

**R. & A. LIGHTS CIRCUITS**

2 - 3" CONDUITS AS PER 713.04, STUB 5'-0" OUTSIDE BLD'G WALL. INSERT ONE DUCT CABLE, AS PER 713.03, WITH CONDUCTORS AS PER 713.03, 2(A), 3 NO. 4 TYPE RHH/RHW - USE , INTO EACH 3" CONDUIT FROM RAMP & AREA LIGHT CKT'S "A" & "B".

**TELEPHONE CIRCUITS**

- (B) 2" COND. W/ NO. 12 PULLWIRE (TELEPHONE) FROM TEL. CABINET TO CONC. PULL BOX (FUTURE FEED)
- (C) 2" COND. W/ NO. 12 PULLWIRE (TELEPHONE) FROM TEL. CABINET TO TEL. CO. TERMINAL BOX TO CONC. PULL BOX. (USE FOR TEL. SERVICE CONDUCTORS.)
- (D) 3 - 3/4" COND'S W/ NO. 12 PULLWIRE (TEL.) TO TEL. STATIONS IN RM'S 105 & 101

**PANEL "A"**

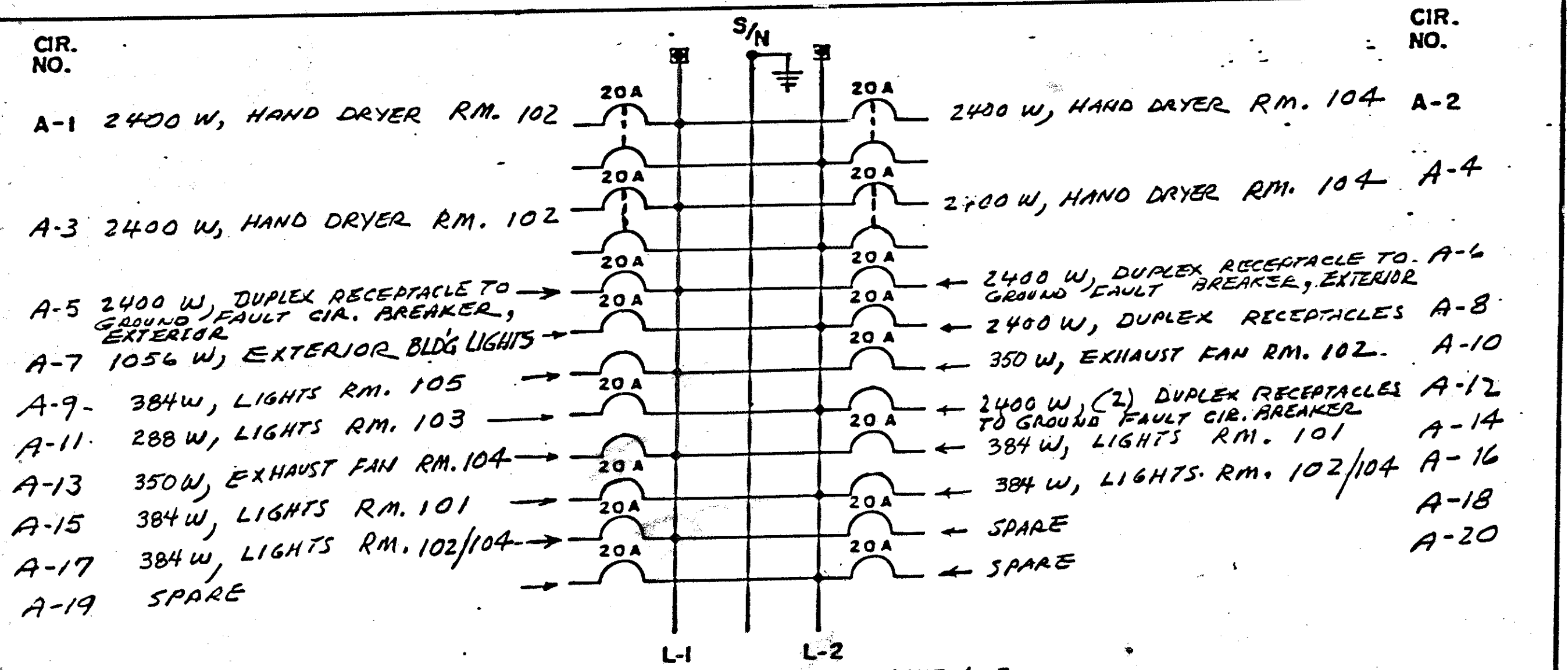
- (1) 2 - NO. 12 THW & 1-NO. 12 THW GREEN GRD./ IN 3/4" COND. HAND DRYER CKT. A-1, RM. 102.
- (2) 2 - NO. 12 THW & 1 - NO. 12 THW GREEN GRD./ IN 3/4" COND. HAND DRYER CKT. A-2 RM. 104.
- (3) 2 - NO. 12 THW & 1 - NO. 12 THW GREEN GRD./ IN 3/4" COND. HAND DRYER CKT. A-3 RM. 102.
- (4) 2 - NO. 12 THW & 1 - NO. 12 THW GREEN GRD./ IN 3/4" COND. HAND DRYER CKT. A-4, RM. 104.
- (5) 2 - NO. 12 THW & 1 - NO. 12 THW GREEN GRD./ IN 3/4" COND. FROM GFCI CKT. BRK. TO EXTERIOR DUPLEX RECEPTACLE. CKT. A-5
- (6) 2 - NO. 12 THW & 1 - NO. 12 THW GREEN GRD./ IN 3/4" COND. FROM GFCI CKT. BRK. TO EXTERIOR DUPLEX RECEPTACLE. CKT. A-6
- (7) 2 - NO. 12 THW & 1 - NO. 12 THW GREEN GRD./ IN 3/4" COND. TO RECEPTABLES IN RM'S. 105, 103, & 101. CKT. A-8
- (8) 2 - NO. 12 THW & 1 - NO. 12 THW GREEN GRD./ IN 3/4" COND. FROM GFCI CKT. BRK. TO (2) INTERIOR DUPLEX RECEPTABLES IN RM'S. 102 & 104. CKT. A-12

