

10

MOTOR CONTROL CENTER - MCC-G MAIN 100A-3P N/A									
480 VOLTS 3 PHASE 3 WIRE BUS 100A									
C I R	DESCRIPTION	HP	KW	BREAKER AMPS POLE	STARTER SIZE	LOAD AMPS V.A.	FEEDER CONDUIT WIRE		
1	AH-1	20	70	3	2	26.0 21630	3/4" 3#8		
2	RF-1	7 1/2	30	1	1	11.0 9150	3/4" 3#12		
3	SS-1	1 1/2	15		1	2.6 2162	3/4" 3#12		
4	VS-1	1 1/2	15		1	2.6 2162	3/4" 3#12		
5	SS-2	1 1/2	15		1	2.6 2162	3/4" 3#12		
6	VS-2	1	15		1	1.8 1500	3/4" 3#12		
7	EF-3	1	15		1	1.8 1500	3/4" 3#12		
8	SPACE								
9									
10									
11									
12									
TOTAL		34		48.4 FLA + 25% LARGEST MOTOR = 64.9A		48.4	40266		

MOTOR CONTROL CENTER - MCC-A MAIN 225A-3P N/A									
480 VOLTS 3 PHASE 3 WIRE BUS 225A									
C I R	DESCRIPTION	HP	KW	BREAKER AMPS POLE	STARTER SIZE	LOAD AMPS V.A.	FEEDER CONDUIT WIRE		
1	AH-14	15	70	3	2	21 16700	3/4" 3#10		
2	AH-16	15	70		2	21 16700	3/4" 3#10		
3	RF-14	7 1/2	30		1	11 8750	3/4" 3#12		
4	EF-9	10	40		1	11.639	3/4" 3#12		
5	EF-25	3	15		1	4.8 3820	3/4" 3#12		
6	SPACE								
7									
8									
9									
10									
11									
12									
TOTAL		50.5		71.8 + 25% LARGEST MOTOR = 77.1 A		71.8	57409		

MOTOR CONTROL CENTER (MINI) TYPICAL MCC FOR L.B.C.D.E.H.J.O.P. MAIN 100A-3P N/A									
480 VOLTS 3 PHASE 3 WIRE BUS 100A									
C I R	DESCRIPTION	HP	KW	BREAKER AMPS POLE	STARTER SIZE	LOAD AMPS V.A.	FEEDER CONDUIT WIRE		
1	AH-2	20	70	3	2	26.0 21630	3/4" 3#8		
2	RF-2	7 1/2	30	1	1	11.0 9150	3/4" 3#12		
3	SPACE								
4	SPACE								
5									
6									
7									
8									
9									
10									
11									
12									
TOTAL		27.5		37.0 A + 25% LARGEST MOTOR = 43.5A		37.0	30780		

