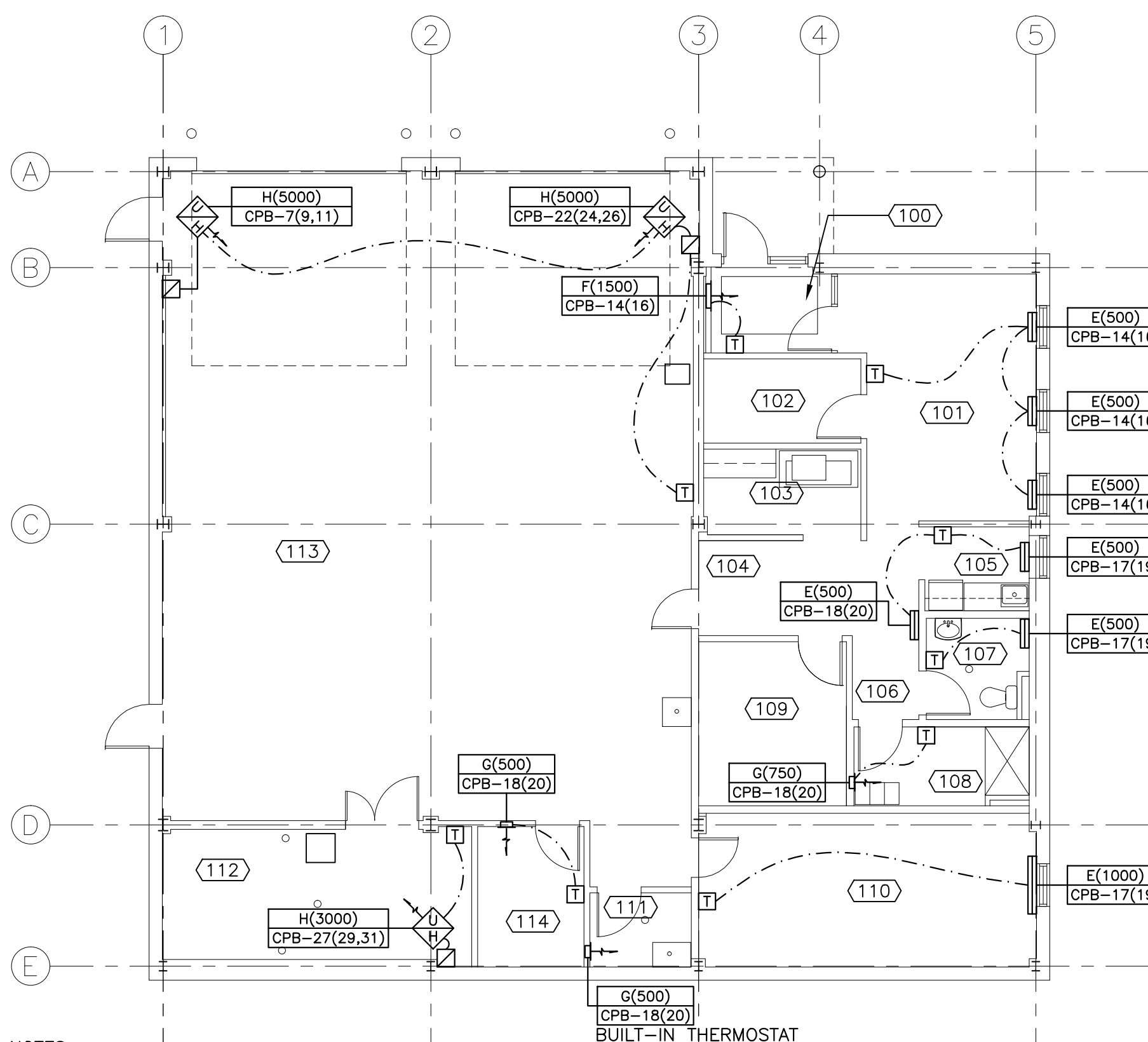


LIGHTING PLAN

SCALE : 1:100

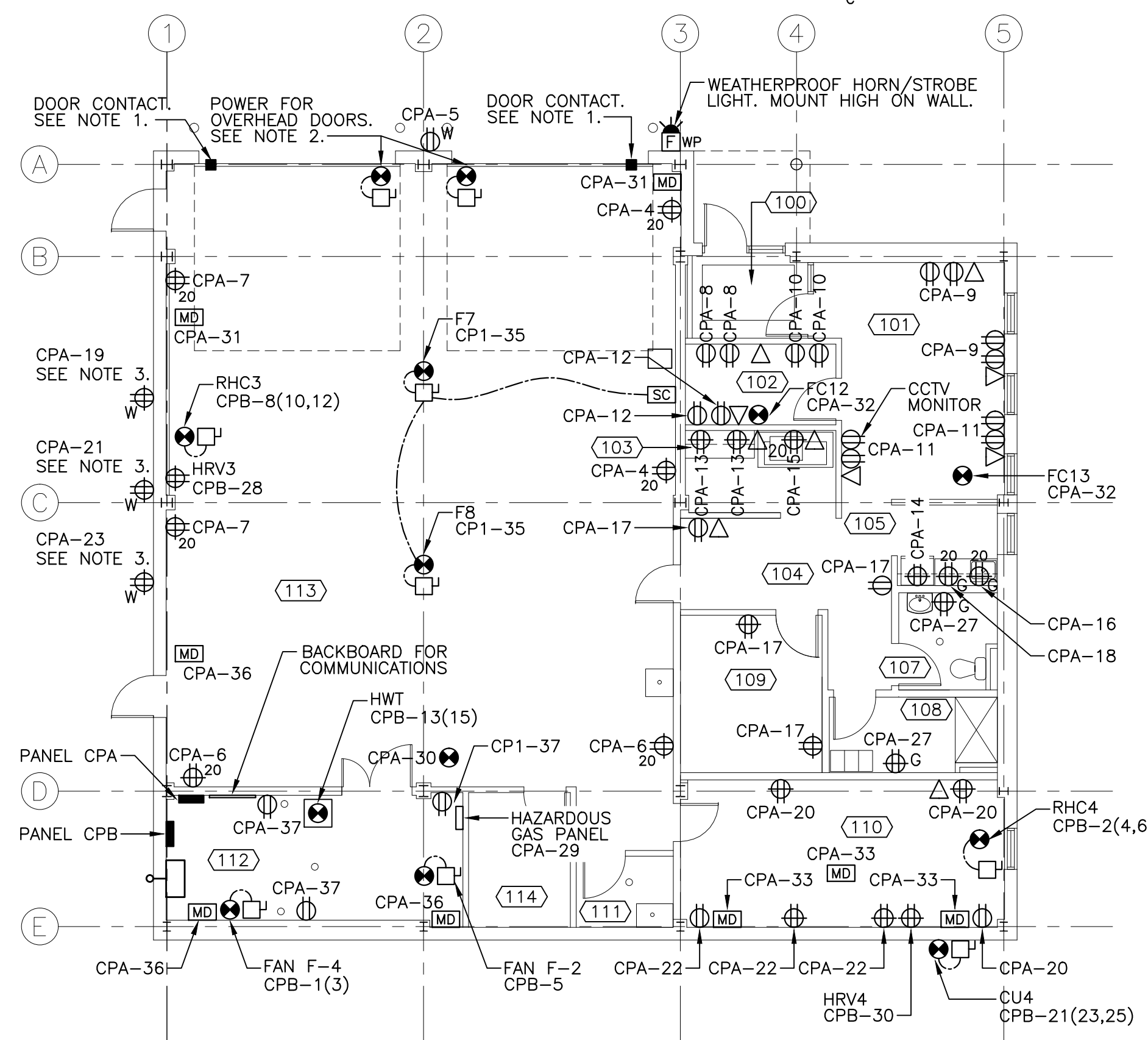
**1
E6**



HEATING PLAN

SCALE : 1:100

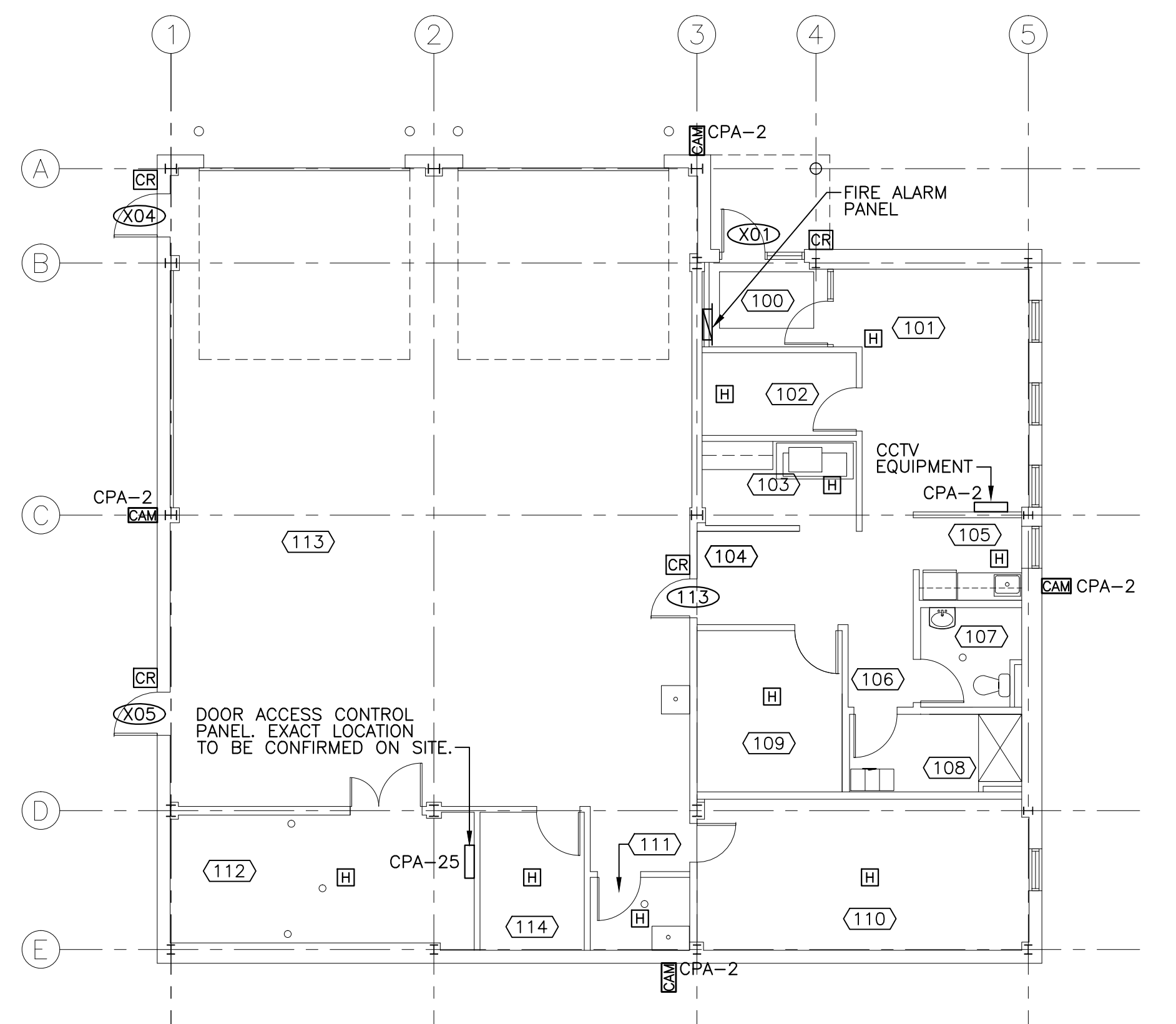
**3
E6**



POWER PLAN

SCALE : 1:100

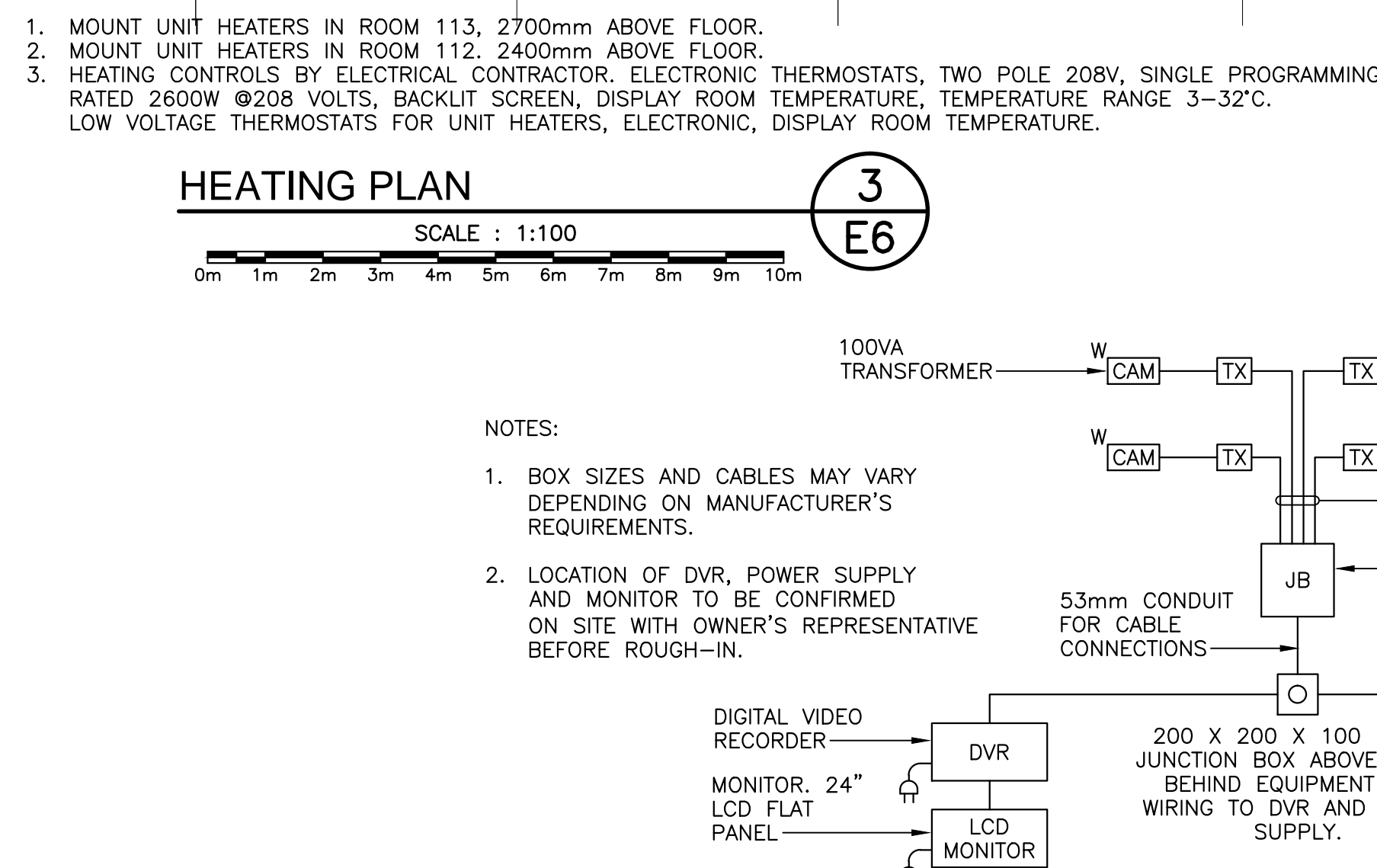
**2
E6**



SYSTEMS PLAN

SCALE : 1:100

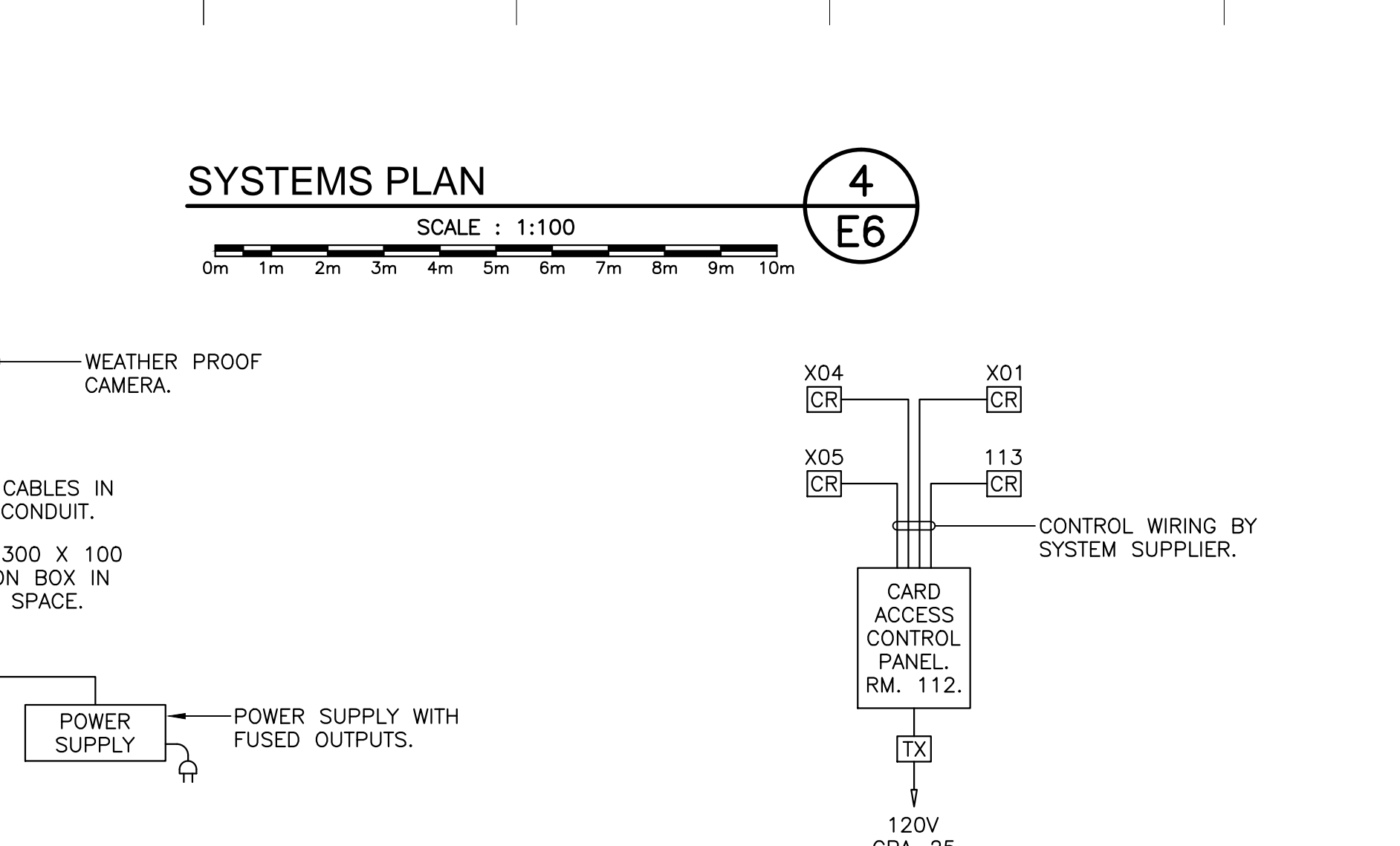
**4
E6**



CCTV RISER

SCALE : NTS

**5
E6**



