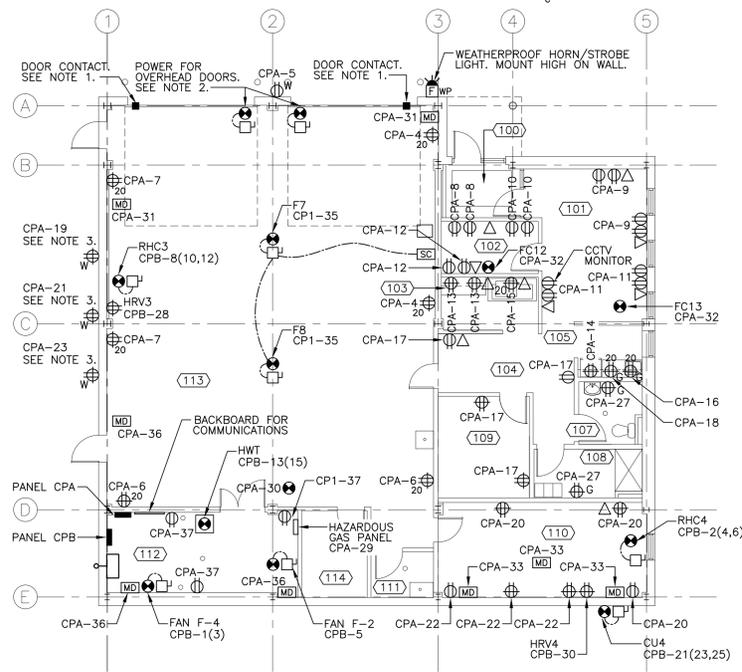


LIGHTING PLAN

SCALE : 1:100

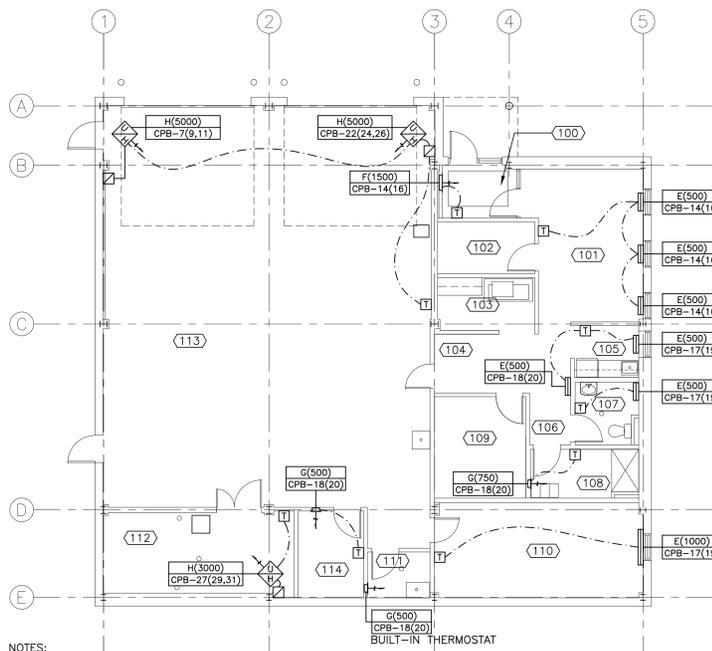
1
E6



POWER PLAN

SCALE : 1:100

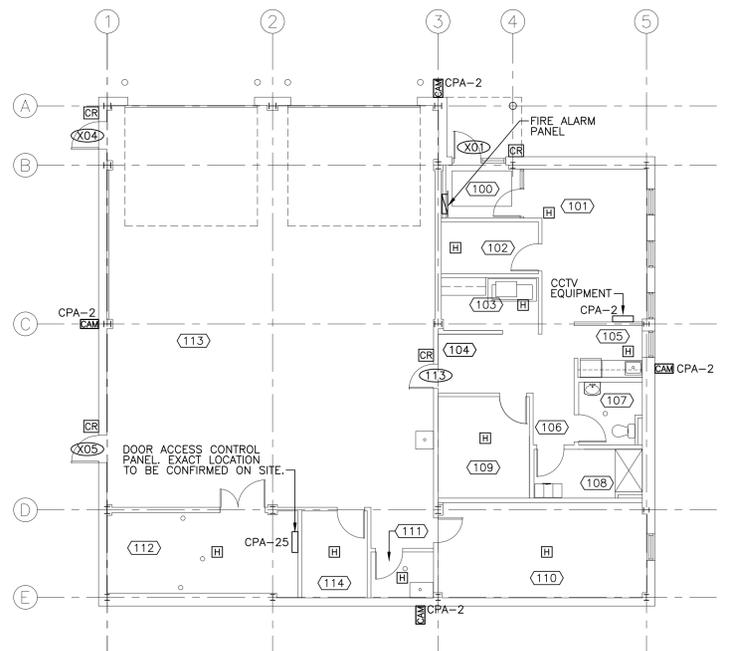
2
E6



HEATING PLAN

SCALE : 1:100

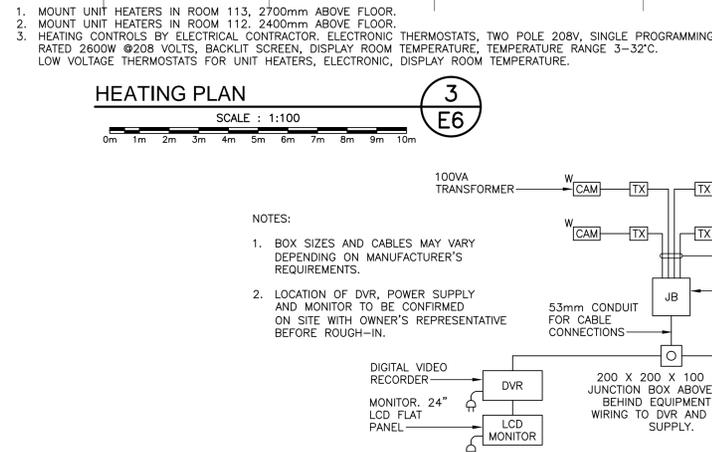
3
E6



SYSTEMS PLAN

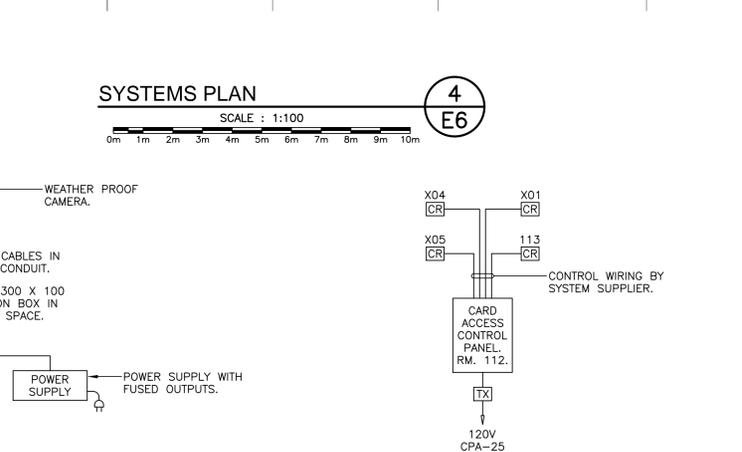
SCALE : 1:100

4
E6



CCTV RISER

SCALE : NTS



CARD ACCESS READER

SCALE : NTS

PANEL: CPA LOCATION : ELECTRICAL RM. 112 SERVICE : 120/208/3/60 MOUNTING : SURFACE BRANCH BREAKER I.C. : 22KA 225 AMP. MAINS.

LOAD DESCRIPTION	LOAD	WIRE	BKR	CIRCUIT	BKR	WIRE	LOAD	LOAD DESCRIPTION	PHASE LOAD		
									A	B	C
SPARE			15	1	2	15	12	150			
SPARE			15	3	4	20	12	500			
SPARE			15	5	6	20	12	500			
REC. WAREHOUSE	500	12	20	7	8	15	12	400			
REC. WORKSTATIONS RM. 101	1000	12	15	9	10	15	12	400			
REC. WORKSTATIONS RM. 101	1000	12	15	11	12	15	12	400			
REC. EQUIPMENT RM. 103	1000	12	15	13	14	15	12	500			
REC. EQUIPMENT RM. 103	1500	12	20	15	16	20	12	1000			
REC. RM. 104, 109	200	12	15	17	18	20	12	1200			
REC. EXTERIOR (COMPOUND)	200	12	15*	19	20	15	12	200			
REC. EXTERIOR (COMPOUND)	200	12	15*	21	22	15	12	200			
REC. EXTERIOR (COMPOUND)	200	12	15*	23	24	15					
POWER TO DOOR ACCESS SYSTEM	100	12	15	25	26	15					
REC. WASHROOM & SHOWER	500	12	15	27	28	15					
HAZARDOUS GAS PANEL	200	12	15	29	30	15	12	100			
MOTORIZED DAMPERS, RM. 113	100	12	20	31	32	15	12				
MOTORIZED DAMPERS, RM. 110	100	12	15	33	34	15					
FANS 7 & 8	200	12	15	35	36	15	12	100			
REC. RM. 112	200	12	15	37	38	15					
SPARE			15	39	40	15					
SPARE			15	41	42	15					

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 SERVICE : 120/208/3/60 MOUNTING : SURFACE BRANCH BREAKER I.C. : 22KA 225 AMP. MAINS.