**PANEL "P"**

- (1) 2 - NO. 10 THW  
1 - NO. 10 THW GREEN GRD./ IN 3/4" COND. TO UNIT HEATE', 5KW, CKT. P-6, RM. 105.
- (2) 2 - NO. 4 THW  
1 - NO. 4 THW GREEN GRD./ IN 1" COND. TO H.W. HEATER, 10KW, CKT. P-5, RM. 103.
- (3) 4 - NO. 10 THW &  
2 - NO. 10 THW GREEN GRD./ IN 1" COND. TO (2) 2-P/30A BRK'S, TO (2) 4'-0", 2.5KW B.B. HEATERS, CKT'S P-7 & P-9, RM. 102
- (4) 4 - NO. 10 THW &  
2 - NO. 10 THW GREEN GRD./ IN 1" COND. TO (2) 2-P/30A BRK'S, TO (2) 4'-0", 2.5KW B.B. HEATERS, CKT'S P-11 & P-13, RM. 102.
- (5) 2 - NO. 10 THW &  
1 - NO. 10 THW GREEN GRD./ IN 3/4" COND. TO 2-P/30A BRK., (2) 6'-0", 2.25 KW B.B. HEATERS, CKT. P-8, RM 101.
- (6) 2 - NO. 10 THW &  
1 - NO. 10 THW GREEN GRD./ IN 3/4" COND. TO 2-P/30A BRK., (2) 6'-0", 2.25 KW B.B. HEATERS, CKT. P-10, RM. 101
- (7) 4 - NO. 10 THW &  
1 - NO. 10 THW GREEN GRD./ IN 1" COND. TO (2) 2-P/30A BRK'S, TO (2) 4'-0", 2.5 KW B.B. HEATERS, CKT'S P-12 & P-14, RM. 104.
- (8) 4 - NO. 10 THW &  
1 - NO. 10 THW GREEN GRD./ IN 1" COND. TO (2) 2-P/30A BRK'S., TO (2) 4'-0", 2.5 KW B.B. HEATERS, CKT'S P-15 & P-17, RM. 104.
- (9) 1-NO. 1/0 THW GREEN GRD./ IN 1" COND. THIS CONDUCTOR SHALL BE THE SERVICE EQUIPMENT GROUNDING ELECTRODE. CONDUIT SHALL EXTEND TO 2" COPPER WATER LINE FEEDING COLD WATER METER IN RM. 103. STUB 1" COND. 6" ABOVE FINISHED FLOOR ONLY IN RM. 103. CLAMP GRD. 1/0 ELECTRODE TO 2" COPPER WATER LINE AS PER SPECIFICATIONS MEETING THE NATIONAL ELEC. CODE REQUIREMENTS.
- (10) 1-3/4" COND. NIPPLE AS PER 713.04 W/3-NO. 500 MCM TYPE USE OR RHH/RHW, 600V, & 1-NO. 1/0 GREEN EQUIPMENT GROUND.

