PANELBOARD SCHEDULE

PANELBOARD DESIGNATION	LOCATION	MOUNTING	SERVICE CHARACTERISTICS	BUS CAPACITY	FEEDER	CONDUIT	CIRCUIT BREAKERS ACTIVE	SPARE	TOTAL	FRAME	TRIP	POLE	SERVING	REMARKS
AH	CORRIDOR	FLUSH	3ϕ, 4W. 277/480V	100 AMP.	4#3	1½"	12 4 1	6 1 -	24	14K 14K 14K	20 20 40	1 2 2	LIGHTING. ELEC. WALL HEATERS. ELEC. WATER HEATER.	73.6KW.
BH	BOILER ROOM	SURF.	3ϕ, 4W. 277/480V.	225 AMP.	4#1	1½"	1 4 2 1	1 2 3 -	14	14K 14K 14K 14K	20 20 20 40	2 3 3 3	IMMERSION HTR. FAN & PUMPS A.H. UNIT & COMPRESSOR COOLING TOWER	60.0KW.
EM	ELECTRIC ROOM	SURF.	3ϕ, 4W. 277/480V.	100A AMP.	4#6	1"	3 1	3 1	8	G5K 25K	20 20	1 2	EMERG. LIGHTING FIRE ALARM	NOTE Nº 5 10.0KW.
DPL	MECH. EQUIP. RM.	SURF.	3ϕ, 4W. 120/208V.	400 AMP.	4#350 MCM	3"	1 2 1	1 1 -	6	25K 25K 25K	100 125 150	3 3 3	PANEL "DL" PANELS "BL" & "CL" PANEL "AL"	170.0KW.
AL	CORRIDOR	FLUSH	3ϕ, 4W. 120/208V.	225 AMP.	4#½0	2"	24 2 1	6 1 -	36	10K 10K 10K	20 20 60	1 2 2	RECEPTACLES ETC. HOT FOODS OVEN	42.8KW.
BL	CORRIDOR	FLUSH	3ϕ, 4W. 120/208V.	225 AMP.	4#1	1½"	35 1	7 -	41	10K 10K	20 30	1 2	RECEPTACLES ETC. VENDING MACH.	34.6KW.
CL	CORRIDOR	FLUSH	3ϕ, 4W. 120/208V.	225 AMP	4#1	1½"	24	12	36	10K	20	1	RECEPTACLES ETC.	26.8KW.
DL	MECH. EQUIP. RM.	SURF.	3ϕ, 4W. 120/208V.	100 AMP.	4#3	1¼"	11	7	18	10	20	1	UNIT VENTILATORS	20.8KW.

PANELBOARD NOTES

1. CIRCUIT BREAKERS SHALL BE THE SAME MANUFACTURER AS THE PANELBOARDS.
2. PLUG-IN TYPE CIRCUIT BREAKERS ARE NOT ACCEPTABLE.
3. ALL PANELBOARDS SHALL BE BUSSED WITH COPPER.
4. ALL 277/480 VOLT PANELS SHALL HAVE MINIMUM "EH" FRAME BREAKERS.
5. EXTERIOR, EXITS AND INTERIOR LIGHTS ON SEPARATE CIRCUITS.
6. ALL PANELS SHALL HAVE EQUIPMENT GROUND BUS.

LIGHTING FIXTURE SCHEDULE

FIXTURE TYPE	MANUFACTURER	CATALOG Nº	LAMPS	REMARKS
A	MARK KEYSTONE SYLVANIA	AL-24CX-440 2WGR440AL(20G) GWW-PDD-4404-SL	4/40W.	RECESSED. NOTES #1 & 2 & 3 & 7
B	MARK KEYSTONE SYLVANIA	AL-14CX-240 2WGR240AL(20G) GWW-PD-2404-SL	2/40W.	RECESSED. NOTES # 2 & 3 & 7
C	ACME-DUNDAR	542-277	2/40W.	SURFACE. NOTE #3.
D	MILLER	IM-2101-04	2/40W.	STEM MT'D. (SELF-ALIGNING) TO CLEAR ALL PIPING & DUCT WORK. NOTE #3.
E	ART METAL	M12-100/CR4	100W. MERC. VAPOR	RECESSED. NOTE #3.
F	HOLOPHANE	410-277	100W. MERC. VAPOR	WALL MT'D. (UP 8'-0"). NOTE #3.
G	MARK	AL-SM44-G40	G/40W.	SURFACE MT'D. NOTES #4 & 5 & 2
H	ART METAL	7490	75W. FLOOD	RECESSED.
J	TORK	MODEL 430	2/18W. HEADS	WALL MT'D. BOTTOM OF UNIT UP 8'-0" A.F.F. (U.O.N.)
X1	ART METAL	E-WR-1	20W. T G½	BACK MT'D. - NOTE #6
X2	ART METAL	E-WR-2C	20W. T G½	CEILING MT'D. W/ARROWS. NOTE #6
K	KIM	B4-211/PB-11T/SA/TMV-55H	250W. MERC. VAPOR	FIXTURE TO MATCH EXISTING.
L	MARCO	B201G	200W	WALL MT'D. @ 7'-0"
X3	ART METAL	E-WR-1C	20W. T G½	CEILING MT'D. SEE NOTE Nº6

LIGHTING FIXTURE NOTES

1. FIXTURES SHALL BE FACTORY WIRED FOR SEPARATE SWITCHING OF LAMPS. OUTSIDE LAMPS ON ONE SWITCH, INSIDE LAMPS ON ONE SWITCH.
2. FIXTURES SHALL BE SUPPLIED WITH AMERICAN LOUVER CO LENS Nº 49-2448.
3. ALL FLUORESCENT AND MERCURY VAPOR FIXTURES SHALL BE WIRED FOR 277 VOLT SERVICE.
4. FIXTURE SIDES AND DOOR FRAME SHALL HAVE MATTE BLACK FINISH. LENS TO BE 2-2'x4' W/ MATTE BLACK "T" BAR SEPARATOR.
5. FIXTURES SHALL BE FACTORY WIRED FOR SEPARATE SWITCHING OF LAMPS. LAMPS Nº 1, 3, 4 & 6 ON ONE SWITCH, LAMPS Nº 2 & 5 ON ONE SWITCH.
6. ALL EXIT FIXTURES SHALL HAVE EXTENDED LAMP LIFE (50,000 HRS) AND BE WIRED FOR 277 VOLT SERVICE.
7. FIXTURE HOUSING SHALL BE 20 GAUGE COLD ROLLED STEEL.