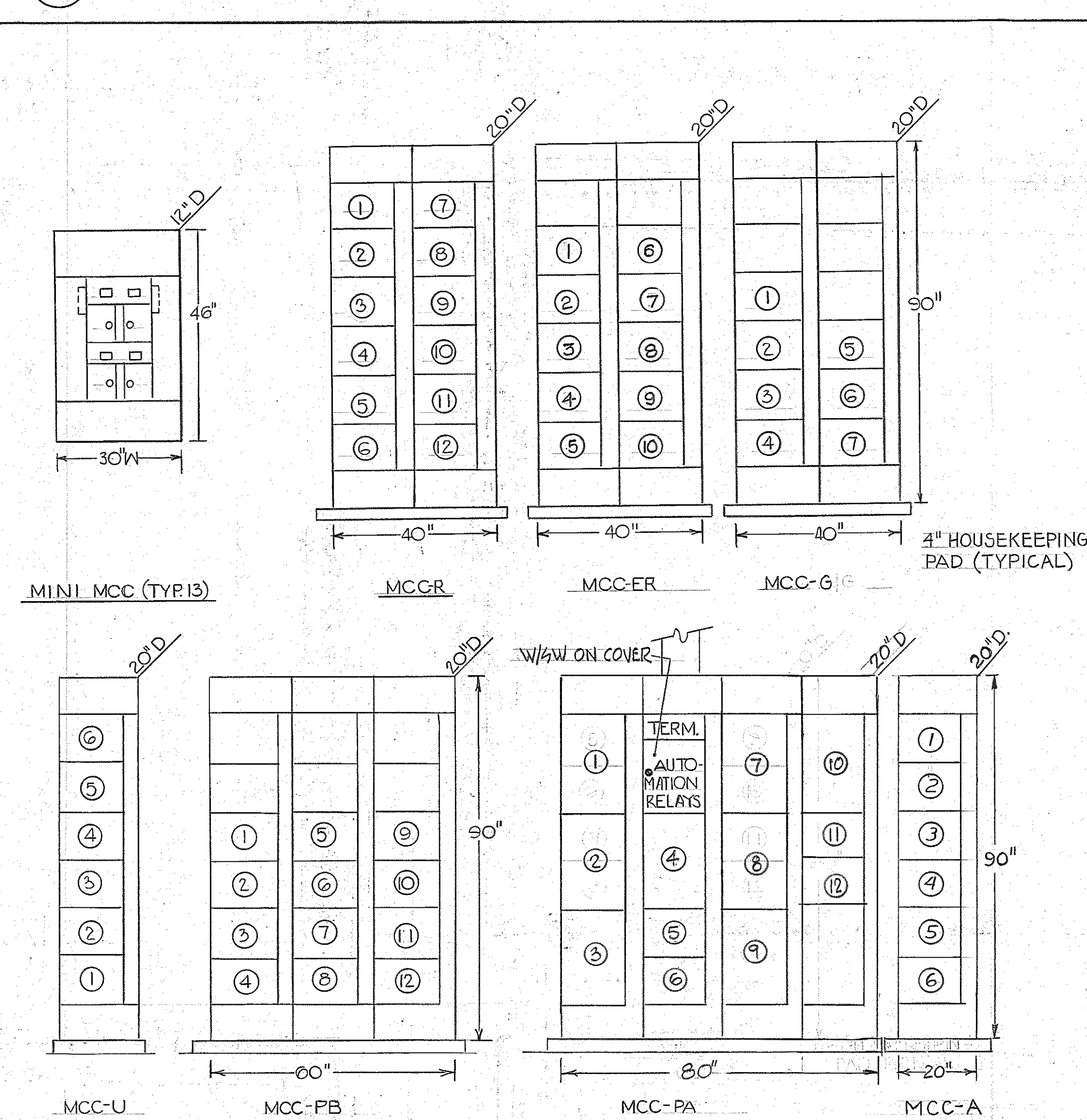
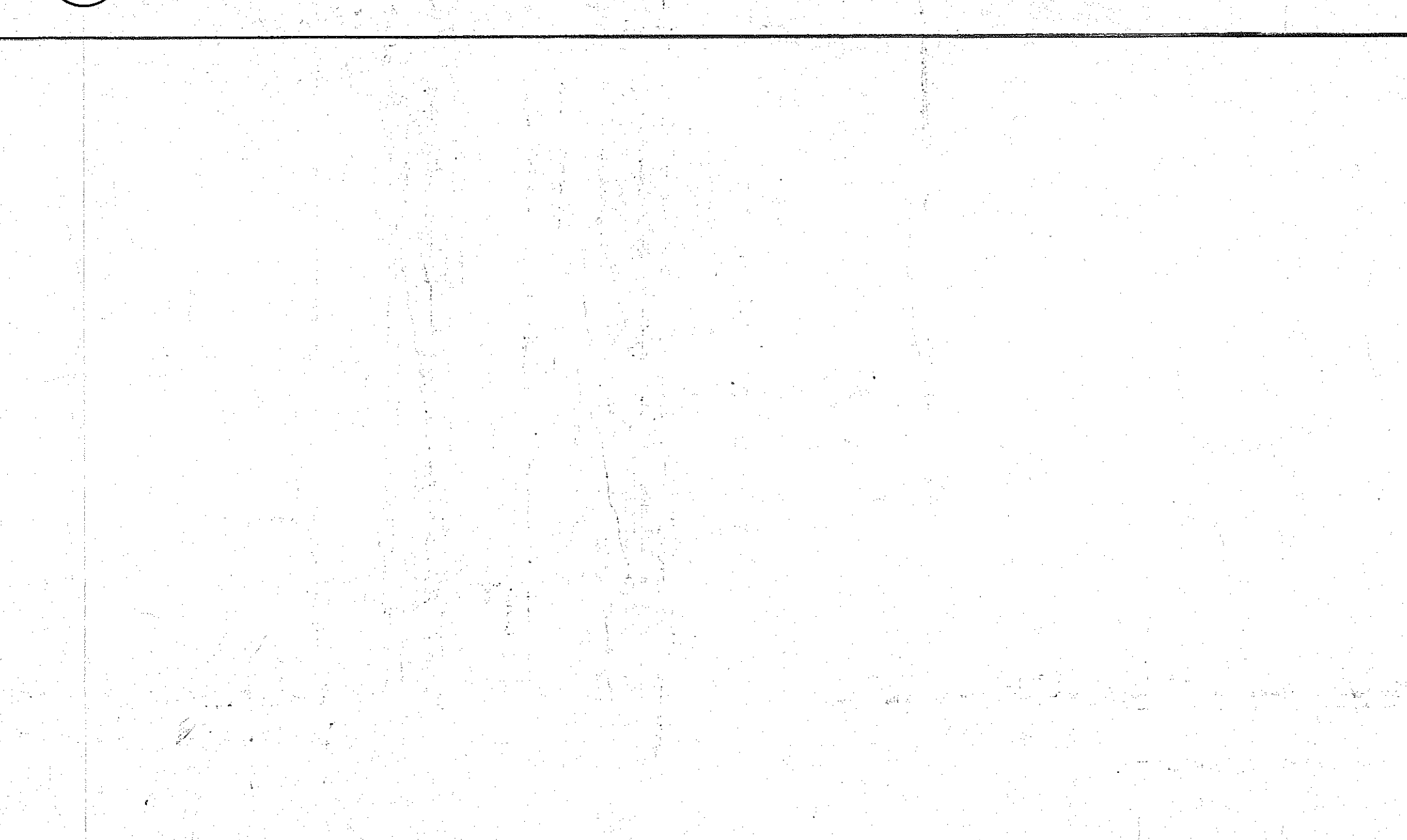
MOTOR CONTROL CENTER - MCC-ER MAIN 225A-3P N/A									
480 VOLTS 3 PHASE 3 WIRE BUS 225A									
C I R	DESCRIPTION	HP	KW	BREAKER AMPS POLE	STARTER SIZE	LOAD AMPS V.A.	FEEDER CONDUIT WIRE		
1	AH 19	20	70	3	2	26.0 21630	3/4" 3#8		
2	AH 20	20	70		2	26.0 21630	3/4" 3#8		
3	VE 1	1 1/2	15		1	1.8 1500	3/4" 3#12		
4	SE 1	3/4	15		1	1.4 1164	3/4" 3#12		
5	VE 2	3/4	15		1	1.4 1164	3/4" 3#12		
6	SE 2	3/4	15		1	1.4 1164	3/4" 3#12		
7	EF 3	3	15		1	4.5 3800	3/4" 3#12		
8	EF 6	3	15		1	4.5 3800	3/4" 3#12		
9	EF 2	3	15		1	4.5 3800	3/4" 3#12		
10	EF 5	2	15		1	3.4 2700	3/4" 3#12		
11	SPACE								
12	SPACE								
TOTAL		55.0		76.1 FLA + 25% LARGEST MOTOR = 86.8A		76.1	63350		