CARD ACCESS READER

SCALE : NTS

**7
E6**

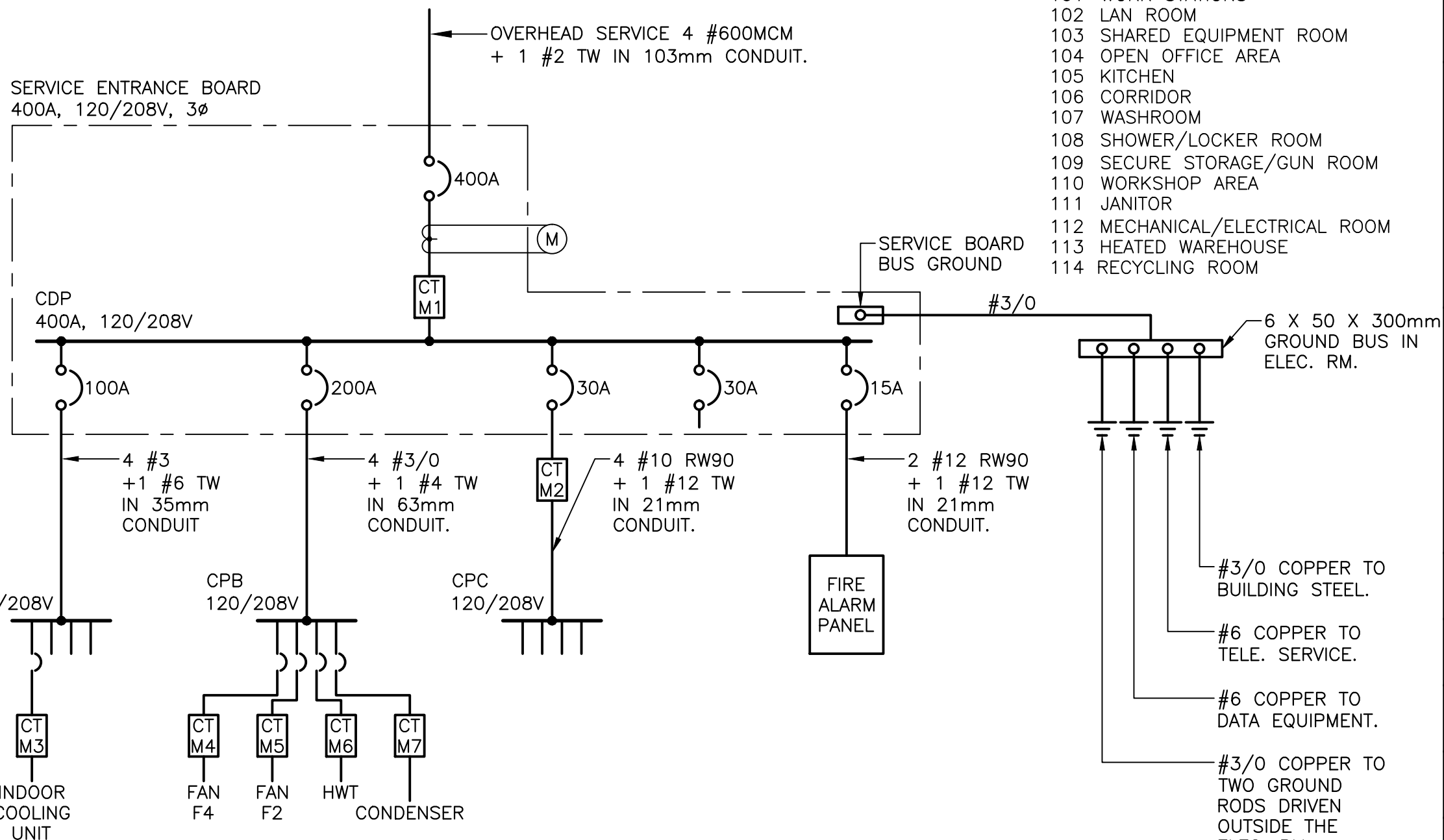
PANEL: CPA								LOCATION : ELECTRICAL RM. 112				MOUNTING : SURFACE				BRANCH BREAKER I.C. : 22ka				225 AMP. MAINS.			
LOAD DESCRIPTION		LOAD	WIRE	BKR	CIRCUIT	BKR	WIRE	LOAD DESCRIPTION	PHASE LOAD			LOAD	WIRE	BKR	CIRCUIT	LOAD DESCRIPTION	PHASE LOAD						
									A	B	C						A	B	C				
SPARE					15	1	2	150	150								150						
