'-0"



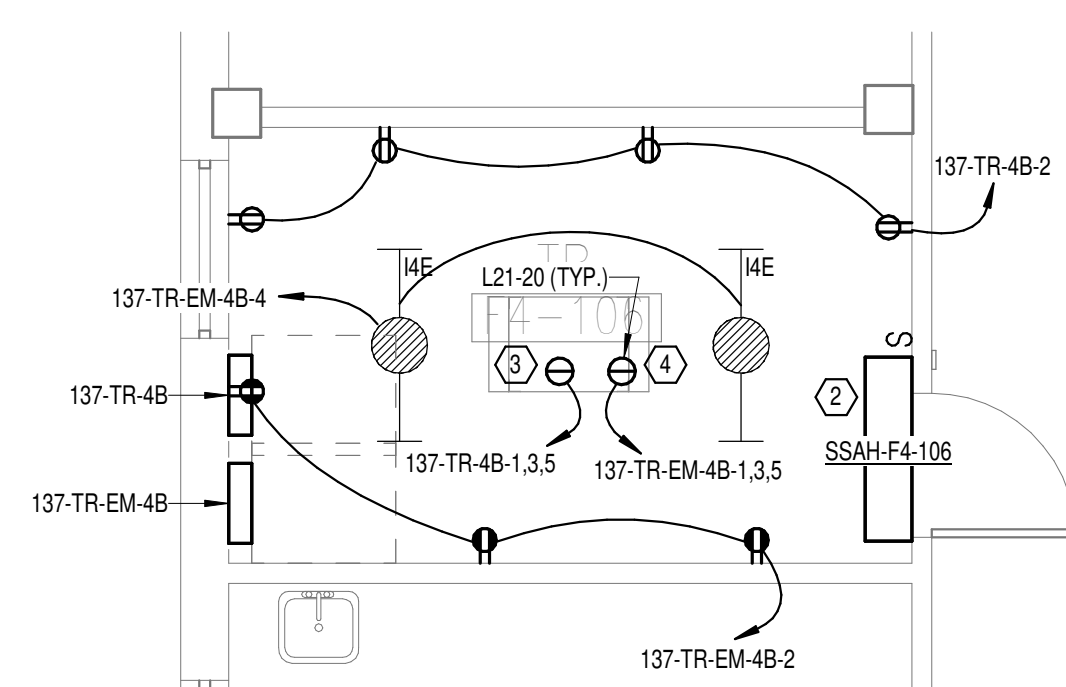
**2 DEMOLITION FLOOR  
PLAN LEVEL 04 ROOM 1 -  
ELECTRICAL**  
1/4" = 1'-0"



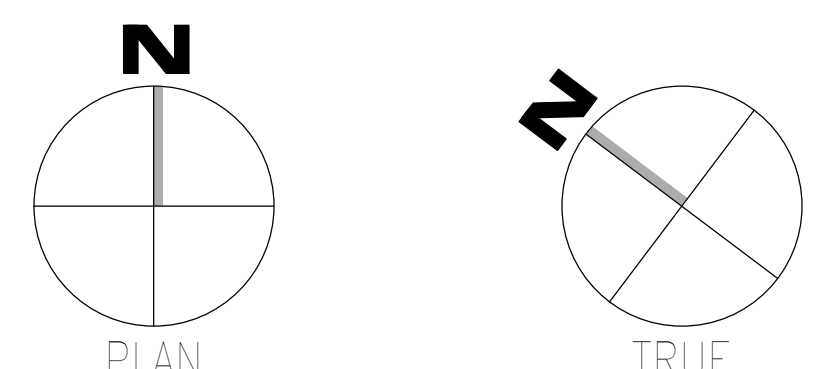
**3 NEW FLOOR PLAN LEVEL  
04 ROOM 1 - ELECTRICAL**  
1/4" = 1'-0"



**4 DEMOLITION FLOOR  
PLAN LEVEL 04 ROOM 2 -  
ELECTRICAL**  
1/4" = 1'-0"



**5 NEW FLOOR PLAN LEVEL  
04 ROOM 2 - ELECTRICAL**  
1/4" = 1'-0"



08/03/2024 14:55:50  
 Autodesk:Draw:2024:08 - VA Tuscaloosa EHRM Infrastructure Upgrades/2024:08 - VA EHRM Tuscaloosa - R50 - 0137.rvt  
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**STAMP**

Professional Engineer Seal for Charles G. Wall, No. 029277, expires 08/08/2024.

**Office of Construction and Facilities Management**

**VA** U.S. Department of Veterans Affairs

Drawing Title  
**BUILDING 137 LEVEL 04 - ELECTRICAL**

Approved: \_\_\_\_\_

Phase  
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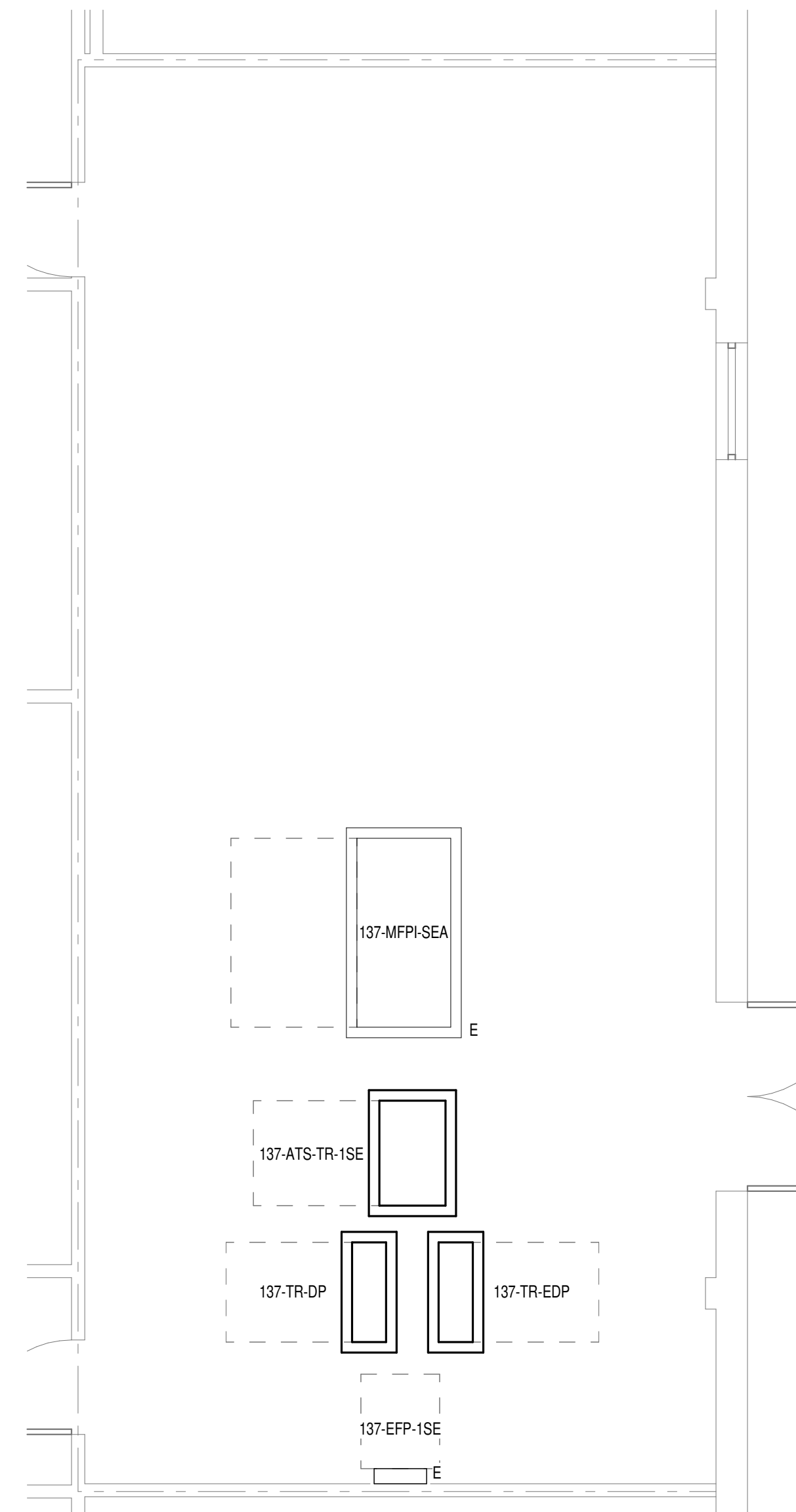
**FULLY SPRINKLERED**

Project Title EHRM INFRASTRUCTURE UPGRADES	Project Number 679-20-104
Location TUSCALOOSA VAMC, TUSCALOOSA, AL.	Building Number 137
Issue Date 03/08/2024	Checked CGH
	Drawn MJJ
	Drawing Number E-137.4



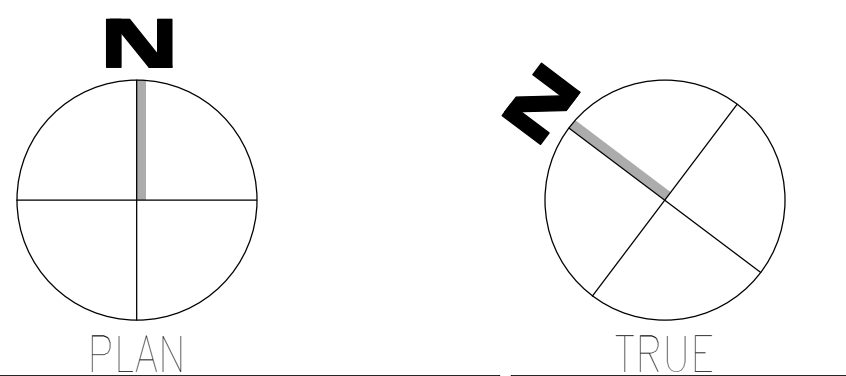


**GENERAL NOTES:**  
 A. REFER TO TELECOM, HVAC, AND FIRE PROTECTION DRAWINGS. COORDINATE LOCATION ON NEW LIGHTING FIXTURES, NEW ELECTRICAL PANELS, AND NEW CABLE TRAY MOUNTED RECEPTACLES WITH OTHER DISCIPLINES.



**ENLARGED PLAN LEVEL 01 ELECTRICAL ROOM**  
 1/4" = 1'-0"

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 T:\Projects\2023\08 - VA Tuscaloosa EHRM Infrastructure Upgrades\2023\08 - VA EHRM Tuscaloosa R50\_0137.rvt  
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Revisions: Date:	<b>CONSULTANT</b>  WileyWilson 127 Nationwide Drive Lynchburg, VA 24502 Phone: 434.947.1901 www.wileywilson.com	 SPECIALIZED ENGINEERING SOLUTIONS Specialized Engineering Solutions 1300 Baxter Street, Suite 355 Charlotte, NC 28204	<b>ARCHITECT/ENGINEER OF RECORD</b>  Atriax GROUP www.atriaxgroup.com Atriax, pllc 102 3rd Avenue, NE PO Box 1629, Hickory, NC 28603 Phone: 828.315.9962 Fax: 828.315.9964 NC Engineering License No.: P-0214 NC Architectural License No.: 51254	STAMP 	Office of Construction and Facilities Management U.S. Department of Veterans Affairs	Drawing Title <b>BUILDING 137 - ELECTRICAL ENLARGED PLANS</b> Approved:	Phase <b>100% CONSTRUCTION DOCUMENTS</b> <b>FULLY SPRINKLERED</b>	Project Title EHRM INFRASTRUCTURE UPGRADES	Project Number 679-20-104 Building Number 137 Drawing Number <b>E-137.300</b>
	Location TUSCALOOSA VAMC, TUSCALOOSA, AL. Issue Date 03/08/2024 Checked CGH Drawn MJJ								

AUTOMATIC TRANSFER SWITCH SCHEDULE												
NAME	AMPS	VOLTAGE	PHASE	NUMBER OF POLES	NUMBER OF WIRES	BYPASS ISOLATION	TRANSITION TYPE	MIN. 3 CYCLE WCR	MIN. 30 CYCLE WCR	MODEL	PRIORITY	REMARKS
137-ATS-TR-1SE	225 A	480 V	3	3	4	Yes	CLOSED					

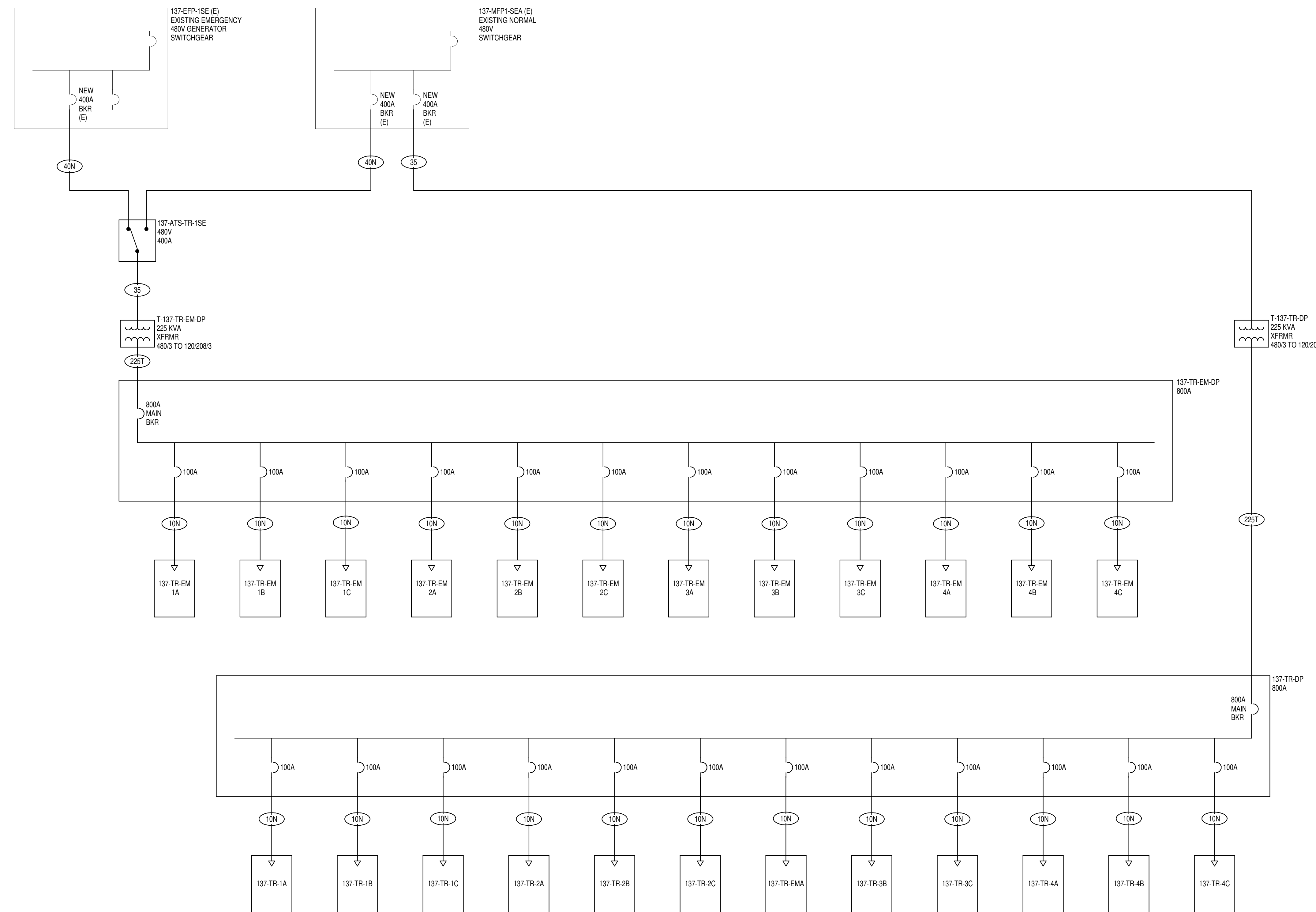
REMARKS: (AUTOMATIC TRANSFER SWITCH SCHEDULE)  
1. NOT USED.

GENERAL NOTES: (AUTOMATIC TRANSFER SWITCH SCHEDULE)

- A. REFER TO DEFINITIONS BELOW FOR CLARIFICATIONS OF REQUIREMENTS.
- B. "MIN. 3 CYCLE WCR" AND "MIN. 30 CYCLE WCR" - VALUE INDICATED IS AVAILABLE SHORT CIRCUIT CURRENT (SCC) IN KILOMPS AT THE EQUIPMENT BASED ON PRELIMINARY DESIGN PHASE CALCULATIONS. EQUIPMENT SCRR SHALL BE MINIMUM 120% OF THE AVAILABLE SCC AT THE DURATION INDICATED. RATING SHALL BE ADJUSTED IF REQUIRED BASED ON FINAL SCC CALCULATION.
- C. "PRIORITY" - GENERATOR LOADING AND ATS LOAD SHEDDING SHALL BE SETUP BASED ON THE FOLLOWING PRIORITY LEVELS WITH THE LOWEST NUMBER BEING THE FIRST LOAD STEP AND THE HIGHEST NUMBER BEING THE LAST LOAD STEP. QUANTITY OF LOAD STEPS SHALL BE MINIMUM REQUIRED FOR SYSTEM CONFIGURATION. ADDITIONAL STEPS MAY BE ADDED TO ASSIST WITH GENERATOR STABILITY.
  - a. "1" - POWER MUST BE TRANSFERRED TO LOAD FROM GENERATOR WITHIN 10 SECONDS. LOAD CANNOT BE SHED.
  - b. "2,3,4, ETC." - LOAD CAN BE SHED. HIGHEST VALUES SHALL BE SHED FIRST.

FEEDER SCHEDULE - COPPER		
FEEDER	NOMINAL SIZE	WIRE AND CONDUIT
10N	100 A	4-#1 CU, #8 CU GND - 2" C.
35	350 A	3-500 KCMIL CU, #3 CU GND - 3" C.
40N	400 A	4-#4.0 CU, #3 CU GND - 2-1/2" C. (2 SETS)
225T	800 A	4-850 KCMIL CU, #2.0 CU GND - 3" C. (3 SETS)

**ONE-LINE GENERAL NOTES:**  
(GENERAL NOTES SHALL APPLY TO ALL ONE-LINE SHEETS)  
A. MECHANICAL EQUIPMENT NOT SHOWN ON ONE-LINE. REFER TO PANEL SCHEDULES FOR COMPLETE LIST OF CIRCUIT BREAKER SIZES AND QUANTITIES REQUIRED.



**BUILDING 137 -  
ELECTRICAL ONE-LINE**  
NO SCALE

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Revisions:	Date:

<b>CONSULTANT</b>  WileyWilson 127 Nationwide Drive Lynchburg, VA 24502 Phone: 434.947.1901 www.wileywilson.com	<b>ARCHITECT/ENGINEER OF RECORD</b>  Atriax, pllc 102 3rd Avenue, NE PO Box 1629, Hickory, NC 28603 Phone: 828.315.9962 Fax: 828.315.9964 NC Engineering License No.: P-0214 NC Architectural License No.: 51254	<b>STAMP</b> 	Office of Construction and Facilities Management  U.S. Department of Veterans Affairs	Drawing Title <b>ONE-LINE DIAGRAM</b>	Phase <b>100% CONSTRUCTION DOCUMENTS</b>	Project Title <b>EHRM INFRASTRUCTURE UPGRADES</b>	Project Number <b>679-20-104</b>
				Approved:	<b>FULLY SPRINKLERED</b>	Location <b>TUSCALOOSA VAMC, TUSCALOOSA, AL.</b>	Building Number <b>137</b>
				Issue Date <b>03/08/2024</b>	Checked <b>CGH</b>	Drawn <b>MJJ</b>	Drawing Number <b>E-137.500</b>

EQUIPMENT CONNECTION SCHEDULE																	
MARK	DESCRIPTION	FLA	MCA	MOCP	VOLTS	PHASE	POLES	LOAD (VA)	CONTROL TYPE	DISCONNECT BY	DISCONNECT TYPE	FEEDER	PANEL	CIRCUIT NUMBER	SCCR	GEN	REMARKS
SSAH-B4-107	SPLIT SYSTEM CONDENSING UNIT				208	1	2		INT	-	-	(3X) (30A) 2#10 CU, #10 CU GND - 3/4"	137-TR-EM-4C	7.9	5	Yes	2
SSAH-D1-107	SPLIT SYSTEM CONDENSING UNIT				208	1	2		INT	-	-	(3X) (30A) 2#10 CU, #10 CU GND - 3/4"	137-TR-EM-1C	7.9	5	Yes	2
SSAH-D2-114	SPLIT SYSTEM CONDENSING UNIT				208	1	2		INT	-	-	(3X) (30A) 2#10 CU, #10 CU GND - 3/4"	137-TR-EM-2C	7.9	5	Yes	2
SSAH-D3-116	SPLIT SYSTEM CONDENSING UNIT				208	1	2		INT	-	-	(3X) (30A) 2#10 CU, #10 CU GND - 3/4"	137-TR-EM-3C	7.9	5	Yes	2
SSAH-F1-104	SPLIT SYSTEM CONDENSING UNIT				208	1	2		INT	-	-	(3X) (30A) 2#10 CU, #10 CU GND - 3/4"	137-TR-EM-1B	7.9	5	Yes	2
SSAH-F2-106	SPLIT SYSTEM CONDENSING UNIT				208	1	2		INT	-	-	(3X) (30A) 2#10 CU, #10 CU GND - 3/4"	137-TR-EM-2B	7.9	5	Yes	2
SSAH-F3-106	SPLIT SYSTEM CONDENSING UNIT				208	1	2		INT	-	-	(3X) (30A) 2#10 CU, #10 CU GND - 3/4"	137-TR-EM-3B	7.9	5	Yes	2
SSAH-F4-106	SPLIT SYSTEM CONDENSING UNIT				208	1	2		INT	-	-	(3X) (30A) 2#10 CU, #10 CU GND - 3/4"	137-TR-EM-4B	7.9	5	Yes	2
SSAH-H1-101C	SPLIT SYSTEM CONDENSING UNIT				208	1	2		INT	-	-	(3X) (30A) 2#10 CU, #10 CU GND - 3/4"	137-TR-EM-1A	7.9	5	Yes	2
SSAH-H2-103	SPLIT SYSTEM CONDENSING UNIT				208	1	2		INT	-	-	(3X) (30A) 2#10 CU, #10 CU GND - 3/4"	137-TR-EM-2A	7.9	5	Yes	2
SSAH-H3-103	SPLIT SYSTEM CONDENSING UNIT				208	1	2		INT	-	-	(3X) (30A) 2#10 CU, #10 CU GND - 3/4"	137-TR-EM-3A	7.9	5	Yes	2
SSAH-J4-100	SPLIT SYSTEM CONDENSING UNIT				208	1	2		INT	-	-	(3X) (30A) 2#10 CU, #10 CU GND - 3/4"	137-TR-EM-4A	7.9	5	Yes	2
SSCU-B4-106	SPLIT SYSTEM CONDENSING UNIT	0.6	25	30	208	1	2	3330	INT	ELECTRICAL	30A/2P/208V FUSED DISCONNECT SWITCH	(3X) (30A) 2#10 CU, #10 CU GND - 3/4"	137-TR-EM-4C	7.9	5	Yes	1
SSCU-D1-107	SPLIT SYSTEM CONDENSING UNIT	0.6	25	30	208	1	2	3330	INT	ELECTRICAL	30A/2P/208V FUSED DISCONNECT SWITCH	(3X) (30A) 2#10 CU, #10 CU GND - 3/4"	137-TR-EM-1C	7.9	5	Yes	1
SSCU-D2-114	SPLIT SYSTEM CONDENSING UNIT	0.6	25	30	208	1	2	3330	INT	ELECTRICAL	30A/2P/208V FUSED DISCONNECT SWITCH	(3X) (30A) 2#10 CU, #10 CU GND - 3/4"	137-TR-EM-2C	7.9	5	Yes	1
SSCU-D3-116	SPLIT SYSTEM CONDENSING UNIT	0.6	25	30	208	1	2	3330	INT	ELECTRICAL	30A/2P/208V FUSED DISCONNECT SWITCH	(3X) (30A) 2#10 CU, #10 CU GND - 3/4"	137-TR-EM-3C	7.9	5	Yes	1
SSCU-F1-104	SPLIT SYSTEM CONDENSING UNIT	0.6	25	30	208	1	2	3330	INT	ELECTRICAL	30A/2P/208V FUSED DISCONNECT SWITCH	(3X) (30A) 2#10 CU, #10 CU GND - 3/4"	137-TR-EM-1B	7.9	5	Yes	1
SSCU-F2-106	SPLIT SYSTEM CONDENSING UNIT	0.6	25	30	208	1	2	3330	INT	ELECTRICAL	30A/2P/208V FUSED DISCONNECT SWITCH	(3X) (30A) 2#10 CU, #10 CU GND - 3/4"	137-TR-EM-2B	7.9	5	Yes	1
SSCU-F3-106	SPLIT SYSTEM CONDENSING UNIT	0.6	25	30	208	1	2	3330	INT	ELECTRICAL	30A/2P/208V FUSED DISCONNECT SWITCH	(3X) (30A) 2#10 CU, #10 CU GND - 3/4"	137-TR-EM-3B	7.9	5	Yes	1
SSCU-F4-106	SPLIT SYSTEM CONDENSING UNIT	0.6	25	30	208	1	2	3330	INT	ELECTRICAL	30A/2P/208V FUSED DISCONNECT SWITCH	(3X) (30A) 2#10 CU, #10 CU GND - 3/4"	137-TR-EM-4B	7.9	5	Yes	1
SSCU-H1-101C	SPLIT SYSTEM CONDENSING UNIT	0.6	25	30	208	1	2	3330	INT	ELECTRICAL	30A/2P/208V FUSED DISCONNECT SWITCH	(3X) (30A) 2#10 CU, #10 CU GND - 3/4"	137-TR-EM-1A	7.9	5	Yes	1
SSCU-H2-103	SPLIT SYSTEM CONDENSING UNIT	0.6	25	30	208	1	2	3330	INT	ELECTRICAL	30A/2P/208V FUSED DISCONNECT SWITCH	(3X) (30A) 2#10 CU, #10 CU GND - 3/4"	137-TR-EM-2A	7.9	5	Yes	1
SSCU-H3-103	SPLIT SYSTEM CONDENSING UNIT	0.6	25	30	208	1	2	3330	INT	ELECTRICAL	30A/2P/208V FUSED DISCONNECT SWITCH	(3X) (30A) 2#10 CU, #10 CU GND - 3/4"	137-TR-EM-3A	7.9	5	Yes	1
SSCU-J4-100	SPLIT SYSTEM CONDENSING UNIT	0.6	25	30	208	1	2	3330	INT	ELECTRICAL	30A/2P/208V FUSED DISCONNECT SWITCH	(3X) (30A) 2#10 CU, #10 CU GND - 3/4"	137-TR-EM-4A	7.9	5	Yes	1

REMARKS: (EQUIPMENT CONNECTION SCHEDULE)  
 1. CONTROLS BETWEEN INDOOR AND OUTDOOR UNITS - INCLUDE CONTROL WIRING IN CONDUIT BETWEEN INDOOR AND OUTDOOR UNIT PER MANUFACTURERS REQUIREMENTS.  
 2. "CONTROL TYPE" - PROVIDE CONTROL AND CONNECTIONS "INT" - CONTROLS ARE MANUFACTURED INTEGRAL TO THE EQUIPMENT (SELF-CONTAINED).

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Revisions:	Date:

**CONSULTANT**




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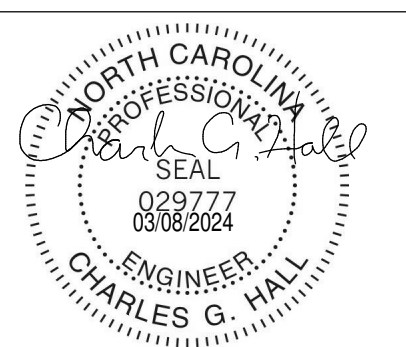
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NC Architectural License No.: 51254

**STAMP**



CHARLES G. WALL  
ENGINEER  
03/08/2024

**Office of Construction and Facilities Management**



U.S. Department of Veterans Affairs

Drawing Title  
**ELECTRICAL SCHEDULES**

Approved:

Phase  
**100% CONSTRUCTION DOCUMENTS**

**FULLY SPRINKLERED**

Project Title  
**EHRM INFRASTRUCTURE UPGRADES**

Location  
**TUSCALOOSA VAMC, TUSCALOOSA, AL.**

Issue Date  
**03/08/2024**

Checked  
**CGH**

Drawn  
**MJJ**

Project Number  
**679-20-104**

Building Number  
**137**

Drawing Number  
**E-137.700**



PANEL: 137-TR-1A

LOCATION: TR H1-101C VOLTS: 208/120 WYE MAINS TYPE: MCB
SUPPLY FROM: 137-TR-DP PHASES: 3 SUPPLY FROM: 137-TR-DP
BRANCH: NORMAL MCB/MLO RATING: 100 A
SERVICE RATED: No INTEGRAL SPD: Yes MCB OPTIONS:
MOUNTING: SURFACE AVAILABLE SCC (KA): 10 SECTIONS: 1
NEMA ENCLOSURE: NEMA 1 PANEL POLES: 24

Table with columns: CKT, CIRCUIT DESCRIPTION, OPT, RATING, POLES, A, B, C, POLES/RATING, OPT, CIRCUIT DESCRIPTION, CKT. Includes rows for REC-IT RACK TR-H1-101C and SPARE components.

Table with columns: LOAD CLASSIFICATION, CONNECTED LOAD, DEMAND FACTOR, ESTIMATED DEMAND, PANEL TOTALS. Includes rows for PWR-C, REC, and equipment ampacity.

OPTIONS:
CIRCUIT BREAKER OPTIONS SUFFIX: 'S' OR 'ST' - PROVIDE SHUNT TRIP CIRCUIT BREAKER / 'G' OR 'GFCI' - PROVIDE GFCI CIRCUIT BREAKER / 'GFP' - PROVIDE GFP CIRCUIT BREAKER / 'ERMS' - ENERGY REDUCING MAINTENANCE SWITCH / 'ZSI' - ZONE SELECTIVE INTERLOCKING / 'L' - PROVIDE CIRCUIT BREAKER WITH LOCKING PROVISIONS / 'R' - PROVIDE CIRCUIT BREAKER WITH RED MARKING

GENERAL REMARKS:
A. PANEL A/C (INTERRUPTING) RATING SHALL BE MINIMUM 120% OF THE AVAILABLE SCC (SHORT CIRCUIT CURRENT).
B. BUS B PANEL.
C. WHERE NEW PANELS ARE SHOWN AT TELECOM PLYWOOD LOCATIONS, MOUNT PANELS TO PLYWOOD.

PANEL: 137-TR-1B

LOCATION: TR F1-104 VOLTS: 208/120 WYE MAINS TYPE: MCB
SUPPLY FROM: 137-TR-DP PHASES: 3 SUPPLY FROM: 137-TR-DP
BRANCH: NORMAL MCB/MLO RATING: 100 A
SERVICE RATED: No INTEGRAL SPD: Yes MCB OPTIONS:
MOUNTING: SURFACE AVAILABLE SCC (KA): 10 SECTIONS: 1
NEMA ENCLOSURE: NEMA 1 PANEL POLES: 24

Table with columns: CKT, CIRCUIT DESCRIPTION, OPT, RATING, POLES, A, B, C, POLES/RATING, OPT, CIRCUIT DESCRIPTION, CKT. Includes rows for REC-IT RACK TR-FR-104 and SPARE components.

Table with columns: LOAD CLASSIFICATION, CONNECTED LOAD, DEMAND FACTOR, ESTIMATED DEMAND, PANEL TOTALS. Includes rows for PWR-C, REC, and equipment ampacity.

OPTIONS:
CIRCUIT BREAKER OPTIONS SUFFIX: 'S' OR 'ST' - PROVIDE SHUNT TRIP CIRCUIT BREAKER / 'G' OR 'GFCI' - PROVIDE GFCI CIRCUIT BREAKER / 'GFP' - PROVIDE GFP CIRCUIT BREAKER / 'ERMS' - ENERGY REDUCING MAINTENANCE SWITCH / 'ZSI' - ZONE SELECTIVE INTERLOCKING / 'L' - PROVIDE CIRCUIT BREAKER WITH LOCKING PROVISIONS / 'R' - PROVIDE CIRCUIT BREAKER WITH RED MARKING

GENERAL REMARKS:
A. PANEL A/C (INTERRUPTING) RATING SHALL BE MINIMUM 120% OF THE AVAILABLE SCC (SHORT CIRCUIT CURRENT).
B. BUS B PANEL.
C. WHERE NEW PANELS ARE SHOWN AT TELECOM PLYWOOD LOCATIONS, MOUNT PANELS TO PLYWOOD.

PANEL: 137-TR-1C

LOCATION: TR D1-107 VOLTS: 208/120 WYE MAINS TYPE: MCB
SUPPLY FROM: 137-TR-DP PHASES: 3 SUPPLY FROM: 137-TR-DP
BRANCH: NORMAL MCB/MLO RATING: 100 A
SERVICE RATED: No INTEGRAL SPD: Yes MCB OPTIONS:
MOUNTING: SURFACE AVAILABLE SCC (KA): 10 SECTIONS: 1
NEMA ENCLOSURE: NEMA 1 PANEL POLES: 24

Table with columns: CKT, CIRCUIT DESCRIPTION, OPT, RATING, POLES, A, B, C, POLES/RATING, OPT, CIRCUIT DESCRIPTION, CKT. Includes rows for REC-IT RACK TR-D1-107 and SPARE components.

Table with columns: LOAD CLASSIFICATION, CONNECTED LOAD, DEMAND FACTOR, ESTIMATED DEMAND, PANEL TOTALS. Includes rows for PWR-C, REC, and equipment ampacity.

OPTIONS:
CIRCUIT BREAKER OPTIONS SUFFIX: 'S' OR 'ST' - PROVIDE SHUNT TRIP CIRCUIT BREAKER / 'G' OR 'GFCI' - PROVIDE GFCI CIRCUIT BREAKER / 'GFP' - PROVIDE GFP CIRCUIT BREAKER / 'ERMS' - ENERGY REDUCING MAINTENANCE SWITCH / 'ZSI' - ZONE SELECTIVE INTERLOCKING / 'L' - PROVIDE CIRCUIT BREAKER WITH LOCKING PROVISIONS / 'R' - PROVIDE CIRCUIT BREAKER WITH RED MARKING

GENERAL REMARKS:
A. PANEL A/C (INTERRUPTING) RATING SHALL BE MINIMUM 120% OF THE AVAILABLE SCC (SHORT CIRCUIT CURRENT).
B. BUS B PANEL.
C. WHERE NEW PANELS ARE SHOWN AT TELECOM PLYWOOD LOCATIONS, MOUNT PANELS TO PLYWOOD.

PANEL: 137-TR-EM-1A

LOCATION: TR H1-101C VOLTS: 208/120 WYE MAINS TYPE: MCB
SUPPLY FROM: 137-TR-EM-DP PHASES: 3 SUPPLY FROM: 137-TR-EM-DP
BRANCH: EMERGENCY MCB/MLO RATING: 100 A
SERVICE RATED: No INTEGRAL SPD: Yes MCB OPTIONS:
MOUNTING: SURFACE AVAILABLE SCC (KA): 10 SECTIONS: 1
NEMA ENCLOSURE: NEMA 1 PANEL POLES: 24

Table with columns: CKT, CIRCUIT DESCRIPTION, OPT, RATING, POLES, A, B, C, POLES/RATING, OPT, CIRCUIT DESCRIPTION, CKT. Includes rows for REC-IT RACK TR-H1-101C, SSSU-H1-101C/SSAH-H1-101C, and SPARE components.

Table with columns: LOAD CLASSIFICATION, CONNECTED LOAD, DEMAND FACTOR, ESTIMATED DEMAND, PANEL TOTALS. Includes rows for LTG, PWR-C, REC, MEQ-C, and equipment ampacity.

OPTIONS:
CIRCUIT BREAKER OPTIONS SUFFIX: 'S' OR 'ST' - PROVIDE SHUNT TRIP CIRCUIT BREAKER / 'G' OR 'GFCI' - PROVIDE GFCI CIRCUIT BREAKER / 'GFP' - PROVIDE GFP CIRCUIT BREAKER / 'ERMS' - ENERGY REDUCING MAINTENANCE SWITCH / 'ZSI' - ZONE SELECTIVE INTERLOCKING / 'L' - PROVIDE CIRCUIT BREAKER WITH LOCKING PROVISIONS / 'R' - PROVIDE CIRCUIT BREAKER WITH RED MARKING

GENERAL REMARKS:
A. PANEL A/C (INTERRUPTING) RATING SHALL BE MINIMUM 120% OF THE AVAILABLE SCC (SHORT CIRCUIT CURRENT).
B. BUS A PANEL.
C. WHERE NEW PANELS ARE SHOWN AT TELECOM PLYWOOD LOCATIONS, MOUNT PANELS TO PLYWOOD.

PANEL: 137-TR-EM-1B

LOCATION: TR F1-104 VOLTS: 208/120 WYE MAINS TYPE: MCB
SUPPLY FROM: 137-TR-EM-DP PHASES: 3 SUPPLY FROM: 137-TR-EM-DP
BRANCH: EMERGENCY MCB/MLO RATING: 100 A
SERVICE RATED: No INTEGRAL SPD: Yes MCB OPTIONS:
MOUNTING: SURFACE AVAILABLE SCC (KA): 10 SECTIONS: 1
NEMA ENCLOSURE: NEMA 1 PANEL POLES: 24

Table with columns: CKT, CIRCUIT DESCRIPTION, OPT, RATING, POLES, A, B, C, POLES/RATING, OPT, CIRCUIT DESCRIPTION, CKT. Includes rows for REC-IT RACK TR-FR-104, SSSU-F1-104/SSAH-F1-104, and SPARE components.

Table with columns: LOAD CLASSIFICATION, CONNECTED LOAD, DEMAND FACTOR, ESTIMATED DEMAND, PANEL TOTALS. Includes rows for LTG, PWR-C, REC, MEQ-C, and equipment ampacity.

OPTIONS:
CIRCUIT BREAKER OPTIONS SUFFIX: 'S' OR 'ST' - PROVIDE SHUNT TRIP CIRCUIT BREAKER / 'G' OR 'GFCI' - PROVIDE GFCI CIRCUIT BREAKER / 'GFP' - PROVIDE GFP CIRCUIT BREAKER / 'ERMS' - ENERGY REDUCING MAINTENANCE SWITCH / 'ZSI' - ZONE SELECTIVE INTERLOCKING / 'L' - PROVIDE CIRCUIT BREAKER WITH LOCKING PROVISIONS / 'R' - PROVIDE CIRCUIT BREAKER WITH RED MARKING

GENERAL REMARKS:
A. PANEL A/C (INTERRUPTING) RATING SHALL BE MINIMUM 120% OF THE AVAILABLE SCC (SHORT CIRCUIT CURRENT).
B. BUS A PANEL.
C. WHERE NEW PANELS ARE SHOWN AT TELECOM PLYWOOD LOCATIONS, MOUNT PANELS TO PLYWOOD.

PANEL: 137-TR-EM-1C

LOCATION: TR D1-107 VOLTS: 208/120 WYE MAINS TYPE: MCB
SUPPLY FROM: 137-TR-EM-DP PHASES: 3 SUPPLY FROM: 137-TR-EM-DP
BRANCH: EMERGENCY MCB/MLO RATING: 100 A
SERVICE RATED: No INTEGRAL SPD: Yes MCB OPTIONS:
MOUNTING: SURFACE AVAILABLE SCC (KA): 10 SECTIONS: 1
NEMA ENCLOSURE: NEMA 1 PANEL POLES: 24

Table with columns: CKT, CIRCUIT DESCRIPTION, OPT, RATING, POLES, A, B, C, POLES/RATING, OPT, CIRCUIT DESCRIPTION, CKT. Includes rows for REC-IT RACK TR-D1-107, SSSU-D1-107/SSAH-D1-107, and SPARE components.

Table with columns: LOAD CLASSIFICATION, CONNECTED LOAD, DEMAND FACTOR, ESTIMATED DEMAND, PANEL TOTALS. Includes rows for LTG, PWR-C, REC, MEQ-C, and equipment ampacity.