**PANEL "A" WIRING**

225 AMPS 24-POLES 120/240 VOLTS 1-PHASE 60 HERTZ 3-WIRE S/N (MAIN LUGS ONLY)



LINE L-1  
11,452 WATTS, CONNECTED

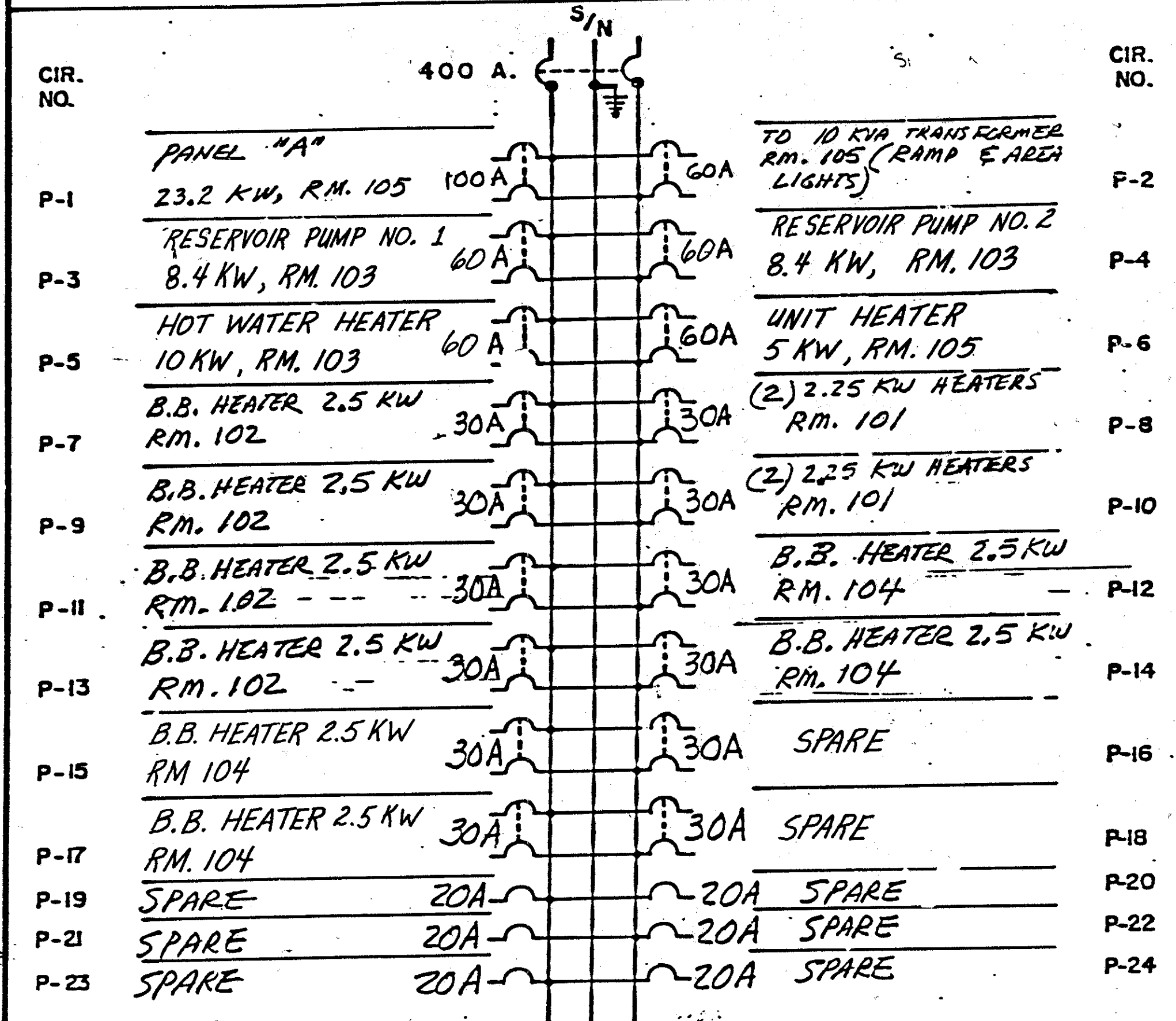
LINE L-2  
11,712 WATTS, CONNECTED

**CIRCUITS TO 6" X 6" WIREWAY**

- (E) 1-1/2" & 1-2" SPARE CONDUITS AS PER 713.04. STUB 5'-0" OUTSIDE BLD'G WALL, 36" BELOW FINISHED GRADE & CAP FOR FUTURE USE.
- (F) 1" COND. W/4 S/W SUSPENSION WIRES FROM RESERVOIR PUMP CONTROL PANEL & WATER RESERVOIR TANK HIGH WATER SIGNAL AND ALARM PANEL TO WATER RESERVOIR TANK. ALSO INSTALL ONE (1) INSULATED GROUND WIRE TO RESERVOIR TANK.
- (G) 4-NO. 6 THW & 2-NO. 6 GREEN GRD./ IN 1/4" COND. TO JUNCTION BOX, FROM JUNCTION BOX FEED 2-NO. 6 THW & 1-NO. 6 GREEN GRD. TO DISCONNECT SWITCH AND RESERVOIR PUMP MOTOR NO. 1, CKT. P-3. DUPLICATE SAME FEED TO DISCONNECT SWITCH AND RESERVOIR PUMP MOTOR NO. 2, CKT. P-4. LOCATION RM. 103. MOUNT DISCONNECT SWITCHES ABOVE VENT PIPES.