SPARE					15	3	4	20	12	500	REC. WAREHOUSE						500						
SPARE					15	5	6	20	12	500	REC. WAREHOUSE											500	
REC. WAREHOUSE		500	12	20	7	8	15	12	400	REC. LAN RM. 102						900							
REC. WORKSTATIONS RM. 101		1000	12	15	9	10	15	12	400	REC. LAN RM. 102							1400						
REC. WORKSTATIONS RM. 101		1000	12	15	11	12	15	12	400	REC. LAN RM. 102												1400	
REC. EQUIPMENT RM. 103		1000	12	15	13	14	15	12	500	REC. RM. 105 (FRIDGE)						1500							
REC. EQUIPMENT RM. 103		1500	12	20	15	16	20	12	1000	REC. RM. 105 (COUNTER)							2500						
REC. RM. 104, 109		200	12	15	17	18	20	12	1200	REC. RM. 105 (MICROWAVE)												1400	
REC. EXTERIOR (COMPOUND)		200	12	15*	19	20	15	12	200	REC. RM. 110						400							
REC. EXTERIOR (COMPOUND)		200	12	15*	21	22	15	12	200	REC. RM. 110							400						
REC. EXTERIOR (COMPOUND)		200	12	15*	23	24	15			SPARE												200	
POWER TO DOOR ACCESS SYSTEM		100	12	15	25	26	15			SPARE						100							
REC. WASHROOM & SHOWER		500	12	15	27	28	15			SPARE							500						
HAZARDOUS GAS PANEL		200	12	15	29	30	15	12	100	EMERGENCY SHOWER												300	
MOTORIZED DAMPERS, RM. 113		100	12	20	31	32	15	12		INDOOR COOLING UNITS						100							
MOTORIZED DAMPERS, RM. 110		100	12	15	33	34	15			SPARE							100						
FANS 7 & 8		200	12	15	35	36	15	12	100	MOTORIZED DAMPERS, RM. 112,113												300	
REC. RM. 112		200	12	15	37	38	15			SPARE						200							
SPARE					15	39	40	15		SPARE													
SPARE					15	41	42	15		SPARE													
NOTE: 1. * GFI RECEPTACLE WITH WEATHER PROOF COVERS 1M ABOVE GRADE.								CONNECTED LOAD		12.8 kW		TOTAL WATTS		3,350	5,400	4,100							
								ESTIMATED DEMAND		10.0 kW		TOTAL AMPS											