OPTIONS:
CIRCUIT BREAKER OPTIONS SUFFIX: 'S' OR 'ST' - PROVIDE SHUNT TRIP CIRCUIT BREAKER / 'G' OR 'GFCI' - PROVIDE GFCI CIRCUIT BREAKER / 'GFP' - PROVIDE GFP CIRCUIT BREAKER / 'ERMS' - ENERGY REDUCING MAINTENANCE SWITCH / 'ZSI' - ZONE SELECTIVE INTERLOCKING / 'L' - PROVIDE CIRCUIT BREAKER WITH LOCKING PROVISIONS / 'R' - PROVIDE CIRCUIT BREAKER WITH RED MARKING

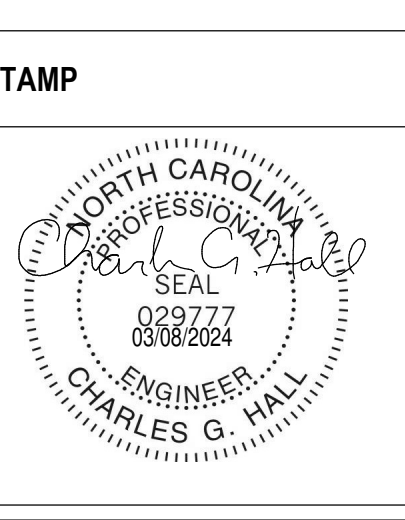
GENERAL REMARKS:
A. PANEL A/C (INTERRUPTING) RATING SHALL BE MINIMUM 120% OF THE AVAILABLE SCC (SHORT CIRCUIT CURRENT).
B. BUS A PANEL.
C. WHERE NEW PANELS ARE SHOWN AT TELECOM PLYWOOD LOCATIONS, MOUNT PANELS TO PLYWOOD.

08/03/2024 14:55:53
Automated Date: 2025/08 - VA Tuscaloosa EHRM Infrastructure Upgrades/2025/08 - VA EHRM Tuscaloosa P00\_0137.rvt

Table with columns: Revisions, Date. Includes a header row and several empty rows for revision tracking.

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NC Architectural License No.: 51254



Office of Construction and Facilities Management
VA U.S. Department of Veterans Affairs

Drawing Title: ELECTRICAL PANEL SCHEDULES
Approved:
Phase: 100% CONSTRUCTION DOCUMENTS

FULLY SPRINKLERED

Project Title: EHRM INFRASTRUCTURE UPGRADES
Project Number: 679-20-104
Building Number: 137
Drawing Number: E-137.701
Location: TUSCALOOSA VAMC, TUSCALOOSA, AL.
Issue Date: 03/08/2024
Checked: CGH
Drawn: MJJ

PANEL: 137-TR-2A

LOCATION: TR H2-103
SUPPLY FROM: 137-TR-DP
BRANCH: NORMAL
SERVICE RATED: No
MOUNTING: SURFACE
NEMA ENCLOSURE: NEMA 1
VOLTS: 208/120 WYE
PHASES: 3
WIRES: 4
INTEGRAL SPD: Yes
AVAILABLE SCC (KA): 10
MAINS TYPE: MCB
MCB/MLO RATING: 100 A
MCB OPTIONS:
SECTIONS: 1
PANEL POLES: 24

Table with columns: CKT, CIRCUIT DESCRIPTION, OPT, RATING, POLES, A, B, C, POLES/RATING, OPT, CIRCUIT DESCRIPTION, CKT. Includes rows for REC-IT RACK TR-H2-103, SPARE, and SSQU-H2-103/SSAH-H2-103.

TOTAL LOAD: 2387 VA, 1667 VA, 1667 VA
TOTAL AMPS: 20 A, 14 A, 14 A

LOAD CLASSIFICATION table with columns: CONNECTED LOAD, DEMAND FACTOR, ESTIMATED DEMAND, PANEL TOTALS. Includes rows for LTG, PWR-C, REC.

DEMAND LOAD: 6970 VA
DEMAND CURRENT: 19 A
CONSIDER 125% DEMAND: 8713 A
EQUIPMENT AMPS: 100 A
FEEDER AVAILABLE:
SPARE CAPACITY: 80 %

OPTIONS:
CIRCUIT BREAKER OPTIONS SUFFIX: 'S' OR 'ST' - PROVIDE SHUNT TRIP CIRCUIT BREAKER / 'G' OR 'GFCI' - PROVIDE GFCI CIRCUIT BREAKER / 'GFP' - PROVIDE GFP CIRCUIT BREAKER / 'ERMS' - ENERGY REDUCING MAINTENANCE SWITCH / 'ZSI' - ZONE SELECTIVE INTERLOCKING / 'L' - PROVIDE CIRCUIT BREAKER WITH LOCKING PROVISIONS / 'R' - PROVIDE CIRCUIT BREAKER WITH RED MARKING

GENERAL REMARKS:
A. PANEL A/C (INTERRUPTING) RATING SHALL BE MINIMUM 120% OF THE AVAILABLE SCC (SHORT CIRCUIT CURRENT).
B. BUS B PANEL
C. WHERE NEW PANELS ARE SHOWN AT TELECOM PLYWOOD LOCATIONS, MOUNT PANELS TO PLYWOOD.

PANEL: 137-TR-2B

LOCATION: TR F2-106
SUPPLY FROM: 137-TR-DP
BRANCH: NORMAL
SERVICE RATED: No
MOUNTING: SURFACE
NEMA ENCLOSURE: NEMA 1
VOLTS: 208/120 WYE
PHASES: 3
WIRES: 4
INTEGRAL SPD: Yes
AVAILABLE SCC (KA): 10
MAINS TYPE: MCB
MCB/MLO RATING: 100 A
MCB OPTIONS:
SECTIONS: 1
PANEL POLES: 24

Table with columns: CKT, CIRCUIT DESCRIPTION, OPT, RATING, POLES, A, B, C, POLES/RATING, OPT, CIRCUIT DESCRIPTION, CKT. Includes rows for REC-IT RACK TR-F2-106, SPARE, and SSQU-F2-106/SSAH-F2-106.

TOTAL LOAD: 2387 VA, 1667 VA, 1667 VA
TOTAL AMPS: 20 A, 14 A, 14 A

LOAD CLASSIFICATION table with columns: CONNECTED LOAD, DEMAND FACTOR, ESTIMATED DEMAND, PANEL TOTALS. Includes rows for LTG, PWR-C, REC.

DEMAND LOAD: 6970 VA
DEMAND CURRENT: 19 A
CONSIDER 125% DEMAND: 8713 A
EQUIPMENT AMPS: 100 A
FEEDER AVAILABLE:
SPARE CAPACITY: 80 %

OPTIONS:
CIRCUIT BREAKER OPTIONS SUFFIX: 'S' OR 'ST' - PROVIDE SHUNT TRIP CIRCUIT BREAKER / 'G' OR 'GFCI' - PROVIDE GFCI CIRCUIT BREAKER / 'GFP' - PROVIDE GFP CIRCUIT BREAKER / 'ERMS' - ENERGY REDUCING MAINTENANCE SWITCH / 'ZSI' - ZONE SELECTIVE INTERLOCKING / 'L' - PROVIDE CIRCUIT BREAKER WITH LOCKING PROVISIONS / 'R' - PROVIDE CIRCUIT BREAKER WITH RED MARKING

GENERAL REMARKS:
A. PANEL A/C (INTERRUPTING) RATING SHALL BE MINIMUM 120% OF THE AVAILABLE SCC (SHORT CIRCUIT CURRENT).
B. BUS B PANEL
C. WHERE NEW PANELS ARE SHOWN AT TELECOM PLYWOOD LOCATIONS, MOUNT PANELS TO PLYWOOD.

PANEL: 137-TR-2C

LOCATION: TR D2-114
SUPPLY FROM: 137-TR-DP
BRANCH: NORMAL
SERVICE RATED: No
MOUNTING: SURFACE
NEMA ENCLOSURE: NEMA 1
VOLTS: 208/120 WYE
PHASES: 3
WIRES: 4
INTEGRAL SPD: Yes
AVAILABLE SCC (KA): 10
MAINS TYPE: MCB
MCB/MLO RATING: 100 A
MCB OPTIONS:
SECTIONS: 1
PANEL POLES: 24

Table with columns: CKT, CIRCUIT DESCRIPTION, OPT, RATING, POLES, A, B, C, POLES/RATING, OPT, CIRCUIT DESCRIPTION, CKT. Includes rows for REC-IT RACK TR-D2-114, SPARE, and SSQU-D2-114/SSAH-D2-114.

TOTAL LOAD: 2387 VA, 1667 VA, 1667 VA
TOTAL AMPS: 20 A, 14 A, 14 A

LOAD CLASSIFICATION table with columns: CONNECTED LOAD, DEMAND FACTOR, ESTIMATED DEMAND, PANEL TOTALS. Includes rows for LTG, PWR-C, REC.

DEMAND LOAD: 6970 VA
DEMAND CURRENT: 19 A
CONSIDER 125% DEMAND: 8713 A
EQUIPMENT AMPS: 100 A
FEEDER AVAILABLE:
SPARE CAPACITY: 80 %

OPTIONS:
CIRCUIT BREAKER OPTIONS SUFFIX: 'S' OR 'ST' - PROVIDE SHUNT TRIP CIRCUIT BREAKER / 'G' OR 'GFCI' - PROVIDE GFCI CIRCUIT BREAKER / 'GFP' - PROVIDE GFP CIRCUIT BREAKER / 'ERMS' - ENERGY REDUCING MAINTENANCE SWITCH / 'ZSI' - ZONE SELECTIVE INTERLOCKING / 'L' - PROVIDE CIRCUIT BREAKER WITH LOCKING PROVISIONS / 'R' - PROVIDE CIRCUIT BREAKER WITH RED MARKING

GENERAL REMARKS:
A. PANEL A/C (INTERRUPTING) RATING SHALL BE MINIMUM 120% OF THE AVAILABLE SCC (SHORT CIRCUIT CURRENT).
B. BUS B PANEL
C. WHERE NEW PANELS ARE SHOWN AT TELECOM PLYWOOD LOCATIONS, MOUNT PANELS TO PLYWOOD.

PANEL: 137-TR-EM-2A

LOCATION: TR H2-103
SUPPLY FROM: 137-TR-EM-DP
BRANCH: EMERGENCY
SERVICE RATED: No
MOUNTING: SURFACE
NEMA ENCLOSURE: NEMA 1
VOLTS: 208/120 WYE
PHASES: 3
WIRES: 4
INTEGRAL SPD: Yes
AVAILABLE SCC (KA): 10
MAINS TYPE: MCB
MCB/MLO RATING: 100 A
MCB OPTIONS:
SECTIONS: 1
PANEL POLES: 24

Table with columns: CKT, CIRCUIT DESCRIPTION, OPT, RATING, POLES, A, B, C, POLES/RATING, OPT, CIRCUIT DESCRIPTION, CKT. Includes rows for REC-IT RACK TR-H2-103, SPARE, and SSQU-H2-103/SSAH-H2-103.

TOTAL LOAD: 3872 VA, 3398 VA, 1667 VA
TOTAL AMPS: 34 A, 31 A, 14 A

LOAD CLASSIFICATION table with columns: CONNECTED LOAD, DEMAND FACTOR, ESTIMATED DEMAND, PANEL TOTALS. Includes rows for LTG, PWR-C, REC, MEQ-C.

DEMAND LOAD: 8936 VA
DEMAND CURRENT: 25 A
CONSIDER 125% DEMAND: 11035 VA
EQUIPMENT AMPS: 100 A
FEEDER AVAILABLE:
SPARE CAPACITY: 69 %

OPTIONS:
CIRCUIT BREAKER OPTIONS SUFFIX: 'S' OR 'ST' - PROVIDE SHUNT TRIP CIRCUIT BREAKER / 'G' OR 'GFCI' - PROVIDE GFCI CIRCUIT BREAKER / 'GFP' - PROVIDE GFP CIRCUIT BREAKER / 'ERMS' - ENERGY REDUCING MAINTENANCE SWITCH / 'ZSI' - ZONE SELECTIVE INTERLOCKING / 'L' - PROVIDE CIRCUIT BREAKER WITH LOCKING PROVISIONS / 'R' - PROVIDE CIRCUIT BREAKER WITH RED MARKING

GENERAL REMARKS:
A. PANEL A/C (INTERRUPTING) RATING SHALL BE MINIMUM 120% OF THE AVAILABLE SCC (SHORT CIRCUIT CURRENT).
B. BUS A PANEL
C. WHERE NEW PANELS ARE SHOWN AT TELECOM PLYWOOD LOCATIONS, MOUNT PANELS TO PLYWOOD.

PANEL: 137-TR-EM-2B

LOCATION: TR F2-106
SUPPLY FROM: 137-TR-EM-DP
BRANCH: EMERGENCY
SERVICE RATED: No
MOUNTING: SURFACE
NEMA ENCLOSURE: NEMA 1
VOLTS: 208/120 WYE
PHASES: 3
WIRES: 4
INTEGRAL SPD: Yes
AVAILABLE SCC (KA): 10
MAINS TYPE: MCB
MCB/MLO RATING: 100 A
MCB OPTIONS:
SECTIONS: 1
PANEL POLES: 24

Table with columns: CKT, CIRCUIT DESCRIPTION, OPT, RATING, POLES, A, B, C, POLES/RATING, OPT, CIRCUIT DESCRIPTION, CKT. Includes rows for REC-IT RACK TR-F2-106, SPARE, and SSQU-F2-106/SSAH-F2-106.

TOTAL LOAD: 3398 VA, 3332 VA, 2207 VA
TOTAL AMPS: 30 A, 29 A, 18 A

LOAD CLASSIFICATION table with columns: CONNECTED LOAD, DEMAND FACTOR, ESTIMATED DEMAND, PANEL TOTALS. Includes rows for LTG, PWR-C, REC, MEQ-C.

DEMAND LOAD: 8936 VA
DEMAND CURRENT: 25 A
CONSIDER 125% DEMAND: 11035 VA
EQUIPMENT AMPS: 100 A
FEEDER AVAILABLE:
SPARE CAPACITY: 69 %

OPTIONS:
CIRCUIT BREAKER OPTIONS SUFFIX: 'S' OR 'ST' - PROVIDE SHUNT TRIP CIRCUIT BREAKER / 'G' OR 'GFCI' - PROVIDE GFCI CIRCUIT BREAKER / 'GFP' - PROVIDE GFP CIRCUIT BREAKER / 'ERMS' - ENERGY REDUCING MAINTENANCE SWITCH / 'ZSI' - ZONE SELECTIVE INTERLOCKING / 'L' - PROVIDE CIRCUIT BREAKER WITH LOCKING PROVISIONS / 'R' - PROVIDE CIRCUIT BREAKER WITH RED MARKING

GENERAL REMARKS:
A. PANEL A/C (INTERRUPTING) RATING SHALL BE MINIMUM 120% OF THE AVAILABLE SCC (SHORT CIRCUIT CURRENT).
B. BUS A PANEL
C. WHERE NEW PANELS ARE SHOWN AT TELECOM PLYWOOD LOCATIONS, MOUNT PANELS TO PLYWOOD.

PANEL: 137-TR-EM-2C

LOCATION: TR D2-114
SUPPLY FROM: 137-TR-EM-DP
BRANCH: EMERGENCY
SERVICE RATED: No
MOUNTING: SURFACE
NEMA ENCLOSURE: NEMA 1
VOLTS: 208/120 WYE
PHASES: 3
WIRES: 4
INTEGRAL SPD: Yes
AVAILABLE SCC (KA): 10
MAINS TYPE: MCB
MCB/MLO RATING: 100 A
MCB OPTIONS:
SECTIONS: 1
PANEL POLES: 24

Table with columns: CKT, CIRCUIT DESCRIPTION, OPT, RATING, POLES, A, B, C, POLES/RATING, OPT, CIRCUIT DESCRIPTION, CKT. Includes rows for REC-IT RACK TR-D2-114, SPARE, and SSQU-D2-114/SSAH-D2-114.

TOTAL LOAD: 4232 VA, 3431 VA, 1667 VA
TOTAL AMPS: 38 A, 31 A, 14 A

LOAD CLASSIFICATION table with columns: CONNECTED LOAD, DEMAND FACTOR, ESTIMATED DEMAND, PANEL TOTALS. Includes rows for LTG, PWR-C, REC, MEQ-C.

DEMAND LOAD: 9329 VA
DEMAND CURRENT: 26 A
CONSIDER 125% DEMAND: 11438 VA
EQUIPMENT AMPS: 100 A
FEEDER AVAILABLE:
SPARE CAPACITY: 68 %

OPTIONS:
CIRCUIT BREAKER OPTIONS SUFFIX: 'S' OR 'ST' - PROVIDE SHUNT TRIP CIRCUIT BREAKER / 'G' OR 'GFCI' - PROVIDE GFCI CIRCUIT BREAKER / 'GFP' - PROVIDE GFP CIRCUIT BREAKER / 'ERMS' - ENERGY REDUCING MAINTENANCE SWITCH / 'ZSI' - ZONE SELECTIVE INTERLOCKING / 'L' - PROVIDE CIRCUIT BREAKER WITH LOCKING PROVISIONS / 'R' - PROVIDE CIRCUIT BREAKER WITH RED MARKING

GENERAL REMARKS:
A. PANEL A/C (INTERRUPTING) RATING SHALL BE MINIMUM 120% OF THE AVAILABLE SCC (SHORT CIRCUIT CURRENT).
B. BUS A PANEL
C. WHERE NEW PANELS ARE SHOWN AT TELECOM PLYWOOD LOCATIONS, MOUNT PANELS TO PLYWOOD.

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Automated Draw: 202475-008 - VA TUSCALOOSA EHRM Infrastructure Upgrades/202475-008 - VA EHRM TUSCALOOSA P50 - D137.rvt

Revisions table with columns: Revisions, Date.

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Office of Construction and Facilities Management, U.S. Department of Veterans Affairs

Drawing Title: ELECTRICAL PANEL SCHEDULES. Approved: [Signature]

Phase: 100% CONSTRUCTION DOCUMENTS. FULLY SPRINKLERED

Project Title: EHRM INFRASTRUCTURE UPGRADES. Project Number: 679-20-104. Building Number: 137. Drawing Number: E-137.702. Issue Date: 03/08/2024. Checked: CGH, Drawn: MJJ

PANEL: 137-TR-3A

LOCATION: TR H3-103 VOLTS: 208/120 WYE MAINS TYPE: MCB
SUPPLY FROM: 137-TR-DP PHASES: 3 MCB/MLO RATING: 100 A
BRANCH: NORMAL WIRES: 4
SERVICE RATED: No INTEGRAL SPD: Yes MCB OPTIONS:
MOUNTING: SURFACE AVAILABLE SCC (KA): 10 SECTIONS: 1
NEMA ENCLOSURE: NEMA 1 PANEL POLES: 24

Table with columns: CKT, CIRCUIT DESCRIPTION, OPT, RATING, POLES, A, B, C, POLES/RATING, OPT, CIRCUIT DESCRIPTION, CKT. Includes rows for REC-IT RACK TR-H3-103 and SPARE components.

TOTAL LOAD: 2567 VA 1667 VA 1667 VA
TOTAL AMPS: 21 A 14 A 14 A

LOAD CLASSIFICATION table with columns: CONNECTED LOAD, DEMAND FACTOR, ESTIMATED DEMAND, PANEL TOTALS. Includes rows for PWR-C, REC, and DEMAND LOAD.

OPTIONS:
CIRCUIT BREAKER OPTIONS SUFFIX: 'S' OR 'ST' - PROVIDE SHUNT TRIP CIRCUIT BREAKER / 'G' OR 'GFCI' - PROVIDE GFCI CIRCUIT BREAKER / 'GFP' - PROVIDE GFP CIRCUIT BREAKER / 'ERMS' - ENERGY REDUCING MAINTENANCE SWITCH / 'ZSI' - ZONE SELECTIVE INTERLOCKING / 'L' - PROVIDE CIRCUIT BREAKER WITH LOCKING PROVISIONS / 'R' - PROVIDE CIRCUIT BREAKER WITH RED MARKING

GENERAL REMARKS:
A. PANEL A/C (INTERRUPTING) RATING SHALL BE MINIMUM 120% OF THE AVAILABLE SCC (SHORT CIRCUIT CURRENT).
B. BUS B PANEL.
C. WHERE NEW PANELS ARE SHOWN AT TELECOM PLYWOOD LOCATIONS, MOUNT PANELS TO PLYWOOD.

PANEL: 137-TR-3B

LOCATION: TR F3-106 VOLTS: 208/120 WYE MAINS TYPE: MCB
SUPPLY FROM: 137-TR-DP PHASES: 3 MCB/MLO RATING: 100 A
BRANCH: NORMAL WIRES: 4
SERVICE RATED: No INTEGRAL SPD: Yes MCB OPTIONS:
MOUNTING: SURFACE AVAILABLE SCC (KA): 10 SECTIONS: 1
NEMA ENCLOSURE: NEMA 1 PANEL POLES: 24

Table with columns: CKT, CIRCUIT DESCRIPTION, OPT, RATING, POLES, A, B, C, POLES/RATING, OPT, CIRCUIT DESCRIPTION, CKT. Includes rows for REC-IT RACK TR-F3-106 and SPARE components.

TOTAL LOAD: 2387 VA 1667 VA 1667 VA
TOTAL AMPS: 20 A 14 A 14 A

LOAD CLASSIFICATION table with columns: CONNECTED LOAD, DEMAND FACTOR, ESTIMATED DEMAND, PANEL TOTALS. Includes rows for PWR-C, REC, and DEMAND LOAD.

OPTIONS:
CIRCUIT BREAKER OPTIONS SUFFIX: 'S' OR 'ST' - PROVIDE SHUNT TRIP CIRCUIT BREAKER / 'G' OR 'GFCI' - PROVIDE GFCI CIRCUIT BREAKER / 'GFP' - PROVIDE GFP CIRCUIT BREAKER / 'ERMS' - ENERGY REDUCING MAINTENANCE SWITCH / 'ZSI' - ZONE SELECTIVE INTERLOCKING / 'L' - PROVIDE CIRCUIT BREAKER WITH LOCKING PROVISIONS / 'R' - PROVIDE CIRCUIT BREAKER WITH RED MARKING

GENERAL REMARKS:
A. PANEL A/C (INTERRUPTING) RATING SHALL BE MINIMUM 120% OF THE AVAILABLE SCC (SHORT CIRCUIT CURRENT).
B. BUS B PANEL.
C. WHERE NEW PANELS ARE SHOWN AT TELECOM PLYWOOD LOCATIONS, MOUNT PANELS TO PLYWOOD.

PANEL: 137-TR-3C

LOCATION: TR D3-116 VOLTS: 208/120 WYE MAINS TYPE: MCB
SUPPLY FROM: 137-TR-DP PHASES: 3 MCB/MLO RATING: 100 A
BRANCH: NORMAL WIRES: 4
SERVICE RATED: No INTEGRAL SPD: Yes MCB OPTIONS:
MOUNTING: SURFACE AVAILABLE SCC (KA): 10 SECTIONS: 1
NEMA ENCLOSURE: NEMA 1 PANEL POLES: 24

Table with columns: CKT, CIRCUIT DESCRIPTION, OPT, RATING, POLES, A, B, C, POLES/RATING, OPT, CIRCUIT DESCRIPTION, CKT. Includes rows for REC-IT RACK TR-D3-116 and SPARE components.

TOTAL LOAD: 2387 VA 1667 VA 1667 VA
TOTAL AMPS: 20 A 14 A 14 A

LOAD CLASSIFICATION table with columns: CONNECTED LOAD, DEMAND FACTOR, ESTIMATED DEMAND, PANEL TOTALS. Includes rows for PWR-C, REC, and DEMAND LOAD.

OPTIONS:
CIRCUIT BREAKER OPTIONS SUFFIX: 'S' OR 'ST' - PROVIDE SHUNT TRIP CIRCUIT BREAKER / 'G' OR 'GFCI' - PROVIDE GFCI CIRCUIT BREAKER / 'GFP' - PROVIDE GFP CIRCUIT BREAKER / 'ERMS' - ENERGY REDUCING MAINTENANCE SWITCH / 'ZSI' - ZONE SELECTIVE INTERLOCKING / 'L' - PROVIDE CIRCUIT BREAKER WITH LOCKING PROVISIONS / 'R' - PROVIDE CIRCUIT BREAKER WITH RED MARKING

GENERAL REMARKS:
A. PANEL A/C (INTERRUPTING) RATING SHALL BE MINIMUM 120% OF THE AVAILABLE SCC (SHORT CIRCUIT CURRENT).
B. BUS B PANEL.
C. WHERE NEW PANELS ARE SHOWN AT TELECOM PLYWOOD LOCATIONS, MOUNT PANELS TO PLYWOOD.

PANEL: 137-TR-EM-3A

LOCATION: TR H3-103 VOLTS: 208/120 WYE MAINS TYPE: MCB
SUPPLY FROM: 137-TR-EM-DP PHASES: 3 MCB/MLO RATING: 100 A
BRANCH: EMERGENCY WIRES: 4
SERVICE RATED: No INTEGRAL SPD: Yes MCB OPTIONS:
MOUNTING: SURFACE AVAILABLE SCC (KA): 10 SECTIONS: 1
NEMA ENCLOSURE: NEMA 1 PANEL POLES: 24

Table with columns: CKT, CIRCUIT DESCRIPTION, OPT, RATING, POLES, A, B, C, POLES/RATING, OPT, CIRCUIT DESCRIPTION, CKT. Includes rows for REC-IT RACK TR-H3-103, SSCU-H3-103/SSAH-H3-103, and SPARE components.

TOTAL LOAD: 4052 VA 3398 VA 1667 VA
TOTAL AMPS: 36 A 31 A 14 A

LOAD CLASSIFICATION table with columns: CONNECTED LOAD, DEMAND FACTOR, ESTIMATED DEMAND, PANEL TOTALS. Includes rows for LTG, PWR-C, REC, MEG-C, and DEMAND LOAD.

OPTIONS:
CIRCUIT BREAKER OPTIONS SUFFIX: 'S' OR 'ST' - PROVIDE SHUNT TRIP CIRCUIT BREAKER / 'G' OR 'GFCI' - PROVIDE GFCI CIRCUIT BREAKER / 'GFP' - PROVIDE GFP CIRCUIT BREAKER / 'ERMS' - ENERGY REDUCING MAINTENANCE SWITCH / 'ZSI' - ZONE SELECTIVE INTERLOCKING / 'L' - PROVIDE CIRCUIT BREAKER WITH LOCKING PROVISIONS / 'R' - PROVIDE CIRCUIT BREAKER WITH RED MARKING

GENERAL REMARKS:
A. PANEL A/C (INTERRUPTING) RATING SHALL BE MINIMUM 120% OF THE AVAILABLE SCC (SHORT CIRCUIT CURRENT).
B. BUS A PANEL.
C. WHERE NEW PANELS ARE SHOWN AT TELECOM PLYWOOD LOCATIONS, MOUNT PANELS TO PLYWOOD.

PANEL: 137-TR-EM-3B

LOCATION: TR F3-106 VOLTS: 208/120 WYE MAINS TYPE: MCB
SUPPLY FROM: 137-TR-EM-DP PHASES: 3 MCB/MLO RATING: 100 A
BRANCH: EMERGENCY WIRES: 4
SERVICE RATED: No INTEGRAL SPD: Yes MCB OPTIONS:
MOUNTING: SURFACE AVAILABLE SCC (KA): 10 SECTIONS: 1
NEMA ENCLOSURE: NEMA 1 PANEL POLES: 24

Table with columns: CKT, CIRCUIT DESCRIPTION, OPT, RATING, POLES, A, B, C, POLES/RATING, OPT, CIRCUIT DESCRIPTION, CKT. Includes rows for REC-IT RACK TR-F3-106, SSCU-F3-106/SSAH-F3-106, and SPARE components.

TOTAL LOAD: 3872 VA 3398 VA 1667 VA
TOTAL AMPS: 34 A 31 A 14 A

LOAD CLASSIFICATION table with columns: CONNECTED LOAD, DEMAND FACTOR, ESTIMATED DEMAND, PANEL TOTALS. Includes rows for LTG, PWR-C, REC, MEG-C, and DEMAND LOAD.

OPTIONS:
CIRCUIT BREAKER OPTIONS SUFFIX: 'S' OR 'ST' - PROVIDE SHUNT TRIP CIRCUIT BREAKER / 'G' OR 'GFCI' - PROVIDE GFCI CIRCUIT BREAKER / 'GFP' - PROVIDE GFP CIRCUIT BREAKER / 'ERMS' - ENERGY REDUCING MAINTENANCE SWITCH / 'ZSI' - ZONE SELECTIVE INTERLOCKING / 'L' - PROVIDE CIRCUIT BREAKER WITH LOCKING PROVISIONS / 'R' - PROVIDE CIRCUIT BREAKER WITH RED MARKING

GENERAL REMARKS:
A. PANEL A/C (INTERRUPTING) RATING SHALL BE MINIMUM 120% OF THE AVAILABLE SCC (SHORT CIRCUIT CURRENT).
B. BUS A PANEL.
C. WHERE NEW PANELS ARE SHOWN AT TELECOM PLYWOOD LOCATIONS, MOUNT PANELS TO PLYWOOD.

PANEL: 137-TR-EM-3C

LOCATION: TR D3-116 VOLTS: 208/120 WYE MAINS TYPE: MCB
SUPPLY FROM: 137-TR-EM-DP PHASES: 3 MCB/MLO RATING: 100 A
BRANCH: EMERGENCY WIRES: 4
SERVICE RATED: No INTEGRAL SPD: Yes MCB OPTIONS:
MOUNTING: SURFACE AVAILABLE SCC (KA): 10 SECTIONS: 1
NEMA ENCLOSURE: NEMA 1 PANEL POLES: 24

Table with columns: CKT, CIRCUIT DESCRIPTION, OPT, RATING, POLES, A, B, C, POLES/RATING, OPT, CIRCUIT DESCRIPTION, CKT. Includes rows for REC-IT RACK TR-D3-116, SSCU-D3-116/SSAH-D3-116, and SPARE components.

TOTAL LOAD: 4052 VA 3398 VA 1667 VA
TOTAL AMPS: 36 A 31 A 14 A

LOAD CLASSIFICATION table with columns: CONNECTED LOAD, DEMAND FACTOR, ESTIMATED DEMAND, PANEL TOTALS. Includes rows for LTG, PWR-C, REC, MEG-C, and DEMAND LOAD.

OPTIONS:
CIRCUIT BREAKER OPTIONS SUFFIX: 'S' OR 'ST' - PROVIDE SHUNT TRIP CIRCUIT BREAKER / 'G' OR 'GFCI' - PROVIDE GFCI CIRCUIT BREAKER / 'GFP' - PROVIDE GFP CIRCUIT BREAKER / 'ERMS' - ENERGY REDUCING MAINTENANCE SWITCH / 'ZSI' - ZONE SELECTIVE INTERLOCKING / 'L' - PROVIDE CIRCUIT BREAKER WITH LOCKING PROVISIONS / 'R' - PROVIDE CIRCUIT BREAKER WITH RED MARKING

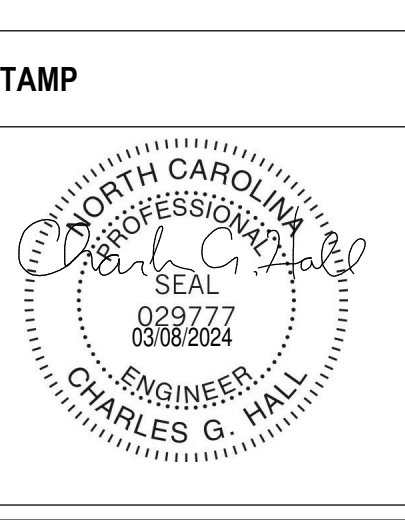
GENERAL REMARKS:
A. PANEL A/C (INTERRUPTING) RATING SHALL BE MINIMUM 120% OF THE AVAILABLE SCC (SHORT CIRCUIT CURRENT).
B. BUS A PANEL.
C. WHERE NEW PANELS ARE SHOWN AT TELECOM PLYWOOD LOCATIONS, MOUNT PANELS TO PLYWOOD.

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Revisions table with columns: Revisions, Date.

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Office of Construction and Facilities Management, VA U.S. Department of Veterans Affairs

Drawing Title: ELECTRICAL PANEL SCHEDULES. Approved: [Signature]

Phase: 100% CONSTRUCTION DOCUMENTS. FULLY SPRINKLERED

Project Title: EHRM INFRASTRUCTURE UPGRADES. Location: TUSCALOOSA VAMC, TUSCALOOSA, AL. Issue Date: 03/08/2024. Checked: CGH, Drawn: MJJ

Project Number: 679-20-104. Building Number: 137. Drawing Number: E-137.703



PANEL: 137-TR-4A

LOCATION: TR J4-100 VOLTS: 208/120 WYE MAINS TYPE: MCB
SUPPLY FROM: 137-TR-DP PHASES: 3 MCB/MLO RATING: 100 A
BRANCH: NORMAL WIRES: 4 SECTIONS: 1
SERVICE RATED: No INTEGRAL SPD: Yes AVAILABLE SCC (KA): 10 PANEL POLES: 24
MOUNTING: SURFACE
NEMA ENCLOSURE: NEMA 1

Table with columns: CKT, CIRCUIT DESCRIPTION, OPT, RATING, POLES, A, B, C, POLES/RATING, OPT, CIRCUIT DESCRIPTION, CKT. Includes rows for REC-IT RACK TR-J4-100 and SPARE components.

LOAD CLASSIFICATION table with columns: CONNECTED LOAD, DEMAND FACTOR, ESTIMATED DEMAND, PANEL TOTALS. Includes rows for PWR-C, REC, and DEMAND LOAD.

OPTIONS: CIRCUIT BREAKER OPTIONS SUFFIX: 'S' OR 'ST' - PROVIDE SHUNT TRIP CIRCUIT BREAKER / 'G' OR 'GFCI' - PROVIDE GFCI CIRCUIT BREAKER / 'GFP' - PROVIDE GFP CIRCUIT BREAKER / 'ERMS' - ENERGY REDUCING MAINTENANCE SWITCH / 'ZSI' - ZONE SELECTIVE INTERLOCKING / 'L' - PROVIDE CIRCUIT BREAKER WITH LOCKING PROVISIONS / 'R' - PROVIDE CIRCUIT BREAKER WITH RED MARKING

GENERAL REMARKS: A. PANEL A/C (INTERRUPTING) RATING SHALL BE MINIMUM 120% OF THE AVAILABLE SCC (SHORT CIRCUIT CURRENT). B. BUS B PANEL. C. WHERE NEW PANELS ARE SHOWN AT TELECOM PLYWOOD LOCATIONS, MOUNT PANELS TO PLYWOOD.

PANEL: 137-TR-4B

LOCATION: TR F4-106 VOLTS: 208/120 WYE MAINS TYPE: MCB
SUPPLY FROM: 137-TR-DP PHASES: 3 MCB/MLO RATING: 100 A
BRANCH: NORMAL WIRES: 4 SECTIONS: 1
SERVICE RATED: No INTEGRAL SPD: Yes AVAILABLE SCC (KA): 10 PANEL POLES: 24
MOUNTING: SURFACE
NEMA ENCLOSURE: NEMA 1

Table with columns: CKT, CIRCUIT DESCRIPTION, OPT, RATING, POLES, A, B, C, POLES/RATING, OPT, CIRCUIT DESCRIPTION, CKT. Includes rows for REC-IT RACK TR-F4-106 and SPARE components.

LOAD CLASSIFICATION table with columns: CONNECTED LOAD, DEMAND FACTOR, ESTIMATED DEMAND, PANEL TOTALS. Includes rows for PWR-C, REC, and DEMAND LOAD.

OPTIONS: CIRCUIT BREAKER OPTIONS SUFFIX: 'S' OR 'ST' - PROVIDE SHUNT TRIP CIRCUIT BREAKER / 'G' OR 'GFCI' - PROVIDE GFCI CIRCUIT BREAKER / 'GFP' - PROVIDE GFP CIRCUIT BREAKER / 'ERMS' - ENERGY REDUCING MAINTENANCE SWITCH / 'ZSI' - ZONE SELECTIVE INTERLOCKING / 'L' - PROVIDE CIRCUIT BREAKER WITH LOCKING PROVISIONS / 'R' - PROVIDE CIRCUIT BREAKER WITH RED MARKING

GENERAL REMARKS: A. PANEL A/C (INTERRUPTING) RATING SHALL BE MINIMUM 120% OF THE AVAILABLE SCC (SHORT CIRCUIT CURRENT). B. BUS B PANEL. C. WHERE NEW PANELS ARE SHOWN AT TELECOM PLYWOOD LOCATIONS, MOUNT PANELS TO PLYWOOD.

PANEL: 137-TR-4C

LOCATION: TR B4-107 VOLTS: 208/120 WYE MAINS TYPE: MCB
SUPPLY FROM: 137-TR-DP PHASES: 3 MCB/MLO RATING: 100 A
BRANCH: NORMAL WIRES: 4 SECTIONS: 1
SERVICE RATED: No INTEGRAL SPD: Yes AVAILABLE SCC (KA): 10 PANEL POLES: 24
MOUNTING: SURFACE
NEMA ENCLOSURE: NEMA 1

Table with columns: CKT, CIRCUIT DESCRIPTION, OPT, RATING, POLES, A, B, C, POLES/RATING, OPT, CIRCUIT DESCRIPTION, CKT. Includes rows for REC-IT RACK TR-B4-107 and SPARE components.

LOAD CLASSIFICATION table with columns: CONNECTED LOAD, DEMAND FACTOR, ESTIMATED DEMAND, PANEL TOTALS. Includes rows for PWR-C, REC, and DEMAND LOAD.

OPTIONS: CIRCUIT BREAKER OPTIONS SUFFIX: 'S' OR 'ST' - PROVIDE SHUNT TRIP CIRCUIT BREAKER / 'G' OR 'GFCI' - PROVIDE GFCI CIRCUIT BREAKER / 'GFP' - PROVIDE GFP CIRCUIT BREAKER / 'ERMS' - ENERGY REDUCING MAINTENANCE SWITCH / 'ZSI' - ZONE SELECTIVE INTERLOCKING / 'L' - PROVIDE CIRCUIT BREAKER WITH LOCKING PROVISIONS / 'R' - PROVIDE CIRCUIT BREAKER WITH RED MARKING

GENERAL REMARKS: A. PANEL A/C (INTERRUPTING) RATING SHALL BE MINIMUM 120% OF THE AVAILABLE SCC (SHORT CIRCUIT CURRENT). B. BUS B PANEL. C. WHERE NEW PANELS ARE SHOWN AT TELECOM PLYWOOD LOCATIONS, MOUNT PANELS TO PLYWOOD.

PANEL: 137-TR-EM-4A

LOCATION: TR J4-100 VOLTS: 208/120 WYE MAINS TYPE: MCB
SUPPLY FROM: 137-TR-EM-DP PHASES: 3 MCB/MLO RATING: 100 A
BRANCH: EMERGENCY WIRES: 4 SECTIONS: 1
SERVICE RATED: No INTEGRAL SPD: Yes AVAILABLE SCC (KA): 10 PANEL POLES: 24
MOUNTING: SURFACE
NEMA ENCLOSURE: NEMA 1

Table with columns: CKT, CIRCUIT DESCRIPTION, OPT, RATING, POLES, A, B, C, POLES/RATING, OPT, CIRCUIT DESCRIPTION, CKT. Includes rows for REC-IT RACK TR-J4-100, SSCU-J4-100/SSAH-J4-100, and SPARE components.

LOAD CLASSIFICATION table with columns: CONNECTED LOAD, DEMAND FACTOR, ESTIMATED DEMAND, PANEL TOTALS. Includes rows for LTG, PWR-C, REC, MEQ-C, and DEMAND LOAD.

OPTIONS: CIRCUIT BREAKER OPTIONS SUFFIX: 'S' OR 'ST' - PROVIDE SHUNT TRIP CIRCUIT BREAKER / 'G' OR 'GFCI' - PROVIDE GFCI CIRCUIT BREAKER / 'GFP' - PROVIDE GFP CIRCUIT BREAKER / 'ERMS' - ENERGY REDUCING MAINTENANCE SWITCH / 'ZSI' - ZONE SELECTIVE INTERLOCKING / 'L' - PROVIDE CIRCUIT BREAKER WITH LOCKING PROVISIONS / 'R' - PROVIDE CIRCUIT BREAKER WITH RED MARKING

GENERAL REMARKS: A. PANEL A/C (INTERRUPTING) RATING SHALL BE MINIMUM 120% OF THE AVAILABLE SCC (SHORT CIRCUIT CURRENT). B. BUS A PANEL. C. WHERE NEW PANELS ARE SHOWN AT TELECOM PLYWOOD LOCATIONS, MOUNT PANELS TO PLYWOOD.