MOTOR CONTROL CENTER - MCC-U MAIN 225A-3P N/A									
480 VOLTS 3 PHASE 3 WIRE BUS 225A									
C I R	DESCRIPTION	HP	KW	BREAKER AMPS POLE	STARTER SIZE	LOAD AMPS V.A.	FEEDER CONDUIT WIRE		
1	AH 24	25	90	3	2	32.0 26610	3/4" 3#8		
2	AH 3	20	70		2	26.0 21630	3/4" 3#8		
3	RF 3	20	70		2	26.0 21630	3/4" 3#8		
4	EF-14	1 1/2	15		1	2.6 2100	3/4" 3#12		
5	EF-21	1 1/2	15		1	2.6 2100	3/4" 3#12		
6	EF-22	3	15		1	4.8 3991	3/4" 3#12		
7	EF-15	3/4	15		1	1.4 1164	3/4" 3#12		
8									
9									
10									
11									
12									
TOTAL		71.7		94.0 FLA + 25% LARGEST MOTOR = 102 A		94.4	77925		

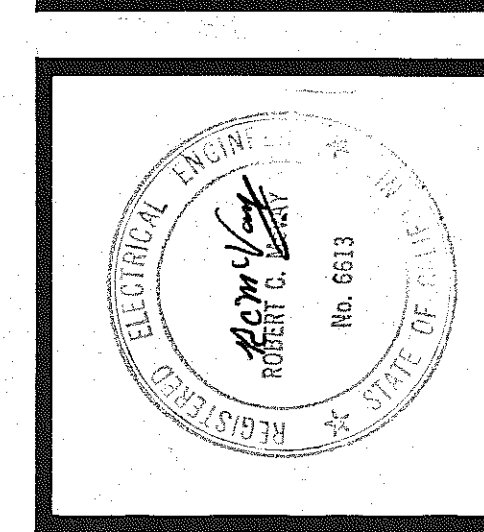
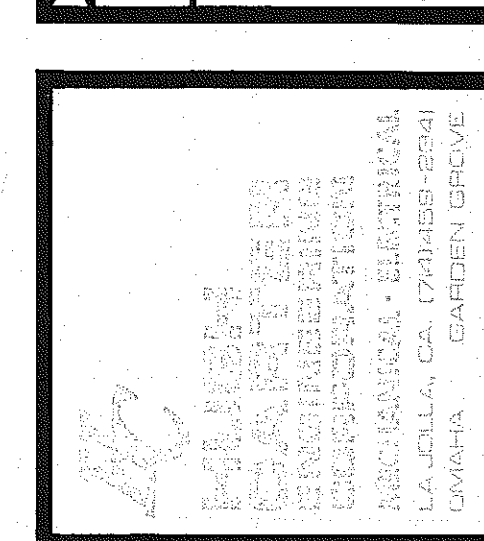
MOTOR CONTROL CENTER - MCC-PA MAIN 400A-3P N/A									
480 VOLTS 3 PHASE 3 WIRE BUS 400									
C I R	DESCRIPTION	HP	KW	BREAKER AMPS POLE	STARTER SIZE	LOAD AMPS V.A.	FEEDER CONDUIT WIRE		
1	P1	65	200	3	4	77.0 61500	1 1/4" 3#2		
2	* P2	65	200		4	77.0 61500	1 1/4" 3#2		
3	CTI FAN A	25	90		2	27.0 22410	1 1/4" 6#6		
4	CTI FAN B	25	90		2	27.0 22410	1 1/4" 6#6		
5	P5	15	70		2	21.0 16650	3/4" 3#10		
6	* P6	15	70		2	21.0 16650	3/4" 3#10		
7	P3	40	150		3	52.0 43160	1" 3#4		
8	* P3A				3	52.0	1" 3#4		
9	P4				3	52.0	1" 3#4		
10	SPACE								
11	CH-10 PUMP	1 1/2	15		1	0.55 840	3/4" 3#12		
12	CH-20 PUMP	1 1/2	15		1	0.55 840	3/4" 3#12		
TOTAL		156.0		205 FLA + 25% LARGEST MOTOR = 224 A		205	167810		