PANEL: CPB										LOCATION : ELECTRICAL RM. 112				MOUNTING : SURFACE				225 AMP. MAINS.			
SERVICE : 120/208/3/60										BRANCH BREAKER I.C. : 22KA											
LOAD DESCRIPTION	LOAD	WIRE	BKR	CIRCUIT	BKR	WIRE	LOAD	LOAD DESCRIPTION	PHASE LOAD			LOAD	WIRE	BKR	CIRCUIT	LOAD DESCRIPTION	PHASE LOAD				
									A	B	C										
FAN F-4 (3/4 Hp)	1578	12	20	1 2	3 4	15	12	2500	REHEAT COIL, RHC-4	1623							1623				
FAN F-2	200	12	15	5 6													1034				
UNIT HEATER	5000	12	20	7 8	9 10	40	8	11000	REHEAT COIL, RHC-3	5334											
				11 12											5334						
															5334						
HOT WATER TANK	4500	10	30	13 14	15 16	15	12	3000	HEATERS RM. 100, 101	3750											
HEATERS RM. 105, 107, 110	2000	12	15	17 18	19 20	15	12	2250	HEATERS RM. 104, 108, 111, 114	2125							2125				
				21 22										5000							
				23 24										5000							
OUTDOOR CONDENSER	10000	8	40	25 26		20	12	5000	UNIT HEATER RM. 113							5000					
UNIT HEATER RM. 112	3000	12	15	27 28	29 30	15	12	500	REC. HRV3							1500					
				31 32	15	12	200	REC. HRV4						1200							
SPARE				15	33 34				PREPARED SPACE	1000											
SPARE				15	35 36				PREPARED SPACE												
SPARE				15	37 38				PREPARED SPACE												
PREPARED SPACE					39 40				PREPARED SPACE												
PREPARED SPACE					41 42				PREPARED SPACE												
NOTES:							CONNECTED LOAD		50.7 kW	TOTAL WATTS		18,832	17,207	14,693							
							ESTIMATED DEMAND		38.0 kW	TOTAL AMPS											

PANEL: CPC										LOCATION : ELECTRICAL RM. 112 SERVICE : 120/208/3/60										MOUNTING : SURFACE BRANCH BREAKER I.C. : 22kA										100 AMP. MAINS.									
LOAD DESCRIPTION										LOAD WIRE BKR CIRCUIT BKR WIRE LOAD										PHASE LOAD																			
																				A B C																			
LIGHTING OFFICE AREA										586 12 15 1 2 15 12 927										LIGHTING EXTERIOR 1513																			
LIGHTING OFFICE AREA										451 12 15 3 4 15 12 100										EXIT & EMERGENCY LIGHTS 551																			
LIGHTING WAREHOUSE										1035 12 15 5 6 15										SPARE 1035																			
SPARE										15 7 8 15										SPARE																			
PREPARED SPACE										9 10										PREPARED SPACE																			
PREPARED SPACE										11 12										PREPARED SPACE																			
										CONNECTED LOAD 3.0 KW										TOTAL WATTS 1513 551 1035																			
										ESTIMATED DEMAND 3.0 KW										TOTAL AMPS																			

