7 CONTINUED:

DEMAND LOAD AS PER ITEM "B" = 3291 KVA.
FIRE PUMP = 125 KVA @ 100% = 125
TOTAL = 3416 KVA.

3416 KVA = 4116 A. @ 480V., 3Ø

7 CONTINUED:

LIGHTING = 922 KVA @ 100% = 922 KVA
MECH LOADS = 1604 KVA @ 100% = 1604
ELEVATORS = 347 KVA @ 85% = 295
TOTAL = 3291 KVA

3291 KVA = 3965 A. @ 480V., 3Ø

C. TOTAL CONNECTED LOAD (ON SUPPLY SIDE OF MAIN BREAKER - FIRE PUMP INCLUDED) = 3203 + 125 KVA = 3928 KVA.

D. DEMAND LOAD (ON SUPPLY SIDE OF MAIN BREAKER):

4 "UFER GROUND" PROVIDE 100 FT. OF #4/0 BARE COPPER CONDUCTOR RUN WITHIN AND 3" ABOVE BOTTOM OF CONCRETE FOUNDATION IN DIRECT CONTACT WITH EARTH. PROVIDE SUPPLEMENTARY GROUND RODS, IF REQUIRED FOR RESISTANCE TO GROUND OF 5 OHMS OR LESS.

5 1"C. 1#4/0 TO NEARBY INTERIOR METALLIC COLD WATER PIPE BONDING.

6 6 KVA - 480V., 3Ø - 120/208V., 3Ø, 4W. WALL MOUNTED DRY TYPE TRANSFORMER.

7 MAIN SWITCHBOARD "MSB" LOADS ARE AS FOLLOWS:

A. TOTAL CONNECTED LOAD (ON LOAD SIDE OF MAIN BREAKER) = 3803 KVA

B. DEMAND LOAD (ON LOAD SIDE OF MAIN BREAKER):

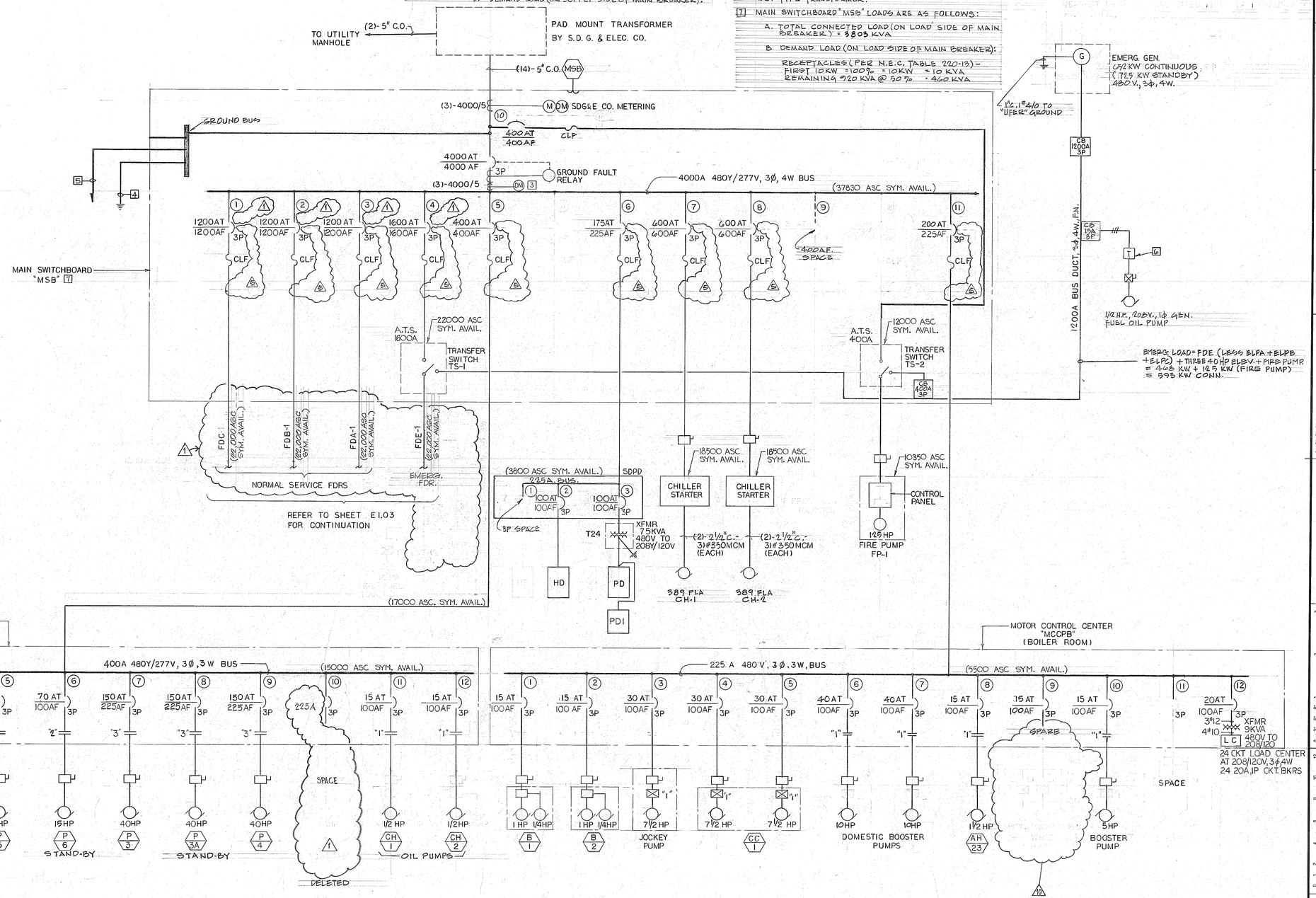
RECEPTACLES (PER N.E.C. TABLE 220-13) =
FIRST 10 KW = 100% = 10 KW = 10 KVA
REMAINING 920 KVA @ 50% = 460 KVA

