ELECTRICAL SYMBOLS

LIGHTING CONTROL	DESCRIPTION	MOUNTING
	SWITCH, WHERE "X" CAN BE ONE OF THE FOLLOWING: 2 = DOUBLE POLE 3 = THREE WAY 4 = FOUR WAY K = KEYED LV = LOW VOLTAGE SENSOR/POWER PACK INTERFACE MC = MOMENTARY WITH RTC OS = OCCUPANCY SENSOR (blank) = SINGLE POLE	
	DIMMER SWITCH, OPERATING WATTAGE INDICATED	46"
DT	CEILING MOUNTED OCCUPANCY SENSOR. DT = DUAL TECHNOLOGY	
	DAYLIGHT SENSOR	CEILING

DESIGN PRESENTATION	DESCRIPTION
2	KEY NOTE, REFER TO LIST OF KEY NOTES ON THE SAME PLAN
2	DRAWING REVISION NOTE
	CONCEALED RACEWAY
	RACEWAY INSTALLED BELOW FINISHED GRADE/UNDER SLAB

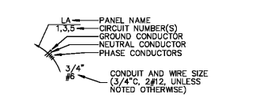
WIRING DEVICE	DESCRIPTION	MOUNTING
	RECEPTACLE OPTIONS DENOTED BY "X", WHERE "X" CAN BE ONE OF THE FOLLOWING: DG = DEDICATED GROUND GFI = GROUND FAULT INTERRUPTER WP = WEATHERPROOF USB= COMBINATION USB/RECEPTACLE DEVICE (blank) = STANDARD RECEPTACLE	
	DUPLEX RECEPTACLE, NORMAL POWER	18"
	FOURPLEX RECEPTACLE	18"
	FLOOR OUTLET BOX POWER, VOICE AND/OR DATA	
	DISCONNECT SWITCH, NON-FUSED	
	DISCONNECT SWITCH, FUSED	
MMS	MOTOR STARTER SWITCH	54"
EQ	EQUIPMENT TAG	
	208/120 VOLT PANELBOARD	
	480/277 VOLT PANELBOARD	
	ANNUNCIATOR PANEL	

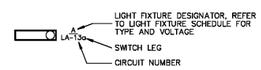
MISCELLANEOUS	DESCRIPTION	MOUNTING
	JUNCTION BOX, RECESSED WALL	
	JUNCTION BOX, RECESSED CEILING	
T	LINE VOLTAGE THERMOSTAT	58"
	PUSHBUTTON	46"
TS	TIME SWITCH	
C	CONTACTOR	
	COAX / TV OUTLET	

COMMUNICATIONS	DESCRIPTIONS	MOUNTING
	DATA - WALL	18"
	TELEPHONE - WALL	18"
V	VOLUME CONTROL	42"

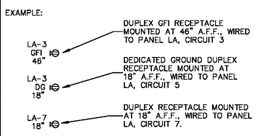
FIRE ALARM	DESCRIPTION	MOUNTING
	FIRE ALARM DEVICE, WHERE "X" CAN BE ONE OF THE FOLLOWING:	
(blank)	FIRE ALARM MANUAL PULL STATION	46"
K	FIRE ALARM MANUAL KEYED STATION	46"
I	IONIZATION DETECTOR	
H	THERMAL DETECTOR	
P	PHOTOELECTRIC SMOKE DETECTOR	
DS	DUCT SMOKE DETECTOR	
FL	SPRINKLER VALVE FLOW SWITCH	
RB	ROTATING BEACON	
MM	MONITOR MODULE	
CM	CONTROL MODULE	
D	MAGNETIC DOOR HOLDER	
MR	SHUTTER/ROLLING DOOR RELEASE	
TS	DUCT DETECTOR REMOTE TEST STATION	80"
VDT	VIDEO DISPLAY TERMINAL & KEYBOARD	
PR	SYSTEM EVENT PRINTER	
	FIRE ALARM STROBE	90" OR 6" BELOW FINISHED CEILING WHICH EVER IS LOWER
H	FIRE ALARM HORN WITH STROBE	90" OR 6" BELOW FINISHED CEILING WHICH EVER IS LOWER
S	FIRE ALARM SPEAKER WITH STROBE	90" OR 6" BELOW FINISHED CEILING WHICH EVER IS LOWER
F	FIREFIGHTER PHONE JACK	46"
	FIRE ALARM BELL	80"
TS	TAMPER SWITCH	
FL	FLOW SWITCH	

BRANCH CIRCUITING





EXAMPLE:



ELECTRICAL SHEET INDEX

E0.0 - ELECTRICAL SCHEDULES AND POWER RISER DIGRAM
E1.0 - LIGHTING PLAN
E2.0 - POWER PLAN
E3.0 - ELECTRICAL SPECIFICATIONS