ROOM NAME LIST

- 100 VESTIBULE
- 101 WORK STATIONS
- 102 LAN ROOM
- 103 SHARED EQUIPMENT ROOM
- 104 OPEN OFFICE AREA
- 105 KITCHEN
- 106 CORRIDOR
- 107 WASHROOM
- 108 SHOWER/LOCKER ROOM
- 109 SECURE STORAGE/GUN ROOM
- 110 WORKSHOP AREA
- 111 JANITOR
- 112 MECHANICAL/ELECTRICAL ROOM
- 113 HEATED WAREHOUSE
- 114 RECYCLING ROOM



SINGLE LINE DIAGRAM

SCALE : NTS

**8
E6**

Public Works and Government Services Canada

Travaux Publics et Services gouvernementaux Canada

amec foster wheeler

PROVINCE OF NEWFOUNDLAND AND LABRADOR
PERMIT HOLDER
This Permit Allows
2017-07-14
AMEC FOSTER WHEELER AMERICAS LIMITED
To practice Professional Engineering
in Newfoundland and Labrador.
Permit No. as issued by PEEG
which is valid for the year 2017-2018

REGISTERED PROFESSIONAL ENGINEER
WILLIAM C. CALDWELL
2017-07-14
NEWFOUNDLAND & LABRADOR

APPROX. NORTH

NOTES:

- PROVIDE DOOR CONTACTS ON OVERHEAD DOORS, INTERLOCKED WITH ELECTRICAL UNIT HEATERS TO SHUT DOWN HEATERS WHEN DOORS ARE OPEN BEYOND 100mm. INDUSTRIAL GRADE CONTACTS, CORROSION RESISTANT. PROVIDE MOUNTING BRACKETS ON DOORS AND FRAME TO ATTACH CONTACT DEVICES.
- ELECTRICAL CONNECTION FOR OVERHEAD DOOR OPERATORS. PROVIDE NON-FUSED DISCONNECT SWITCH AND WIRE FROM SWITCH TO DOOR CONTROLLER WITH WEATHERPROOF TECK CABLE OR FLEXIBLE CONDUIT. COORDINATE CONNECTIONS WITH DOOR SUPPLIER.
- EXTERIOR RECEPTACLES FOR COMPOUND. MOUNT 1000mm ABOVE GRADE AND PROTECT WITH EXTRA-DUTY METALLIC "WHILE-IN-USE" COVERS TO MEET UL5140 AND NEMA 4X RATING. FEED FROM GFCI BREAKERS.
- OCCUPANCY SENSORS IN RM. 113 TO BE MOUNTED ON UNDERSIDE OF STEEL, OR PROVIDE STEEL STRUT ACROSS BOTTOM OF O.W.S.J.
- PROVIDE STEEL STRUT ALONG BOTTOM OF O.W.S.J. TO SUPPORT LIGHT FIXTURES TYPE 'R' IN RM. 113. ATTACH STRUT WITH BEAM CLAMPS.
- RECEPTACLES FOR HRV UNITS TO BE LOCATED TO SUIT EQUIPMENT. COORDINATE WITH MECHANICAL BEFORE ROUGH-IN.
- CARD READER FOR ACCESS TO ROOM 109. STAND-ALONE SYSTEM. PROVIDE CONTROLLER AND WIRING WITH 120V POWER SUPPLY.

D	ISSUED FOR TENDER	JUL 13 2017
C	ISSUED FOR TENDER	JUN 28 2017
B	ISSUED FOR 99% REVIEW	MAY 25 2017
A	ISSUED FOR CLIENT REVIEW	APR 28 2017

revisions: _____ date _____

project: _____ project: _____

MCTS CENTRE AND C&P BUILDING

PLACENTIA

C&P BUILDING

ELECTRICAL LIGHTING, POWER, HEATING AND SYSTEMS PLAN

designed		conçu
date	2017	
drawn		dessiné
date	2017	
approved		approuvé
date	2017	
Tender		Source/Signé
Project Manager		Administrateur de projets TPSC
project number	R.081781.004	no. du projet
drawing no.	E6	no. du dessin