PANEL: 137-TR-EM-4B

LOCATION: TR F4-106 VOLTS: 208/120 WYE MAINS TYPE: MCB
SUPPLY FROM: 137-TR-EM-DP PHASES: 3 MCB/MLO RATING: 100 A
BRANCH: EMERGENCY WIRES: 4 SECTIONS: 1
SERVICE RATED: No INTEGRAL SPD: Yes AVAILABLE SCC (KA): 10 PANEL POLES: 24
MOUNTING: SURFACE
NEMA ENCLOSURE: NEMA 1

Table with columns: CKT, CIRCUIT DESCRIPTION, OPT, RATING, POLES, A, B, C, POLES/RATING, OPT, CIRCUIT DESCRIPTION, CKT. Includes rows for REC-IT RACK TR-F4-106, SSCU-F4-106/SSAH-F4-106, and SPARE components.

LOAD CLASSIFICATION table with columns: CONNECTED LOAD, DEMAND FACTOR, ESTIMATED DEMAND, PANEL TOTALS. Includes rows for LTG, PWR-C, REC, MEQ-C, and DEMAND LOAD.

OPTIONS: CIRCUIT BREAKER OPTIONS SUFFIX: 'S' OR 'ST' - PROVIDE SHUNT TRIP CIRCUIT BREAKER / 'G' OR 'GFCI' - PROVIDE GFCI CIRCUIT BREAKER / 'GFP' - PROVIDE GFP CIRCUIT BREAKER / 'ERMS' - ENERGY REDUCING MAINTENANCE SWITCH / 'ZSI' - ZONE SELECTIVE INTERLOCKING / 'L' - PROVIDE CIRCUIT BREAKER WITH LOCKING PROVISIONS / 'R' - PROVIDE CIRCUIT BREAKER WITH RED MARKING

GENERAL REMARKS: A. PANEL A/C (INTERRUPTING) RATING SHALL BE MINIMUM 120% OF THE AVAILABLE SCC (SHORT CIRCUIT CURRENT). B. BUS A PANEL. C. WHERE NEW PANELS ARE SHOWN AT TELECOM PLYWOOD LOCATIONS, MOUNT PANELS TO PLYWOOD.

PANEL: 137-TR-EM-4C

LOCATION: TR B4-107 VOLTS: 208/120 WYE MAINS TYPE: MCB
SUPPLY FROM: 137-TR-EM-DP PHASES: 3 MCB/MLO RATING: 100 A
BRANCH: EMERGENCY WIRES: 4 SECTIONS: 1
SERVICE RATED: No INTEGRAL SPD: Yes AVAILABLE SCC (KA): 10 PANEL POLES: 24
MOUNTING: SURFACE
NEMA ENCLOSURE: NEMA 1

Table with columns: CKT, CIRCUIT DESCRIPTION, OPT, RATING, POLES, A, B, C, POLES/RATING, OPT, CIRCUIT DESCRIPTION, CKT. Includes rows for REC-IT RACK TR-B4-107, SSCU-B4-107/SSAH-B4-107, and SPARE components.

LOAD CLASSIFICATION table with columns: CONNECTED LOAD, DEMAND FACTOR, ESTIMATED DEMAND, PANEL TOTALS. Includes rows for LTG, PWR-C, REC, MEQ-C, and DEMAND LOAD.

OPTIONS: CIRCUIT BREAKER OPTIONS SUFFIX: 'S' OR 'ST' - PROVIDE SHUNT TRIP CIRCUIT BREAKER / 'G' OR 'GFCI' - PROVIDE GFCI CIRCUIT BREAKER / 'GFP' - PROVIDE GFP CIRCUIT BREAKER / 'ERMS' - ENERGY REDUCING MAINTENANCE SWITCH / 'ZSI' - ZONE SELECTIVE INTERLOCKING / 'L' - PROVIDE CIRCUIT BREAKER WITH LOCKING PROVISIONS / 'R' - PROVIDE CIRCUIT BREAKER WITH RED MARKING

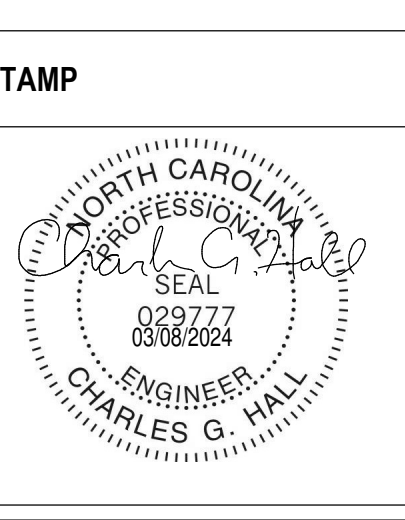
GENERAL REMARKS: A. PANEL A/C (INTERRUPTING) RATING SHALL BE MINIMUM 120% OF THE AVAILABLE SCC (SHORT CIRCUIT CURRENT). B. BUS A PANEL. C. WHERE NEW PANELS ARE SHOWN AT TELECOM PLYWOOD LOCATIONS, MOUNT PANELS TO PLYWOOD.

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Revisions table with columns: Revisions, Date.

CONSULTANT: Wiley|Wilson, 127 Nationwide Drive Lynchburg, VA 24502 Phone: 434.947.1901 www.wileywilson.com

ARCHITECT/ENGINEER OF RECORD: Atriax, 102 3rd Avenue, NE PO Box 1629, Hickory, NC 28603 Phone: 828.315.9962 Fax: 828.315.9964 NC Engineering License No.: P-0214 NC Architectural License No.: 51254



Office of Construction and Facilities Management, U.S. Department of Veterans Affairs

Drawing Title: ELECTRICAL PANEL SCHEDULES, Approved: [Signature]

Phase: 100% CONSTRUCTION DOCUMENTS, FULLY SPRINKLERED

Project Title: EHRM INFRASTRUCTURE UPGRADES, Project Number: 679-20-104, Building Number: 137, Drawing Number: E-137.704, Issue Date: 03/08/2024, Checked: CGH, Drawn: MJJ

137-TR-DP

Table with 5 columns: CKT, CIRCUIT DESCRIPTION, OPT, POLES, RATING, Load, CIRCUIT REMARKS. Includes summary rows for Total VA and Panel Totals.

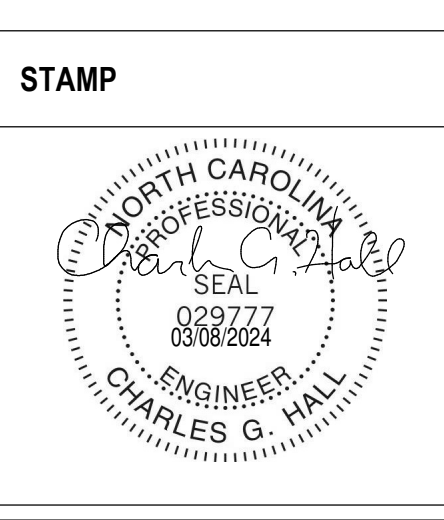
137-TR-EDP

Table with 5 columns: CKT, CIRCUIT DESCRIPTION, OPT, POLES, RATING, Load, CIRCUIT REMARKS. Includes summary rows for Total VA and Panel Totals.

Revisions table with columns for Revision, Date, and Description.

CONSULTANT section featuring Wiley|Wilson and SES Specialized Engineering Solutions logos and contact information.

ARCHITECT/ENGINEER OF RECORD section featuring Atriax Group logo and contact information.



Office of Construction and Facilities Management logo and U.S. Department of Veterans Affairs logo.

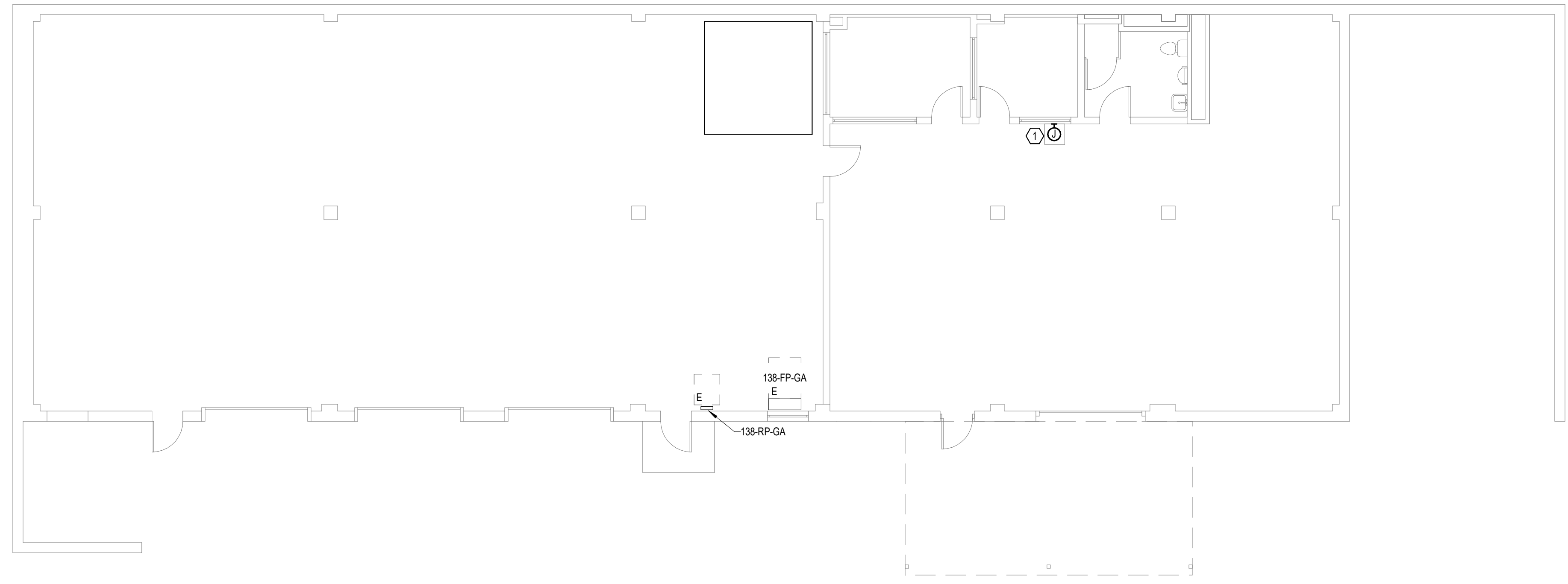
Drawing Title: ELECTRICAL PANEL SCHEDULES. Approved field.

Phase: 100% CONSTRUCTION DOCUMENTS. FULLY SPRINKLERED.

Project Title: EHRM INFRASTRUCTURE UPGRADES. Project Number: 679-20-104. Building Number: 137. Drawing Number: E-137.705.

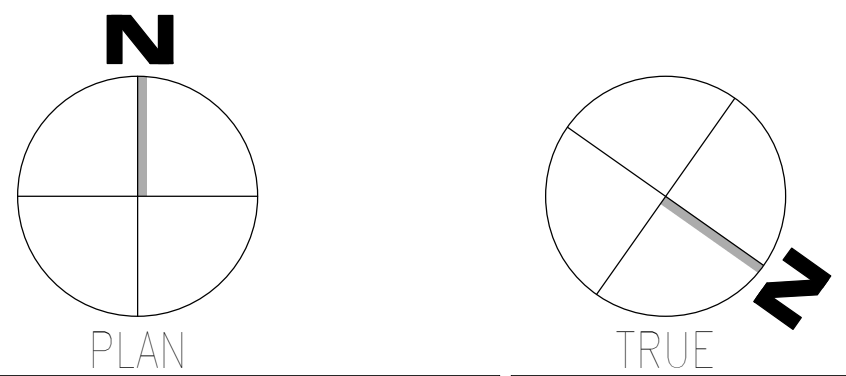
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**GENERAL NOTES:**  
 A REFER TO TELECOM, HVAC, AND FIRE PROTECTION DRAWINGS. COORDINATE LOCATION ON NEW LIGHTING FIXTURES, NEW ELECTRICAL PANELS, AND NEW CABLE TRAY MOUNTED RECEPTACLES WITH OTHER DISCIPLINES.  
**SHEET NOTES:**  
 1 PROVIDE NEW 20A/1P CIRCUIT AND CIRCUIT BREAKER FROM AVAILABLE SPACE IN EXISTING PANEL 138-RP-GA.



**OVERALL FLOOR PLAN  
 GROUND LEVEL -  
 ELECTRICAL**  
 1  
 1/8" = 1'-0"

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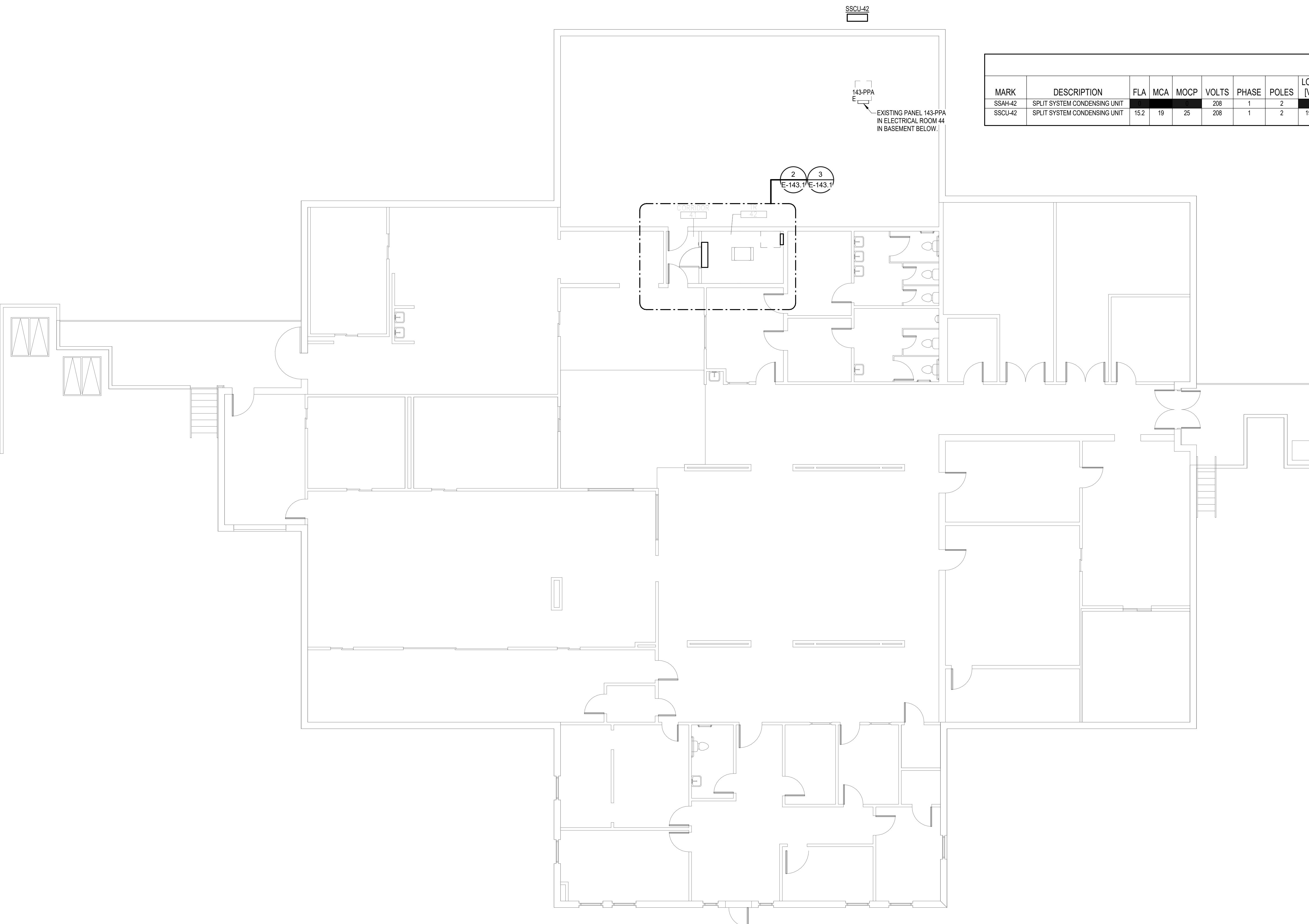


<b>CONSULTANT</b> WileyWilson 127 Nationwide Drive Lynchburg, VA 24502 Phone: 434.947.1901 www.wileywilson.com		<b>ARCHITECT/ENGINEER OF RECORD</b> Atriax, pllc 102 3rd Avenue, NE PO Box 1629, Hickory, NC 28603 Phone: 828.315.9962 Fax: 828.315.9964 www.atriaxgroup.com NC Engineering License No.: P-0214 NC Architectural License No.: 51254		<b>STAMP</b> 	Office of Construction and Facilities Management U.S. Department of Veterans Affairs	Drawing Title <b>BUILDING 138 GROUND LEVEL -                  ELECTRICAL</b> Approved:	Phase <b>100% CONSTRUCTION                  DOCUMENTS</b> <b>FULLY SPRINKLERED</b>	Project Title EHRM INFRASTRUCTURE UPGRADES Location TUSCALOOSA VAMC, TUSCALOOSA, AL. Issue Date 03/08/2024	Project Number 679-20-104 Building Number 138 Drawing Number <b>E-138.G</b>
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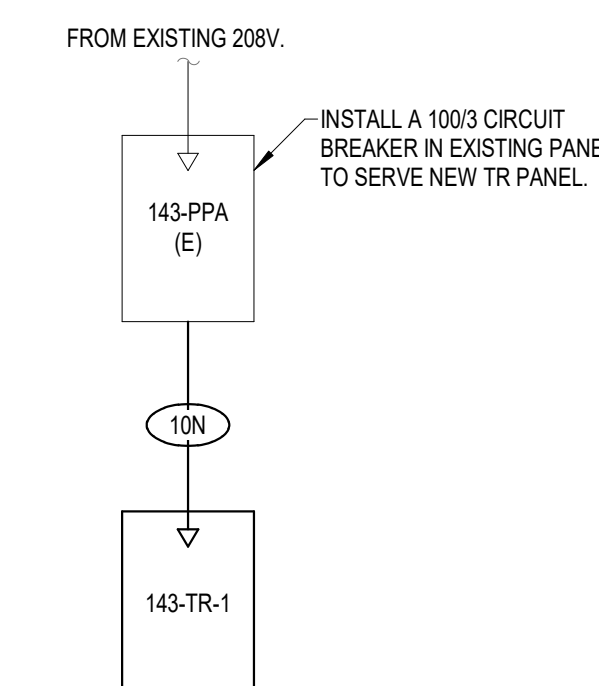
**GENERAL NOTES:**  
 A. REFER TO TELECOM, HVAC, AND FIRE PROTECTION DRAWINGS. COORDINATE LOCATION ON NEW LIGHTING FIXTURES, NEW ELECTRICAL PANELS, AND NEW CABLE TRAY MOUNTED RECEPTACLES WITH OTHER DISCIPLINES.

**SHEET NOTES:**  
 1. REMOVE ALL EXISTING DEVICES AND WIRING BACK TO SOURCE. VISIT SITE TO DETERMINE FULL EXTENT OF DEMOLITION.  
 2. REFER TO EQUIPMENT CONNECTION SCHEDULE.  
 3. PROVIDE RECEPTACLE FOR BUS B. MOUNT RECEPTACLE TO CABLE TRAY ABOVE RACK.  
 4. PROVIDE RECEPTACLE FOR BUS A. MOUNT RECEPTACLE TO CABLE TRAY ABOVE RACK.



MARK	DESCRIPTION	FLA	MCA	MOCP	VOLTS	PHASE	POLES	LOAD [VA]	CONTROL TYPE	DISCONNECT BY	DISCONNECT TYPE	FEEDER	PANEL	CIRCUIT NUMBER	SCCR	GEN	REMARKS
SSAH-42	SPLIT SYSTEM CONDENSING UNIT	15.2	19	25	208	1	2	1960	INT	ELECTRICAL	30A/2P/208V FUSED DISCONNECT SWITCH	(3X) (30A) 2#10 CU, #10 CU GND - 3/4" C.	143-TR-1	13.15	5	Yes	2
SSCU-42	SPLIT SYSTEM CONDENSING UNIT	15.2	19	25	208	1	2	1960	INT	ELECTRICAL	30A/2P/208V FUSED DISCONNECT SWITCH	(3X) (30A) 2#10 CU, #10 CU GND - 3/4" C.	143-TR-1	13.15	5	Yes	1

FEEDER	NOMINAL SIZE	WIRE AND CONDUIT
10N	100 A	4#1 CU, #8 CU GND - 2" C.

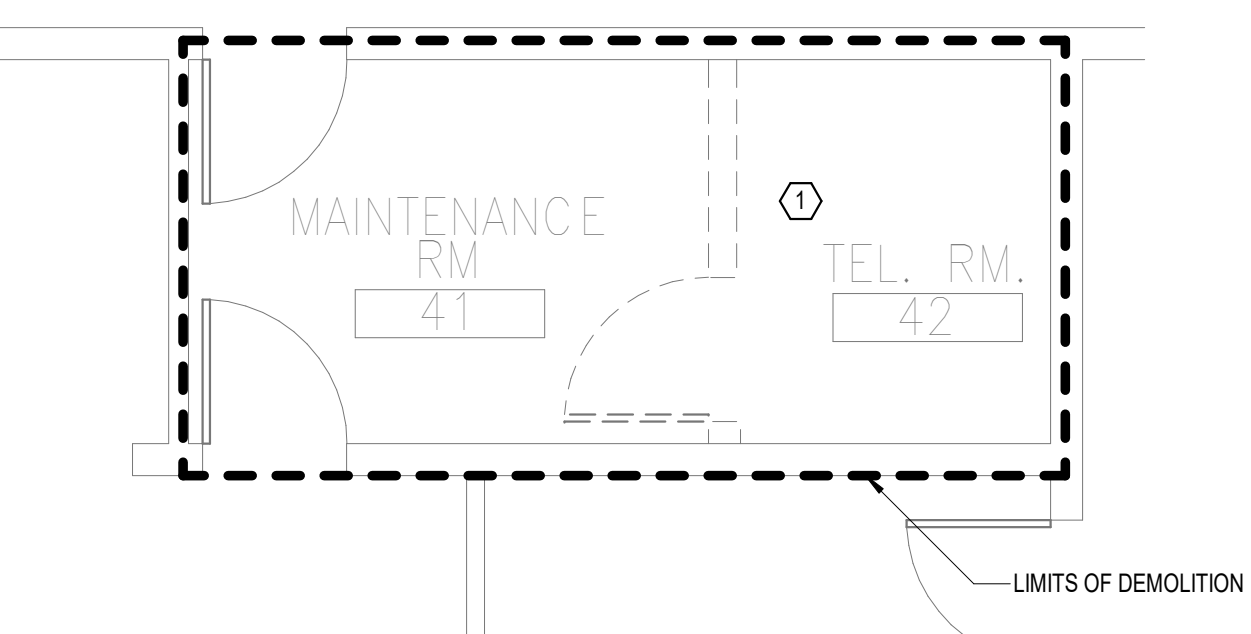


**4 BUILDING 143 - ELECTRICAL ONE-LINE**  
NO SCALE

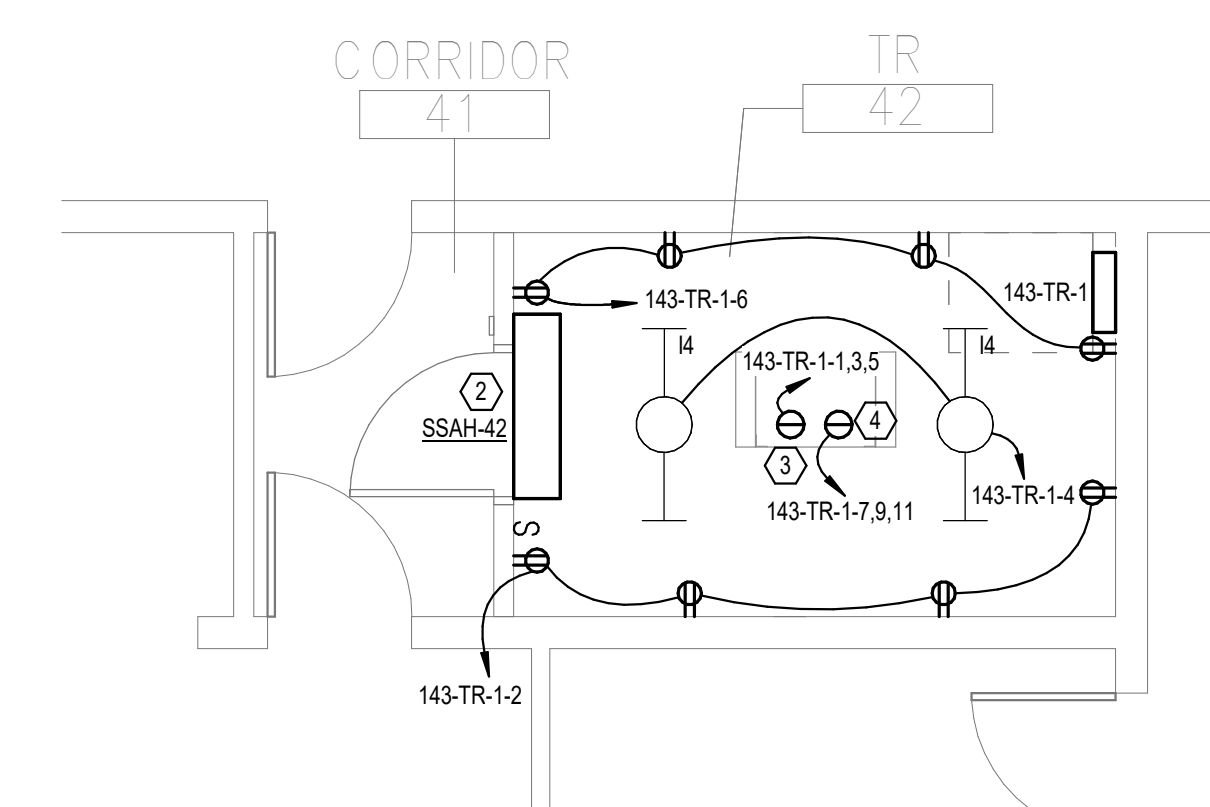
**5 EXISTING PANEL 143-PPA**  
NO SCALE

PANEL: 143-TR-1		VOLTS: 208/120 WYE		MAINS TYPE: MCB								
LOCATION: TR 42		PHASES: 3		MCB/MLO RATINGS: 100 A								
SUPPLY FROM: 143-PPA		BRANCH: NORMAL		MCB OPTIONS:								
SERVICE RATED: No		INTEGRAL SPD: Yes		SECTIONS: 1								
MOUNTING: SURFACE		AVAILABLE SCC (KA): 10		PANEL POLES: 24								
NEMA ENCLOSURE: NEMA 1												
CKT	CIRCUIT DESCRIPTION	OPT	RATING	POLES	A	B	C	POLES RATING	OPT	CIRCUIT DESCRIPTION	CKT	
1					1667 VA	720 VA		1	20 A	REC - TR-42	2	
3	REC - IT RACK TR-42		20 A	3	1667 VA	66 VA		1	20 A	LTG - TR-42	4	
5					1667 VA	0 VA	1667 VA	720 VA	1	20 A	REC - TR-42	6
7					1667 VA	0 VA			1	20 A	SPARE	8
9	REC - IT RACK TR-42		20 A	3	1667 VA	0 VA	1667 VA	0 VA	1	20 A	SPARE	10
11					980 VA	0 VA			1	20 A	SPARE	12
13					980 VA	0 VA			1	20 A	SPARE	14
15	SSCU-42/SSAH-42		25 A	2	980 VA	0 VA			1	20 A	SPARE	16
17	SPACE		--	1	--	--	--	--	1	--	SPACE	18
19	SPACE		--	1	--	--	--	--	1	--	SPACE	20
21	SPACE		--	1	--	--	--	--	1	--	SPACE	22
23	SPACE		--	1	--	--	--	--	1	--	SPACE	24
<b>TOTAL LOAD:</b>			5033 VA		4379 VA		4053 VA					
<b>TOTAL AMPS:</b>			42 A		37 A		34 A					
LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS								
LTG	66 VA	125.00%	83 VA	<b>CONNECTED LOAD:</b> 13486 VA								
PWR-C	10000 VA	125.00%	12500 VA	<b>CONNECTED CURRENT:</b> 57 A								
REC	1440 VA	100.00%	1440 VA	<b>DEMAND LOAD:</b> 16473 VA								
MEQ-C	1960 VA	125.00%	2450 VA	<b>DEMAND CURRENT:</b> 46 A								
				<b>CONSIDER 125% DEMAND:</b> 20591 A								
				<b>EQUIPMENT AMPS:</b> 100 A								
				<b>FEEDER AVAILABLE:</b> 54 %								
				<b>SPARE CAPACITY:</b> 54 A								
<b>OPTIONS:</b>												
CIRCUIT BREAKER OPTIONS SUFFIX: 'S' OR 'ST' - PROVIDE SHUNT TRIP CIRCUIT BREAKER / 'G' OR 'GFCI' - PROVIDE GFCI CIRCUIT BREAKER / 'GFP' - PROVIDE GFP CIRCUIT BREAKER / 'ERMS' - ENERGY REDUCING MAINTENANCE SWITCH / 'ZSF' - ZONE SELECTIVE INTERLOCKING / 'L' - PROVIDE CIRCUIT BREAKER WITH LOCKING PROVISIONS / 'R' - PROVIDE CIRCUIT BREAKER WITH RED MARKING												
<b>GENERAL REMARKS:</b>												
A. PANEL AIC (INTERRUPTING) RATING SHALL BE MINIMUM 120% OF THE AVAILABLE SCC (SHORT CIRCUIT CURRENT).												
B. BUS A AND B PANEL.												
C. WHERE NEW PANELS ARE SHOWN AT TELECOM PLYWOOD LOCATIONS, MOUNT PANELS TO PLYWOOD.												

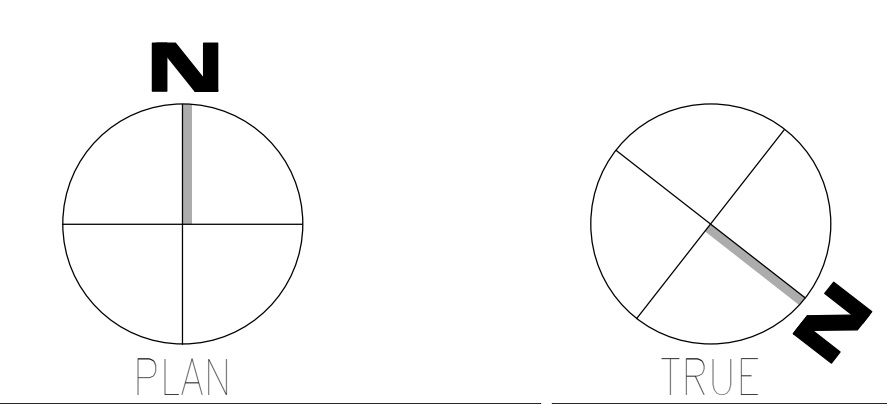
**1 OVERALL FLOOR PLAN LEVEL 01 - ELECTRICAL**  
1/8" = 1'-0"



**2 DEMOLITION FLOOR PLAN LEVEL 01 - ELECTRICAL**  
1/4" = 1'-0"



**3 NEW FLOOR PLAN LEVEL 01 - ELECTRICAL**  
1/4" = 1'-0"

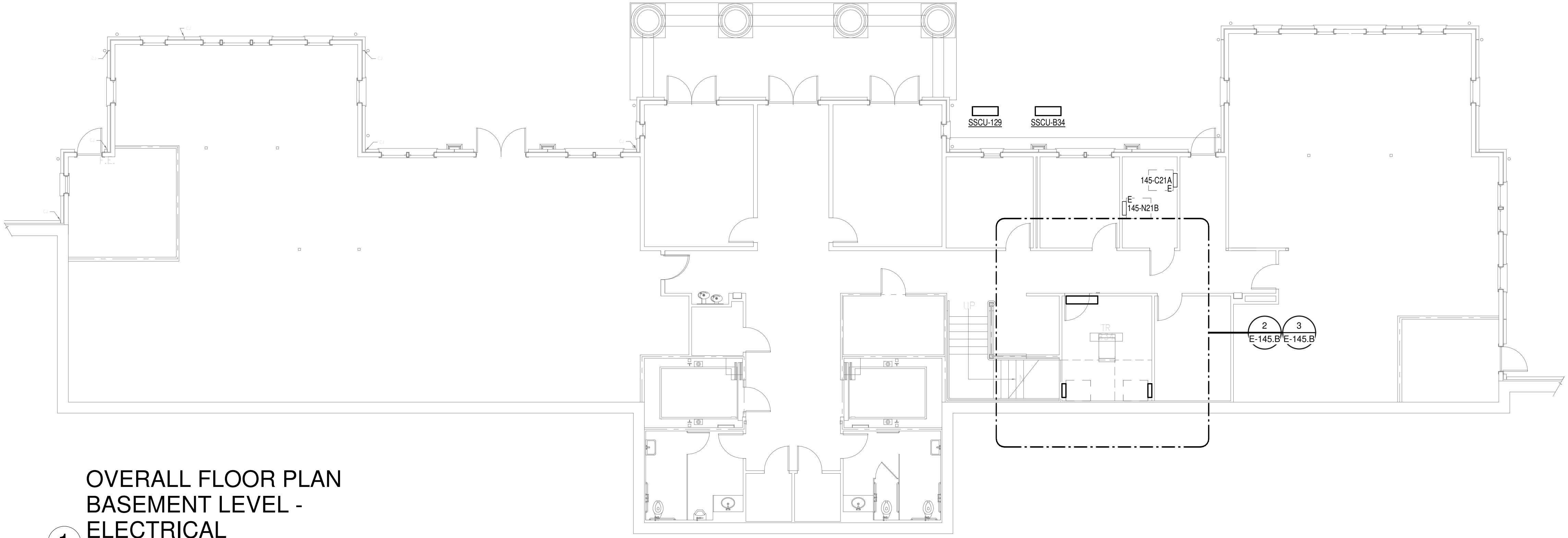


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Revisions:	Date:

<b>CONSULTANT</b>  WileyWilson 127 Nationwide Drive Lynchburg, VA 24502 Phone: 434.947.1901 www.wileywilson.com	<b>ARCHITECT/ENGINEER OF RECORD</b>  Atriax, pllc 102 3rd Avenue, NE PO Box 1629, Hickory, NC 28603 Phone: 828.315.9962 Fax: 828.315.9964 NC Engineering License No.: P-0214 NC Architectural License No.: 51254	<b>STAMP</b> 	Office of Construction and Facilities Management U.S. Department of Veterans Affairs	Drawing Title <b>BUILDING 143 LEVEL 01 - ELECTRICAL</b>	Phase <b>100% CONSTRUCTION DOCUMENTS</b>	Project Title <b>EHRM INFRASTRUCTURE UPGRADES</b>	Project Number <b>679-20-104</b>
				Approved:	<b>FULLY SPRINKLERED</b>	Location <b>TUSCALOOSA VAMC, TUSCALOOSA AL.</b>	Drawing Number <b>E-143.1</b>
Issue Date <b>03/08/2024</b>	Checked <b>CGH</b>	Drawn <b>MJJ</b>	Project Number <b>143</b>				

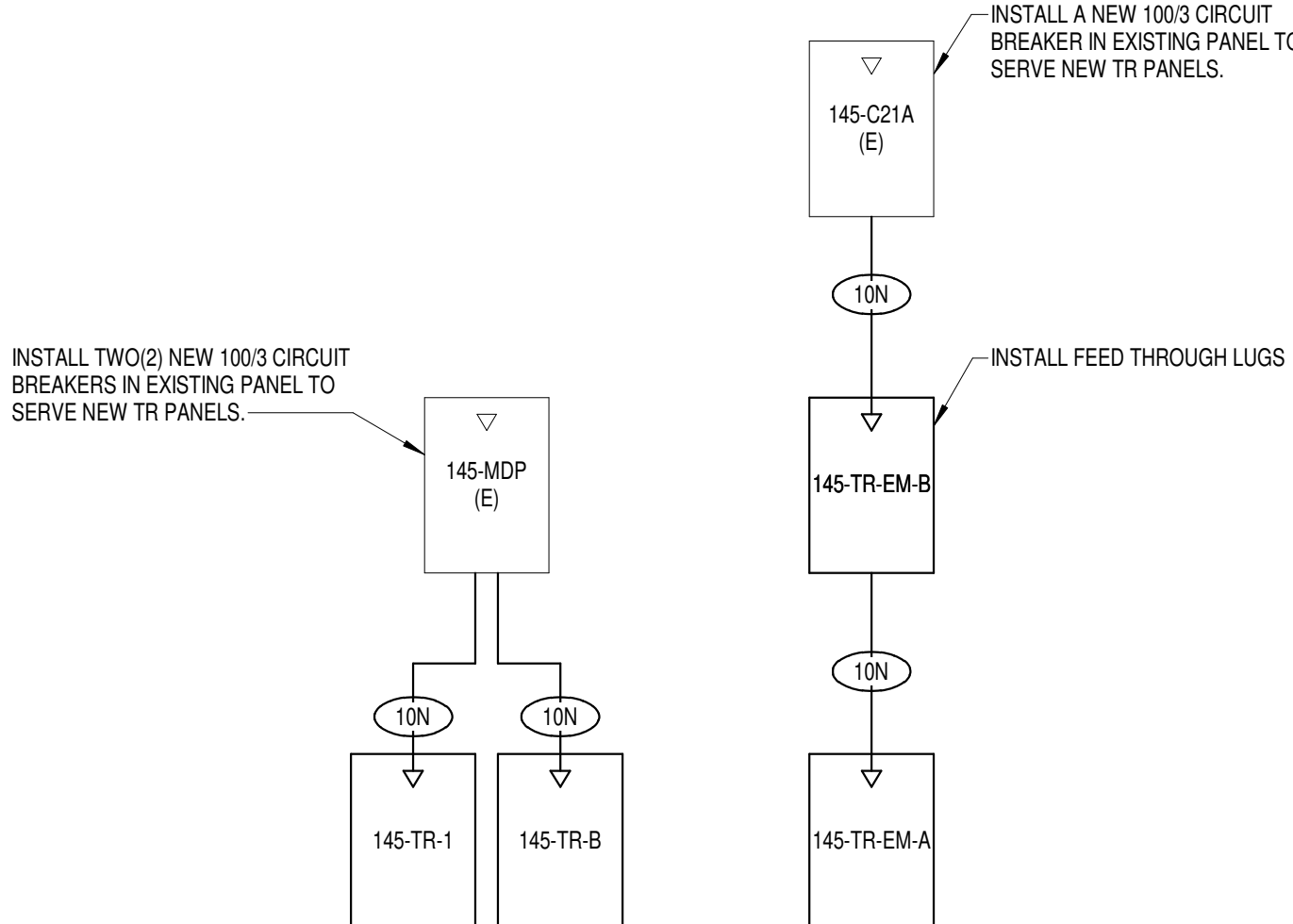
**GENERAL NOTES:**  
 A. REFER TO TELECOM, HVAC, AND FIRE PROTECTION DRAWINGS. COORDINATE LOCATION ON NEW LIGHTING FIXTURES, NEW ELECTRICAL PANELS, AND NEW CABLE TRAY MOUNTED RECEPTACLES WITH OTHER DISCIPLINES.  
**SHEET NOTES:**  
 1. REMOVE ALL EXISTING DEVICES AND WIRING BACK TO SOURCE. VISIT SITE TO DETERMINE FULL EXTENT OF DEMOLITION.  
 2. REFER TO EQUIPMENT CONNECTION SCHEDULE.  
 3. PROVIDE RECEPTACLE FOR BUS B. MOUNT RECEPTACLE TO CABLE TRAY ABOVE RACK.  
 4. PROVIDE RECEPTACLE FOR BUS B. MOUNT RECEPTACLE TO CABLE TRAY ABOVE RACK.