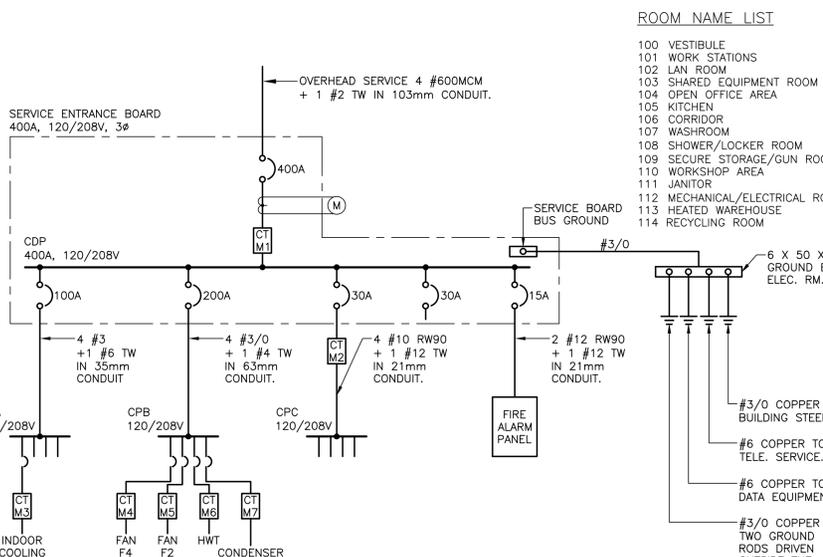
LOAD DESCRIPTION	LOAD	WIRE	BKR	CIRCUIT	BKR	WIRE	LOAD	LOAD DESCRIPTION	PHASE LOAD		
									A	B	C
FAN F-4 (3/4 Hp)	1578	12	20	3	4	15	12	2500			
FAN F-2	200	12	15	5	6						
UNIT HEATER	5000	12	20	9	10	40	8	11000			
HOT WATER TANK	4500	10	30	13	14	15	12	3000			
HEATERS RM. 105, 107, 110	2000	12	15	17	18	19	20	2250			
OUTDOOR CONDENSER	10000	8	40	23	24	25	26	5000			
UNIT HEATER RM. 112	3000	12	15	27	28	29	30	15	12	200	
SPARE			15	33	34						
SPARE			15	35	36						
SPARE			15	37	38						
PREPARED SPACE			39	40							
PREPARED SPACE			41	42							

NOTE:
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	LOAD DESCRIPTION	PHASE LOAD		
									A	B	C
LIGHTING OFFICE AREA	586	12	15	1	2	15	12	927			
LIGHTING OFFICE AREA	451	12	15	3	4	15	12	100			
LIGHTING WAREHOUSE	1035	12	15	5	6	15					
SPARE			15	7	8	15					
PREPARED SPACE			9	10							
PREPARED SPACE			11	12							

NOTE:
CONNECTED LOAD 3.0 kW TOTAL WATTS 1513 551 1035
ESTIMATED DEMAND 3.0 kW TOTAL AMPS



SINGLE LINE DIAGRAM

SCALE : NTS

8
E6



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 UL514D 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-ALONG SYSTEM. PROVIDE CONTROLLER AND WIRING WITH 120V POWER SUPPLY.

revisions	description	date
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

MCTS CENTRE AND C&P BUILDING PLACENTIA

C&P BUILDING ELECTRICAL, HEATING AND SYSTEMS PLAN

designed: [Signature] conq
date: [Signature] 2017
drawn: [Signature] dessin
date: [Signature] 2017
approved: [Signature] approuvé
date: [Signature] 2017
Tender: g.f. macgillivray july 14/17
Project Manager: [Signature] Admin. Directeur de projets TPSC
project number: [Signature] no. du projet
R.081781.004
drawing no. [Signature] no. du dessin

E6