MOTOR CONTROL CENTER - MCC-PB MAIN 225A-3P N/A									
480 VOLTS 3 PHASE 3 WIRE BUS 225A									
C I R	DESCRIPTION	HP	KW	BREAKER AMPS POLE	STARTER SIZE	LOAD AMPS V.A.	FEEDER CONDUIT WIRE		
1	B-1	1	15	3	-	1.8 1500	3/4" 3#12		
2	B-2	1	15		-	1.8 1500	3/4" 3#12		
3	JOCKEY PUMP	7 1/2	30		-	11.0 9150	3/4" 3#12		
4	CC1	7 1/2	30		-	11.0 9150	3/4" 3#12		
5	CC1	7 1/2	30		-	11.0 9150	3/4" 3#12		
6	BOOSTER PUMP-1	15	70		-	14.0 11150	3/4" 3#10		
7	BOOSTER PUMP-2	15	70		-	14.0 11150	3/4" 3#10		
8	AH-23	1 1/2	15		-	2.5 2100	3/4" 3#12		
9	SPACE								
10	BOOSTER PUMP	5	15		-	7.6 6240	3/4" 3#12		
11	SPACE								
12	COIL TRANS	2.0	15	2	-	4.2 2000	3/4" 2#12		
TOTAL		58.3		82.7 FLA + 25% LARGEST MOTOR = 87.7 A		83.7	66840		

MOTOR CONTROL CENTER - MCC-R MAIN 225A-3P N/A									
480 VOLTS 3 PHASE 3 WIRE BUS 225A									
C I R	DESCRIPTION	HP	KW	BREAKER AMPS POLE	STARTER SIZE	LOAD AMPS V.A.	FEEDER CONDUIT WIRE		
1	AH 17	20	70	3	2	26.0 21630	3/4" 3#8		
2	AH 18	20	70		2	26.0 21630	3/4" 3#8		
3	AH 22	7 1/2	30		1	11.0 9150	3/4" 3#12		
4	AH 21	20	70		2	26.0 21630	3/4" 3#8		
5	EF 1	7 1/2	30		1	11.0 9150	3/4" 3#12		
6	SPACE								
7	EF 4	5	15		1	7.5 6240	3/4" 3#12		
8	SPACE								
9	RF 19	7 1/2	30		1	11.0 9150	3/4" 3#12		
10	RF 20	7 1/2	30		1	11.0 9150	3/4" 3#12		
11	RF 17	7 1/2	30		1	11.0 9150	3/4" 3#12		
12	RF 22	3	15		1	4.5 3750	3/4" 3#12		
TOTAL		105.5		145 FLA + 25% LARGEST MOTOR = 151.5A		145	120630		

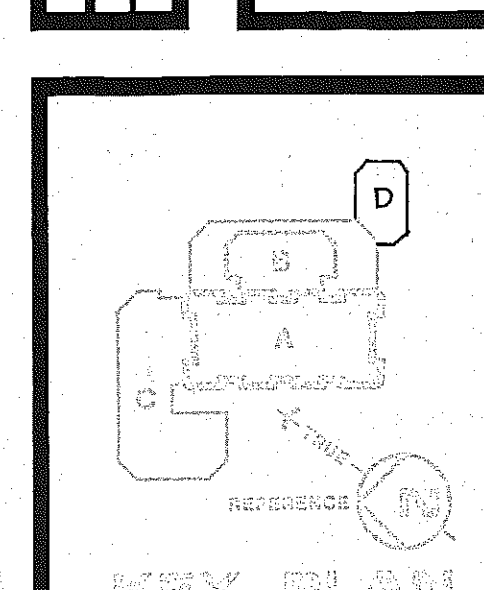
1 MAIN SWITCHBOARD ELEVATION
NO SCALE2 MOTOR CONTROL CENTER ELEVATIONS
NO SCALE3 MOTOR CONTROL CENTER SCHEDULE
NO SCALEPRECISION
JUL 10 1997
MICROFILMED

REV	DATE	REVISION DESCRIPTION
1	6/20/94	BUS PUCTS DELETED
2	10/4/94	PUMP REVISION
3	10/21/94	PUMP REVISION



WHEELER & HOPE, A JOINT VENTURE
FRANK C. HOPE & ASSOCIATES
REGISTERED ARCHITECTS
1475 SIXTH AVENUE SAN DIEGO, CA 92101 (714) 233-5291

EAST COUNTY REGIONAL CENTER
COUNTY OF SAN DIEGO
EL CAJON, CALIFORNIA



DATE	APPROVED BY	REPRESENTING
OWN BY AD	DATE 07/22/98	
CHK BY RCM	DATE 07/22/98	
DATE 07/22/98		
MAIN SWITCHBOARD & MOTOR CONTROL CENTER		