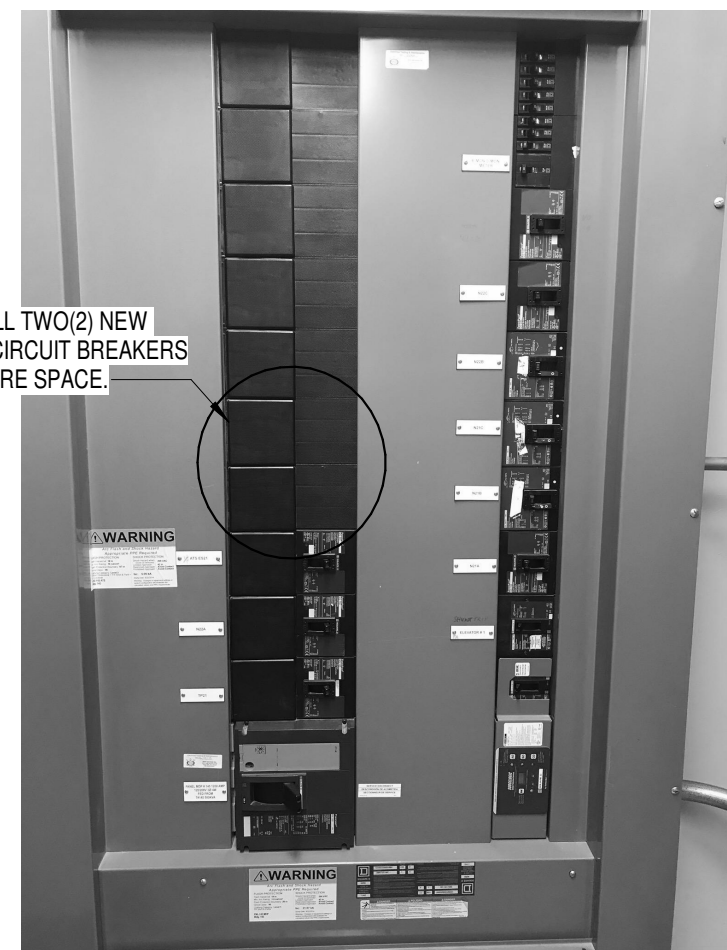
**1**  
**OVERALL FLOOR PLAN**  
**BASEMENT LEVEL -**  
**ELECTRICAL**  
 1/8" = 1'-0"

**FEEDER SCHEDULE - COPPER**

FEEDER	NOMINAL SIZE	WIRE AND CONDUIT
10N	100 A	4#1 CU, #8 CU GND - 2" C.



**4**  
**BUILDING 145 -**  
**ELECTRICAL ONE-LINE**  
 NO SCALE

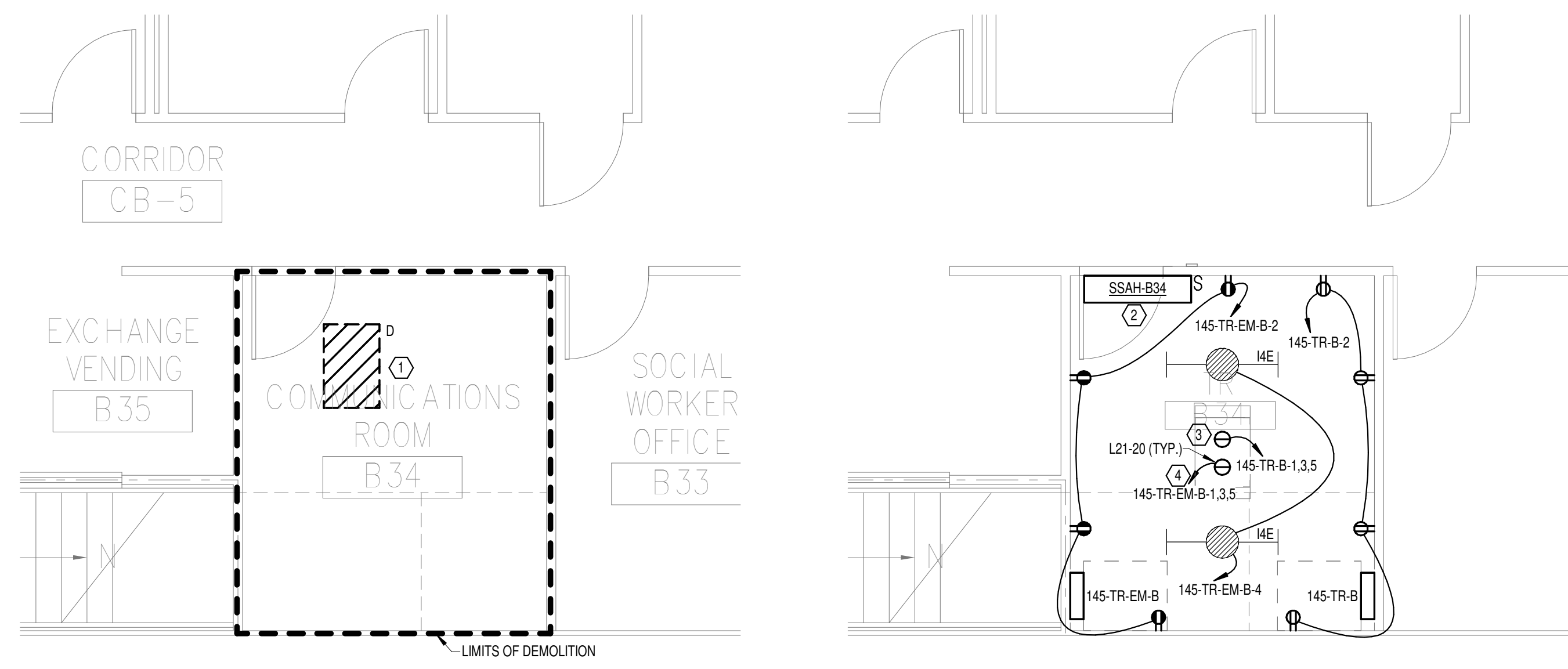


**5**  
**EXISTING PANEL**  
**145-MDP**  
 NO SCALE

**EQUIPMENT CONNECTION SCHEDULE**

MARK	DESCRIPTION	FLA	MCA	MOCP	VOLTS	PHASE	POLES	LOAD [VA]	CONTROL TYPE	DISCONNECT BY	DISCONNECT TYPE	FEEDER	PANEL	CIRCUIT NUMBER	SCCR	GEN	REMARKS
SSAH-129	SPLIT SYSTEM CONDENSING UNIT	15.2	19	25	208	1	2	1960	INT	-	-	(3X) (30A) 2-#10 CU, #10 CU GND - 3/4" C.	145-TR-EM-1	7.9	5	Yes	2
SSAH-834	SPLIT SYSTEM CONDENSING UNIT	15.2	19	25	208	1	2	1960	INT	-	-	(3X) (30A) 2-#10 CU, #10 CU GND - 3/4" C.	145-TR-EM-8	7.9	5	Yes	2
SSCU-129	SPLIT SYSTEM CONDENSING UNIT	15.2	19	25	208	1	2	1960	ELECTRICAL	30A/2P/208V FUSED DISCONNECT SWITCH	-	(3X) (30A) 2-#10 CU, #10 CU GND - 3/4" C.	145-TR-EM-1	7.9	5	Yes	1
SSCU-834	SPLIT SYSTEM CONDENSING UNIT	15.2	19	25	208	1	2	1960	ELECTRICAL	30A/2P/208V FUSED DISCONNECT SWITCH	-	(3X) (30A) 2-#10 CU, #10 CU GND - 3/4" C.	145-TR-EM-8	7.9	5	Yes	1

**REMARKS - EQUIPMENT CONNECTION SCHEDULE:**  
 1. CONTROLS BETWEEN INDOOR AND OUTDOOR UNITS - INCLUDE CONTROL WIRING IN CONDUIT BETWEEN INDOOR AND OUTDOOR UNIT PER MANUFACTURERS REQUIREMENTS.  
 2. \*CONTROL TYPE\* - PROVIDE CONTROL AND CONNECTIONS "INT" - CONTROLS ARE MANUFACTURED INTEGRAL TO THE EQUIPMENT (SELF-CONTAINED).



**2**  
**DEMOLITION FLOOR PLAN**  
**BASEMENT LEVEL -**  
**ELECTRICAL**  
 1/4" = 1'-0"

**3**  
**NEW FLOOR PLAN**  
**BASEMENT LEVEL -**  
**ELECTRICAL**  
 1/4" = 1'-0"

**PANEL: 145-TR-B**

LOCATION: TR B34  
 SUPPLY FROM: 145-MDP  
 BRANCH: NORMAL  
 SERVICE RATED: No  
 MOUNTING: SURFACE  
 NEMA ENCLOSURE: NEMA 1

VOLTS: 208/120 WYE  
 PHASES: 3  
 WIRES: 4  
 INTEGRAL SPD: Yes  
 AVAILABLE SCC (KA): 10

MAINS TYPE: MCB  
 MCB/MLO RATING: 100 A  
 MCB OPTIONS:  
 SECTIONS: 1  
 PANEL POLES: 24

CKT	CIRCUIT DESCRIPTION	OPT	RATING	POLES	A	B	C	POLES/RATING	OPT	CIRCUIT DESCRIPTION	CKT	
1	REC - IT RACK TR-B31		20 A	3	1667 VA	720 VA		1	20 A	REC - TR-B31	2	
3	REC - IT RACK TR-B31		20 A	3	1667 VA	0 VA		1	20 A	SPARE	4	
5	SPARE		20 A	1	0 VA	0 VA	1667 VA	0 VA	1	20 A	SPARE	
7	SPARE		20 A	1	0 VA	0 VA		1	20 A	SPARE	8	
9	SPARE		20 A	1	0 VA	0 VA	0 VA	0 VA	1	20 A	SPARE	
11	SPARE		20 A	1	0 VA	0 VA	0 VA	0 VA	1	20 A	SPARE	
13	SPARE		20 A	1	0 VA	0 VA		1	20 A	SPARE	14	
15	SPARE		20 A	1	0 VA	0 VA	0 VA	0 VA	1	20 A	SPARE	
17	SPACE		--	1	--	--	--	1	--	SPACE	18	
19	SPACE		--	1	--	--	--	1	--	SPACE	20	
21	SPACE		--	1	--	--	--	1	--	SPACE	22	
23	SPACE		--	1	--	--	--	1	--	SPACE	24	
<b>TOTAL LOAD:</b>					2387 VA	1667 VA	1667 VA					
<b>TOTAL AMPS:</b>					20 A	14 A	14 A					

**LOAD CLASSIFICATION**

CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS
PWR-C: 5000 VA	125.00%	6250 VA	CONNECTED LOAD: 5720 VA
REC: 720 VA	100.00%	720 VA	CONNECTED CURRENT: 16 A
			DEMAND LOAD: 6970 VA
			DEMAND CURRENT: 19 A
			CONSIDER 125% DEMAND: 8713 A
			EQUIPMENT AMPS: 100 A
			FEEDER AVAILABLE: 80 %
			SPARE CAPACITY: 81 A

**OPTIONS:**  
 CIRCUIT BREAKER OPTIONS SUFFIX: 'S' OR 'ST' - PROVIDE SHUNT TRIP CIRCUIT BREAKER / 'G' OR 'GFCI' - PROVIDE GFCI CIRCUIT BREAKER / 'GFP' - PROVIDE GFP CIRCUIT BREAKER / 'ERMS' - ENERGY REDUCING MAINTENANCE SWITCH / 'ZSI' - ZONE SELECTIVE INTERLOCKING / 'L' - PROVIDE CIRCUIT BREAKER WITH LOCKING PROVISIONS / 'R' - PROVIDE CIRCUIT BREAKER WITH RED MARKING

**GENERAL REMARKS:**  
 A. PANEL AIC (INTERRUPTING) RATING SHALL BE MINIMUM 120% OF THE AVAILABLE SCC (SHORT CIRCUIT CURRENT).  
 B. BUS B PANEL.  
 C. WHERE NEW PANELS ARE SHOWN AT TELECOM PLYWOOD LOCATIONS, MOUNT PANELS TO PLYWOOD.

**PANEL: 145-TR-EM-B**

LOCATION: TR B34  
 SUPPLY FROM: 145-C21A  
 BRANCH: EMERGENCY  
 SERVICE RATED: No  
 MOUNTING: SURFACE  
 NEMA ENCLOSURE: NEMA 1

VOLTS: 208/120 WYE  
 PHASES: 3  
 WIRES: 4  
 INTEGRAL SPD: Yes  
 AVAILABLE SCC (KA): 10

MAINS TYPE: MCB  
 MCB/MLO RATING: 100 A  
 MCB OPTIONS:  
 SECTIONS: 1  
 PANEL POLES: 24

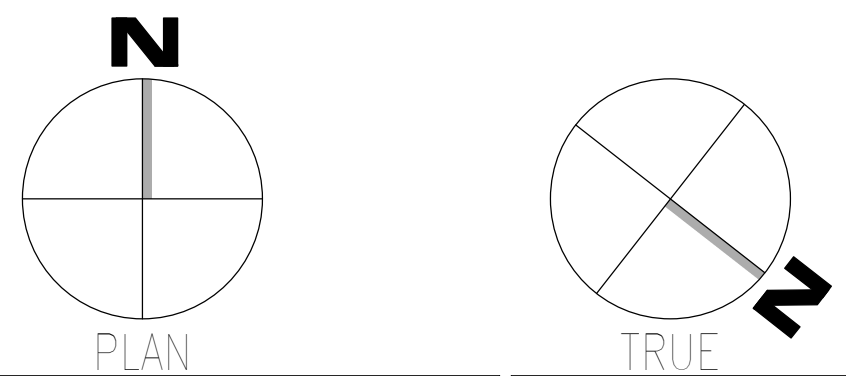
CKT	CIRCUIT DESCRIPTION	OPT	RATING	POLES	A	B	C	POLES/RATING	OPT	CIRCUIT DESCRIPTION	CKT	
1	REC - IT RACK TR-B31		20 A	3	1667 VA	720 VA		1	20 A	REC - TR-B31	2	
3	REC - IT RACK TR-B31		20 A	3	1667 VA	66 VA		1	20 A	LTG - TR-B31	4	
5	SPARE		20 A	1	0 VA	0 VA	1667 VA	0 VA	1	20 A	SPARE	
7	SSCU-B34/SSAH-B34		25 A	2	980 VA	0 VA		1	20 A	SPARE	8	
9	SPARE		20 A	1	0 VA	0 VA	980 VA	0 VA	1	20 A	SPARE	
11	SPARE		20 A	1	0 VA	0 VA	0 VA	0 VA	1	20 A	SPARE	
13	SPARE		20 A	1	0 VA	0 VA		1	20 A	SPARE	14	
15	SPARE		20 A	1	0 VA	0 VA	0 VA	0 VA	1	20 A	SPARE	
17	SPACE		--	1	--	--	--	1	--	SPACE	18	
19	SPACE		--	1	--	--	--	1	--	SPACE	20	
21	SPACE		--	1	--	--	--	1	--	SPACE	22	
23	SPACE		--	1	--	--	--	1	--	SPACE	24	
<b>TOTAL LOAD:</b>					3367 VA	2713 VA	1667 VA					
<b>TOTAL AMPS:</b>					29 A	24 A	14 A					

**LOAD CLASSIFICATION**

CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS
LTG: 66 VA	125.00%	83 VA	CONNECTED LOAD: 7746 VA
PWR-C: 5000 VA	125.00%	6250 VA	CONNECTED CURRENT: 22 A
REC: 720 VA	100.00%	720 VA	DEMAND LOAD: 8503 VA
MEQ-C: 1960 VA	125.00%	2450 VA	DEMAND CURRENT: 26 A
			CONSIDER 125% DEMAND: 11878 A
			EQUIPMENT AMPS: 100 A
			FEEDER AVAILABLE: 73 %
			SPARE CAPACITY: 74 A

**OPTIONS:**  
 CIRCUIT BREAKER OPTIONS SUFFIX: 'S' OR 'ST' - PROVIDE SHUNT TRIP CIRCUIT BREAKER / 'G' OR 'GFCI' - PROVIDE GFCI CIRCUIT BREAKER / 'GFP' - PROVIDE GFP CIRCUIT BREAKER / 'ERMS' - ENERGY REDUCING MAINTENANCE SWITCH / 'ZSI' - ZONE SELECTIVE INTERLOCKING / 'L' - PROVIDE CIRCUIT BREAKER WITH LOCKING PROVISIONS / 'R' - PROVIDE CIRCUIT BREAKER WITH RED MARKING

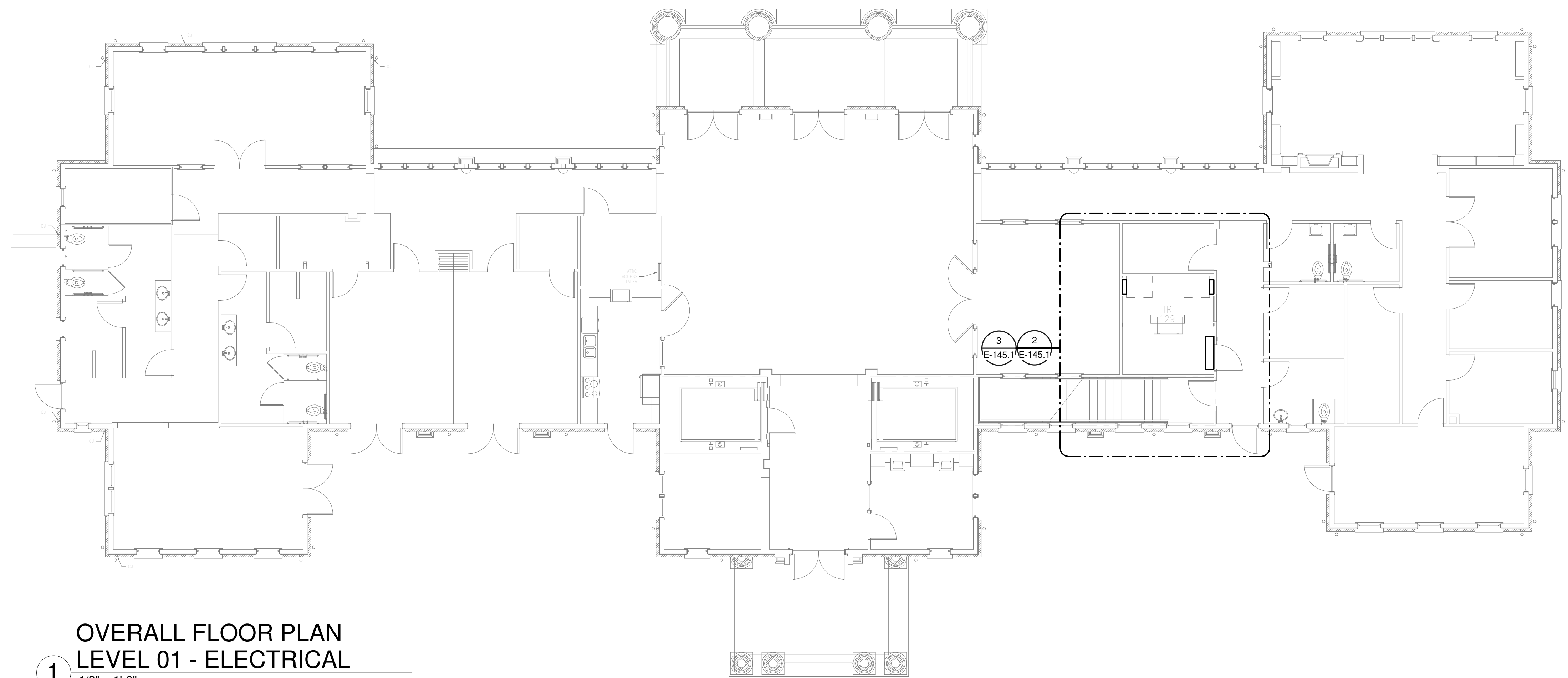
**GENERAL REMARKS:**  
 A. PANEL AIC (INTERRUPTING) RATING SHALL BE MINIMUM 120% OF THE AVAILABLE SCC (SHORT CIRCUIT CURRENT).  
 B. BUS B PANEL.  
 C. WHERE NEW PANELS ARE SHOWN AT TELECOM PLYWOOD LOCATIONS, MOUNT PANELS TO PLYWOOD.



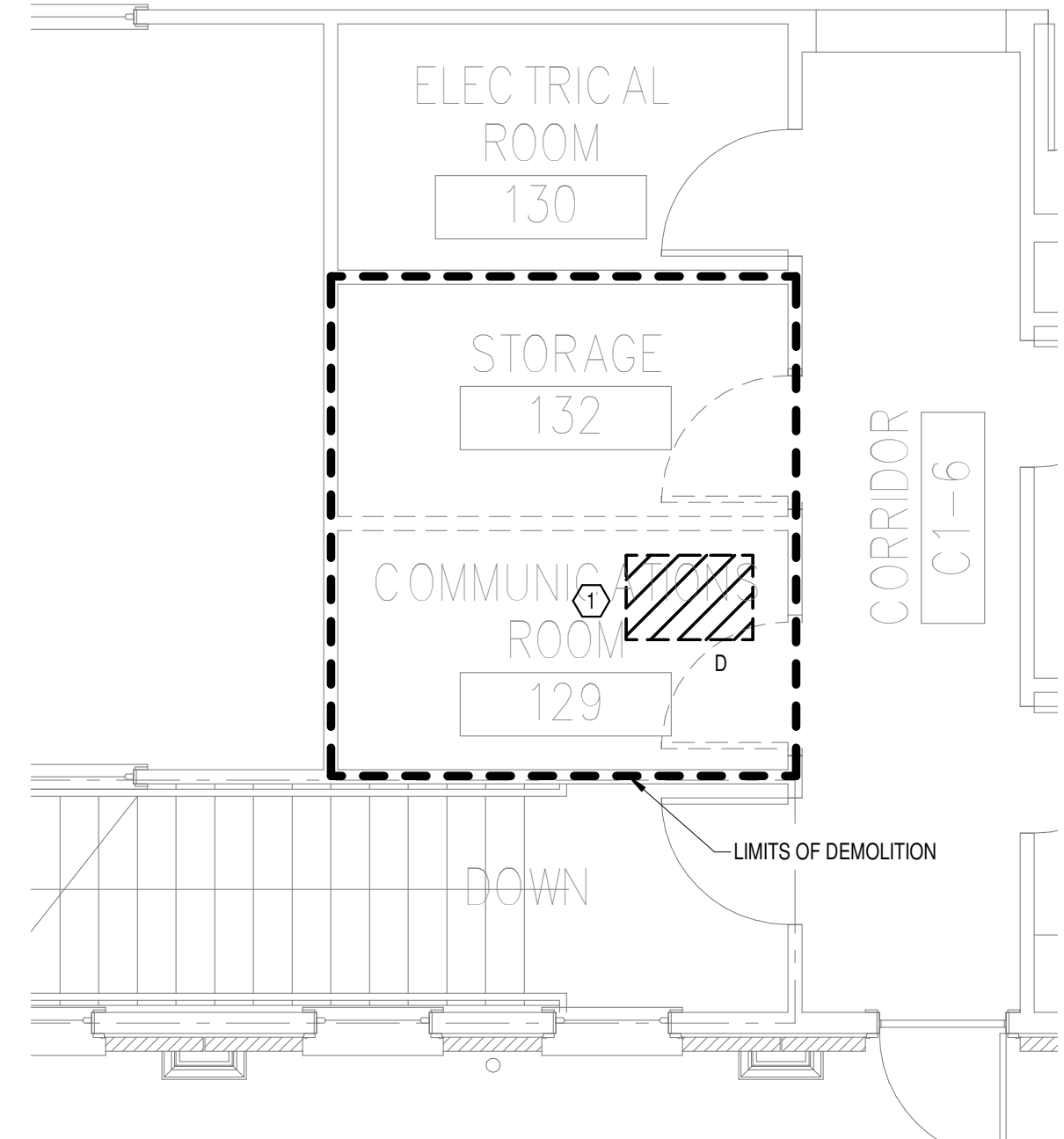
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<b>Revisions:</b> Date:	<b>CONSULTANT</b>  WileyWilson 127 Nationwide Drive Lynchburg, VA 24502 Phone: 434.947.1901 www.wileywilson.com	<b>ARCHITECT/ENGINEER OF RECORD</b>  Atriax, pllc 102 3rd Avenue, NE PO Box 1629, Hickory, NC 28603 Phone: 828.315.9962 Fax: 828.315.9964 NC Engineering License No.: P-0214 NC Architectural License No.: 51254	<b>STAMP</b> 	Office of Construction and Facilities Management U.S. Department of Veterans Affairs	Drawing Title <b>BUILDING 145 BASEMENT LEVEL -                  ELECTRICAL</b>	Phase <b>100% CONSTRUCTION                  DOCUMENTS</b>	Project Title <b>EHRM INFRASTRUCTURE UPGRADES</b>	Project Number <b>679-20-104</b>
					Approved:	<b>FULLY SPRINKLERED</b>	Location <b>TUSCALOOSA VAMC, TUSCALOOSA, AL.</b>	Drawing Number <b>E-145.B</b>

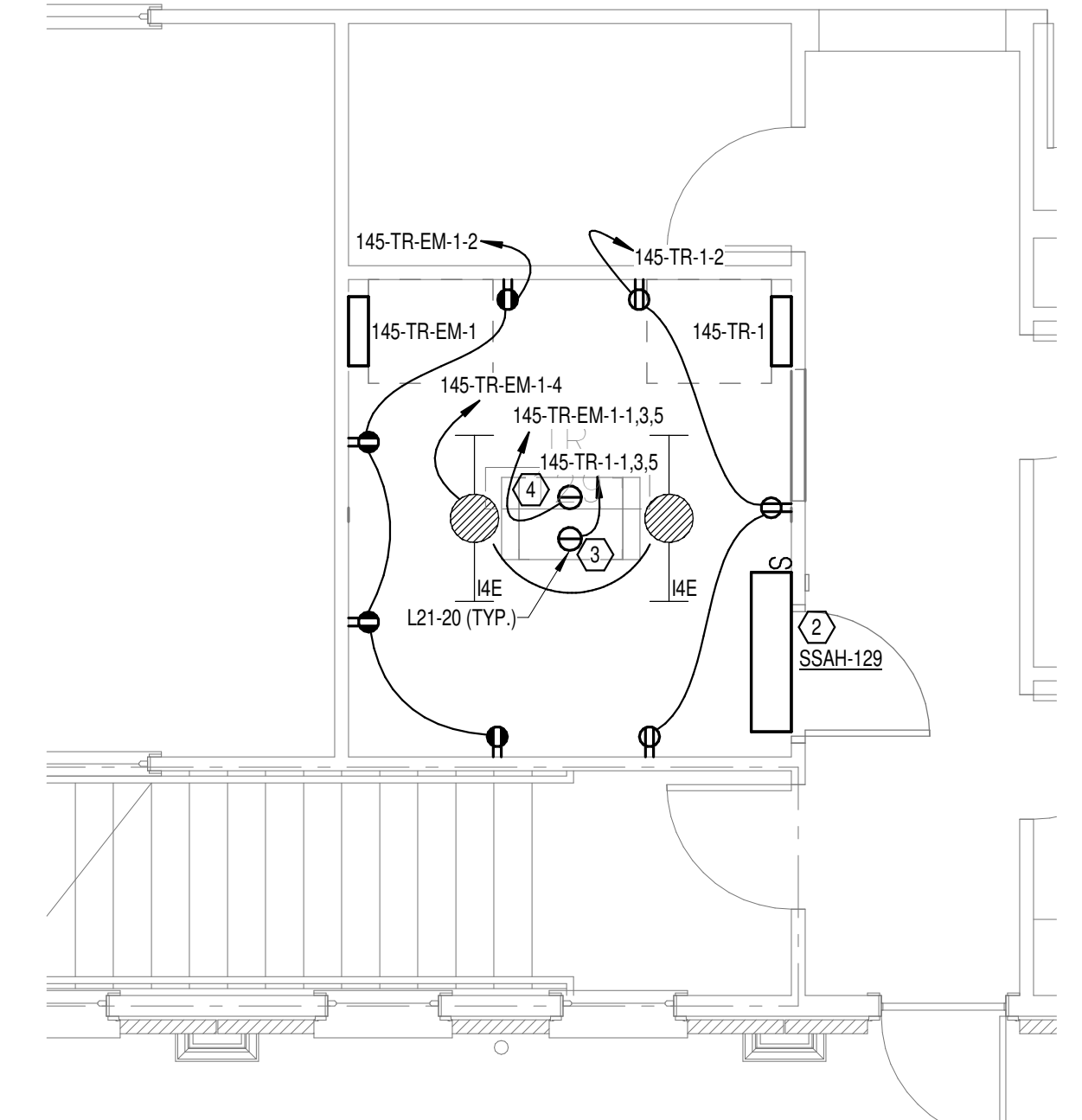
**GENERAL NOTES:**  
 A. REFER TO TELECOM, HVAC, AND FIRE PROTECTION DRAWINGS. COORDINATE LOCATION ON NEW LIGHTING FIXTURES, NEW ELECTRICAL PANELS, AND NEW CABLE TRAY MOUNTED RECEPTACLES WITH OTHER DISCIPLINES.  
**SHEET NOTES:**  
 1. REMOVE ALL EXISTING DEVICES AND WIRING BACK TO SOURCE. VISIT SITE TO DETERMINE FULL EXTENT OF DEMOLITION.  
 2. REFER TO EQUIPMENT CONNECTION SCHEDULE.  
 3. PROVIDE RECEPTACLE FOR BUS B. MOUNT RECEPTACLE TO CABLE TRAY ABOVE RACK.  
 4. PROVIDE RECEPTACLE FOR BUS A. MOUNT RECEPTACLE TO CABLE TRAY ABOVE RACK.



**1** OVERALL FLOOR PLAN LEVEL 01 - ELECTRICAL  
 1/8" = 1'-0"



**2** DEMOLITION FLOOR PLAN LEVEL 01 - ELECTRICAL  
 1/4" = 1'-0"



**3** NEW FLOOR PLAN LEVEL 01 - ELECTRICAL  
 1/4" = 1'-0"

**PANEL: 145-TR-1**  
 LOCATION: TR 129  
 SUPPLY FROM: 145-MDP  
 BRANCH: NORMAL  
 SERVICE RATED: No  
 MOUNTING: SURFACE  
 NEMA ENCLOSURE: NEMA 1

VOLTS: 208/120 WYE  
 PHASES: 3  
 WIRES: 4  
 INTEGRAL SPD: Yes  
 AVAILABLE SCC (KA): 10

MAINS TYPE: MCB  
 MCB/MLO RATING: 100 A  
 MCB OPTIONS:  
 SECTIONS: 1  
 PANEL POLES: 24

CKT	CIRCUIT DESCRIPTION	OPT	RATING	POLES	A	B	C	POLES	RATING	OPT	CIRCUIT DESCRIPTION	CKT	
1												2	
3	REC - IT RACK TR-129		20 A	3	1667 VA	540 VA		1	20 A	--	REC - TR-129	2	
5												4	
7	SPARE	--	20 A	1	0 VA	0 VA		1	20 A	--	SPARE	4	
9	SPARE	--	20 A	1	0 VA	0 VA		1	20 A	--	SPARE	6	
11	SPARE	--	20 A	1	0 VA	0 VA	0 VA	0 VA	1	20 A	--	SPARE	8
13	SPARE	--	20 A	1	0 VA	0 VA		1	20 A	--	SPARE	10	
15	SPARE	--	20 A	1	0 VA	0 VA		1	20 A	--	SPARE	12	
17	SPARE	--	20 A	1	0 VA	0 VA		1	20 A	--	SPARE	14	
19	SPACE	--	--	1	--	--		1	--	--	SPACE	16	
21	SPACE	--	--	1	--	--		1	--	--	SPACE	18	
23	SPACE	--	--	1	--	--		1	--	--	SPACE	20	
<b>TOTAL LOAD:</b>					2207 VA	1667 VA	1667 VA						
<b>TOTAL AMPS:</b>					16 A	14 A	14 A						

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS
PWR-C	5000 VA	125.00%	6250 VA	CONNECTED LOAD: 5540 VA
REC	540 VA	100.00%	540 VA	CONNECTED CURRENT: 15 A
				DEMAND LOAD: 6790 VA
				DEMAND CURRENT: 19 A
				CONSIDER 125% DEMAND: 8488 A
				EQUIPMENT AMPS: 100 A
				FEEDER AVAILABLE: 81 %
				SPARE CAPACITY: 81 A

**OPTIONS:**  
 CIRCUIT BREAKER OPTIONS SUFFIX: 'S' OR 'ST' - PROVIDE SHUNT TRIP CIRCUIT BREAKER / 'G' OR 'GFCI' - PROVIDE GFCI CIRCUIT BREAKER / 'GFP' - PROVIDE GFP CIRCUIT BREAKER / 'ERMS' - ENERGY REDUCING MAINTENANCE SWITCH / 'ZSI' - ZONE SELECTIVE INTERLOCKING / 'L' - PROVIDE CIRCUIT BREAKER WITH LOCKING PROVISIONS / 'R' - PROVIDE CIRCUIT BREAKER WITH RED MARKING

**GENERAL REMARKS:**  
 A. PANEL AIC (INTERRUPTING) RATING SHALL BE MINIMUM 120% OF THE AVAILABLE SCC (SHORT CIRCUIT CURRENT).  
 B. BUS B PANEL.  
 C. WHERE NEW PANELS ARE SHOWN AT TELECOM PLYWOOD LOCATIONS, MOUNT PANELS TO PLYWOOD.

**PANEL: 145-TR-EM-1**  
 LOCATION: TR 129  
 SUPPLY FROM: 145-C21A  
 BRANCH: EMERGENCY  
 SERVICE RATED: No  
 MOUNTING: SURFACE  
 NEMA ENCLOSURE: NEMA 1

VOLTS: 208/120 WYE  
 PHASES: 3  
 WIRES: 4  
 INTEGRAL SPD: Yes  
 AVAILABLE SCC (KA): 10

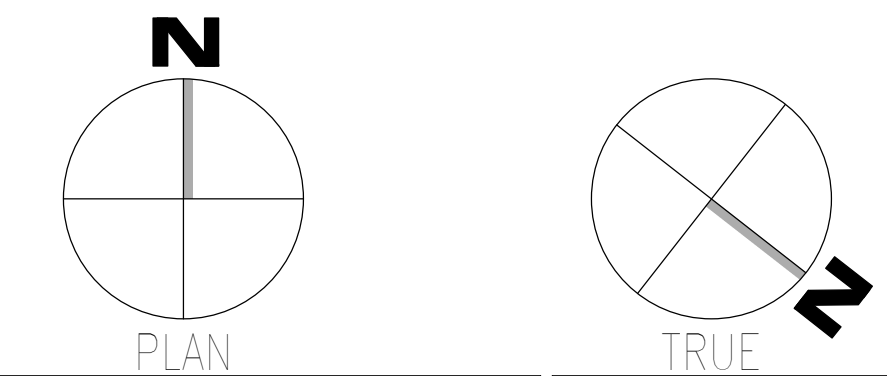
MAINS TYPE: MCB  
 MCB/MLO RATING: 100 A  
 MCB OPTIONS:  
 SECTIONS: 1  
 PANEL POLES: 24

CKT	CIRCUIT DESCRIPTION	OPT	RATING	POLES	A	B	C	POLES	RATING	OPT	CIRCUIT DESCRIPTION	CKT	
1												2	
3	REC - IT RACK TR-129		20 A	3	1667 VA	720 VA		1	20 A	--	REC - TR-129	2	
5												4	
7	SPARE	--	20 A	1	0 VA	0 VA		1	20 A	--	SPARE	4	
9	SPARE	--	20 A	1	0 VA	0 VA		1	20 A	--	SPARE	6	
11	SSCU-129/SSAH-129		25 A	2	980 VA	0 VA	1667 VA	0 VA	1	20 A	--	SPARE	8
13	SPARE	--	20 A	1	0 VA	0 VA	0 VA	0 VA	1	20 A	--	SPARE	10
15	SPARE	--	20 A	1	0 VA	0 VA		1	20 A	--	SPARE	12	
17	SPARE	--	20 A	1	0 VA	0 VA		1	20 A	--	SPARE	14	
19	SPACE	--	--	1	--	--		1	--	--	SPACE	16	
21	SPACE	--	--	1	--	--		1	--	--	SPACE	18	
23	SPACE	--	--	1	--	--		1	--	--	SPACE	20	
<b>TOTAL LOAD:</b>					3367 VA	2713 VA	1667 VA						
<b>TOTAL AMPS:</b>					29 A	24 A	14 A						

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS
LTG	66 VA	125.00%	83 VA	CONNECTED LOAD: 1746 VA
PWR-C	5000 VA	125.00%	6250 VA	CONNECTED CURRENT: 22 A
REC	720 VA	100.00%	720 VA	DEMAND LOAD: 9503 VA
MEQ-C	1960 VA	125.00%	2450 VA	DEMAND CURRENT: 26 A
				CONSIDER 125% DEMAND: 11878 A
				EQUIPMENT AMPS: 100 A
				FEEDER AVAILABLE: 73 %
				SPARE CAPACITY: 74 A

**OPTIONS:**  
 CIRCUIT BREAKER OPTIONS SUFFIX: 'S' OR 'ST' - PROVIDE SHUNT TRIP CIRCUIT BREAKER / 'G' OR 'GFCI' - PROVIDE GFCI CIRCUIT BREAKER / 'GFP' - PROVIDE GFP CIRCUIT BREAKER / 'ERMS' - ENERGY REDUCING MAINTENANCE SWITCH / 'ZSI' - ZONE SELECTIVE INTERLOCKING / 'L' - PROVIDE CIRCUIT BREAKER WITH LOCKING PROVISIONS / 'R' - PROVIDE CIRCUIT BREAKER WITH RED MARKING

**GENERAL REMARKS:**  
 A. PANEL AIC (INTERRUPTING) RATING SHALL BE MINIMUM 120% OF THE AVAILABLE SCC (SHORT CIRCUIT CURRENT).  
 B. BUS B PANEL.  
 C. WHERE NEW PANELS ARE SHOWN AT TELECOM PLYWOOD LOCATIONS, MOUNT PANELS TO PLYWOOD.