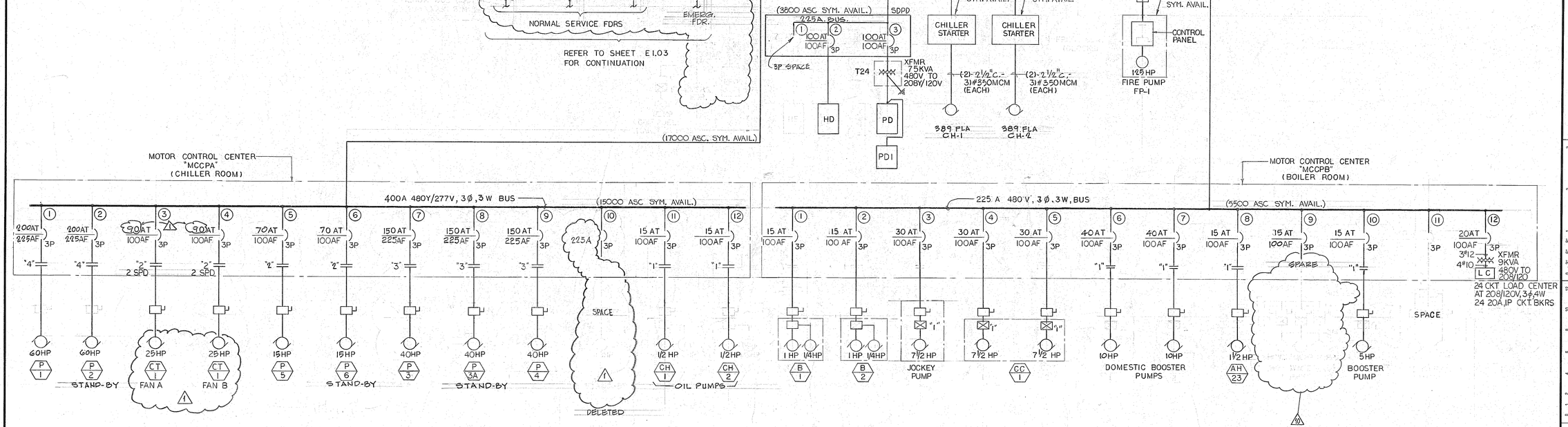
SHEET NOTES:

1 PROVIDE AUXILIARY CONTACTS ON TS-1 TO INITIATE LOAD SHEDDING ON ELEVATOR CONTROL CIRCUIT WHEN TS-1 IS IN EMERGENCY MODE

2 DELETED

3 PROVISIONS FOR MOUNTING DEMAND METER FOR BLDG. AUTOMATION LOAD SHEDDING FUNCTION METER, FURNISHED AND INSTALLED UNDER SECTION 17





MK	DATE	REVISION DESCRIPTION
1	6-20-80	DELETED TUNNEL
2	12-4-80	BID PACKAGE #3A
3	10.21.81	PUMP REVISION

WHEELER & HOPE, A JOINT VENTURE
RICHARD GEORGE WHEELER A.I.A. & ASSOCIATES
FRANK L. HOPE IS
1475 SIXTH AVENUE SAN DIEGO, CA 92101 (714) 233-8251

RICHARD GEORGE WHEELER REGISTERED ARCHITECT C-8949

FRANK L. HOPE IS REGISTERED ARCHITECT C-8949

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

KEY PLAN

DWN BY CLS	A & E NO. 07625-86
CHK BY R.C.M.	KK0025 FILE #1957
	DATE 30 JAN. 80

SINGLE LINE DIAGRAM CENTRAL PLANT

OF E1.02

PRECISION MICROFILMED JUL 10 1987