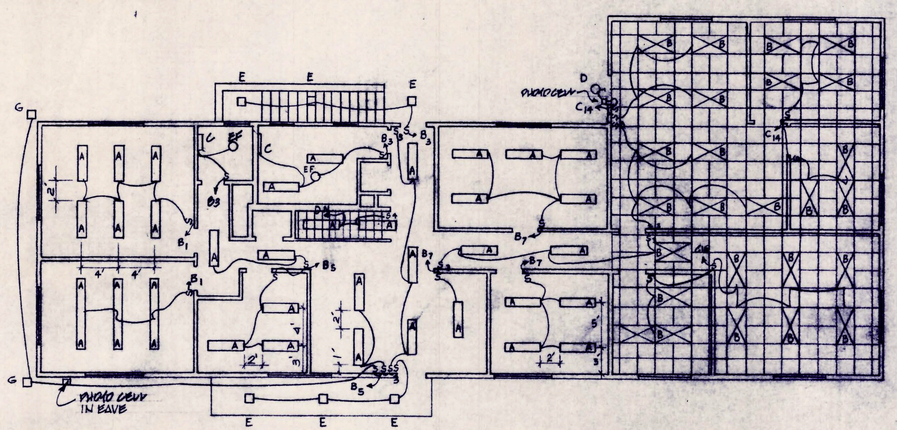
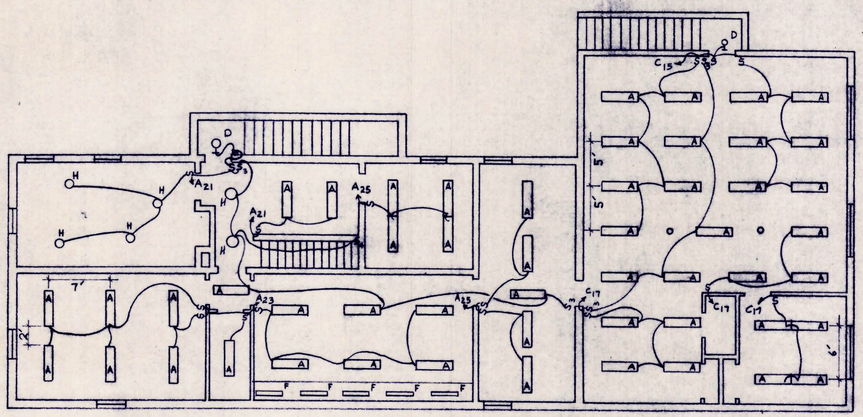
AF 39468



1ST FLOOR

LIGHTING PLAN



BASEMENT

LIGHTING PLAN

LIGHT FIXTURE SCHEDULE

SYMBOL	TYPE	MANUFACTURER & MODEL	LAMPS	
A	FLUOR	LITHONIA WA240A 120	2-F40CW/RS/WM	1
B	FLUOR	LITHONIA SPG240A 12	2-F40CW/RS/WM	2
C	FLUOR	LITHONIA W230 120	2-F30T12/CW/RS	3
D	INCAN	PROGRESS 5691-60	1-60W A/Y	4
E	INCAN		1-60W A/Y	5
F	FLUOR	PROGRESS 7008	1-F30T12/CW/RS	6
G	HPS	KENALL 5020	1-70W MED-HPS	7
H	INCAN		1-100W A 19	5

NOTES:

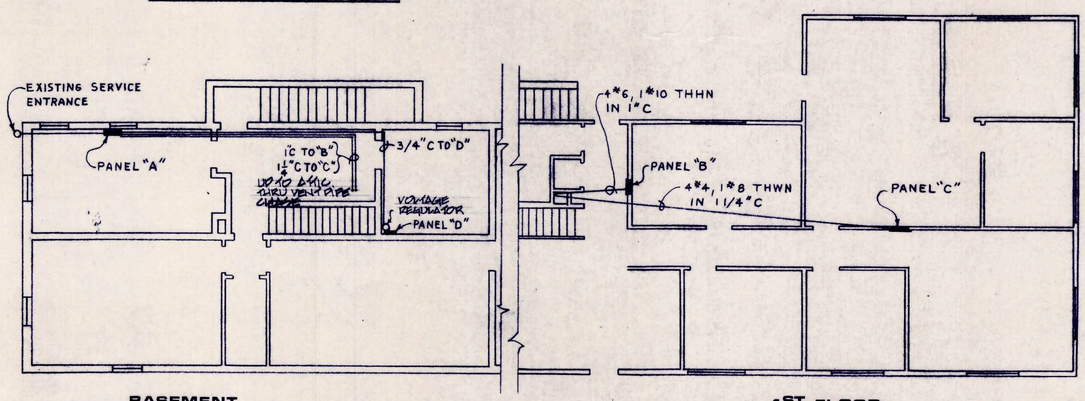
1. Ceiling mounted.
2. Lay in troffer.
3. Wall mounted above mirrow and lavatory.
4. Wall mounted above exterior doors.. Control with photocel. RIDLEY #1001
5. Existing fixtures to be reused.
6. Mount under wall cabinets over work stations. Control each light with separate wall switch at each station.
7. Have mounted control with photocel. RIDLEY #1001 OR EQUAL

EQUIPMENT

UH - UNIT HEATER SHALL BE CEILING MTD. 1500 WATT RADIANT HEATER WITH CIRCULATING FAN. UNIT SHALL BE CONTROLLED WITH WALL MTD. LINE VOLTAGE THERMOSTAT WITH A MINIMUM RANGE OF 35°F TO 50°F. SET THERMOSTAT FOR 40°F. UNIT SHALL BE EMERSON-CHROMALOX H5014 WITH M-62 THERMOSTAT.

WATER HEATER SHALL BE 10 GAL 1500 WATT 120V ELECTRIC WATER HEATER. INSTALL HEATER IN MECHANICAL ROOM AND CONNECT TO EXISTING PIPING WHERE OLD HEATER IS REMOVED. UNIT SHALL BE STATE CV-10-1MS-K, OR EQUAL COMPLETE WITH TEMPERATURE AND PRESSURE VALVE.

POWER CONDITIONER SHALL BE RATED FOR 208V INPUT WITH A CAPACITY OF 5 KVA AND AN OUTPUT OF 120/208V. UNIT SHALL BE SQUARE D "TOPAZ" MODEL 61606-02 OR EQUAL.



BASEMENT 1ST FLOOR

POWER DISTRIBUTION

PANEL SCHEDULE: PANEL A

LOCATION: Mechanical Room
SERVICE: 120/208 3ϕ 60h
MAINS: 225A Main Breaker
BRANCHES: 30 Spaces Min.
PANEL MOUNTING: Surface

SERVICE	WIRE SIZE	AMPS	CKT No.	CKT No.	AMPS	WIRE SIZE	SERVICE
CU 3	2#6	22.6	1	2	10.5	2#10	CU 5
	1#10G	22.6	3	4	10.5	1#12G	
CU 4	2#6	33.8	5	6	13.6	3#12	AHU 5
	1#10G	33.8	7	8	13.6		
AHU 3		12.0	9	10	21.3	4#6	Panel B
AHU 4		12.0	11	12	32.4	1#10G	
Recept. Mech. Rm. & Break Area		7.5	13	14	28.4		
Recept. Break A. Microwave		12.0	15	16	55.9	4#4	Panel C
Conference		10.5	17	18	63.4	1#8G	
Storage & Office 6		9.0	19	20	68.0		
Lgt. Mech. Break Isle & Stair		12.6	21	22	20.0	3#8	Panel D Computer Rm.
Lgt. Conf. Off. 6		8.6	23	24	20.0	1#10G	
Lgt. Stor. & Computer Rm.		5.8	25	26	13.0		Unit Heater Mech. Rm.
RECEPT., TECH. WORK STATION		7.5	27	28	14.3		Water Heater
			29	30			

ABC: 45/2, 20/2, 50/2, 20/2, 50/3, 20/2, 50/3, 20/2

Notes:

1. Panel shall be Square "D" QO or equal complete with NEMA 1 enclosure and separate ground bar kit
2. Unless otherwise specified all breakers will be 20/1 with 3#12 wires.
3. Install lightning arrestor and run new #2 Cu ground wire to new ground rod driven outside the building.