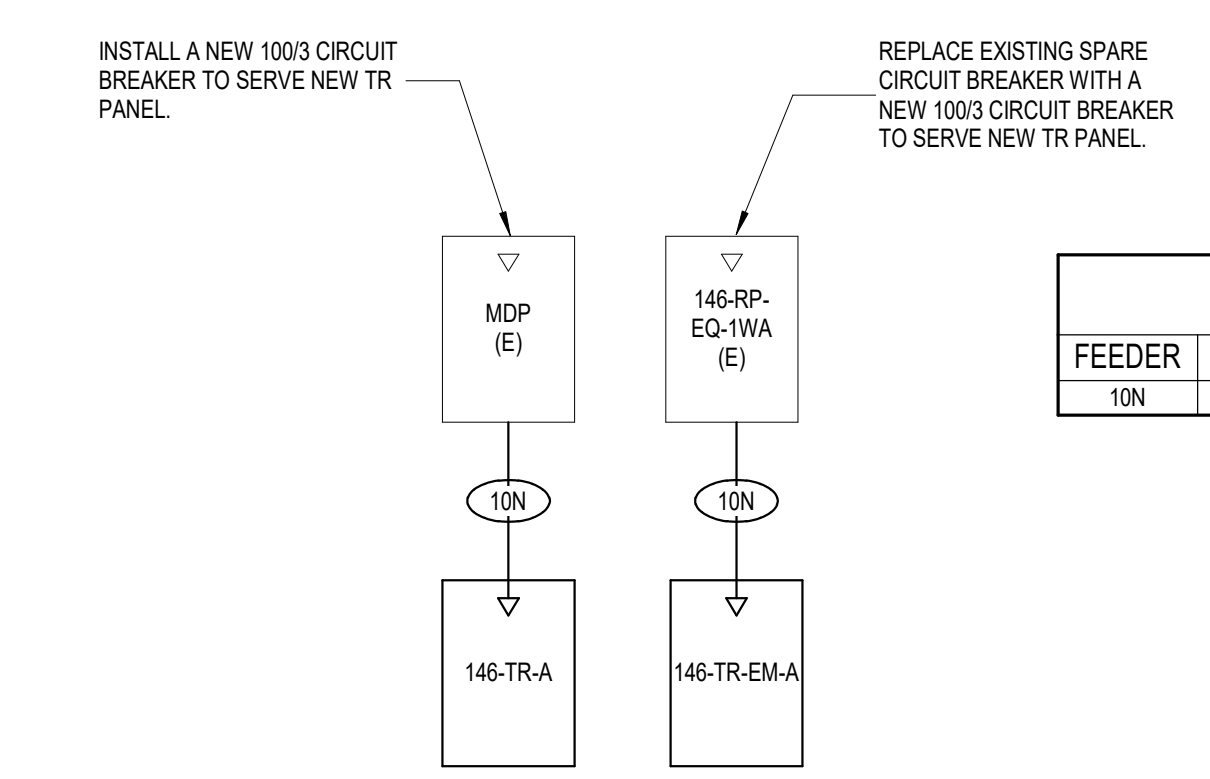
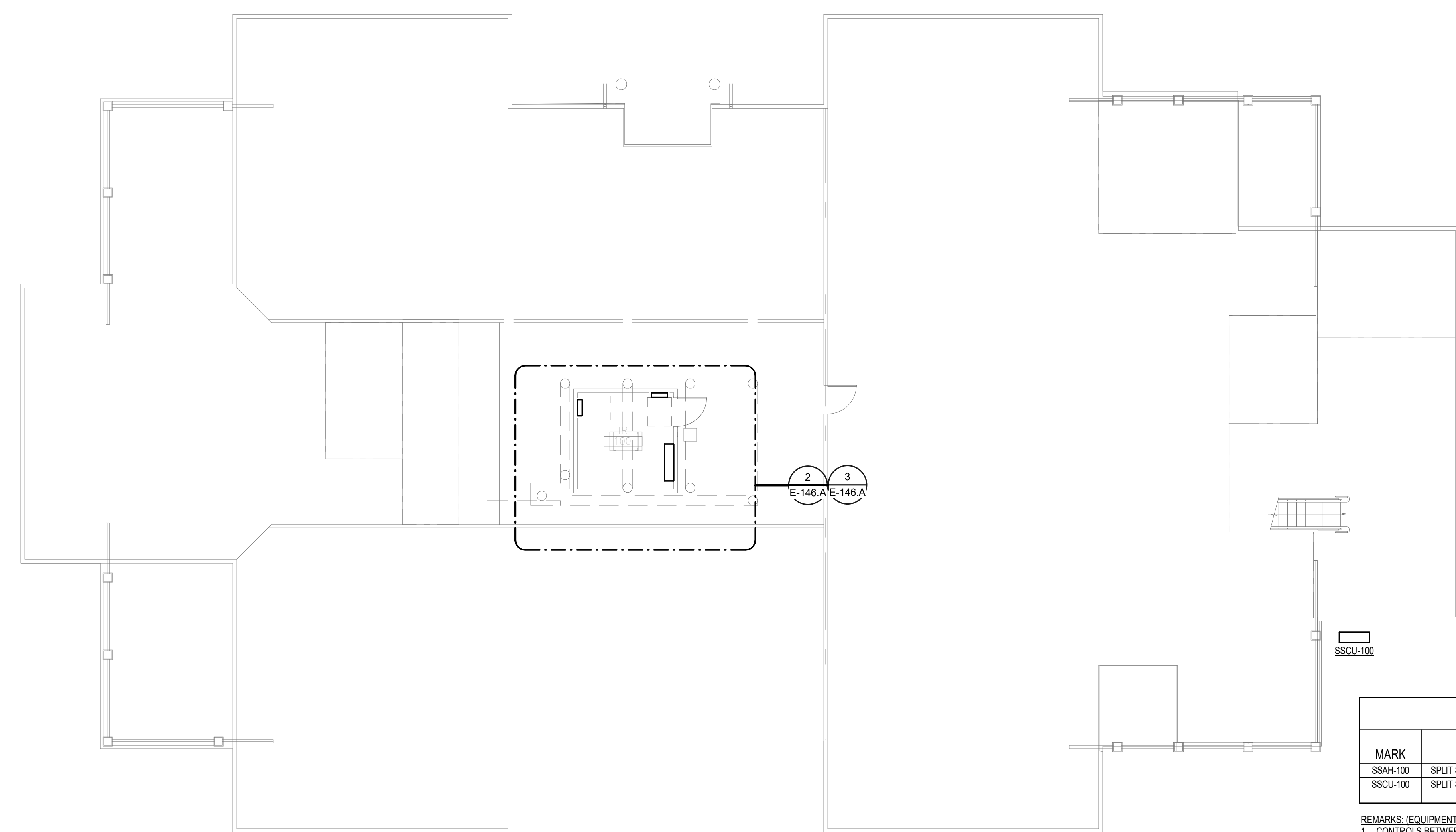


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<b>CONSULTANT</b>  WileyWilson 127 Nationwide Drive Lynchburg, VA 24502 Phone: 434.947.1901 www.wileywilson.com		<b>ARCHITECT/ENGINEER OF RECORD</b>  Atriax, PLLC 102 3rd Avenue, NE PO Box 1629, Hickory, NC 28603 Phone: 828.315.9962 Fax: 828.315.9964 NC Engineering License No.: P-0214 NC Architectural License No.: 51254		<b>STAMP</b> 	Office of Construction and Facilities Management U.S. Department of Veterans Affairs	Drawing Title <b>BUILDING 145 LEVEL 01 - ELECTRICAL</b> Approved:	Phase <b>100% CONSTRUCTION DOCUMENTS</b>  <b>FULLY SPRINKLERED</b>	Project Title <b>EHRM INFRASTRUCTURE UPGRADES</b> Location <b>TUSCALOOSA VAMC, TUSCALOOSA, AL.</b> Issue Date 03/08/2024	Project Number <b>679-20-104</b> Building Number <b>145</b> Drawing Number <b>E-145.1</b>
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- GENERAL NOTES:**
- A. REFER TO TELECOM, HVAC, AND FIRE PROTECTION DRAWINGS. COORDINATE LOCATION ON NEW LIGHTING FIXTURES, NEW ELECTRICAL PANELS, AND NEW CABLE TRAY MOUNTED RECEPTACLES WITH OTHER DISCIPLINES.
- SHEET NOTES:**
1. REMOVE ALL EXISTING DEVICES AND WIRING BACK TO SOURCE. VISIT SITE TO DETERMINE FULL EXTENT OF DEMOLITION.
  2. REFER TO EQUIPMENT CONNECTION SCHEDULE.
  3. PROVIDE RECEPTACLE FOR BUS B. MOUNT RECEPTACLE TO CABLE TRAY ABOVE RACK.
  4. PROVIDE RECEPTACLE FOR BUS A. MOUNT RECEPTACLE TO CABLE TRAY ABOVE RACK.



FEEDER SCHEDULE - COPPER		
FEEDER	NOMINAL SIZE	WIRE AND CONDUIT
10N	100 A	4#1 CU, #6 CU GND - 2" C.

**4 BUILDING 146 - ELECTRICAL ONE-LINE**  
NO SCALE

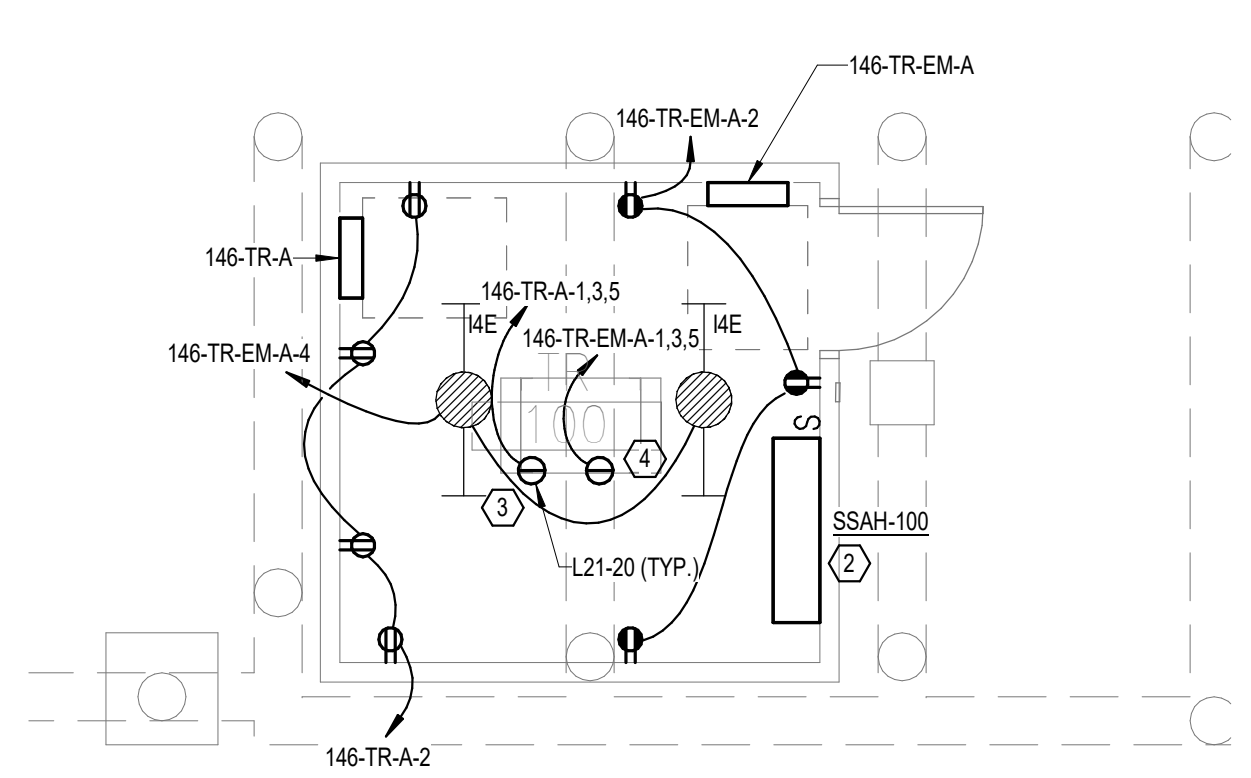
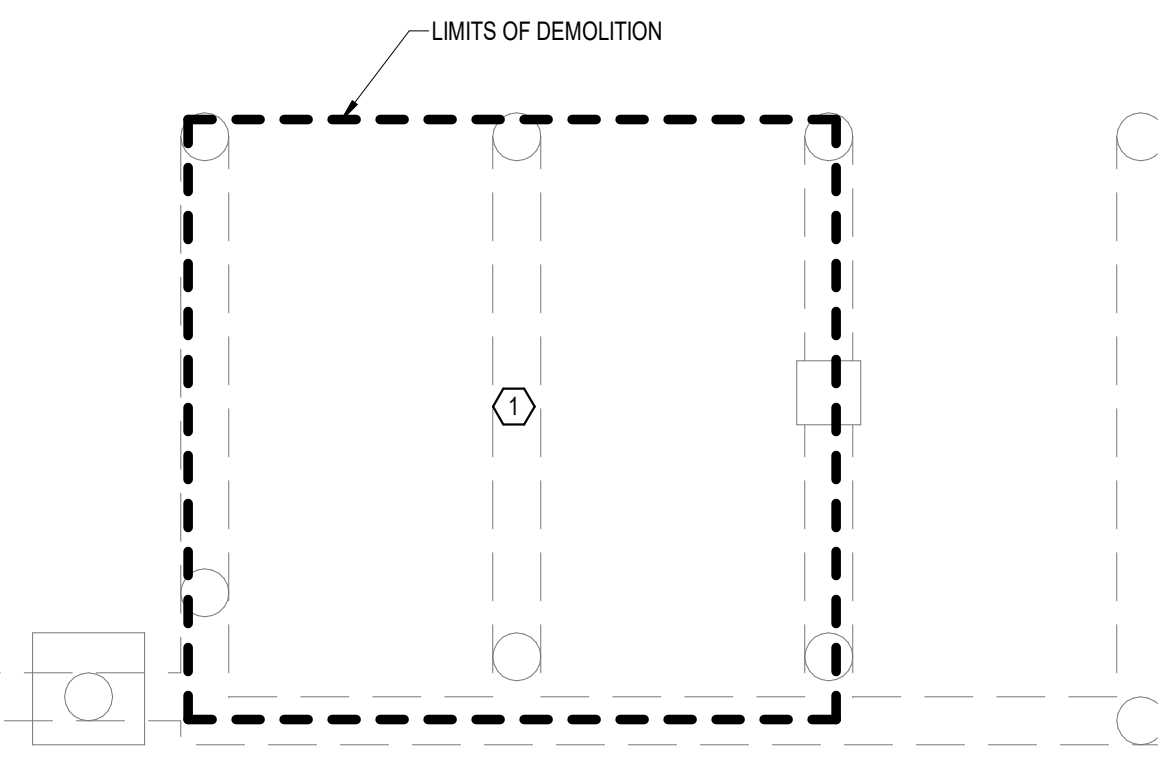
EQUIPMENT CONNECTION SCHEDULE																	
MARK	DESCRIPTION	FLA	MCA	MOCP	VOLTS	PHASE	POLES	LOAD [VA]	CONTROL TYPE	DISCONNECT BY	DISCONNECT TYPE	FEEDER	PANEL	CIRCUIT NUMBER	SCCR	GEN	REMARKS
SSAH-100	SPLIT SYSTEM CONDENSING UNIT	15.2	19	25	208	1	2	1960	INT	-	-	(3X) (30A) 2#10 CU, #10 CU GND - 3/4" C.	146-TR-EM-A	7.9	5	Yes	2
SSCU-100	SPLIT SYSTEM CONDENSING UNIT	15.2	19	25	208	1	2	1960	INT	ELECTRICAL	30A/2P/208V FUSED DISCONNECT SWITCH	(3X) (30A) 2#10 CU, #10 CU GND - 3/4" C.	146-TR-EM-A	7.9	5	Yes	1

REMARKS: (EQUIPMENT CONNECTION SCHEDULE)  
 1. CONTROLS BETWEEN INDOOR AND OUTDOOR UNITS - INCLUDE CONTROL WIRING IN CONDUIT BETWEEN INDOOR AND OUTDOOR UNIT PER MANUFACTURER'S REQUIREMENTS.  
 2. "CONTROL TYPE" - PROVIDE CONTROL AND CONNECTIONS "INT" - CONTROLS ARE MANUFACTURED INTEGRAL TO THE EQUIPMENT (SELF-CONTAINED).

**1 OVERALL FLOOR PLAN ATTIC - ELECTRICAL**  
1/8" = 1'-0"

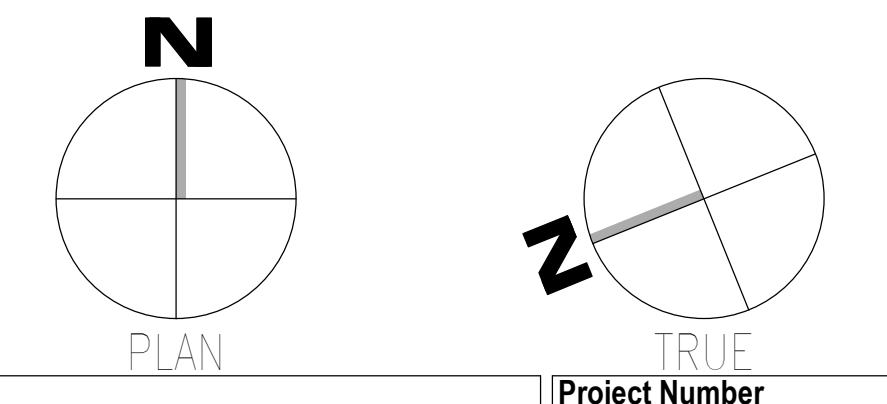
PANEL: 146-TR-A															
LOCATION: TR 100 SUPPLY FROM: MDP BRANCH: NORMAL SERVICE RATED: No MOUNTING: SURFACE NEMA ENCLOSURE: NEMA 1					VOLTS: 208/120 WYE PHASES: 3 WIRES: 4 INTEGRAL SPD: Yes AVAILABLE SCC (KA): 10					MAINS TYPE: MCB MCB/MLO RATING: 100 A MCB OPTIONS: SECTIONS: 1 PANEL POLES: 24					
CKT	CIRCUIT DESCRIPTION	OPT	RATING	POLES	A	B	C	POLES/RATING	OPT	CIRCUIT DESCRIPTION	CKT				CKT
1	REC - IT RACK TR-100		20 A	3	1667 VA	720 VA		1	20 A	REC - TR-100	2				2
3	SPARE	--	20 A	1	0 VA	0 VA		1	20 A	-- SPARE	4				4
5	SPARE	--	20 A	1	0 VA	0 VA		1	20 A	-- SPARE	6				6
7	SPARE	--	20 A	1	0 VA	0 VA		1	20 A	-- SPARE	8				8
9	SPARE	--	20 A	1	0 VA	0 VA		1	20 A	-- SPARE	10				10
11	SPARE	--	20 A	1	0 VA	0 VA		1	20 A	-- SPARE	12				12
13	SPARE	--	20 A	1	0 VA	0 VA		1	20 A	-- SPARE	14				14
15	SPARE	--	20 A	1	0 VA	0 VA		1	20 A	-- SPARE	16				16
17	SPARE	--	20 A	1	0 VA	0 VA		1	20 A	-- SPARE	18				18
19	SPARE	--	20 A	1	0 VA	0 VA		1	20 A	-- SPARE	20				20
21	SPARE	--	20 A	1	0 VA	0 VA		1	20 A	-- SPARE	22				22
23	SPARE	--	20 A	1	0 VA	0 VA		1	20 A	-- SPARE	24				24
<b>TOTAL LOAD:</b>					2387 VA	1667 VA	1667 VA								
<b>TOTAL AMPS:</b>					20 A	14 A	14 A								
LOAD CLASSIFICATION		CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS										
PWR-C		5000 VA	125.00%	6250 VA	CONNECTED LOAD: 5720 VA										
REC		720 VA	100.00%	720 VA	CONNECTED CURRENT: 16 A										
					DEMAND LOAD: 6970 VA										
					DEMAND CURRENT: 19 A										
					CONSIDER 125% DEMAND: 8713 A										
					EQUIPMENT AMPS: 100 A										
					FEEDER AVAILABLE:										
					SPARE CAPACITY: 160 %										
					81 A										
OPTIONS:															
CIRCUIT BREAKER OPTIONS SUFFIX: 'S' OR 'ST' - PROVIDE SHUNT TRIP CIRCUIT BREAKER / 'G' OR 'GFCI' - PROVIDE GFCI CIRCUIT BREAKER / 'GFP' - PROVIDE GFP CIRCUIT BREAKER / 'ERMS' - ENERGY REDUCING MAINTENANCE SWITCH / 'ZSI' - ZONE SELECTIVE INTERLOCKING / 'L' - PROVIDE CIRCUIT BREAKER WITH LOCKING PROVISIONS / 'R' - PROVIDE CIRCUIT BREAKER WITH RED MARKING															
GENERAL REMARKS:															
A. PANEL AIC (INTERRUPTING) RATING SHALL BE MINIMUM 120% OF THE AVAILABLE SCC (SHORT CIRCUIT CURRENT).															
B. BUS B PANEL.															
C. WHERE NEW PANELS ARE SHOWN AT TELECOM PLYWOOD LOCATIONS, MOUNT PANELS TO PLYWOOD.															

PANEL: 146-TR-EM-A															
LOCATION: TR 100 SUPPLY FROM: 146-RP-EQ-1WA BRANCH: EMERGENCY SERVICE RATED: No MOUNTING: SURFACE NEMA ENCLOSURE: NEMA 1					VOLTS: 208/120 WYE PHASES: 3 WIRES: 4 INTEGRAL SPD: Yes AVAILABLE SCC (KA): 10					MAINS TYPE: MCB MCB/MLO RATING: 100 A MCB OPTIONS: SECTIONS: 2 PANEL POLES: 24					
CKT	CIRCUIT DESCRIPTION	OPT	RATING	POLES	A	B	C	POLES/RATING	OPT	CIRCUIT DESCRIPTION	CKT				CKT
1	REC - IT RACK TR-100		20 A	3	1667 VA	540 VA		1	20 A	REC - TR-100	2				2
3	SPARE	--	20 A	1	0 VA	0 VA		1	20 A	-- SPARE	4				4
5	SPARE	--	20 A	1	0 VA	0 VA		1	20 A	-- SPARE	6				6
7	SPARE	--	20 A	1	0 VA	0 VA		1	20 A	-- SPARE	8				8
9	SPARE	--	20 A	1	0 VA	0 VA		1	20 A	-- SPARE	10				10
11	SPARE	--	20 A	1	0 VA	0 VA		1	20 A	-- SPARE	12				12
13	SPARE	--	20 A	1	0 VA	0 VA		1	20 A	-- SPARE	14				14
15	SPARE	--	20 A	1	0 VA	0 VA		1	20 A	-- SPARE	16				16
17	SPARE	--	20 A	1	0 VA	0 VA		1	20 A	-- SPARE	18				18
19	SPARE	--	20 A	1	0 VA	0 VA		1	20 A	-- SPARE	20				20
21	SPARE	--	20 A	1	0 VA	0 VA		1	20 A	-- SPARE	22				22
23	SPARE	--	20 A	1	0 VA	0 VA		1	20 A	-- SPARE	24				24
<b>TOTAL LOAD:</b>					3187 VA	2713 VA	1667 VA								
<b>TOTAL AMPS:</b>					28 A	24 A	14 A								
LOAD CLASSIFICATION		CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS										
LTG		66 VA	125.00%	83 VA	CONNECTED LOAD: 7566 VA										
PWR-C		5000 VA	125.00%	6250 VA	CONNECTED CURRENT: 21 A										
REC		540 VA	100.00%	540 VA	DEMAND LOAD: 9323 VA										
MEQ-C		1960 VA	125.00%	2450 VA	DEMAND CURRENT: 26 A										
					CONSIDER 125% DEMAND: 11653 A										
					EQUIPMENT AMPS: 100 A										
					FEEDER AVAILABLE:										
					SPARE CAPACITY: 74 %										
					74 A										
OPTIONS:															
CIRCUIT BREAKER OPTIONS SUFFIX: 'S' OR 'ST' - PROVIDE SHUNT TRIP CIRCUIT BREAKER / 'G' OR 'GFCI' - PROVIDE GFCI CIRCUIT BREAKER / 'GFP' - PROVIDE GFP CIRCUIT BREAKER / 'ERMS' - ENERGY REDUCING MAINTENANCE SWITCH / 'ZSI' - ZONE SELECTIVE INTERLOCKING / 'L' - PROVIDE CIRCUIT BREAKER WITH LOCKING PROVISIONS / 'R' - PROVIDE CIRCUIT BREAKER WITH RED MARKING															
GENERAL REMARKS:															
A. PANEL AIC (INTERRUPTING) RATING SHALL BE MINIMUM 120% OF THE AVAILABLE SCC (SHORT CIRCUIT CURRENT).															
B. BUS A PANEL.															
C. WHERE NEW PANELS ARE SHOWN AT TELECOM PLYWOOD LOCATIONS, MOUNT PANELS TO PLYWOOD.															



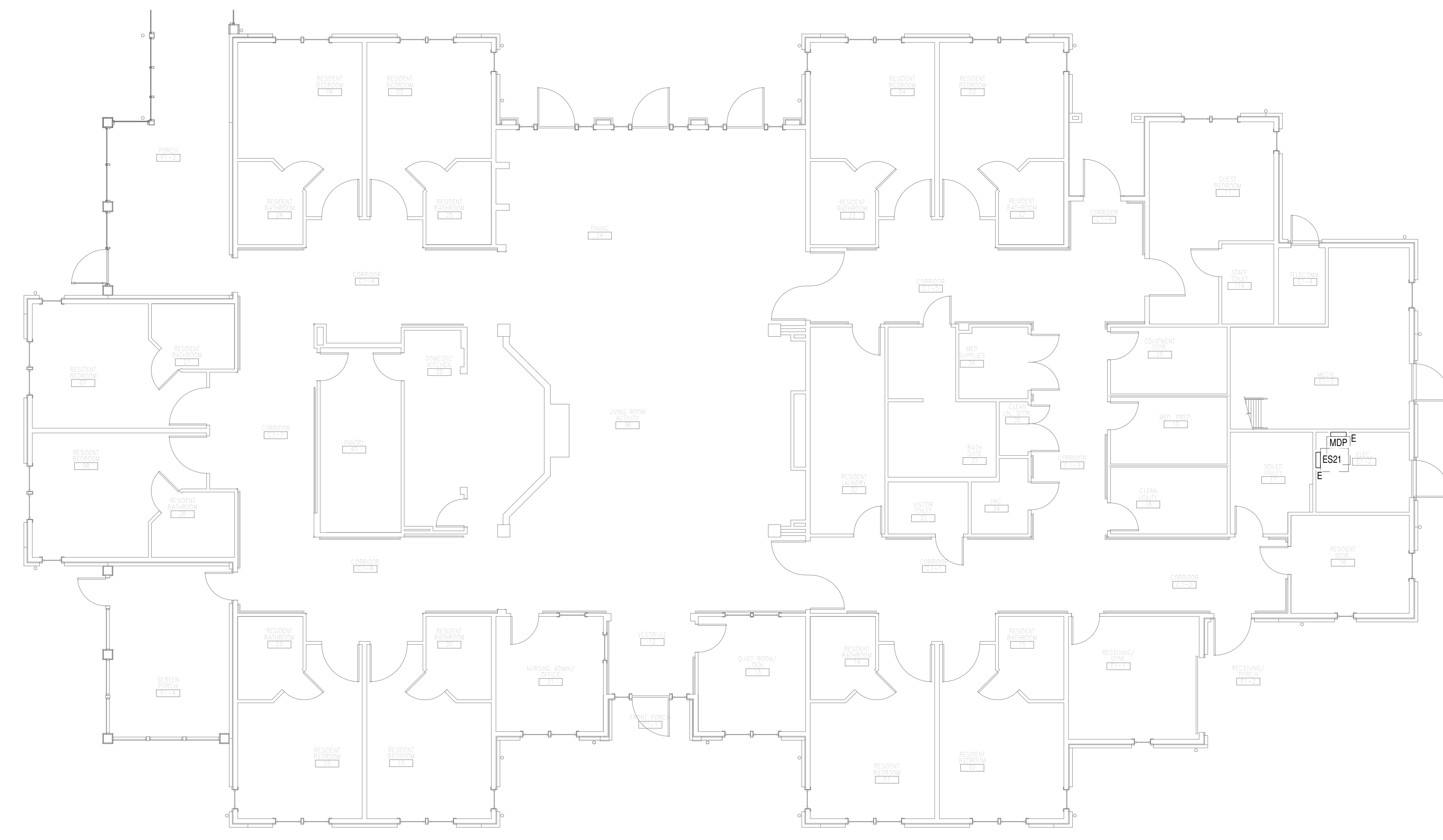
**2 DEMOLITION FLOOR PLAN ATTIC - ELECTRICAL**  
1/4" = 1'-0"

**3 NEW FLOOR PLAN ATTIC - ELECTRICAL**  
1/4" = 1'-0"



<b>CONSULTANT</b>  WileyWilson 127 Nationwide Drive Lynchburg, VA 24502 Phone: 434.947.1901 www.wileywilson.com	<b>ARCHITECT/ENGINEER OF RECORD</b>  Atriax, pllc 102 3rd Avenue, NE PO Box 1629, Hickory, NC 28603 Phone: 828.315.9962 Fax: 828.315.9964 NC Engineering License No.: P-0214 NC Architectural License No.: 51254	<b>Office of Construction and Facilities Management</b>  U.S. Department of Veterans Affairs	Drawing Title <b>BUILDING 146 ATTIC - ELECTRICAL</b>	Phase <b>100% CONSTRUCTION DOCUMENTS</b>	Project Title <b>EHRM INFRASTRUCTURE UPGRADES</b>	Project Number <b>679-20-104</b>
			Approved:	<b>FULLY SPRINKLERED</b>	Location <b>TUSCALOOSA VAMC, TUSCALOOSA, AL.</b>	Drawing Number <b>E-146.A</b>
Revisions:	Date:	Issue Date <b>03/08/2024</b>	Checked <b>CGH</b>	Drawn <b>MJJ</b>		

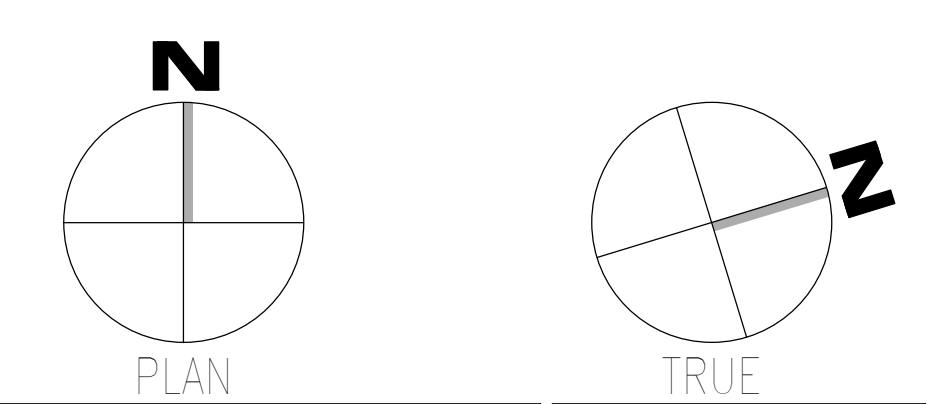
**GENERAL NOTES:**  
 A. REFER TO TELECOM, HVAC, AND FIRE PROTECTION DRAWINGS. COORDINATE LOCATION ON NEW LIGHTING FIXTURES, NEW ELECTRICAL PANELS, AND NEW CABLE TRAY MOUNTED RECEPTACLES WITH OTHER DISCIPLINES.



**OVERALL FLOOR PLAN  
 GROUND LEVEL -  
 ELECTRICAL**

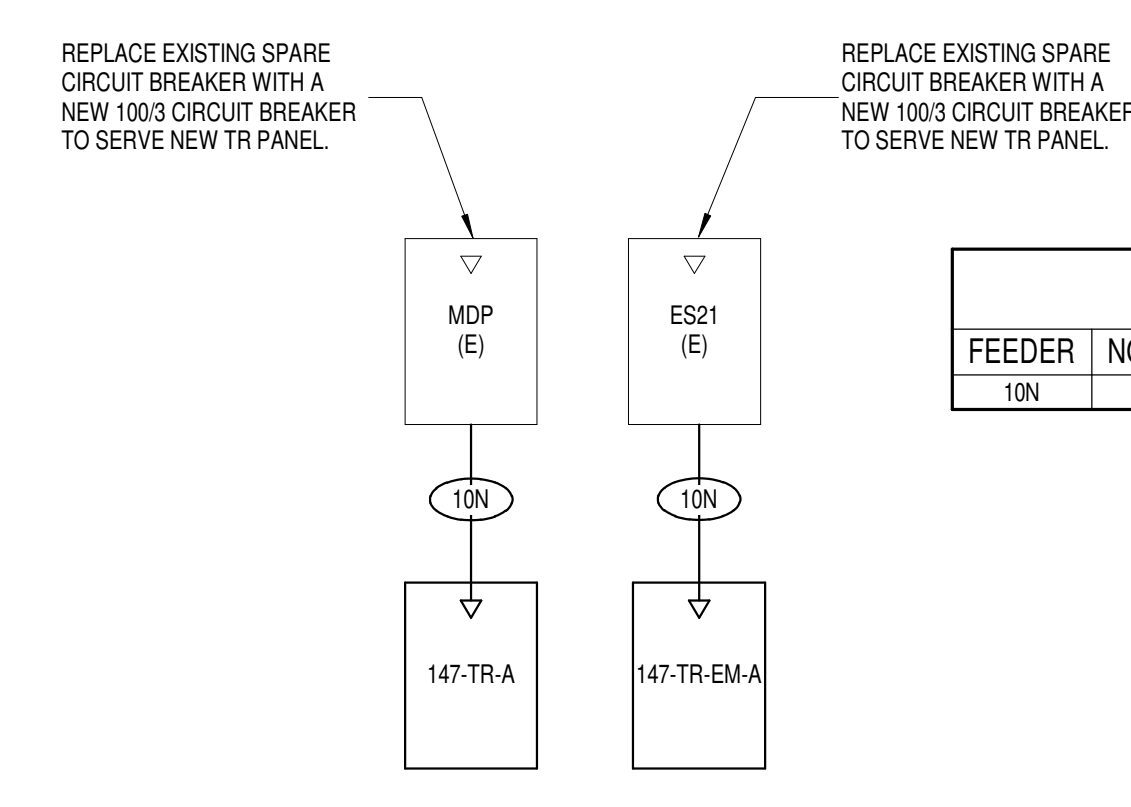
1  
 1/8" = 1'-0"

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 Autodesk Docs: 202075.008 - VA Tuscaloosa EHRM Infrastructure Upgrades/2025.008 - VA EHRM Tuscaloosa R50 - B147.rvt  
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<b>Revisions:</b> _____ _____ _____ _____ _____ _____ <b>Date:</b>	<b>CONSULTANT</b>  WileyWilson 127 Nationwide Drive Lynchburg, VA 24502 Phone: 434.947.1901 www.wileywilson.com	 <b>SPECIALIZED ENGINEERING SOLUTIONS</b> Specialized Engineering Solutions 1300 Baxter Street, Suite 355 Charlotte, NC 28204	<b>ARCHITECT/ENGINEER OF RECORD</b>  <b>Atriax GROUP</b> www.atriaxgroup.com Atriax, pllc 102 3rd Avenue, NE PO Box 1629, Hickory, NC 28603 Phone: 828.315.9962 Fax: 828.315.9964 NC Engineering License No.: P-0214 NC Architectural License No.: 51254	<b>STAMP</b> 	<b>Office of Construction and Facilities Management</b> U.S. Department of Veterans Affairs	<b>Drawing Title</b> BUILDING 147 GROUND LEVEL - ELECTRICAL	<b>Phase</b> 100% CONSTRUCTION DOCUMENTS	<b>Project Title</b> EHRM INFRASTRUCTURE UPGRADES	<b>Project Number</b> 679-20-104
						<b>Approved:</b>	<b>FULLY SPRINKLERED</b>	<b>Location</b> TUSCALOOSA VAMC, TUSCALOOSA, AL.	<b>Building Number</b> 147

- GENERAL NOTES:**
- REFER TO TELECOM, HVAC, AND FIRE PROTECTION DRAWINGS. COORDINATE LOCATION ON NEW LIGHTING FIXTURES, NEW ELECTRICAL PANELS, AND NEW CABLE TRAY MOUNTED RECEPTACLES WITH OTHER DISCIPLINES.
- SHEET NOTES:**
- REMOVE ALL EXISTING DEVICES AND WIRING BACK TO SOURCE. VISIT SITE TO DETERMINE FULL EXTENT OF DEMOLITION.
  - REFER TO EQUIPMENT CONNECTION SCHEDULE.
  - PROVIDE RECEPTACLE FOR BUS A. MOUNT RECEPTACLE TO CABLE TRAY ABOVE RACK.
  - PROVIDE RECEPTACLE FOR BUS A. MOUNT RECEPTACLE TO CABLE TRAY ABOVE RACK.

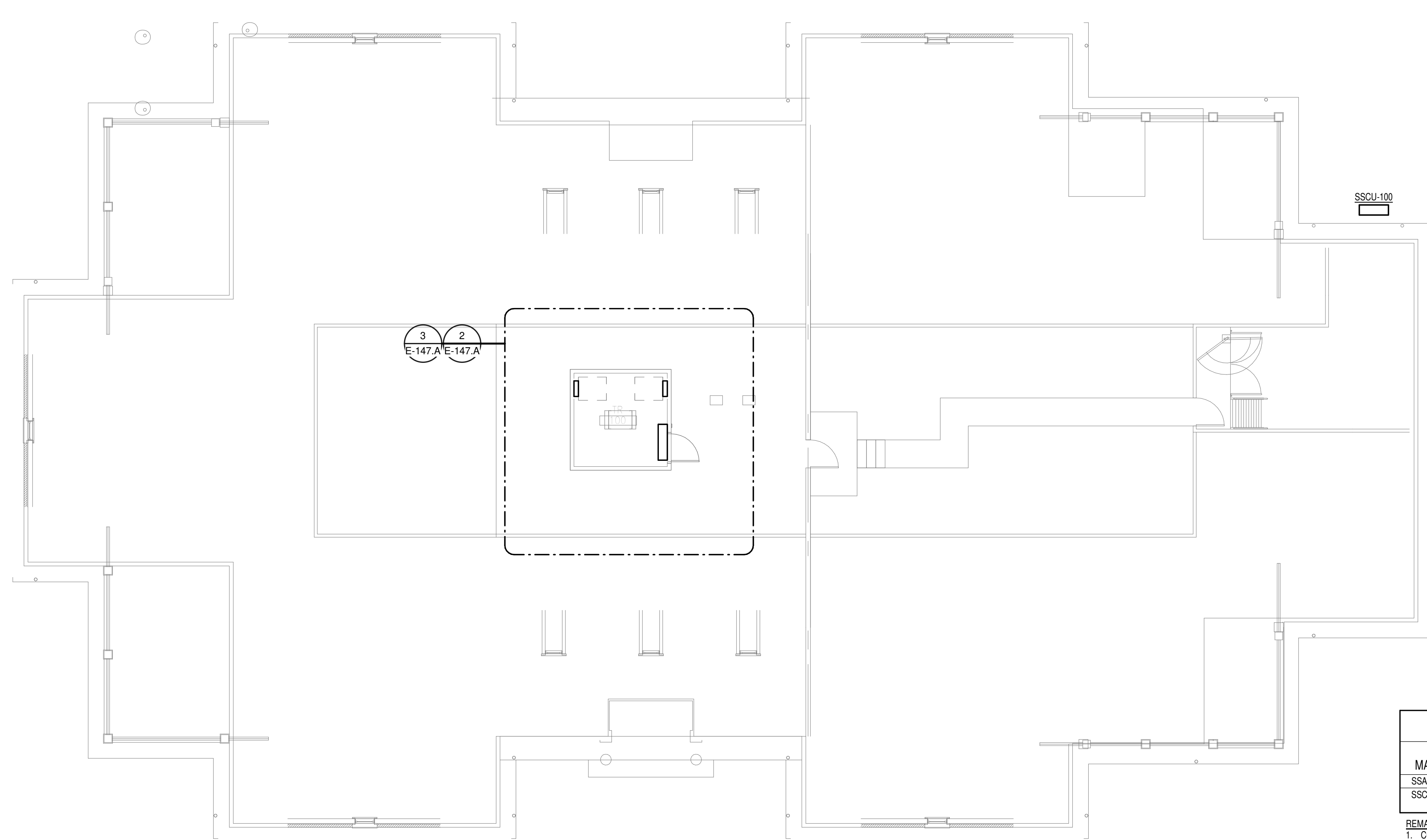


FEEDER SCHEDULE - COPPER		
FEEDER	NOMINAL SIZE	WIRE AND CONDUIT
10N	100 A	4#1 CU, #8 CU GND - 2" C.

**BUILDING 147 - ELECTRICAL ONE-LINE**  
NO SCALE

EQUIPMENT CONNECTION SCHEDULE																	
MARK	DESCRIPTION	FLA	MCA	MOCF	VOLTS	PHASE	POLES	LOAD [VA]	CONTROL TYPE	DISCONNECT BY	DISCONNECT TYPE	FEEDER	PANEL	CIRCUIT NUMBER	SCCR	GEN	REMARKS
SSAH-100	SPLIT SYSTEM CONDENSING UNIT	206	1	2	208	1	2	1960	INT	---	---	(3X) (80A) 2-#10 CU #10 CU GND - 3/4" C.	147-TR-EM-A	7.9	5	Yes	2
SSCU-100	SPLIT SYSTEM CONDENSING UNIT	15.2	19	25	208	1	2	1960	INT	ELECTRICAL	30A/2P/208V FUSED DISCONNECT SWITCH	(3X) (80A) 2-#10 CU #10 CU GND - 3/4" C.	147-TR-EM-A	7.9	5	Yes	1

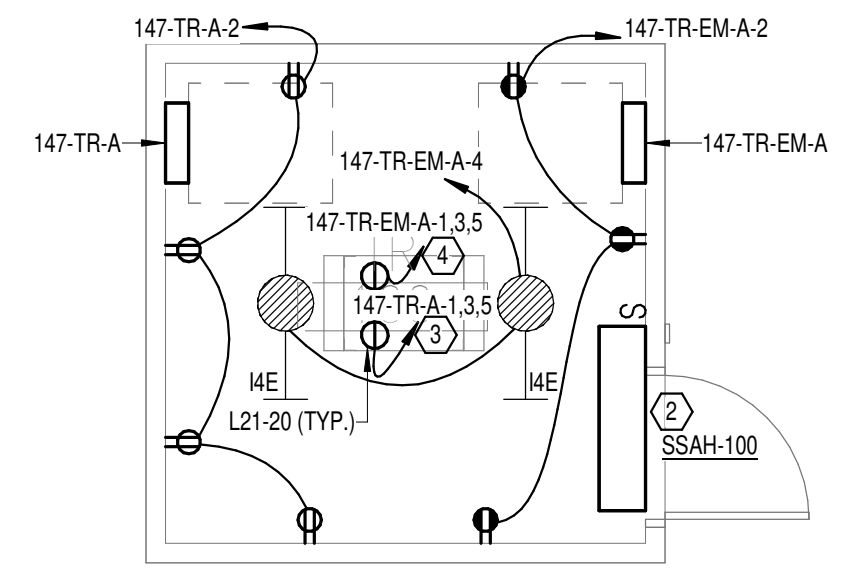
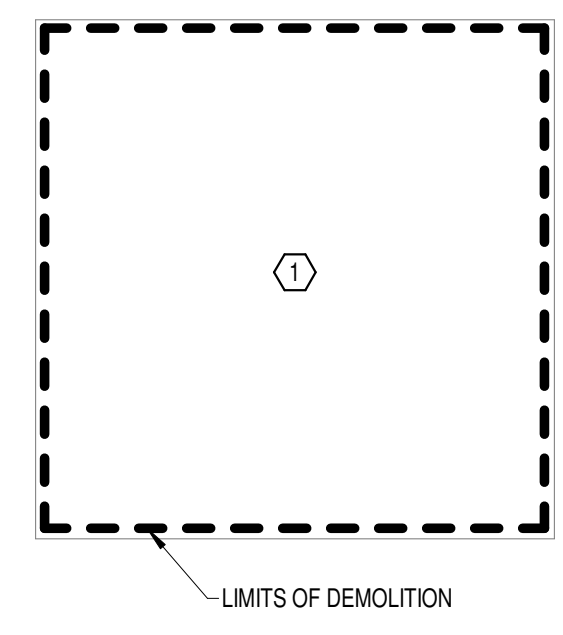
REMARKS: (EQUIPMENT CONNECTION SCHEDULE)  
 1. CONTROLS BETWEEN INDOOR AND OUTDOOR UNITS - INCLUDE CONTROL WIRING IN CONDUIT BETWEEN INDOOR AND OUTDOOR UNIT PER MANUFACTURERS REQUIREMENTS.  
 2. CONTROL TYPE - PROVIDE CONTROL AND CONNECTIONS 'INT' - CONTROLS ARE MANUFACTURED INTEGRAL TO THE EQUIPMENT (SELF-CONTAINED).