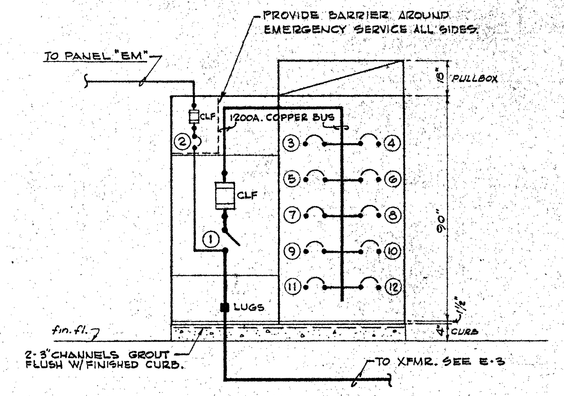
SWITCHBOARD SCHED

MAIN BUS: COPPER, AMP, 3ϕ, 4W.,

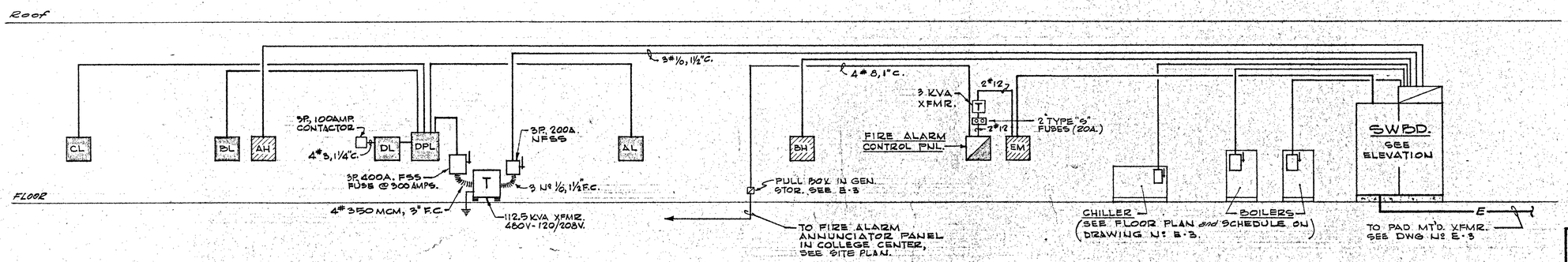
ITEM Nº	CIRCUIT BREAKER POLE	FRAME	TRIP	INTERRUPTING DUTY (SYM)	SERVING	
1	3	1200	1200	200,000	MAIN CIRC. BKR.	NOT.
2	3	100	70	200,000	MAIN EMERG. C/B.	PANI
3	3	600	490	30,000	ELEC. BOILER	
4	3	600	450	30,000	ELEC. BOILER	
5	3	400	325	30,000	CHILLER	
6	3	225	200	30,000	SPARE	
7	3	225	125	30,000	SPARE	
8	3	225	150	30,000	PANEL "DPL"	
9	3	100	100	30,000	PANEL "AH"	
10	3	225	125	30,000	PANEL "BH"	
11	3	225	-	-	SPACE & BUS	
12	3	225	-	-	SPACE & BUS	

SWITCHBOARD NOTES

1. CIRCUIT BREAKERS SHALL BE THE SAME MANUFACTURER AS THE SWITCHBOARD.
2. EACH MAIN SWITCH AND/OR CIRCUIT BREAKER SHALL BE EQUIPPED WITH CAPACITIVE TRIPPING FEATURE.
3. BOLTED PRESSURE SWITCH SHALL BE ELECTRICALLY OPERATED AND BE "UL" LABELED.
4. PROVIDE ANTI-SINGLE PHASING DEVICE & BLOWN FUSE PROTECTION.
5. PROVIDE RAISED RED PLASTIC MIMIC BUS AND ENGRAVED NAMEPLATES (PHENOLIC) FOR EA. CIRCUIT, ATTACHED W/ EPOXY. TAPE IS NOT ACCEPTABLE.
6. PROVIDE "SQUARE D" GROUND FAULT PROTECTION SYSTEM, TYPE GT/GP OR EQUIVALENT.



ELEVATION of SWITCHBOARD
NO SCALE



POWER RISER DIAGRAM
NO SCALE

SEE PANEL SCHEDULES for ADDITIONAL FEEDER SIZES.

538A

PROJ. JF
ARCH. JF
DRAWN JF

JOHANNES & MURRAY & ASSOCIATES
REGISTERED ARCHITECTS
SILVER SPRING, MARYLAND
855 PERSHING DRIVE JU 5-3792

JAMES D. SULLIVAN STRUCTURAL ENGINEER
J.D. WOLF & ASSOC. MECHANICAL ENGINEER
HARRY G. FULFORD ELECTRICAL ENGINEER

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JOB 5485
SHEET E-4 OF E-4
DATE 3-1-77