- (H) 4-NO. 12 THW & 2-NO. 12 THW GREEN GRD./ IN 1" COND. FROM PRESSURE SWITCHES P-1 & P-2 TO RESERVOIR PUMP CONTROL. CABINET RM. 105.

**PANEL "P" WIRING**

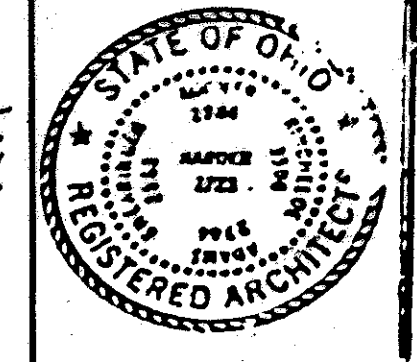
400 AMPS 42-POLES 120/240 VOLTS 1 PHASE 60 HERTZ 3-WIRE S/N (400 AMP MAIN CIRCUIT BREAKER - 2 POLE)



LINE L-1  
46,982 WATTS CONNECTED

LINE L-2  
46,982 WATTS CONNECTED

NOTE: ALL CIRCUIT BREAKERS SHALL BE FURNISHED AS SHOWN FOR EACH PANEL.



BUREAU OF DESIGN SERVICES		DEPARTMENT OF TRANSPORTATION	
MOTORIST SERVICES BUILDING & STORAGE UNIT			
REVISIONS	BY	DATE	SHEET NO.
3-1-78	J.D.D.	3-3-78	RRR
5-3-78		1-14-82	6G
10-13-82			
PREPARED BY DEPARTMENT OF PUBLIC WORKS			DATE
ADAMS, HARDY, KINCHLO, KOCHER, SWERINGEN			