**OVERALL FLOOR PLAN ATTIC - ELECTRICAL**  
1/8" = 1'-0"

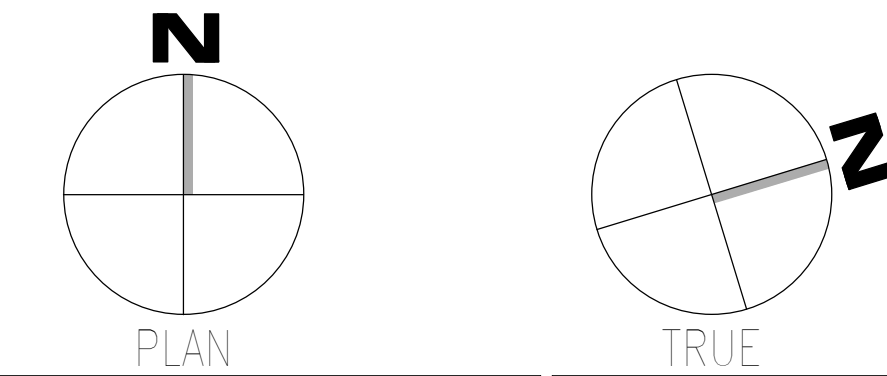
PANEL: 147-TR-A														
LOCATION: TR 100 SUPPLY FROM: MDP BRANCH: NORMAL SERVICE RATED: No MOUNTING: SURFACE NEMA ENCLOSURE: NEMA 1					VOLTS: 208/120 WYE PHASES: 3 WIRES: 4 INTEGRAL SPD: Yes AVAILABLE SCC (KA): 10					MAINS TYPE: MCB MCB/MLO RATING: 100 A MCB OPTIONS: SECTIONS: 1 PANEL POLES: 24				
CKT	CIRCUIT DESCRIPTION	OPT	RATING	POLES	A	B	C	POLES/RATING	OPT	CIRCUIT DESCRIPTION	CKT			
1	REC - IT RACK TR-100		20 A	3	1667 VA   720 VA			1   20 A	---	REC - TR-100	2			
3	SPARE		20 A	1	0 VA	0 VA		1   20 A	---	SPARE	4			
5	SPARE		20 A	1	0 VA	0 VA		1   20 A	---	SPARE	6			
7	SSCU-100/SSAH-100		25 A	2	980 VA	0 VA		1   20 A	---	SPARE	8			
9	SPARE		20 A	1	0 VA	0 VA		1   20 A	---	SPARE	10			
11	SPARE		20 A	1	0 VA	0 VA		1   20 A	---	SPARE	12			
13	SPARE		20 A	1	0 VA	0 VA		1   20 A	---	SPARE	14			
15	SPARE		20 A	1	0 VA	0 VA		1   20 A	---	SPARE	16			
17	SPACE		--	1	--	--		1   --	---	SPACE	18			
19	SPACE		--	1	--	--		1   --	---	SPACE	20			
21	SPACE		--	1	--	--		1   --	---	SPACE	22			
23	SPACE		--	1	--	--		1   --	---	SPACE	24			
<b>TOTAL LOAD:</b>					2387 VA	1667 VA	1667 VA							
<b>TOTAL AMPS:</b>					20 A	14 A	14 A							
LOAD CLASSIFICATION				CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS							
PWR-C				5000 VA	125.00%	6250 VA	CONNECTED LOAD: 5720 VA							
REC				720 VA	100.00%	720 VA	CONNECTED CURRENT: 16 A							
							DEMAND LOAD: 6970 VA							
							DEMAND CURRENT: 19 A							
							CONSIDER 125% DEMAND: 8713 A							
							EQUIPMENT AMPS: 100 A							
							FEEDER AVAILABLE: 80 %							
							SPARE CAPACITY: 81 A							

PANEL: 147-TR-EM-A														
LOCATION: TR 100 SUPPLY FROM: ES21 BRANCH: EMERGENCY SERVICE RATED: No MOUNTING: SURFACE NEMA ENCLOSURE: NEMA 1					VOLTS: 208/120 WYE PHASES: 3 WIRES: 4 INTEGRAL SPD: Yes AVAILABLE SCC (KA): 10					MAINS TYPE: MCB MCB/MLO RATING: 100 A MCB OPTIONS: SECTIONS: 2 PANEL POLES: 24				
CKT	CIRCUIT DESCRIPTION	OPT	RATING	POLES	A	B	C	POLES/RATING	OPT	CIRCUIT DESCRIPTION	CKT			
1	REC - IT RACK TR-100		20 A	3	1667 VA   540 VA	1667 VA	66 VA	1   20 A	---	REC - TR-100	2			
3	SPARE		20 A	1	0 VA	0 VA		1   20 A	---	SPARE	4			
5	SPARE		20 A	1	0 VA	0 VA		1   20 A	---	SPARE	6			
7	SSCU-100/SSAH-100		25 A	2	980 VA	0 VA		1   20 A	---	SPARE	8			
9	SPARE		20 A	1	0 VA	0 VA		1   20 A	---	SPARE	10			
11	SPARE		20 A	1	0 VA	0 VA		1   20 A	---	SPARE	12			
13	SPARE		20 A	1	0 VA	0 VA		1   20 A	---	SPARE	14			
15	SPARE		20 A	1	0 VA	0 VA		1   20 A	---	SPARE	16			
17	SPACE		--	1	--	--		1   --	---	SPACE	18			
19	SPACE		--	1	--	--		1   --	---	SPACE	20			
21	SPACE		--	1	--	--		1   --	---	SPACE	22			
23	SPACE		--	1	--	--		1   --	---	SPACE	24			
<b>TOTAL LOAD:</b>					3187 VA	2713 VA	1667 VA							
<b>TOTAL AMPS:</b>					28 A	24 A	14 A							
LOAD CLASSIFICATION				CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS							
LTG				66 VA	125.00%	83 VA	CONNECTED LOAD: 7566 VA							
PWR-C				5000 VA	125.00%	6250 VA	CONNECTED CURRENT: 21 A							
REC				540 VA	100.00%	540 VA	DEMAND LOAD: 9323 VA							
MEG-C				1960 VA	125.00%	2450 VA	DEMAND CURRENT: 26 A							
							CONSIDER 125% DEMAND: 11653 A							
							EQUIPMENT AMPS: 100 A							
							FEEDER AVAILABLE: 74 %							
							SPARE CAPACITY: 74 A							



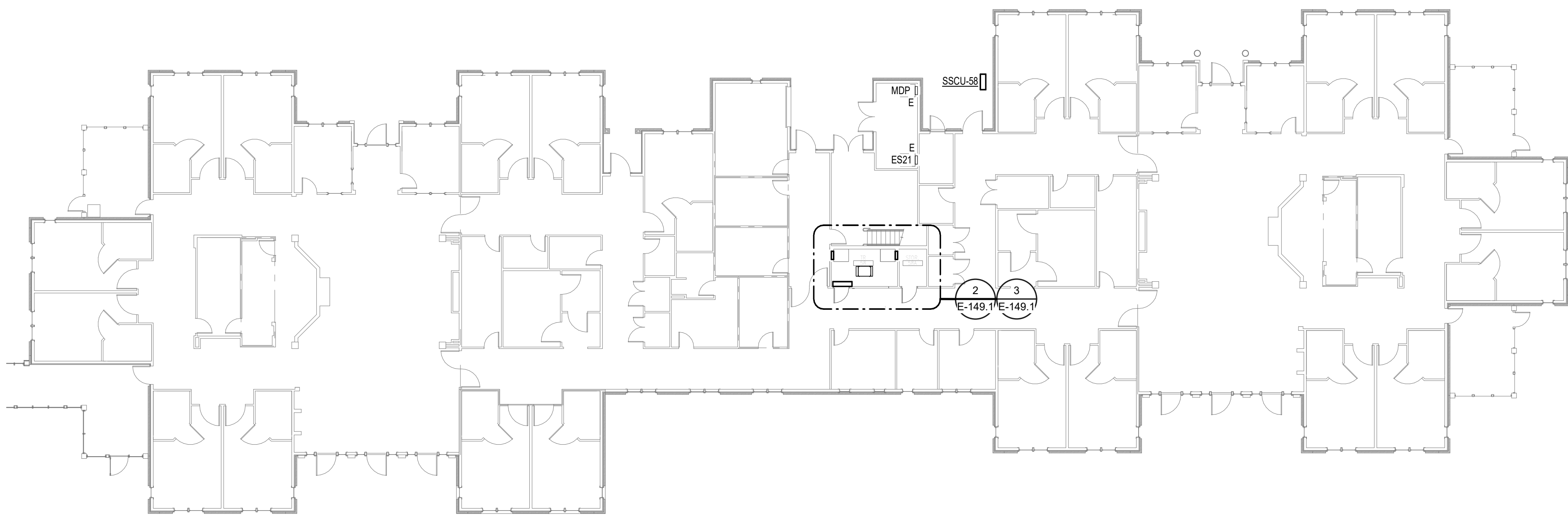
**DEMOLITION FLOOR PLAN ATTIC - ELECTRICAL**  
1/4" = 1'-0"

**NEW FLOOR PLAN ATTIC - ELECTRICAL**  
1/4" = 1'-0"

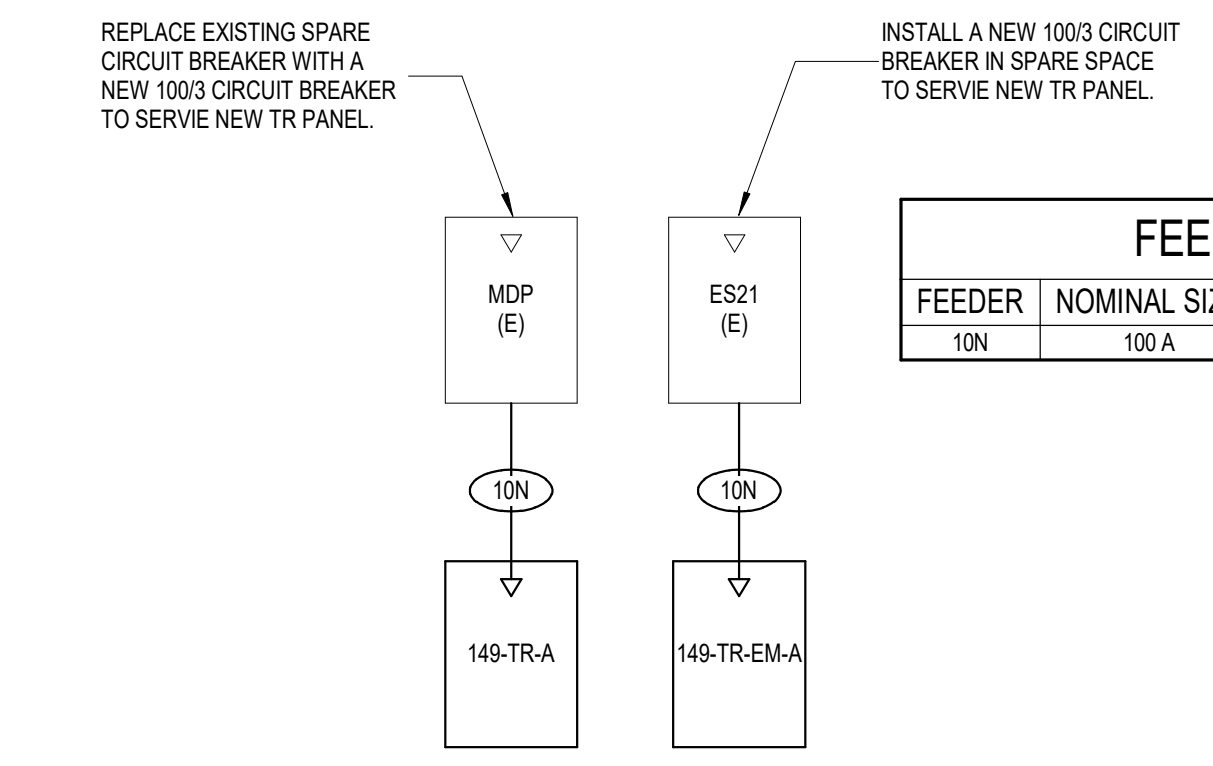


<b>CONSULTANT</b>  WileyWilson 127 Nationwide Drive Lynchburg, VA 24502 Phone: 434.947.1901 www.wileywilson.com		<b>ARCHITECT/ENGINEER OF RECORD</b>  Atriax, pllc 102 3rd Avenue, NE PO Box 1629, Hickory, NC 28603 Phone: 828.315.9962 Fax: 828.315.9964 NC Engineering License No.: P-0214 NC Architectural License No.: 51254		<b>Office of Construction and Facilities Management</b>  U.S. Department of Veterans Affairs		Drawing Title <b>BUILDING 147 ATTIC - ELECTRICAL</b> Approved:		Phase <b>100% CONSTRUCTION DOCUMENTS</b> <b>FULLY SPRINKLERED</b>		Project Title <b>EHRM INFRASTRUCTURE UPGRADES</b> Location <b>TUSCALOOSA VAMC, TUSCALOOSA, AL.</b>		Project Number <b>679-20-104</b> Building Number <b>147</b> Drawing Number <b>E-147.A</b>	
Revisions:		Date:		Issue Date <b>03/08/2024</b>		Checked <b>CGH</b>		Drawn <b>MJJ</b>					





**1** OVERALL FLOOR PLAN  
LEVEL 01 - ELECTRICAL  
1/16" = 1'-0"



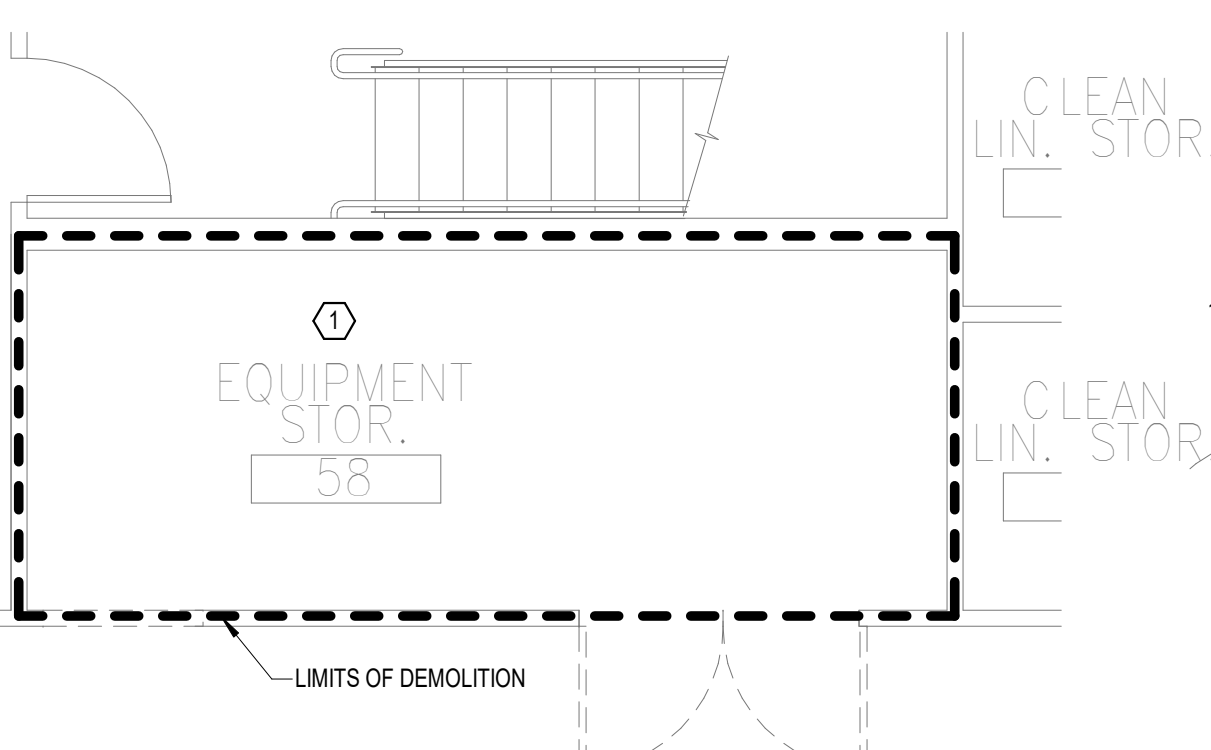
FEEDER SCHEDULE - COPPER		
FEEDER	NOMINAL SIZE	WIRE AND CONDUIT
10N	100 A	4#1 CU, #8 CU GND - 2" C

**GENERAL NOTES:**  
 A. REFER TO TELECOM, HVAC, AND FIRE PROTECTION DRAWINGS. COORDINATE LOCATION ON NEW LIGHTING FIXTURES, NEW ELECTRICAL PANELS, AND NEW CABLE TRAY MOUNTED RECEPTACLES WITH OTHER DISCIPLINES.  
**SHEET NOTES:**  
 1. REMOVE ALL EXISTING DEVICES AND WIRING BACK TO SOURCE. VISIT SITE TO DETERMINE FULL EXTENT OF DEMOLITION.  
 2. REFER TO EQUIPMENT CONNECTION SCHEDULE.  
 3. PROVIDE RECEPTACLE FOR BUS B. MOUNT RECEPTACLE TO CABLE TRAY ABOVE RACK.  
 4. PROVIDE RECEPTACLE FOR BUS A. MOUNT RECEPTACLE TO CABLE TRAY ABOVE RACK.

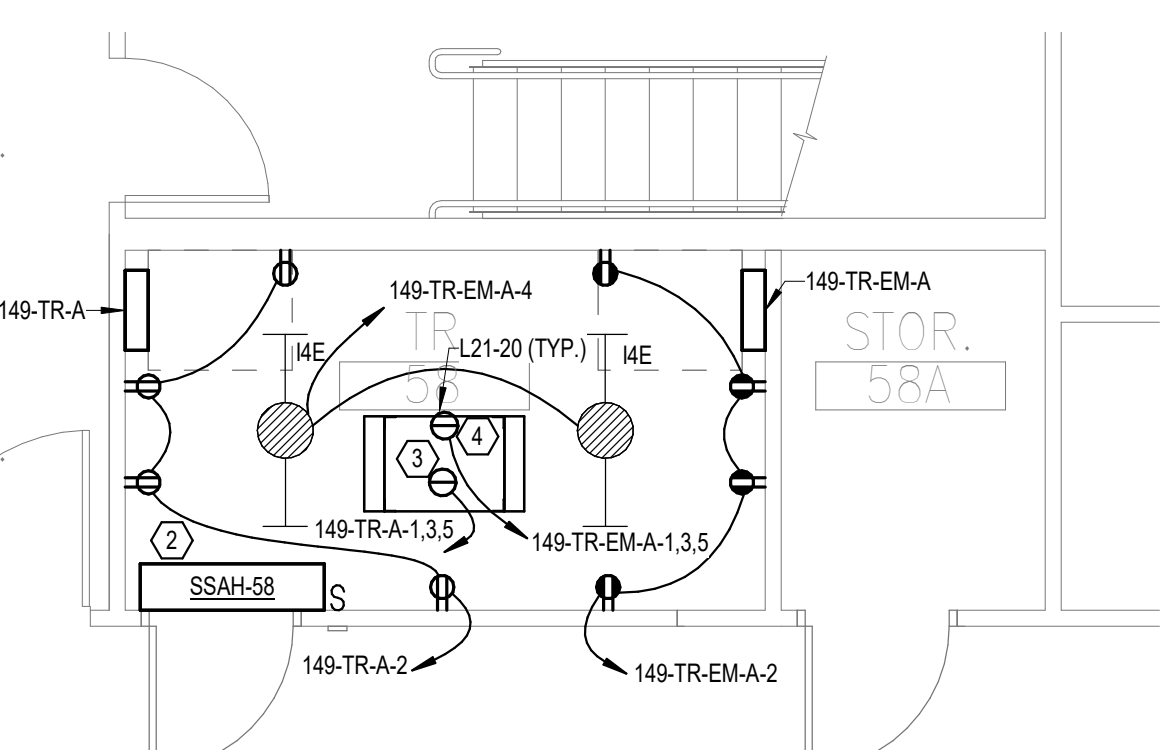
**4** BUILDING 149 -  
ELECTRICAL ONE-LINE  
NO SCALE

EQUIPMENT CONNECTION SCHEDULE																	
MARK	DESCRIPTION	FLA	MCA	MOCPP	VOLTS	PHASE	POLES	LOAD [VA]	CONTROL TYPE	DISCONNECT BY	DISCONNECT TYPE	FEEDER	PANEL	CIRCUIT NUMBER	SCCR	GEN	REMARKS
SSAH-58	SPLIT SYSTEM CONDENSING UNIT	208	1	2	208	1	2	1980	INT	ELECTRICAL	30A/2P/28 FUSED DISCONNECT SWITCH	(3X) (30A) 2#10 CU, #10 CU GND - 3#FC	149-TR-EMA	7.9	5	Yes	2
SSCU-58	SPLIT SYSTEM CONDENSING UNIT	15.2	19	25	208	1	2	1980	INT	ELECTRICAL	30A/2P/28 FUSED DISCONNECT SWITCH	(3X) (30A) 2#10 CU, #10 CU GND - 3#FC	149-TR-EMA	7.9	5	Yes	1

REMARKS: (EQUIPMENT CONNECTION SCHEDULE)  
 1. CONTROLS BETWEEN INDOOR AND OUTDOOR UNITS - INCLUDE CONTROL WIRING IN CONDUIT BETWEEN INDOOR AND OUTDOOR UNIT PER MANUFACTURERS REQUIREMENTS.  
 2. "CONTROL TYPE" - PROVIDE CONTROL AND CONNECTIONS "INT" - CONTROLS ARE MANUFACTURED INTEGRAL TO THE EQUIPMENT (SELF-CONTAINED).



**2** DEMOLITION FLOOR PLAN  
LEVEL 01 - ELECTRICAL  
1/4" = 1'-0"



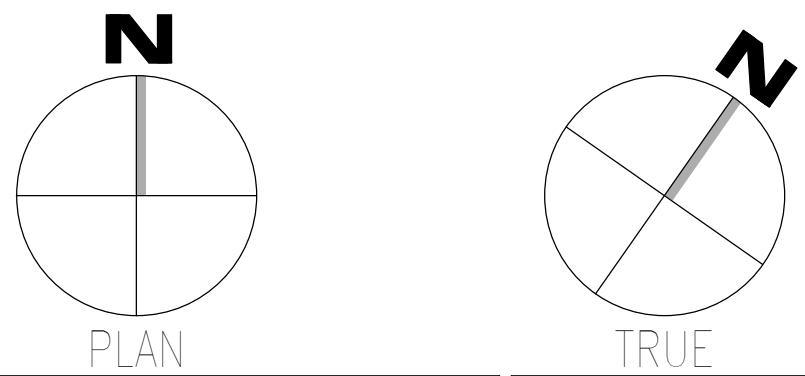
**3** NEW FLOOR PLAN  
LEVEL 01 - ELECTRICAL  
1/4" = 1'-0"

PANEL: 149-TR-A														
LOCATION: TR 58			VOLTS: 208/120 WYE			MAINS TYPE: MCB			PHASES: 3			MCA/MLO RATING: 100 A		
SUPPLY FROM: MDP			PHASES: 3			WIRES: 4			INTEGRAL SPD: Yes			AVAILABLE SCC (KA): 10		
BRANCH: NORMAL			MOUNTING: SURFACE			NEMA ENCLOSURE: NEMA 1			SECTION: 1			PANEL POLES: 24		
SERVICE RATED: No			INTEGRAL SPD: Yes			AVAILABLE SCC (KA): 10			SECTION: 1			PANEL POLES: 24		
CKT	CIRCUIT DESCRIPTION	OPT	RATING	POLES	A	B	C	POLES	RATING	OPT	CIRCUIT DESCRIPTION	CKT		
1	REC - IT RACK TR-58		20 A	3	667 VA	720 VA		1	20 A	--	REC - TR-58	2		
3	SPARE	--	20 A	1	0 VA	0 VA		1	20 A	--	SPARE	4		
5	SPARE	--	20 A	1	0 VA	0 VA		1	20 A	--	SPARE	6		
7	SPARE	--	20 A	1	0 VA	0 VA		1	20 A	--	SPARE	8		
9	SPARE	--	20 A	1	0 VA	0 VA		1	20 A	--	SPARE	10		
11	SPARE	--	20 A	1	0 VA	0 VA		1	20 A	--	SPARE	12		
13	SPARE	--	20 A	1	0 VA	0 VA		1	20 A	--	SPARE	14		
15	SPARE	--	20 A	1	0 VA	0 VA		1	20 A	--	SPARE	16		
17	SPACE	--	--	1	--	--		1	--	--	SPACE	18		
19	SPACE	--	--	1	--	--		1	--	--	SPACE	20		
21	SPACE	--	--	1	--	--		1	--	--	SPACE	22		
23	SPACE	--	--	1	--	--		1	--	--	SPACE	24		
TOTAL LOAD:					1387 VA	667 VA	667 VA							
TOTAL AMPS:					12 A	6 A	6 A							
LOAD CLASSIFICATION		CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS									
PWR-C		2000 VA	125.00%	2500 VA	CONNECTED LOAD: 2720 VA									
REC		720 VA	100.00%	720 VA	CONNECTED CURRENT: 8 A									
					DEMAND LOAD: 3220 VA									
					DEMAND CURRENT: 9 A									
					CONSIDER 125% DEMAND: 4025 A									
					EQUIPMENT AMPS: 100 A									
					FEEDER AVAILABLE: 91 A									
					SPARE CAPACITY: 91 A									

PANEL: 149-TR-EM-A														
LOCATION: TR 58			VOLTS: 208/120 WYE			MAINS TYPE: MCB			PHASES: 3			MCA/MLO RATING: 100 A		
SUPPLY FROM: ES21			PHASES: 3			WIRES: 4			INTEGRAL SPD: Yes			AVAILABLE SCC (KA): 10		
BRANCH: EMERGENCY			MOUNTING: SURFACE			NEMA ENCLOSURE: NEMA 1			SECTION: 1			PANEL POLES: 24		
SERVICE RATED: No			INTEGRAL SPD: Yes			AVAILABLE SCC (KA): 10			SECTION: 1			PANEL POLES: 24		
CKT	CIRCUIT DESCRIPTION	OPT	RATING	POLES	A	B	C	POLES	RATING	OPT	CIRCUIT DESCRIPTION	CKT		
1	REC - IT RACK TR-58		20 A	3	667 VA	720 VA		1	20 A	--	REC - TR-58	2		
3	SPARE	--	20 A	1	0 VA	0 VA		1	20 A	--	SPARE	4		
5	SPARE	--	20 A	1	0 VA	0 VA		1	20 A	--	SPARE	6		
7	SSCU-58/SSAH-58		25 A	2	980 VA	0 VA		1	20 A	--	SPARE	8		
9	SPARE	--	20 A	1	0 VA	0 VA		1	20 A	--	SPARE	10		
11	SPARE	--	20 A	1	0 VA	0 VA		1	20 A	--	SPARE	12		
13	SPARE	--	20 A	1	0 VA	0 VA		1	20 A	--	SPARE	14		
15	SPARE	--	20 A	1	0 VA	0 VA		1	20 A	--	SPARE	16		
17	SPACE	--	--	1	--	--		1	--	--	SPACE	18		
19	SPACE	--	--	1	--	--		1	--	--	SPACE	20		
21	SPACE	--	--	1	--	--		1	--	--	SPACE	22		
23	SPACE	--	--	1	--	--		1	--	--	SPACE	24		
TOTAL LOAD:					2367 VA	1713 VA	667 VA							
TOTAL AMPS:					21 A	16 A	6 A							
LOAD CLASSIFICATION		CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS									
LTG		66 VA	125.00%	83 VA	CONNECTED LOAD: 4746 VA									
PWR-C		2000 VA	125.00%	2500 VA	CONNECTED CURRENT: 13 A									
REC		720 VA	100.00%	720 VA	DEMAND LOAD: 5753 VA									
MEQ-C		1960 VA	125.00%	2450 VA	DEMAND CURRENT: 16 A									
					CONSIDER 125% DEMAND: 7191 A									
					EQUIPMENT AMPS: 100 A									
					FEEDER AVAILABLE: 84 A									
					SPARE CAPACITY: 84 A									

OPTIONS:  
 CIRCUIT BREAKER OPTIONS SUFFIX: 'S' OR 'ST' - PROVIDE SHUNT TRIP CIRCUIT BREAKER / 'G' OR 'GFCI' - PROVIDE GFCI CIRCUIT BREAKER / 'GFP' - PROVIDE GFP CIRCUIT BREAKER / 'ERMS' - ENERGY REDUCING MAINTENANCE SWITCH / 'ZSI' - ZONE SELECTIVE INTERLOCKING / 'L' - PROVIDE CIRCUIT BREAKER WITH LOCKING PROVISIONS / 'RT' - PROVIDE CIRCUIT BREAKER WITH RED MARKING  
**GENERAL REMARKS:**  
 A. PANEL AIC (INTERRUPTING) RATING SHALL BE MINIMUM 120% OF THE AVAILABLE SCC (SHORT CIRCUIT CURRENT).  
 B. BUS A PANEL.  
 C. WHERE NEW PANELS ARE SHOWN AT TELECOM PLYWOOD LOCATIONS, MOUNT PANELS TO PLYWOOD.

OPTIONS:  
 CIRCUIT BREAKER OPTIONS SUFFIX: 'S' OR 'ST' - PROVIDE SHUNT TRIP CIRCUIT BREAKER / 'G' OR 'GFCI' - PROVIDE GFCI CIRCUIT BREAKER / 'GFP' - PROVIDE GFP CIRCUIT BREAKER / 'ERMS' - ENERGY REDUCING MAINTENANCE SWITCH / 'ZSI' - ZONE SELECTIVE INTERLOCKING / 'L' - PROVIDE CIRCUIT BREAKER WITH LOCKING PROVISIONS / 'RT' - PROVIDE CIRCUIT BREAKER WITH RED MARKING  
**GENERAL REMARKS:**  
 A. PANEL AIC (INTERRUPTING) RATING SHALL BE MINIMUM 120% OF THE AVAILABLE SCC (SHORT CIRCUIT CURRENT).  
 B. BUS A PANEL.  
 C. WHERE NEW PANELS ARE SHOWN AT TELECOM PLYWOOD LOCATIONS, MOUNT PANELS TO PLYWOOD.



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<b>CONSULTANT</b>  WileyWilson 127 Nationwide Drive Lynchburg, VA 24502 Phone: 434.947.1901 www.wileywilson.com		<b>ARCHITECT/ENGINEER OF RECORD</b>  Atriax, pllc 102 3rd Avenue, NE PO Box 1629, Hickory, NC 28603 Phone: 828.315.9962 Fax: 828.315.9964 NC Engineering License No.: P-0214 NC Architectural License No.: 51254		<b>Office of Construction and Facilities Management</b> U.S. Department of Veterans Affairs		Drawing Title <b>BUILDING 149 LEVEL 01 - ELECTRICAL</b> Approved:		Phase <b>100% CONSTRUCTION DOCUMENTS</b> <b>FULLY SPRINKLERED</b>		Project Title <b>EHRM INFRASTRUCTURE UPGRADES</b> Location <b>TUSCALOOSA VAMC, TUSCALOOSA, AL.</b>		Project Number <b>679-20-104</b> Building Number <b>149</b> Drawing Number <b>E-149.1</b>	
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ONE LINE SYMBOL table with columns: PLAN SYMBOL, NAME, and description for various electrical components like automatic transfer switch, continuation, enclosed circuit breaker, generator, ground bar, etc.

ELECTRICAL MISC SYMBOLS table with columns: PLAN SYMBOL, NAME, and description for symbols like branch circuit concealed in ceiling or wall, branch circuit concealed in floor or below grade, clearance space, conduit break, etc.

ELECTRICAL FIXTURE SYMBOLS table with columns: PLAN SYMBOL, NAME, and description for symbols like receptacle - duplex - conv, receptacle - duplex - conv - gfci, etc.

ELECTRICAL MISC SYMBOL LEGEND table with columns: PLAN SYMBOL, NAME, and DESCRIPTION for cable tray, 12x4" ladder, and lighting control tag.

ELECTRICAL FIXTURE SYMBOL LEGEND table with columns: PLAN SYMBOL, NAME, and DESCRIPTION for ground bar, junction box - wall, receptacle - nema outlet - ceiling mounted, surface raceway - power, etc.

LIGHTING DEVICE SYMBOL LEGEND table with columns: PLAN SYMBOL, NAME, and DESCRIPTION for push button and lighting device symbols.

ELECTRICAL EQUIPMENT SYMBOLS table with columns: PLAN SYMBOL, NAME, and DESCRIPTION for automatic transfer switch, distribution panel, panelboard - surface, transformer - dry type, transformer - oil filled, ups cabinet, ups transformer, and utility pad mount switch.

FIRE ALARM SYMBOLS table with columns: PLAN SYMBOL, NAME, and DESCRIPTION for detector - system heat - ceiling, detector - system smoke - ceiling, fire alarm remote annunciator, horn and strobe combination - wall, manual pull station, and strobe - wall.

FIRE ALARM SYMBOL LEGEND table with columns: PLAN SYMBOL, NAME, and DESCRIPTION for fire alarm control panel surface mount, fire suppression control panel, and smoke damper or fire/smoke damper.

- ELECTRICAL GENERAL NOTES: GENERAL NOTES SHALL APPLY TO ALL SHEETS. BRANCH CIRCUITS WITH A TOTAL LENGTH LONGER THAN 75' SHALL UTILIZE #10 AWG CONDUCTORS. RECEPTACLE BRANCH CIRCUITS WITH A TOTAL LENGTH LONGER THAN 150' SHALL UTILIZE #8 AWG CONDUCTORS.

ELECTRICAL ABBREVIATIONS table with columns: ABBREVIATION, DESCRIPTION, and MOUNTING HEIGHT TO CENTERLINE (ABOVE FINISHED FLOOR).

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Revisions table with columns: Revisions, Date, and description for project changes.

CONSULTANT section featuring logos for WileyWilson, Specialized Engineering Solutions, and Britt, Peters & Associates.

ARCHITECT/ENGINEER OF RECORD section featuring the Atriax Group logo and contact information.

STAMP section containing the professional engineering seal for Charles G. Wall.

Office of Construction and Facilities Management logo and U.S. Department of Veterans Affairs affiliation.

Drawing Title: ELECTRICAL SYMBOLS AND ABBREVIATIONS. Includes an approved signature line.

Phase: 100% CONSTRUCTION DOCUMENTS. Fully Sprinklered.

Project Title: EHRM INFRASTRUCTURE UPGRADES. Project Number: 679-20-104. Building Number: B151. Drawing Number: E-151.00.

**LIGHTING CONTROL PLAN GENERAL NOTES:**

- (LIGHTING CONTROL GENERAL NOTES SHALL APPLY TO ALL SHEETS)
- LIGHTING CONTROL DEVICES ARE INDICATED WITHOUT CONNECTION TO FIXTURE(S) BEING CONTROLLED. WITHIN EACH AREA, CONNECT CONTROL DEVICE TO SERVE LIGHT FIXTURE(S) LOCATED WITHIN SAME AREA. WHERE LIGHT FIXTURES ARE INDICATED WITH A SUBSCRIPT LETTER IDENTIFYING INDIVIDUAL LIGHTING CONTROL ZONES, CONTROL DEVICE SERVING AREA WITH MATCHING SUBSCRIPT SHALL CONTROL CORRESPONDING LIGHT FIXTURES.
  - LIGHTING CONTROL DEVICE MOUNTING HEIGHTS ARE NOT INDICATED ON ELECTRICAL FLOOR PLANS. CONTRACTOR SHALL COORDINATE EXACT DEVICE LOCATIONS AND MOUNTING HEIGHTS WITH ARCHITECTURAL INTERIOR ELEVATIONS. WHERE DEVICE MOUNTING HEIGHTS ARE NOT INDICATED PER ARCHITECT, MOUNT DEVICES AT HEIGHT INDICATED IN ELECTRICAL PROJECT SPECIFICATIONS.
  - CONTRACTOR SHALL COORDINATE ALL LIGHTING CONTROL DEVICE MOUNTING LOCATIONS AND ELEVATIONS WITH ARCHITECTURAL DRAWINGS TO ASSURE COMPATIBILITY WITH FINISHES SPECIFIED ON THE ARCHITECTURAL DRAWINGS. COORDINATE ROUTING OF ALL ELECTRICAL BRANCH CIRCUITS AND CONDUIT WITH OTHER TRADES TO ALLOW FOR SERVICE AND MAINTENANCE AND TO MINIMIZE THE USE OF ACCESS PANELS. WHERE ACCESS PANELS CANNOT BE AVOIDED, WORK TO INSTALL PANELS IN LOCATIONS ACCEPTABLE TO ARCHITECT.
  - REFER TO DETAILS, SCHEDULES, AND SYMBOL LEGENDS FOR ADDITIONAL REQUIREMENTS.