PANEL SCHEDULE: PANEL B

LOCATION: First Floor Hall
SERVICE: 120/208 3ϕ 60h
MAINS: 100A MLO
BRANCHES: 16 Spaces Min.
PANEL MOUNTING: Flush

SERVICE	WIRE SIZE	AMPS	CKT No.	CKT No.	AMPS	WIRE SIZE	SERVICE
Lgt. RCR, Off. 5		8.7	1	2	9.0		Recept. Rgr
Toilets & Rear Ent.		8.9	3	4	9.0		Off. 5 & Toilets
For., Recept., FRONT ENT, HALL		8.8	5	6	5.0		Drink F. (EXISTING)
EMA. Hall, Off. 1, WAITING		8.7	7	8	6.0		Off. 1
			9	10	10.5		Recept.
			11	12	7.5		EMA, OFFICE 5
			13	14			
			15	16			

BCA

Notes:

1. Panel shall be Square "D" QO or equal complete with separate ground bar kit and NEMA 1 enclosure.
2. All breakers to be 20/1 with 3#12 wire.

PANEL SCHEDULE: PANEL C

LOCATION: 1st Floor Hall New Addition
SERVICE: 120/208 3ϕ 60h
MAINS: 100A M.L.O.
BRANCHES: 20 Spaces Min.
PANEL MOUNTING: Flush

SERVICE	WIRE SIZE	AMPS	CKT No.	CKT No.	AMPS	WIRE SIZE	SERVICE
Recept. Off. 3 & 4		9.0	1	2	11.4	3#12	CU 1
Off. 4 FOR. TECH., REC.		9.0	3	4	11.4		
REC., RES. FOR.		9.0	5	6	22.6	3#10	CU 2
Resource For., FOR. TECH.		7.5	7	8	22.6	1#12G	
Zone Office		9.0	9	10	12.0		AHU 1
Zone Office		9.0	11	12	12.0		AHU 2
Zone Engineer		6.0	13	14	11.5		Lgt. 1st FL.
Lgt. Basement		8.7	15	16	5.8		Lgt. 1st. FL
Lgt. Basement		10.8	17	18			
			19	20			

BCA: 20/2, 45/2

Notes:

1. Panel shall be Square "D" QO or equal complete with separate ground bar kit and NEMA 1 enclosure.
2. Unless otherwise specified all breakers shall be 20/1 with 3#12 wire.

PANEL SCHEDULE: PANEL D

LOCATION: Computer Room
SERVICE: 120/208 1ϕ 60h
MAINS: 100 A MLO
BRANCHES: 12 Spaces Min.
PANEL MOUNTING: Surface

SERVICE	WIRE SIZE	AMPS	CKT No.	CKT No.	AMPS	WIRE SIZE	SERVICE
CPU	3#10	12.0	1	2			Back Fed. Shunt
	1#12G	12.0	3	4			Trip Main Breaker
Recept.	3#12	4.0	5	6			3 Spaces
Recept.	3#12	4.0	7	8			"
Recept.	3#12	4.0	9	10			"
			11	12			

B C: 30/2, 40/2, 20/1, 20/1, 20/1

Notes:

1. Panel shall be Square "D" QO or equal complete with NEMA 1 enclosure and separate ground bar kit.

U.S. DEPARTMENT OF AGRICULTURE FOREST SERVICE REGION 8	DESIGNED ACK CHECKED DRAWN BJS CHECKED	APPROVED REG. ENG. ASST. REG. ENG.	LONDON RANGER OFFICE ADDITION

LIGHTING	DATE APR. 15, 1987 DRAWING No B-8609	SHEET E1 OF 2