**LIGHTING CONTROL SYSTEM GENERAL NOTES:**

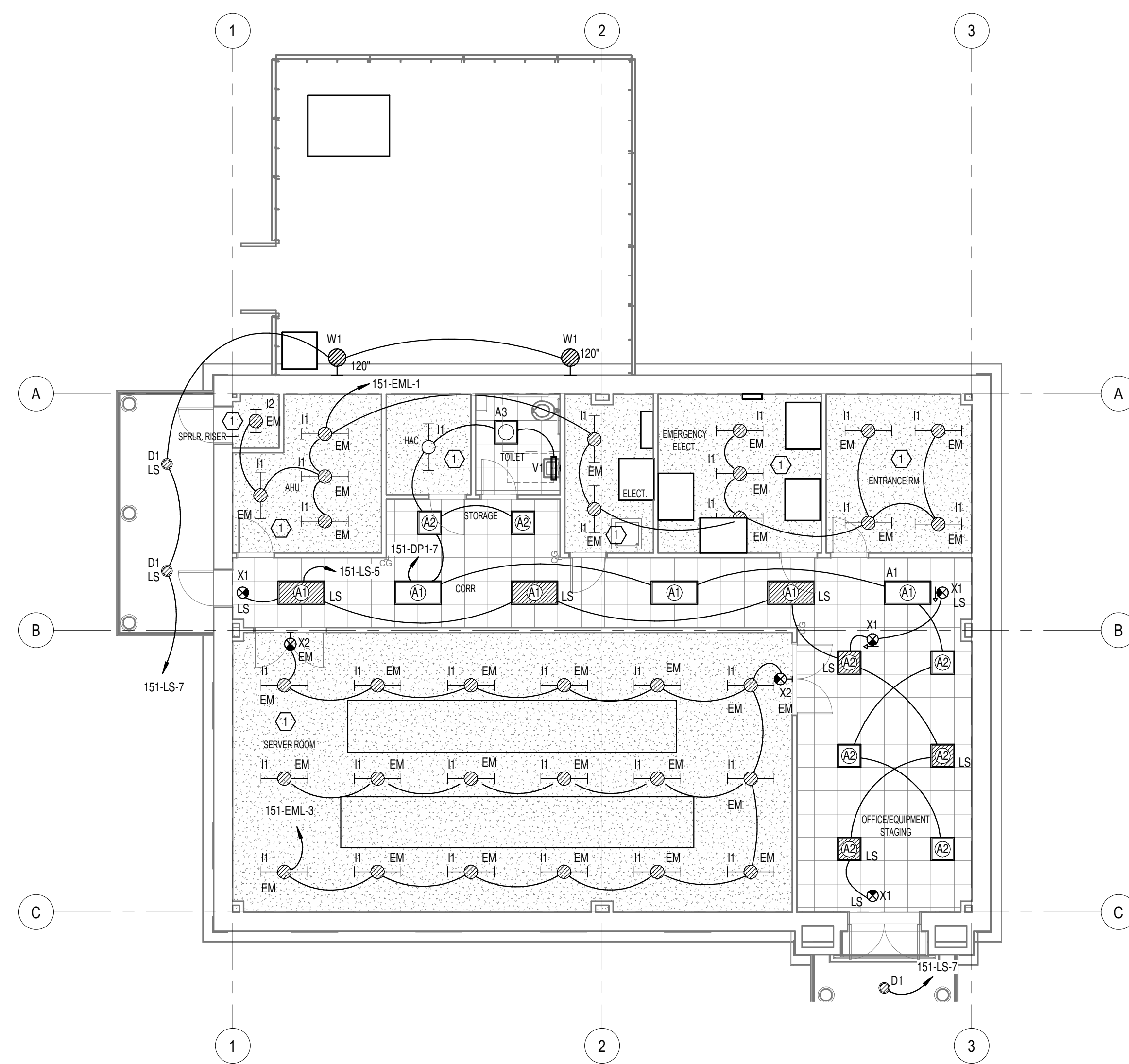
- SUBMIT MANUFACTURER INTERCONNECTION DIAGRAMS INDICATING DEVICE QUANTITIES, LOCATIONS, AND ASSOCIATED CONTROLS CABLING FOR APPROVAL.
- WHERE TOTAL SYSTEM COST (INCLUDING INSTALLATION) OF A WIRELESS AND/OR LUMINAIRE LEVEL LIGHTING CONTROL SYSTEM IS LESSER THAN A WIRED SYSTEM WHILE PROVIDING THE SAME FUNCTIONALITY, THAT SYSTEM MAY BE PROVIDED.
- SUBMIT DOCUMENTATION CONFIRMING CONTROL SYSTEM'S ABILITY TO COMPLY WITH SPECIFIED LIGHTING CONTROL SEQUENCE OF OPERATIONS. CLEARLY IDENTIFY ANY CONTROL DEVIATIONS NECESSARY DUE TO SUBMITTED CONTROL SYSTEMS FUNCTIONALITY, ALONG WITH PROPOSED SEQUENCE OF OPERATIONS.
- DEVICE QUANTITIES NOT INDICATED. PROVIDE TYPE AND QUANTITY OF DEVICES AS REQUIRED TO PROVIDE COMPLETE COVERAGE OF SPACE AND INTENDED SYSTEM OPERATION.
- REFER TO LIGHTING CONTROL PLAN FOR WALL DEVICE TYPES, QUANTITIES, AND LOCATIONS. REFER TO LIGHTING CONTROL WALL DEVICE SCHEDULES FOR WALL DEVICE CONFIGURATION, OPERATION, AND LABELING.
- PROVIDE FUNCTIONAL TESTING OF LIGHTING CONTROLS THAT COMPLIES WITH IECC 2018 REQUIREMENTS. LIGHTING CONTROL FUNCTIONAL TESTING INCLUDES TESTING FOR PROPER CALIBRATION, ADJUSTMENT, PROGRAMMING AND WORKING CONDITION. TESTING INDIVIDUAL SHALL NOT BE INVOLVED WITH PROJECT DESIGN OR CONSTRUCTION AND MUST PROVIDE CERTIFYING DOCUMENT THAT LIGHTING CONTROLS MEET THE PERFORMANCE CRITERIA.

**LIGHTING GENERAL NOTES:**

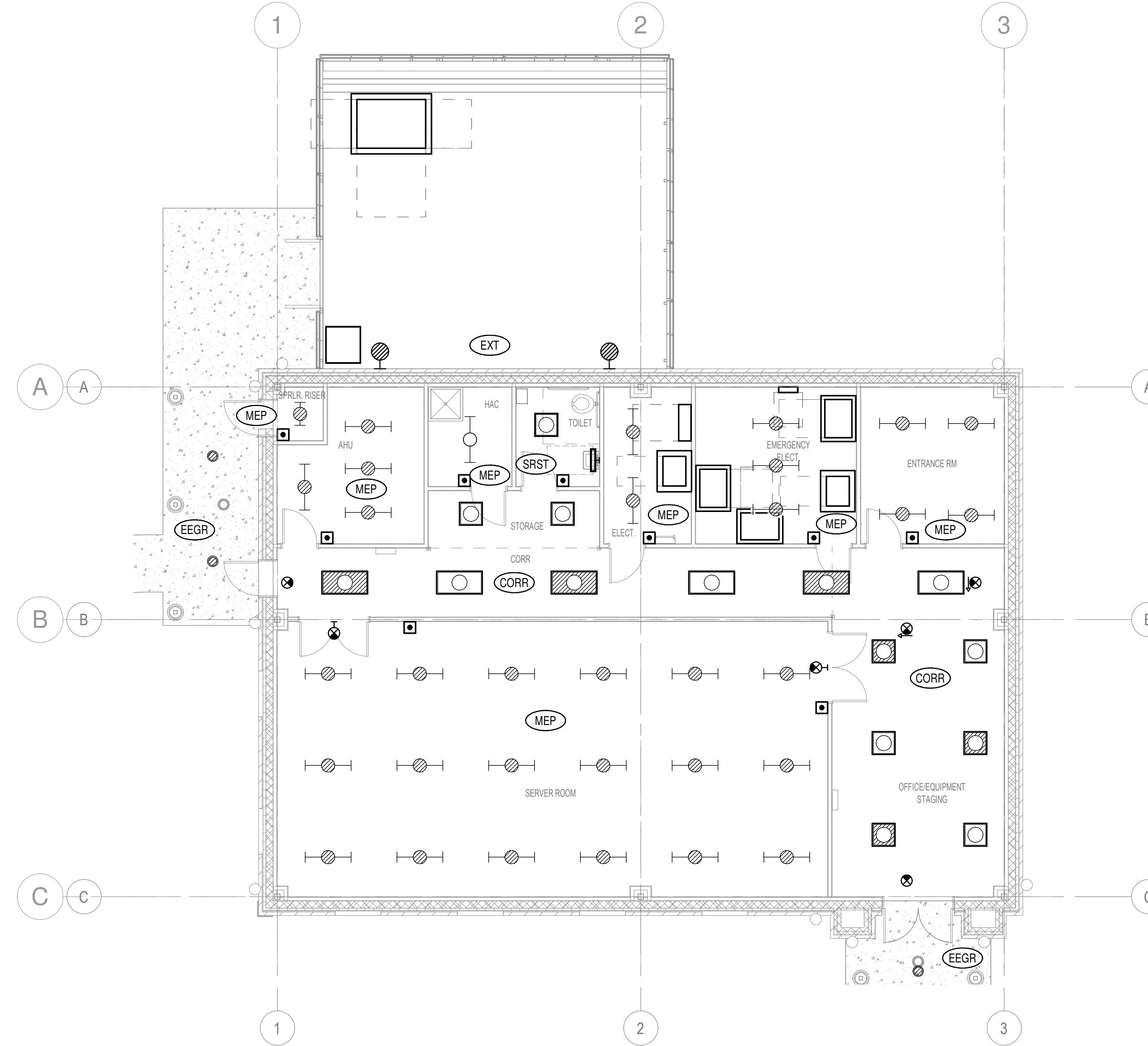
- (LIGHTING GENERAL NOTES SHALL APPLY TO ALL SHEETS)
- REFER TO DETAILS, SCHEDULES, AND SYMBOL LEGENDS FOR ADDITIONAL REQUIREMENTS.
  - REFER TO LUMINAIRE SCHEDULE FOR LUMINAIRE DETAILS.
  - FIXTURES DESIGNATED WITH 'E' AND EXIT LIGHTS SHALL BE SERVED FROM A 20A 120V LIFE SAFETY BRANCH CIRCUIT. EXIT LIGHTS SHALL BE ILLUMINATED 24 HOURS. FIXTURES DESIGNATED SHALL BE SWITCHED BY CONTROLS INDICATED. PROVIDE EMERGENCY LIGHTING CONTROL RELAYS PER SPECIFICATIONS FOR EMERGENCY LIGHTING OVERRIDE. REFER TO MANUFACTURER'S WIRING DIAGRAMS FOR INSTALLATION INSTRUCTIONS.

**SHEET NOTES:**

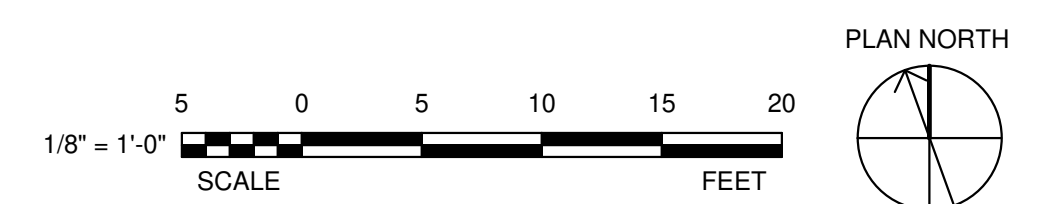
- LIGHTING FIXTURES IN EXPOSED CEILING AREAS SHALL BE PENDANT MOUNTED TO 10-FT AFF.



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



**2 FLOOR PLAN - LIGHTING CONTROL**  
1/8" = 1'-0"



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Revisions:	Date:

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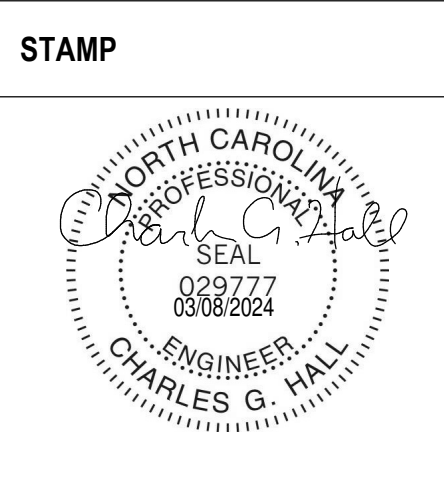
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Office of Construction and Facilities Management

Drawing Title  
**FLOOR PLAN - LIGHTING**

Approved: \_\_\_\_\_

Phase  
**100% CONSTRUCTION DOCUMENTS**

**FULLY SPRINKLERED**

Project Title <b>EHRM INFRASTRUCTURE UPGRADES</b>		Project Number <b>679-20-104</b>
Location <b>TUSCALOOSA VAMC, TUSCALOOSA, AL.</b>		Building Number <b>B151</b>
Issue Date <b>03/08/2024</b>	Checked <b>CGH</b>	Drawn <b>MJJ</b>
Drawing Number <b>E-151.1</b>		



**POWER GENERAL NOTES:**

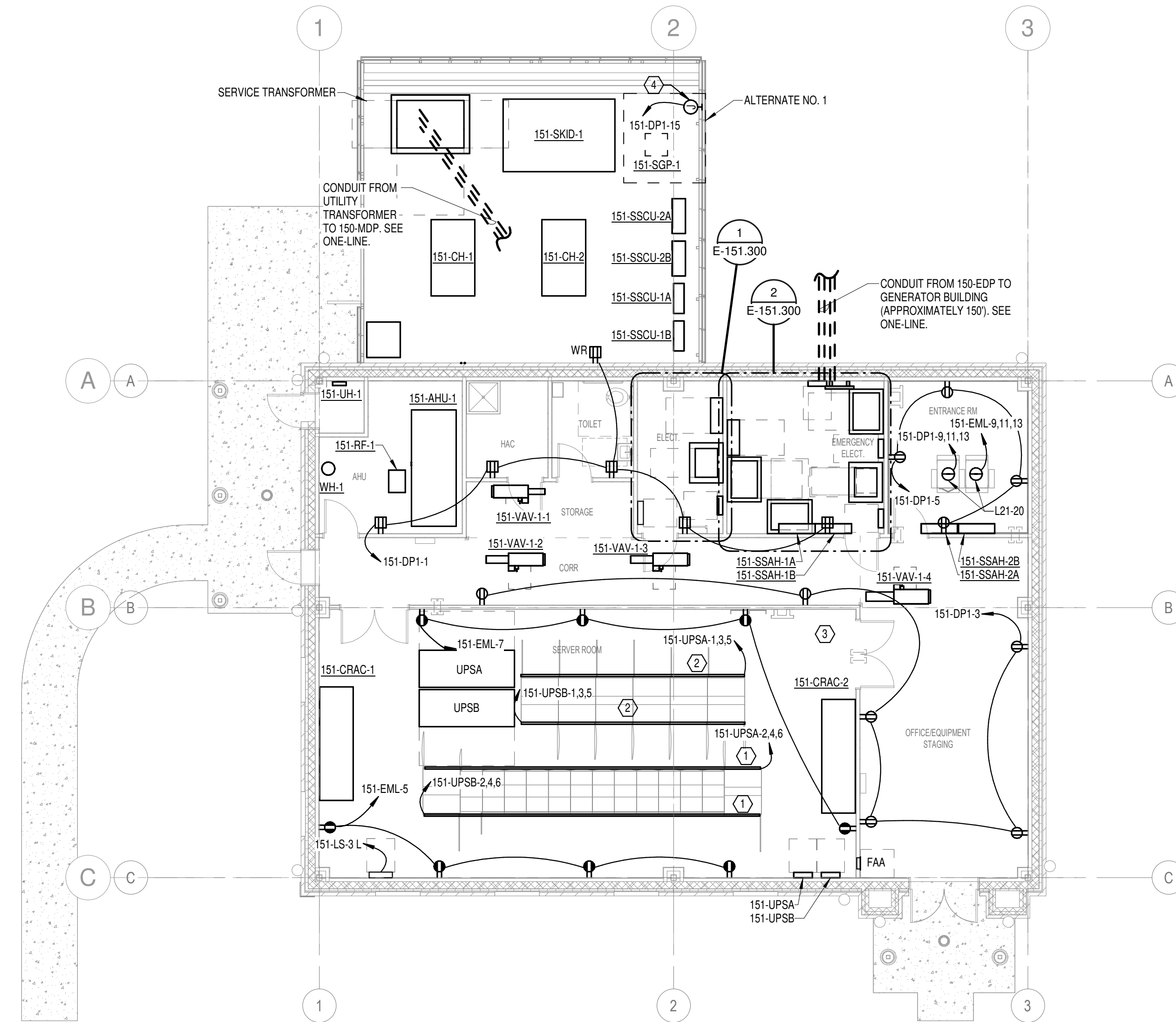
- (POWER GENERAL NOTES SHALL APPLY TO ALL SHEETS)
- ELECTRICAL DEVICE MOUNTING HEIGHTS ARE NOT INDICATED ON ELECTRICAL FLOOR PLANS. CONTRACTOR SHALL COORDINATE EXACT DEVICE LOCATIONS AND MOUNTING HEIGHTS WITH ARCHITECTURAL INTERIOR ELEVATIONS. WHERE DEVICE MOUNTING HEIGHTS ARE NOT INDICATED PER ARCHITECT, MOUNT DEVICES AT HEIGHT INDICATED IN ELECTRICAL PROJECT SPECIFICATIONS.
  - CONTRACTOR SHALL COORDINATE ALL ELECTRICAL DEVICE ROUGH-IN LOCATIONS AND ELEVATIONS WITH ARCHITECTURAL DRAWINGS TO ASSURE COMPATIBILITY WITH FINISHES SPECIFIED ON THE ARCHITECTURAL DRAWINGS. ROUTE ALL ELECTRICAL BRANCH CIRCUITS AND CONDUITS SPECIFIED TO COORDINATE WITH OTHER TRADES AND TO ALLOW FOR SERVICE AND MAINTENANCE AND TO MINIMIZE THE USE OF ACCESS PANELS. WHERE ACCESS PANELS CANNOT BE AVOIDED, ARRANGE WORK TO INSTALL PANELS IN LOCATIONS ACCEPTABLE TO ARCHITECT.
  - REFER TO DETAILS, SCHEDULES, AND SYMBOL LEGENDS FOR ADDITIONAL REQUIREMENTS.
  - REDUNDANT GROUNDING METHODS REQUIRED FOR PATIENT CARE AREAS. REFER TO NEC FOR REQUIREMENTS AND TO PROJECT SPECIFICATIONS FOR ACCEPTABLE METHODS/APPLICATIONS.
  - GFCI TYPE RECEPTACLES ARE NOTED AS SUCH ON THE PLANS FOR PRICING PURPOSES. HOWEVER, CONTRACTOR SHALL BE RESPONSIBLE TO ENSURE ALL RECEPTACLES INSTALLED WHERE A 6' CORD LENGTH COULD REACH THE EDGE OF A SINK HAVE GFCI PROTECTION.

**LOW VOLTAGE GENERAL NOTES:**

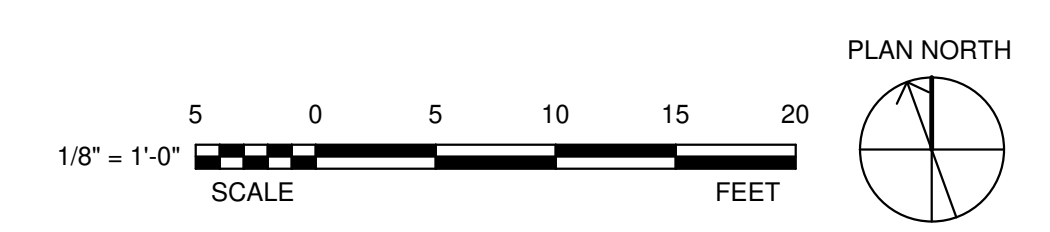
- (LOW VOLTAGE GENERAL NOTES SHALL APPLY TO ALL SHEETS)
- COORDINATE THE LOCATIONS AND CONTROLS OF ALL FIRE/SMOKE DAMPERS WITH MECHANICAL CONTRACTOR PRIOR TO WORK.

**SHEET NOTES:**

- NEW 208 VOLT, 3-PHASE, 200A POWER BUSWAY. PROVIDE (1) 20A/3P CIRCUIT BREAKER PLUGS WITH L21-20R DROP CORD FOR EACH OF THE 12 CENTER CABINETS. PROVIDE (2) 30A/3P CIRCUIT BREAKER PLUGS WITH L21-30R DROP CORDS FOR EACH OF THE TWO END CABINETS.
- NEW 208 VOLT, 3-PHASE, 125A POWER BUSWAY. PROVIDE (6) 30A/3P CIRCUIT BREAKER PLUGS WITH L21-30R DROP CORDS FOR EACH OF THE 6 CABINETS.
- PROVIDE POWER CONNECTION TO CLEAN AGENT FIRE SUPPRESSION CONTROL PANEL.
- PROVIDE FINAL CONNECTION FOR SGP CONTROL PANEL. COORDINATE WITH MECHANICAL CONTRACTOR.



**1 FLOOR PLAN - POWER**  
1/8" = 1'-0"



Revisions:	Date:

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**STAMP**

Office of  
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 and Facilities  
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U.S. Department  
 of Veterans Affairs

Drawing Title  
**FLOOR PLAN - POWER**

Approved: \_\_\_\_\_

Phase  
**100% CONSTRUCTION DOCUMENTS**

**FULLY SPRINKLERED**

Project Title  
**EHRM INFRASTRUCTURE UPGRADES**

Location  
**TUSCALOOSA VAMC, TUSCALOOSA, AL.**

Issue Date  
**03/08/2024**

Checked  
**CGH**

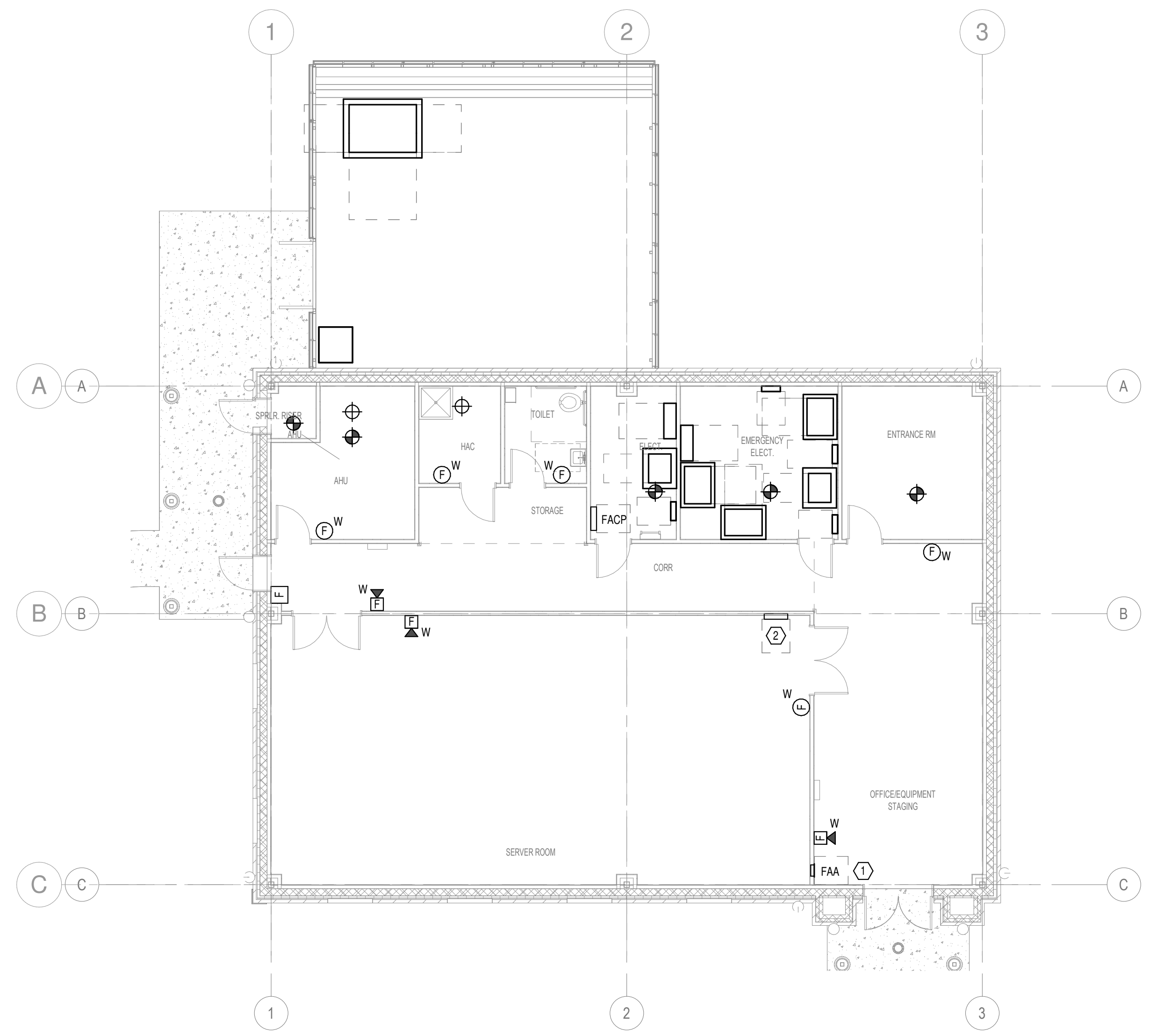
Drawn  
**MJJ**

Project Number  
**679-20-104**

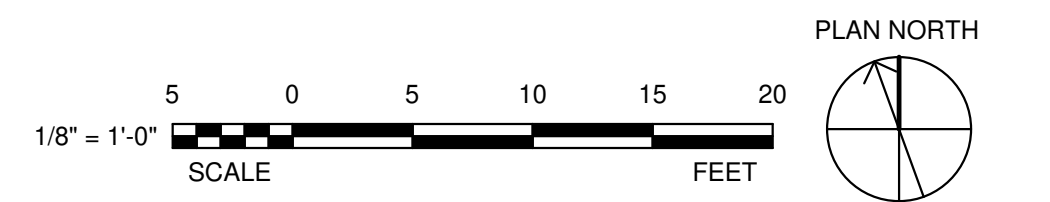
Building Number  
**B151**

Drawing Number  
**E-151.2**

- SHEET NOTES:**
- COORDINATE FINAL LOCATION FOR FIRE ALARM ANNUNCIATOR PANEL WITH THE OWNER.
  - CLEAN AGENT FIRE SUPPRESSION CONTROL PANEL, CONNECT TO FACP FOR MONITORING.



**1 FLOOR PLAN - FIRE ALARM**  
1/8" = 1'-0"



Autodesk Docs: 202575.008 - VA, Tuscaloosa EHRM Infrastructure Upgrades/202575.008 - VA, Tuscaloosa EHRM Infrastructure Upgrades, R22, B150.rvt  
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Revisions:	Date:

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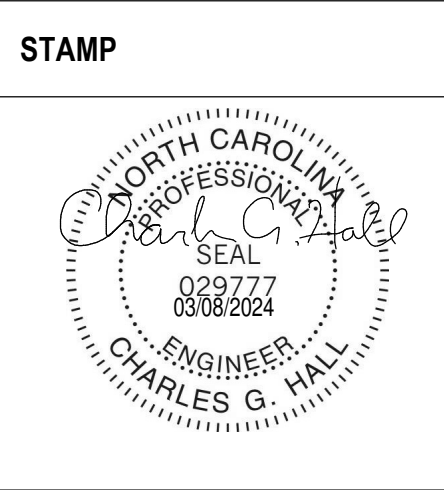
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**Office of Construction and Facilities Management**

**Drawing Title**  
FLOOR PLAN - FIRE ALARM

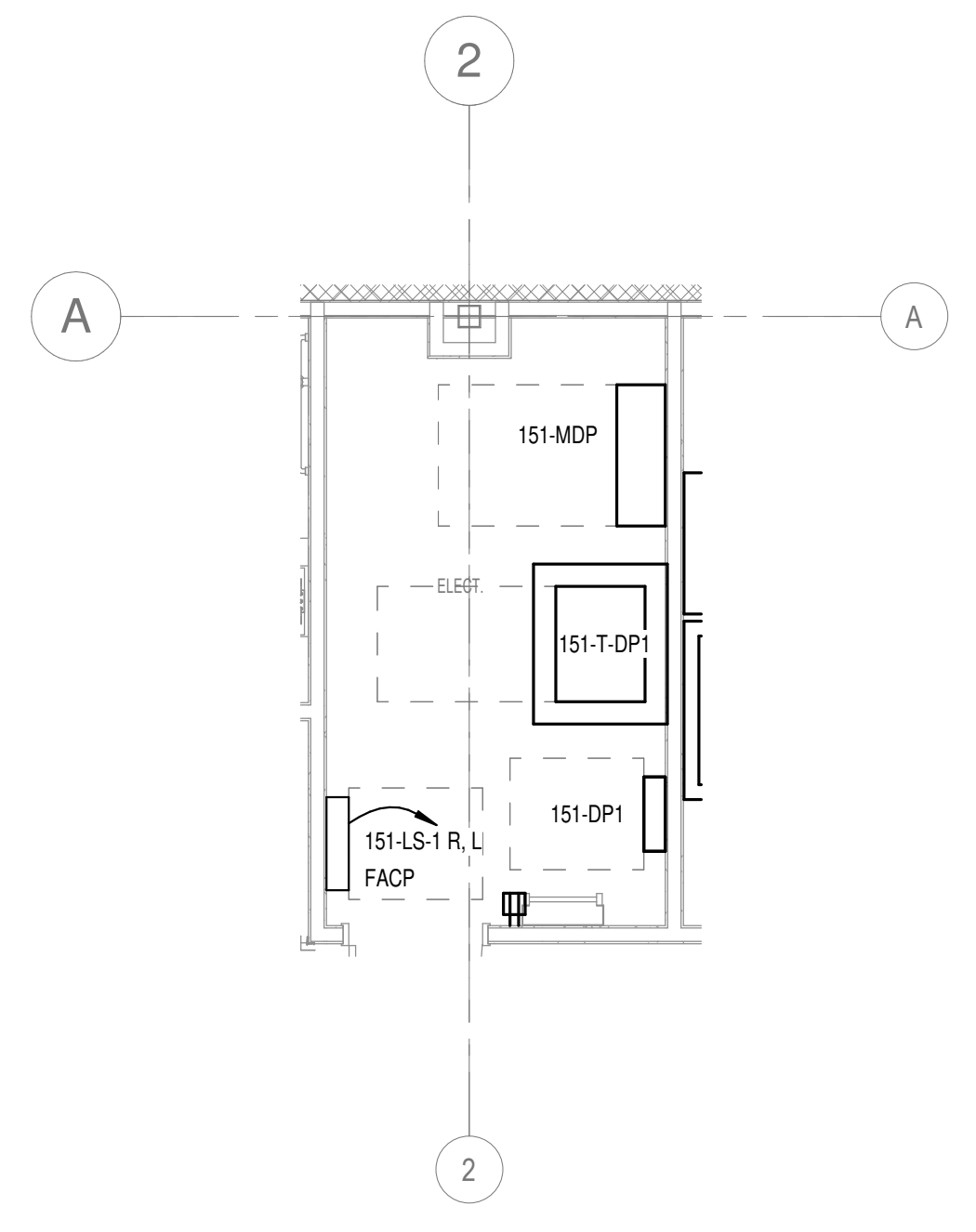
**Approved:**

**Phase**  
100% CONSTRUCTION DOCUMENTS

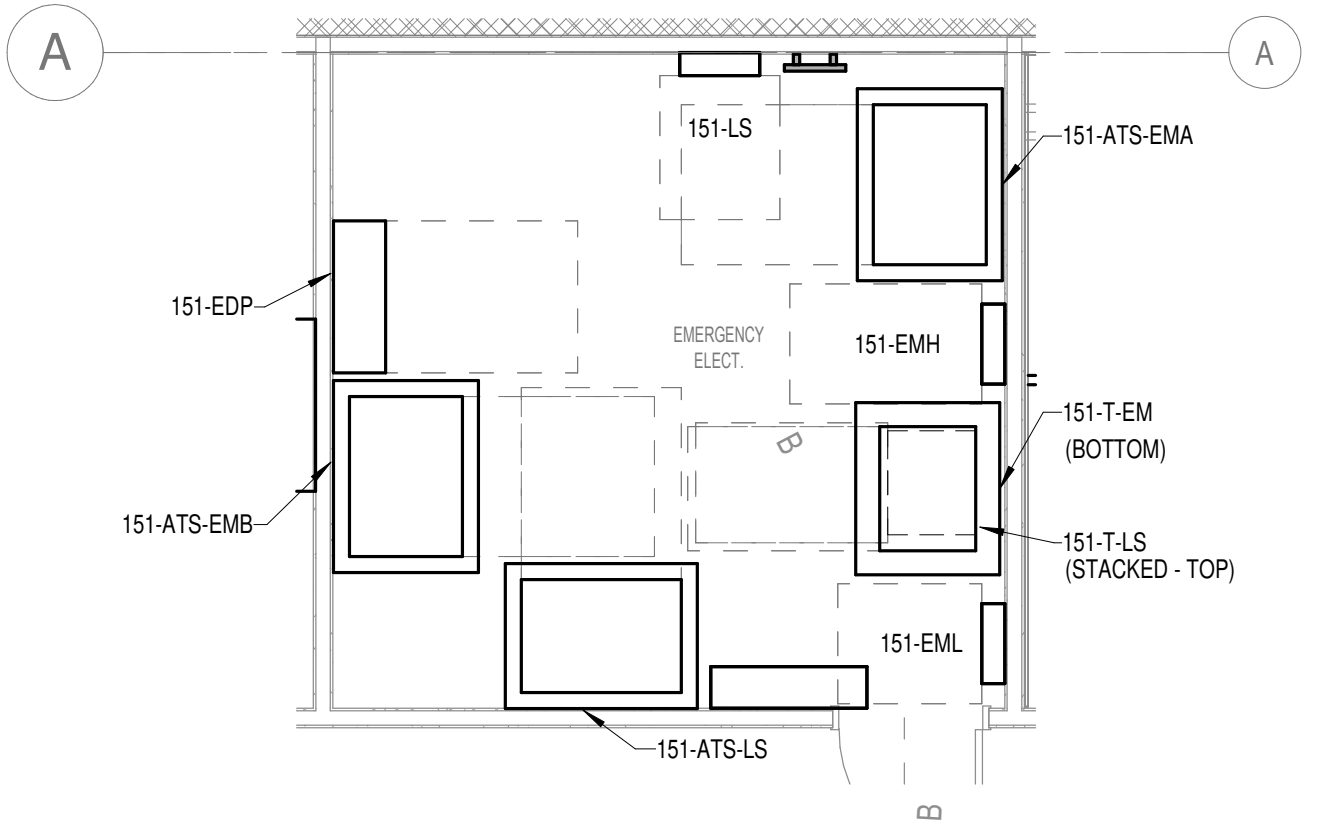
**FULLY SPRINKLERED**

<b>Project Title</b> EHRM INFRASTRUCTURE UPGRADES		<b>Project Number</b> 679-20-104	
<b>Location</b> TUSCALOOSA VAMC, TUSCALOOSA, AL.		<b>Building Number</b> B151	
<b>Issue Date</b> 03/08/2024	<b>Checked</b> CGH	<b>Drawn</b> MJJ	<b>Drawing Number</b> E-151.3

A B C D E F



1 ENLARGED PLAN - ELECTRICAL ROOM  
1/4" = 1'-0"



2 ENLARGED PLAN - EMERGENCY ELECTRICAL ROOM  
1/4" = 1'-0"

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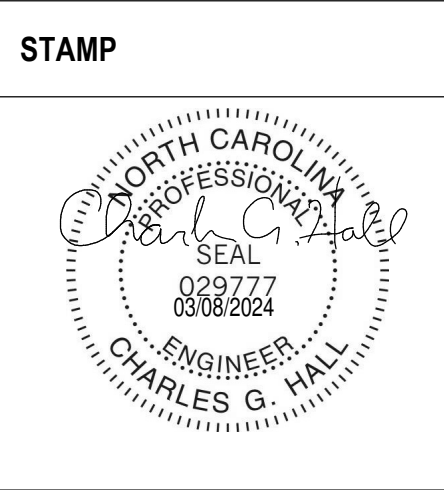
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U.S. Department of Veterans Affairs

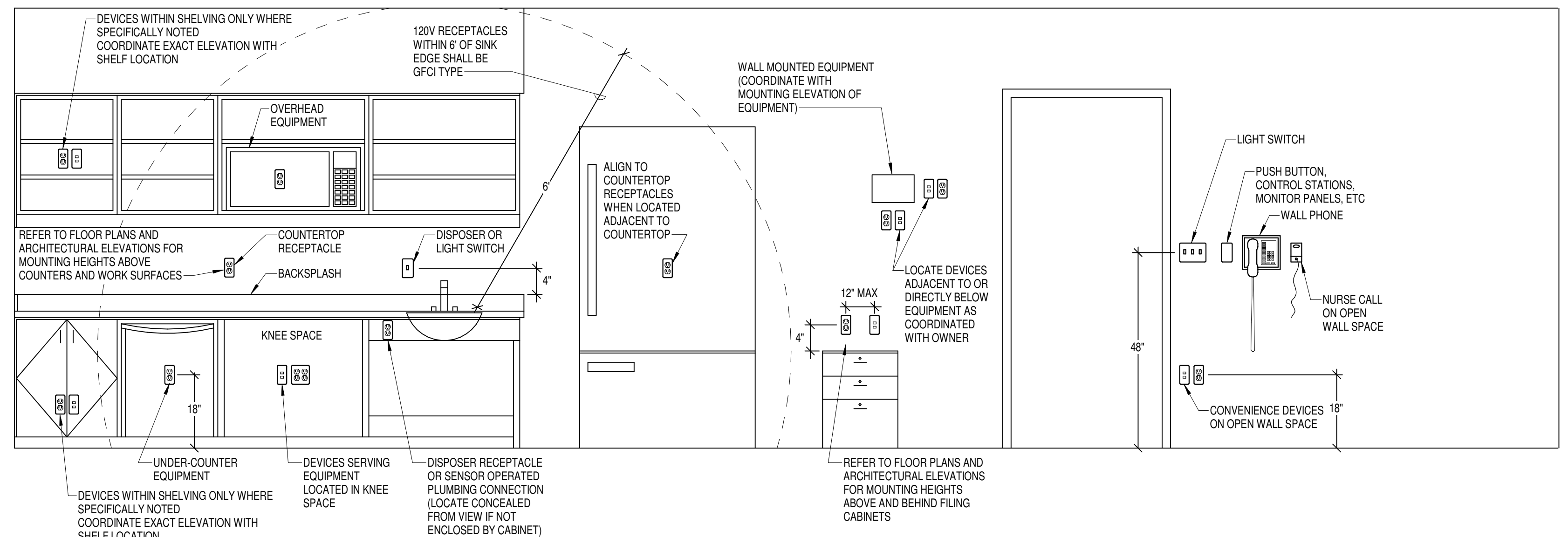
<b>Drawing Title</b> ENLARGED PLANS
<b>Approved:</b>

<b>Phase</b> 100% CONSTRUCTION DOCUMENTS
<b>FULLY SPRINKLERED</b>

<b>Project Title</b> EHRM INFRASTRUCTURE UPGRADES	<b>Project Number</b> 679-20-104
<b>Building Number</b> B151	<b>Drawing Number</b> E-151.300
<b>Location</b> TUSCALOOSA VAMC, TUSCALOOSA, AL.	<b>Issue Date</b> 03/08/2024
<b>Checked</b> CGH	<b>Drawn</b> MJJ

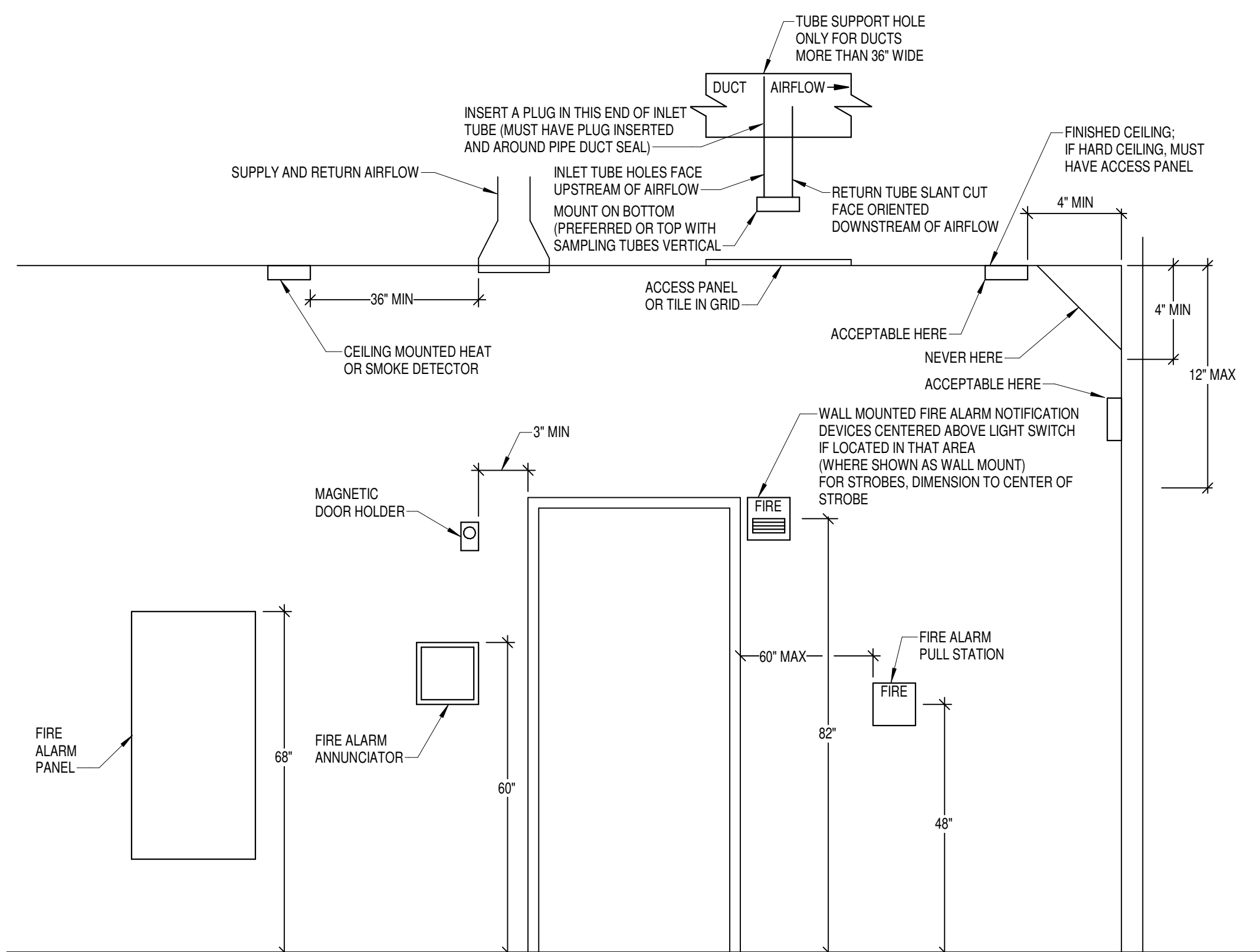






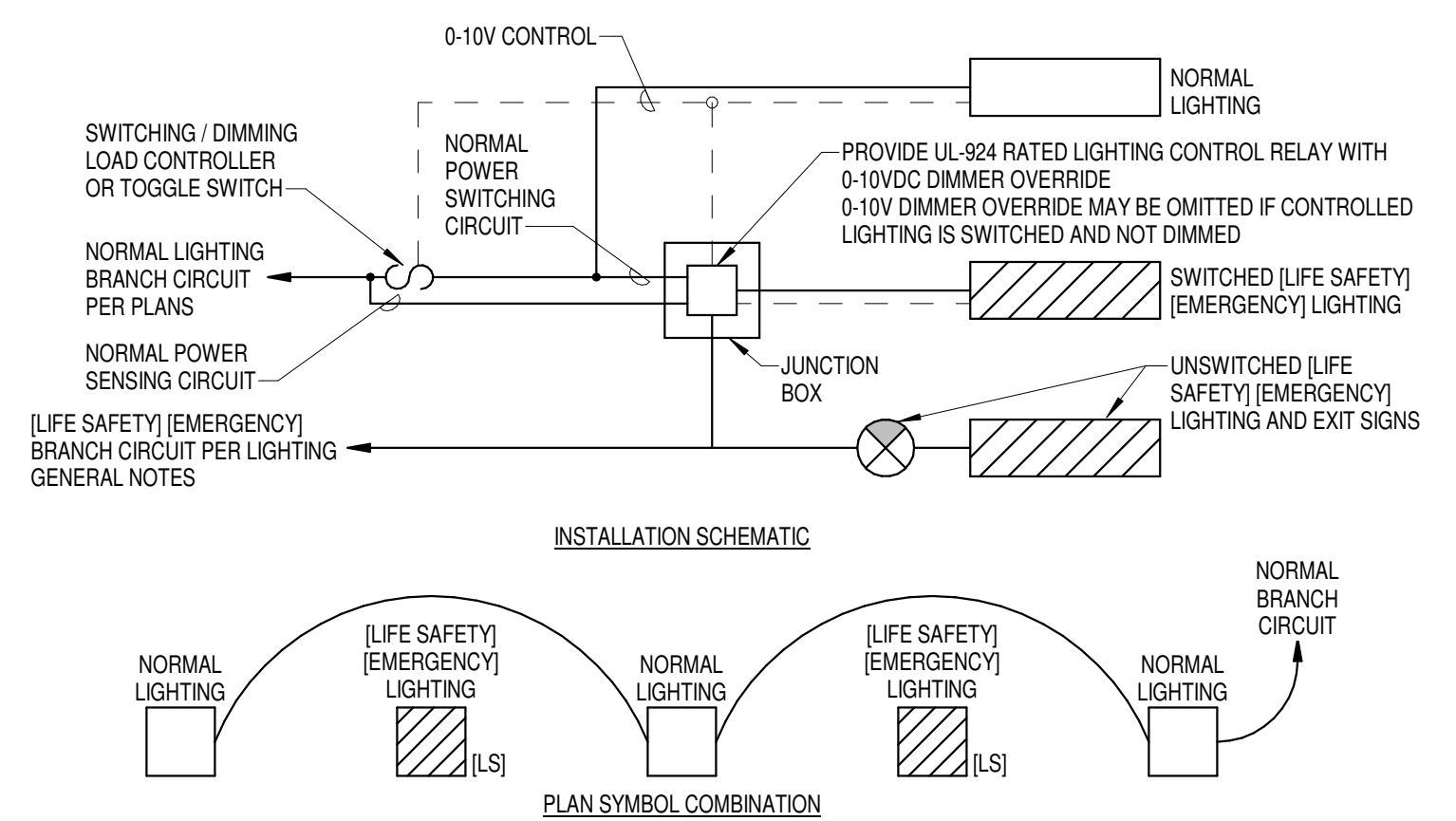
- NOTES:**
- COORDINATE DEVICE MOUNTING HEIGHTS WITH ARCHITECT AND ARCHITECTURAL DETAILS. MOUNTING HEIGHTS INDICATED ABOVE ARE TO BE UTILIZED FOR DEVICES NOT DETAILED BY ARCHITECT
  - ELEVATIONS SHOWN ARE FROM FINISHED FLOOR OR SURFACE TO CENTER LINE OF DEVICE. (EXCEPT WHERE INDICATED OTHERWISE)
  - WHERE DEVICES SHOWN ON PLAN ARE NOTED WITH AN EQUIPMENT TAG, COORDINATE EXACT LOCATION AND ELEVATION TO DIRECTLY SERVE EQUIPMENT.
  - WHERE DEVICES SERVE MOVABLE EQUIPMENT, MOUNT DEVICES BEHIND EQUIPMENT. DEVICES SERVING FIXED EQUIPMENT SHALL BE LOCATED ADJACENT TO EQUIPMENT OR BEHIND EQUIPMENT WHERE ACCESS FOR DISCONNECTION CAN BE MAINTAINED.
  - IF DEVICES ARE SHOWN TO EXCEED 44" AFF AT COUNTERTOPS AND WORK SURFACES, NOTIFY ARCHITECT REGARDING ADA REQUIREMENTS PRIOR TO INSTALLATION.
  - COORDINATE DEVICE LOCATIONS TO NOT BE DIRECTLY ABOVE OR BELOW ALCOHOL ANTISEPTIC DISPENSERS. VERIFY DISPENSER LOCATIONS WITH OWNER.
  - COORDINATE DEVICES ON PATIENT HEADWALLS WITH ARCHITECTURAL ELEVATIONS.

**4 TYPICAL ELECTRICAL DEVICE MOUNTING HEIGHTS**  
E-151.60 NO SCALE



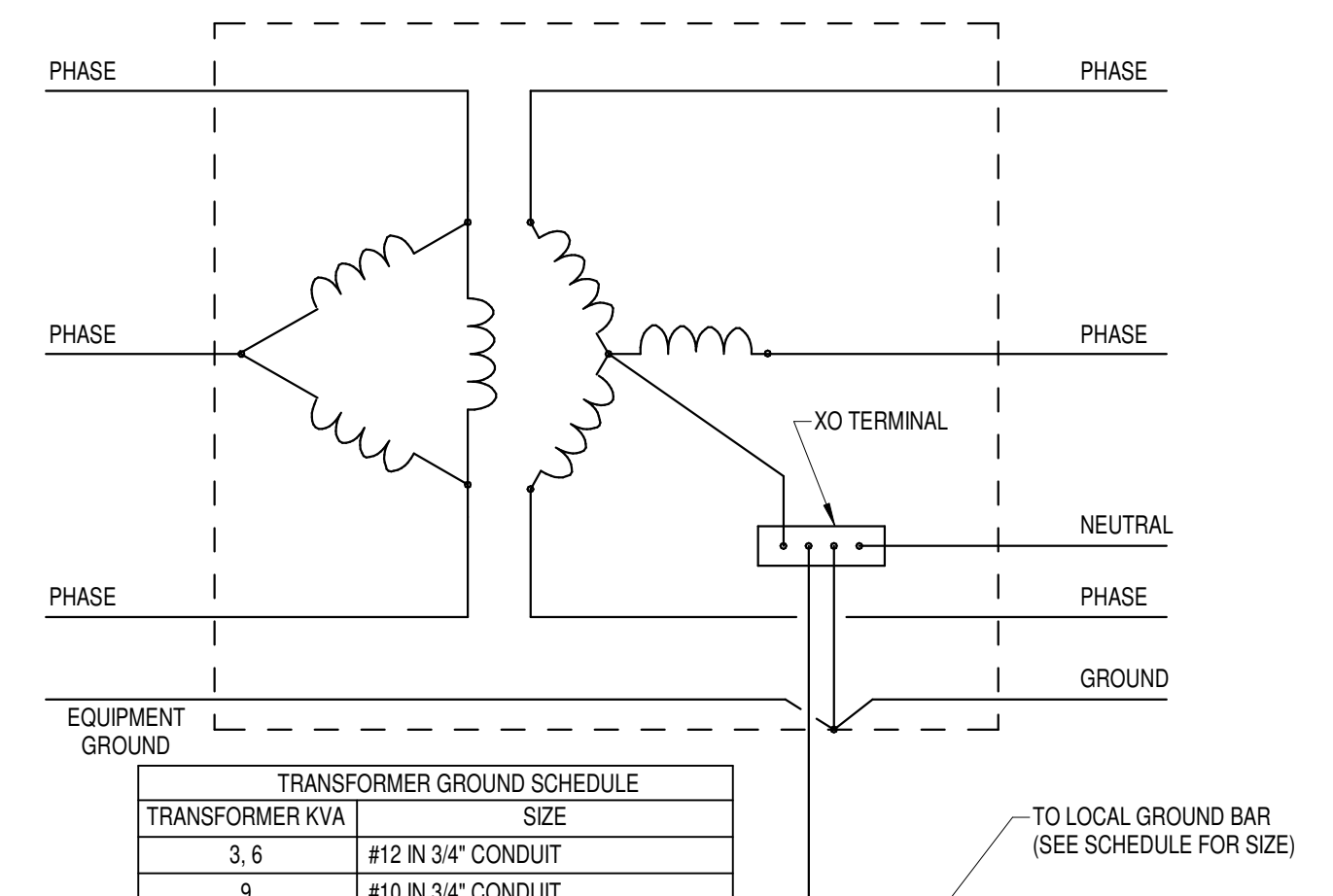
- NOTES:**
- COORDINATE DEVICE MOUNTING HEIGHTS WITH ARCHITECT AND ARCHITECTURAL DETAILS. MOUNTING HEIGHTS INDICATED ABOVE ARE TO BE UTILIZED FOR DEVICES NOT DETAILED BY ARCHITECT
  - WHERE DEVICES SHOWN ON PLAN ARE NOTED WITH AN EQUIPMENT TAG, COORDINATE EXACT LOCATION AND ELEVATION TO DIRECTLY SERVE EQUIPMENT
  - COORDINATE DEVICE LOCATIONS TO BE 12" MINIMUM FROM ALCOHOL ANTISEPTIC DISPENSERS.
  - COORDINATE DEVICES ON PATIENT HEADWALLS WITH ARCHITECTURAL ELEVATIONS.

**3 TYPICAL FIRE ALARM MOUNTING HEIGHTS**  
E-151.60 NO SCALE



- NOTES:**
- PROVIDE (1) UL-924 RATED LIGHTING CONTROL RELAY FOR EVERY CONTROLLED LIGHTING ZONE WHERE SWITCHED LIGHTING IS INDICATED TO BE FED FROM AN ALTERNATE POWER SOURCE
  - SEE MANUFACTURER'S WIRING DIAGRAMS FOR WIRING UL-924 LIGHTING CONTROL RELAY AS A CONTROL DEVICE
  - REFER TO LIGHTING GENERAL NOTES FOR (LIFE SAFETY) [EMERGENCY] BRANCH CIRCUIT INFORMATION
  - DURING NORMAL POWER CONDITIONS, IDENTIFIED (LIFE SAFETY) [EMERGENCY] LIGHTING SHALL BE CONTROLLED WITH NORMAL LIGHTING
  - UPON NORMAL POWER LOSS UL-924 DEVICE SHALL OVERRIDE (LIFE SAFETY) [EMERGENCY] LIGHTING TO FULL BRIGHTNESS REGARDLESS OF LIGHTING CONTROL STATE
  - (INTEGRATE UL-924 DEVICE WITH FIRE ALARM SYSTEM. IN THE EVENT OF AN ALARM, UL-924 DEVICE SHALL OVERRIDE CONTROLLED LIGHTING TO FULL BRIGHTNESS)

**2 EMERGENCY LIGHTING CONTROL (PER ZONE)1**  
E-151.60 NO SCALE



TRANSFORMER GROUND SCHEDULE	
TRANSFORMER KVA	SIZE
3, 6	#12 IN 3/4" CONDUIT
9	#10 IN 3/4" CONDUIT
15	#8 IN 3/4" CONDUIT
30	#6 IN 3/4" CONDUIT
45	#4 IN 3/4" CONDUIT
75	#2 IN 3/4" CONDUIT
112.5, 150	#1/0 IN 3/4" CONDUIT
225	#2/0 IN 3/4" CONDUIT
300	#4/0 IN 1" CONDUIT
500	350 IN 1-1/4" CONDUIT
750, 1000	600 IN 1-1/2" CONDUIT

**1 DRY-TYPE TRANSFORMER GROUNDING**  
E-151.60 NO SCALE

Revisions:	Date:

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03/08/2024  
CHARLES G. WALL  
REGISTERED ENGINEER

Office of Construction and Facilities Management  
VA U.S. Department of Veterans Affairs

Drawing Title  
**ELECTRICAL DETAILS**

Approved: \_\_\_\_\_

Phase  
**100% CONSTRUCTION DOCUMENTS**

**FULLY SPRINKLERED**

Project Title  
**EHRM INFRASTRUCTURE UPGRADES**

Location  
**TUSCALOOSA VAMC, TUSCALOOSA, AL.**

Issue Date  
**03/08/2024**

Checked  
**CGH**

Drawn  
**MJJ**

Project Number  
**679-20-104**

Building Number  
**B151**

Drawing Number  
**E-151.601**

EQUIPMENT CONNECTION SCHEDULE table with columns: MARK, DESCRIPTION, ROOM NAME, ROOM #, HP, KW, MCA, MOCP, VOLTS, PHASE, POLES, LOAD [VA], CONTROL TYPE, DISCONNECT BY, DISCONNECT TYPE, FEEDER, PANEL, CIRCUIT NUMBER, SCOR, GEN, REMARKS

REMARKS: (EQUIPMENT CONNECTION SCHEDULE)
1. CONTROLS BETWEEN INDOOR AND OUTDOOR UNITS - INCLUDE CONTROL WIRING IN CONDUIT BETWEEN INDOOR AND OUTDOOR UNIT PER MANUFACTURER'S REQUIREMENTS.

GENERAL NOTES: (EQUIPMENT CONNECTION SCHEDULE)
A. EQUIPMENT LISTED MAY NOT BE UNDER. VERIFY QUANTITY WITH FLOOR PLANS. WHERE LOCATIONS ARE NOT INDICATED ON ELECTRICAL FLOOR PLANS, REFER TO MECHANICAL SHEETS. REFER TO DEFINITIONS BELOW FOR CLARIFICATIONS OF CONNECTION REQUIREMENTS.

LUMINAIRE SCHEDULE table with columns: MARK, DESCRIPTION, SUBS, MANUFACTURER, CATALOG # (NOTE A), LAMP / NOMINAL LUMENS, CCT, MINIMUM CRI, VOLTAGE, INPUT WATTS, MOUNTING, REMARKS

REMARKS: (LIGHTING FIXTURE SCHEDULE)
1. EXIT SIGNS - REFER TO ELECTRICAL PLANS FOR DIRECTION INDICATORS AND MOUNTING TYPE.

GENERAL NOTES: (LIGHTING FIXTURE SCHEDULE)
A. CATALOG NUMBER VERIFICATION - CONTRACTOR SHALL VERIFY LIGHTING FIXTURE INSTALLATION REQUIREMENTS AND CATALOG NUMBER PRIOR TO ORDERING.

LIGHTING CONTROL WALL DEVICE SCHEDULE table with columns: KEYPAD ID, DESCRIPTION, REQUIRED BUTTON FUNCTIONS

LIGHTING CONTROL SEQUENCE OF OPERATIONS table with columns: TAG, SPACE TYPE, OCCUPANCY SENSOR TYPE, TIME DELAY, AUTO ON, AUTO OFF %, NETWORK, RECEPTACLE CONTROL, SCHEDULE CONTROL, REMARKS

LIGHTING CONTROL SEQUENCE OF OPERATIONS GUIDE:
\*TAGS WILL RANGE FROM 3 CHARACTERS (i.e. 10 MINUTE DELAY, NO SPECIAL OPTIONS) TO 5 CHARACTERS (UP TO 30 MINUTE DELAY - SPECIAL)

REMARKS: (LIGHTING CONTROL SEQUENCE OF OPERATIONS)
1. PROVIDE ALL NECESSARY PARTS AND ACCESSORIES TO MEET THE OCCUPANT SENSOR CONTROL FUNCTION IN OPEN PLAN OFFICE AREAS' REQUIREMENTS SET FORTH IN ASHRAE 90.1-2019.

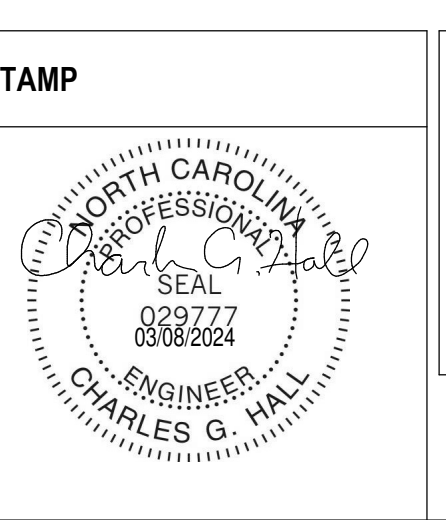
GENERAL NOTES: (LIGHTING CONTROL SEQUENCE OF OPERATIONS)
A. WHERE MULTIPLE CONTROL ZONES ARE INDICATED WITHIN A SPACE, THE 'AUTO ON' AND 'AUTO OFF' FUNCTIONS SHALL INCLUDE ALL CONTROL ZONES WITHIN THE SPACE UNLESS NOTED OTHERWISE.

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VA Form 08 - 6231

Revisions table with columns: Revisions, Date

CONSULTANT: WileyWilson, Specialized Engineering Solutions, BRITT, PETERS & ASSOCIATES

ARCHITECT/ENGINEER OF RECORD: Atriax GROUP, 102 3rd Avenue, NE, PO Box 1629, Hickory, NC 28603



Office of Construction and Facilities Management, U.S. Department of Veterans Affairs

Drawing Title: ELECTRICAL SCHEDULES, Approved: [Signature]

Phase: 100% CONSTRUCTION DOCUMENTS, FULLY SPRINKLERED

Project Title: EHRM INFRASTRUCTURE UPGRADES, Project Number: 679-20-104, Building Number: B151, Drawing Number: E-151.701



151-MDP									
LOCATION: ELECT 104			VOLTS: 480/277 WYE			MAINS TYPE: MCB			
SUPPLY FROM: UTILITY...			PHASES: 3			MCB/MLO RATING: 600 A			
BRANCH: NORMAL			WIRES: 4			MCB OPTIONS: NONE			
SERVICE RATED: Yes			INTEGRAL SPD: Yes			SECTIONS: 1			
AVAILABLE SCC (KA):									
CKT	CIRCUIT DESCRIPTION	OPT	POLES	RATING	LOAD	CIRCUIT REMARKS			
1	151-ATS-EMA		3	400 A	107113 VA				
2	T-DP1		3	125 A	34692 VA				
3	151-ATS-LS		3	60 A	2329 VA				
4	151-ATS-EMB		3	150 A	81990 VA				
5	150-CH-1		3	100 A	49261 VA				
6	151-CH-2		3	100 A	49261 VA				
7	151-SKID-1		3	15 A	7191 VA				
8	151-AHU-1		3	15 A	3009 VA				
9	151-SGP		3	20 A	4572 VA				
10	SPACE		3	--	--				
Total VA:					339419 VA				
Total A:					408 A				
LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS					
MEQ-NC	11500 VA	100.00%	11500 VA	CONNECTED LOAD:	339419 VA				
LTG	1543 VA	125.00%	1929 VA	CONNECTED CURRENT:	408 A				
PWR-C	35500 VA	125.00%	44375 VA	DEMAND LOAD:	386823 VA				
REC	81990 VA	100.00%	81990 VA	DEMAND CURRENT:	465 A				
MEQ-C	4320 VA	100.00%	4320 VA	CONSIDER 125% DEMAND:	483529 A				
PWR-NC	152575 VA	125.00%	190719 VA	EQUIPMENT AMPS:	600 A				
				FEEDER AVAILABLE:	22				
				SPARE CAPACITY:	135 A				

**OPTIONS:**  
CIRCUIT BREAKER OPTIONS SUFFIX: 'S' OR 'ST' - PROVIDE SHUNT TRIP CIRCUIT BREAKER / 'G' OR 'GFCI' - PROVIDE GFCI CIRCUIT BREAKER / 'GFP' - PROVIDE GFP CIRCUIT BREAKER / 'ERMS' - ENERGY REDUCING MAINTENANCE SWITCH / 'ZSI' - ZONE SELECTIVE INTERLOCKING / 'L' - PROVIDE CIRCUIT BREAKER WITH LOCKING PROVISIONS

**GENERAL REMARKS:**  
A. PANEL AIC (INTERRUPTING) RATING SHALL BE MINIMUM 120% OF THE AVAILABLE SCC (SHORT CIRCUIT CURRENT).

PANEL: 151-EMH												
LOCATION: EMERGENCY ELECT. 103			VOLTS: 480/277 WYE			MAINS TYPE: MCB						
SUPPLY FROM: 151-ATS-EMA			PHASES: 3			MCB/MLO RATING: 400 A						
BRANCH: CRITICAL			WIRES: 4			MCB OPTIONS: NONE						
SERVICE RATED: No			INTEGRAL SPD: No			SECTIONS: 1						
MOUNTING: SURFACE			AVAILABLE SCC (KA):			PANEL POLES: 42						
NEMA ENCLOSURE: NEMA 1												
CKT	CIRCUIT DESCRIPTION	OPT	RATING	POLES	A	B	C	POLES	RATING	OPT	CIRCUIT DESCRIPTION	CKT
1	UPS		150 A	3	27330...	27330...						2
3	UPS		150 A	3	27330...	27330...						4
5							27330...					6
7												8
9	150-ACCU-1/150-CRAC-1		125 A	3	1552 VA 0 VA	1552 VA 0 VA			1	20 A	-- SPARE	10
11									1	20 A	-- SPARE	12
13									1	20 A	-- SPARE	14
15	150-ACCU-2/150-CRAC-2		125 A	3	1552 VA 0 VA	1552 VA 0 VA			1	20 A	-- SPARE	16
17									1	20 A	-- SPARE	18
19	SPARE	--	20 A	1	0 VA 0 VA	0 VA 0 VA			1	20 A	-- SPARE	20
21	SPARE	--	20 A	1	0 VA 0 VA	0 VA 0 VA			1	20 A	-- SPARE	22
23	SPARE	--	20 A	1	0 VA 0 VA	0 VA 0 VA			1	20 A	-- SPARE	24
25	SPARE	--	20 A	1	0 VA 0 VA	0 VA 0 VA			1	20 A	-- SPARE	26
27	SPARE	--	20 A	1	0 VA 0 VA	0 VA 0 VA			1	20 A	-- SPARE	28
29	SPARE	--	20 A	1	0 VA 0 VA	0 VA 0 VA			1	20 A	-- SPARE	30
31	SPARE	--	20 A	1	0 VA 0 VA	0 VA 0 VA			1	20 A	-- SPARE	32
33	SPARE	--	20 A	1	0 VA 0 VA	0 VA 0 VA			1	20 A	-- SPARE	34
35	SPACE	--	--	1	--	--			1	--	-- SPARE	36
37	SPACE	--	--	1	--	--			1	--	-- SPARE	38
39	SPACE	--	--	1	--	--			1	--	-- SPARE	40
41	SPACE	--	--	1	--	--			1	--	-- SPARE	42
TOTAL LOAD:					35998 VA	35473 VA	35643 VA					
TOTAL AMPS:					130 A	128 A	129 A					
LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS								
MEQ-NC	11500 VA	100.00%	11500 VA	CONNECTED LOAD:	107113 VA							
LTG	957 VA	125.00%	1196 VA	CONNECTED CURRENT:	129 A							
PWR-C	31500 VA	125.00%	39375 VA	DEMAND LOAD:	117659 VA							
REC	1440 VA	100.00%	1440 VA	DEMAND CURRENT:	142 A							
MEQ-C	9726 VA	125.00%	12158 VA	CONSIDER 125% DEMAND:	147073 A							
PWR-NC	15190 VA	100.00%	15190 VA	EQUIPMENT AMPS:	400 A							
				FEEDER AVAILABLE:	64 %							
				SPARE CAPACITY:	258 A							

**OPTIONS:**  
CIRCUIT BREAKER OPTIONS SUFFIX: 'S' OR 'ST' - PROVIDE SHUNT TRIP CIRCUIT BREAKER / 'G' OR 'GFCI' - PROVIDE GFCI CIRCUIT BREAKER / 'GFP' - PROVIDE GFP CIRCUIT BREAKER / 'ERMS' - ENERGY REDUCING MAINTENANCE SWITCH / 'ZSI' - ZONE SELECTIVE INTERLOCKING / 'L' - PROVIDE CIRCUIT BREAKER WITH LOCKING PROVISIONS / 'R' - PROVIDE CIRCUIT BREAKER WITH RED MARKING

**GENERAL REMARKS:**  
A. PANEL AIC (INTERRUPTING) RATING SHALL BE MINIMUM 120% OF THE AVAILABLE SCC (SHORT CIRCUIT CURRENT).

PANEL: 151-EML												
LOCATION: EMERGENCY ELECT. 103			VOLTS: 208/120 WYE			MAINS TYPE: MCB						
SUPPLY FROM: 151-T-EM			PHASES: 3			MCB/MLO RATING: 225 A						
BRANCH: CRITICAL			WIRES: 4			MCB OPTIONS: NONE						
SERVICE RATED: No			INTEGRAL SPD: No			SECTIONS: 1						
MOUNTING: SURFACE			AVAILABLE SCC (KA):			PANEL POLES: 42						
NEMA ENCLOSURE: NEMA 1												
CKT	CIRCUIT DESCRIPTION	OPT	RATING	POLES	A	B	C	POLES	RATING	OPT	CIRCUIT DESCRIPTION	CKT
1	LTG ROOM 104, 103, 107, C-10...		20 A	1	407 VA	52 VA					2	15 A
3	LTG SERVER ROOM 101		20 A	1		550 VA	52 VA				4	15 A
5	REC SERVER ROOM 101		20 A	1		720 VA	52 VA				6	15 A
7	REC SERVER ROOM 101		20 A	1	720 VA	52 VA					8	15 A
9						500 VA	52 VA				10	15 A
11	REC - IT RACK ENTRANCE RM		20 A	3			500 VA	52 VA			12	15 A
13						500 VA	1000 VA				14	15 A
15	150-VAV-1-1		20 A	3			500 VA	1000 VA			16	20 A
17						500 VA	1000 VA				18	20 A
19							500 VA	1000 VA			20	20 A
21	150-SSCU-1B/150-SSAH-1B		15 A	2		52 VA	1000 VA				22	20 A
23							52 VA	1000 VA			24	20 A
25	SPARE	--	20 A	1	0 VA	1000 VA					26	20 A
27	SPARE	--	20 A	1		0 VA	1333 VA				28	20 A
29	SPARE	--	20 A	1			0 VA	1333 VA			30	20 A
31	SPARE	--	20 A	1	0 VA	1333 VA					32	20 A
33	SPARE	--	20 A	1		0 VA	0 VA				34	20 A
35	SPACE	--	--	1	--	--	--				36	--
37	SPACE	--	--	1	--	--	--				38	--
39	SPACE	--	--	1	--	--	--				40	--
41	SPACE	--	--	1	--	--	--				42	--
TOTAL LOAD:					5564 VA	5039 VA	5209 VA					
TOTAL AMPS:					47 A	42 A	44 A					
LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS								
MEQ-NC	11500 VA	100.00%	11500 VA	CONNECTED LOAD:	15813 VA							
LTG	957 VA	125.00%	1196 VA	CONNECTED CURRENT:	44 A							
PWR-C	1500 VA	125.00%	1875 VA	DEMAND LOAD:	16531 VA							
REC	1440 VA	100.00%	1440 VA	DEMAND CURRENT:	46 A							
MEQ-C	416 VA	125.00%	520 VA	CONSIDER 125% DEMAND:	20684 A							
				EQUIPMENT AMPS:	225 A							
				FEEDER AVAILABLE:	79 %							
				SPARE CAPACITY:	179 A							

**OPTIONS:**  
CIRCUIT BREAKER OPTIONS SUFFIX: 'S' OR 'ST' - PROVIDE SHUNT TRIP CIRCUIT BREAKER / 'G' OR 'GFCI' - PROVIDE GFCI CIRCUIT BREAKER / 'GFP' - PROVIDE GFP CIRCUIT BREAKER / 'ERMS' - ENERGY REDUCING MAINTENANCE SWITCH / 'ZSI' - ZONE SELECTIVE INTERLOCKING / 'L' - PROVIDE CIRCUIT BREAKER WITH LOCKING PROVISIONS / 'R' - PROVIDE CIRCUIT BREAKER WITH RED MARKING

**GENERAL REMARKS:**  
A. PANEL AIC (INTERRUPTING) RATING SHALL BE MINIMUM 120% OF THE AVAILABLE SCC (SHORT CIRCUIT CURRENT).

PANEL: 151-DP1												
LOCATION: ELECT. 104			VOLTS: 208/120 WYE			MAINS TYPE: MCB						
SUPPLY FROM: 151-T-DP1			PHASES: 3			MCB/MLO RATING: 225 A						
BRANCH: NORMAL			WIRES: 4			MCB OPTIONS: NONE						
SERVICE RATED: No			INTEGRAL SPD: No			SECTIONS: 1						
MOUNTING: SURFACE			AVAILABLE SCC (KA):			PANEL POLES: 42						
NEMA ENCLOSURE: NEMA 1												
CKT	CIRCUIT DESCRIPTION	OPT	RATING	POLES	A	B	C	POLES	RATING	OPT	CIRCUIT DESCRIPTION	CKT
1	REC ROOM 105, 106, 107, 103...		20 A	1	1080 VA	55 VA					151-EF-1	2
3	REC ROOM C-101, 100		20 A	1		1080 VA	1000 VA				RCP-1	4
5	REC ENTRANCE RM 102		20 A	1			720 VA	750 VA			WH-1	6
7	LTG ROOM C-101, 100, 102, 10...		20 A	1	257 VA	750 VA			2	20 A		8
9												10
11	REC - IT RACK ENTRANCE RM		20 A	3		500 VA	7333 VA				EDH-1	12
13						500 VA	7333 VA					14
15	151-SGP CONTROL PANEL		20 A	1		500 VA	1000 VA				151-RF-1	16
17									1	20 A	-- SPARE	18
19	151-UH-1		30 A	2	2000 VA	0 VA			1	20 A	-- SPARE	20
21	SPARE	--	20 A	1	0 VA	0 VA			1	20 A	-- SPARE	22
23	SPARE	--	20 A	1	0 VA	0 VA			1	20 A	-- SPARE	24
25	SPARE	--	20 A	1	0 VA	0 VA			1	20 A	-- SPARE	26
27	SPARE	--	20 A	1	0 VA	0 VA			1	20 A	-- SPARE	28
29	SPARE	--	20 A	1	0 VA	0 VA			1	20 A	-- SPARE	30
31	SPARE	--	20 A	1	0 VA	0 VA			1	20 A	-- SPARE	32
33	SPARE	--	20 A	1	0 VA	0 VA			1	20 A	-- SPARE	34
35	SPACE	--	--	1	--	--			1	--	-- SPARE	36
37	SPACE	--	--	1	--	--			1	--	-- SPARE	38
39	SPACE	--	--	1	--	--			1	--	-- SPARE	40
41	SPACE	--	--	1	--	--			1	--	-- SPARE	42
TOTAL LOAD:					11976 VA	11413 VA	11903 VA					
TOTAL AMPS:					100 A	95 A	94 A					
LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS								
LTG	257 VA	125.00%	321 VA	CONNECTED LOAD:	34692 VA							
PWR-C	2000 VA	125.00%	2500 VA	CONNECTED CURRENT:	96 A							
REC	2880 VA	100.00%	2880 VA	DEMAND LOAD:	42645 VA							
MEQ-C	29555 VA	125.00%	36944 VA	DEMAND CURRENT:	118 A							
				CONSIDER 125% DEMAND:	53307 A							
				EQUIPMENT AMPS:	225 A							
				FEEDER AVAILABLE:	47 %							
				SPARE CAPACITY:	107 A							

**OPTIONS:**  
CIRCUIT BREAKER OPTIONS SUFFIX: 'S' OR 'ST' - PROVIDE SHUNT TRIP CIRCUIT BREAKER / 'G' OR 'GFCI' - PROVIDE GFCI CIRCUIT BREAKER / 'GFP' - PROVIDE GFP CIRCUIT BREAK

**151-EDP**

LOCATION: EMERGENCY ELECT...  
 SUPPLY FROM: MSG  
 BRANCH: EMERGENCY  
 SERVICE RATED: No

VOLTS: 480/277 WYE  
 PHASES: 3  
 WIRES: 4  
 INTEGRAL SPD: Yes  
 AVAILABLE SCC (kA):

MAINS TYPE: MCB  
 MCB/MLO RATING: 600 A  
 MCB OPTIONS: NONE  
 SECTIONS:

CKT	CIRCUIT DESCRIPTION	OPT	POLES	RATING	LOAD	CIRCUIT REMARKS
1	150-ATS-EMA		3	400 A	107113 VA	
2	150-ATS-LS		3	60 A	2329 VA	
3	151-ATS-EMB		3	150 A	0 VA	
4	SPARE	--	3	100 A	0 VA	
5	SPARE	--	3	20 A	0 VA	
6	SPARE	--	3	20 A	0 VA	
7	SPACE	--	3	--	--	
8	SPACE	--	3	--	--	
9	SPACE	--	3	--	--	
10	SPACE	--	3	--	--	
					Total VA: 109442 VA	
					Total A: 132 A	

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS
MEQ-NC	11500 VA	100.00%	11500 VA	CONNECTED LOAD: 109442 VA
LTG	1286 VA	125.00%	1608 VA	CONNECTED CURRENT: 132 A
PWR-C	33500 VA	125.00%	41875 VA	DEMAND LOAD: 120571 VA
REC	1440 VA	100.00%	1440 VA	DEMAND CURRENT: 145 A
MEQ-C	9726 VA	125.00%	12158 VA	CONSIDER 125% DEMAND: 150713 A
PWR-NC	51990 VA	100.00%	51990 VA	EQUIPMENT AMPS: 600 A
				EQUIPMENT AMPS: 75
				SPARE CAPACITY: 455 A

**OPTIONS:**  
 CIRCUIT BREAKER OPTIONS SUFFIX: 'S' OR 'ST' - PROVIDE SHUNT TRIP CIRCUIT BREAKER / 'G' OR 'GFCI' - PROVIDE GFCI CIRCUIT BREAKER / 'GFP' - PROVIDE GFP CIRCUIT BREAKER / 'ERMS' - ENERGY REDUCING MAINTENANCE SWITCH / 'ZSI' - ZONE SELECTIVE INTERLOCKING / 'L' - PROVIDE CIRCUIT BREAKER WITH LOCKING PROVISIONS

**GENERAL REMARKS:**  
 A. PANEL AIC (INTERRUPTING) RATING SHALL BE MINIMUM 120% OF THE AVAILABLE SCC (SHORT CIRCUIT CURRENT).

**PANEL: 151-LS**

LOCATION: EMERGENCY ELECT. 103  
 SUPPLY FROM: 151-TLS  
 BRANCH: LIFE-SAFETY  
 SERVICE RATED: No  
 MOUNTING: SURFACE  
 NEMA ENCLOSURE: NEMA 1

VOLTS: 208/120 WYE  
 PHASES: 3  
 WIRES: 4  
 INTEGRAL SPD: Yes  
 AVAILABLE SCC (kA): 10

MAINS TYPE: MCB  
 MCB/MLO RATING: 100 A  
 MCB OPTIONS: NONE  
 SECTIONS: 1  
 PANEL POLES: 42

CKT	CIRCUIT DESCRIPTION	OPT	RATING	POLES	A	B	C	POLES	RATING	OPT	CIRCUIT DESCRIPTION	CKT
1	FACP EMERGENCY ELECT. 103	R, L	20 A	1	1000 VA	0 VA		1	20 A	--	SPARE	2
3	CLEAN AGENT FIRE...	L	20 A	1		1000 VA	0 VA	1	20 A	--	SPARE	4
5	EM LTG CORRIDOR		20 A	1				1	20 A	--	SPARE	6
7	LTG - EXTERIOR LIGHTING		20 A	1	156 VA	0 VA		1	20 A	--	SPARE	8
9	SPARE	--	20 A	1				1	20 A	--	SPARE	10
11	SPARE	--	20 A	1				1	20 A	--	SPARE	12
13	SPARE	--	20 A	1	0 VA	0 VA		1	20 A	--	SPARE	14
15	SPARE	--	20 A	1				1	20 A	--	SPARE	16
17	SPARE	--	20 A	1				1	20 A	--	SPARE	18
19	SPARE	--	20 A	1	0 VA	0 VA		1	20 A	--	SPARE	20
21	SPARE	--	20 A	1				1	20 A	--	SPARE	22
23	SPARE	--	20 A	1				1	20 A	--	SPARE	24
25	SPARE	--	20 A	1	0 VA	0 VA		1	20 A	--	SPARE	26
27	SPARE	--	20 A	1				1	20 A	--	SPARE	28
29	SPARE	--	20 A	1				1	20 A	--	SPARE	30
31	SPARE	--	20 A	1	0 VA	0 VA		1	20 A	--	SPARE	32
33	SPARE	--	20 A	1				1	20 A	--	SPARE	34
35	SPACE	--	--	1				--	--	--	SPACE	36
37	SPACE	--	--	1				1	--	--	SPACE	38
39	SPACE	--	--	1				1	--	--	SPACE	40
41	SPACE	--	--	1				1	--	--	SPACE	42
					TOTAL LOAD: 1156 VA	1000 VA	173 VA					
					TOTAL AMPS: 11 A	9 A	1 A					

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS
LTG	329 VA	125.00%	412 VA	CONNECTED LOAD: 2329 VA
PWR-C	2000 VA	125.00%	2500 VA	CONNECTED CURRENT: 6 A
				DEMAND LOAD: 2912 VA
				DEMAND CURRENT: 8 A
				CONSIDER 125% DEMAND: 3640 A
				EQUIPMENT AMPS: 100 A
				FEEDER AVAILABLE:
				SPARE CAPACITY: 91 %
				92 A

**OPTIONS:**  
 CIRCUIT BREAKER OPTIONS SUFFIX: 'S' OR 'ST' - PROVIDE SHUNT TRIP CIRCUIT BREAKER / 'G' OR 'GFCI' - PROVIDE GFCI CIRCUIT BREAKER / 'GFP' - PROVIDE GFP CIRCUIT BREAKER / 'ERMS' - ENERGY REDUCING MAINTENANCE SWITCH / 'ZSI' - ZONE SELECTIVE INTERLOCKING / 'L' - PROVIDE CIRCUIT BREAKER WITH LOCKING PROVISIONS / 'R' - PROVIDE CIRCUIT BREAKER WITH RED MARKING

**GENERAL REMARKS:**  
 A. PANEL AIC (INTERRUPTING) RATING SHALL BE MINIMUM 120% OF THE AVAILABLE SCC (SHORT CIRCUIT CURRENT).

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Revisions:	Date:

**CONSULTANT**





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**STAMP**



Office of Construction and Facilities Management

**VA** U.S. Department of Veterans Affairs

Drawing Title  
**ELECTRICAL PANEL SCHEDULES**

Approved: \_\_\_\_\_

Phase  
**100% CONSTRUCTION DOCUMENTS**

**FULLY SPRINKLERED**

Project Title  
**EHRM INFRASTRUCTURE UPGRADES**

Location  
**TUSCALOOSA VAMC, TUSCALOOSA, AL.**

Issue Date  
**03/08/2024**

Checked  
**CGH**

Drawn  
**MJJ**

Project Number  
**679-20-104**

Building Number  
**B151**

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**E-151.703**