EXISTING PANEL LB

Location: Stockroom — 208/120 Volt, 3ø, 4w
Mounting: Surface — Main: LUGS 200A

Circuit Description	KVA	CB	NO.	NOTE	A	B	C	NOTE	NO.	CB	KVA	Circuit Description
ACCU-1	2.5	40/2	1	B	X			B	2	15/1	1.4	AHU-1
	2.5		3			X		B	4	15/1	1.4	AHU-2
ACCU-2	2.5	40/2	5	B			X	B	6	15/1	1.4	AHU-3
	2.5		7	B	X			B	8	15/1	1.4	AHU-4
ACCU-3	2.5	40/2	9	B		X		B	10	15/1	1.4	AHU-5
	2.5		11				X	B	12	15/1	1.4	AHU-6
ACCU-4	2.5	40/2	13	B	X			B	14	15/1	1.4	AHU-7
	2.5		15			X		A	16	20/1	1.3	RECEPTACLES AT ROOFTOP UNITS
ACCU-5	2.5	40/2	17	B			X	A	18	20/1	1.3	RECEPTACLES AT AIR HANDLING UNITS
	2.5		19		X				20	20/1	1.5	WATER HEATER (EWH-1)
ACCU-6	2.5	40/2	21	B		X		C	22	20/1		SPARE
	2.5		23				X	C	24	20/1		SPARE
SPARE		20/1	25		X			A	26	20/1	0.7	DUCT SMOKE DETECTORS
ACCU-7	2.5	40/2	27	B		X		C	28	20/1	0.1	MOTORIZED DAMPER
	2.5		29				X	C	30	20/2		SPARE
SPARE		20/2	31	C	X				32			SPARE
			33			X		C	34	20/2		SPARE
SPARE		15/1	35	C			X		36			SPARE
SPACE			37		X				38			SPACE
SPACE			39			X			40			SPACE
SPACE			41				X		42			SPACE
					A	B	C					
CONNECTED KVA:	49.7				16.4	16.7	16.6					DESIGN DEMAND KVA: 51.0
CONNECTED HIGH PHASE AMPS:	139.2											DESIGN DEMAND AMPS: 141.5

PANEL LB - LOAD SUMMARY

	CONNECTED KVA	DESIGN FACTOR	DESIGN DEMAND KVA
LIGHTING	0.0	1.25	0.0
RECEPTACLES	2.8	1.0	2.8
SIGN	0.0	1.25	0.0
WATER HEATER	1.5	1.0	1.5
HVAC - LARGEST	5.0	1.25	6.3
HVAC - REMAINING	39.8	1.0	39.8
HVAC - NON COINCIDENT	0.0	1.0	0.0
MISCELLANEOUS	0.6	1.0	0.6
TOTAL KVA:	49.7		51.0
TOTAL AMPS:	139.1		141.5

EXISTING PANEL LA

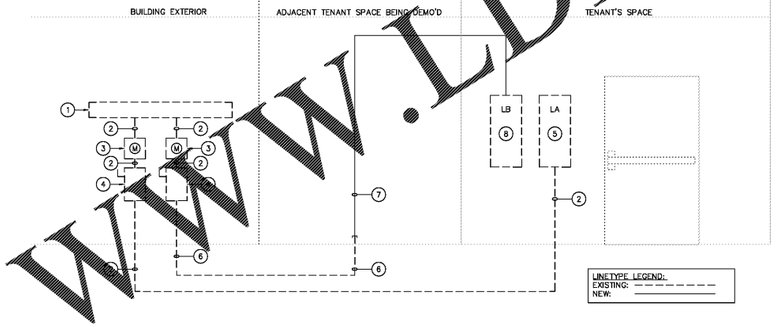
Location: Stockroom — 208/120 Volt, 3ø, 4w
Mounting: Surface — Main: LUGS 200A

Circuit Description	KVA	CB	NO.	NOTE	A	B	C	NOTE	NO.	CB	KVA	Circuit Description
EXIT / EMERGENCY LIGHTING	0.6	20/1	1	A	X				2	20/1	1.0	DRINKING FTN./R.R. GFI RECEPTS.
SHOW WINDOW RECEPTACLES	0.8	20/1	3			X			4	20/1	1.0	MICROWAVE
SHOW WINDOW RECEPTACLES	0.6	20/1	5				X		6	20/1	0.6	REFRIGERATOR
SHOW WINDOW RECEPTACLES	0.6	20/1	7		X				8	20/1		SPARE
STOREFRONT LIGHTING	0.7	20/1	9			X			10	20/1	0.4	SECURITY SYSTEM
SALES LIGHTING	1.3	20/1	11				X	A	12	20/1	0.4	SECURITY SYSTEM
SALES LIGHTING	0.8	20/1	13		X				14	20/1	0.2	TELEPHONE BOARD RECEPTACLE
SALES LIGHTING	1.3	20/1	15			X			16	20/1	0.2	MANAGER DESK
TRACK LIGHTING	0.5	20/1	17				X		18	20/1		SPARE
TRACK LIGHTING	1.0	20/1	19		X			A	20	20/1	0.4	NETWORK RACK
TRACK LIGHTING	0.5	20/1	21			X			22	20/1	0.4	NETWORK RACK
TRACK LIGHTING	0.5	20/1	23				X		24	20/1	0.4	CASH WRAP
RESTROOM LIGHTING / EXHAUST FANS	0.2	20/1	25		X				26	20/1	0.4	CASH WRAP
STOCKROOM / LAYAWAY LIGHTING	1.0	20/1	27			X			28	20/1	0.4	BACK WRAP RECPETACLE
STOREFRONT EXTERIOR SIGNAGE	1.2	20/1	29				X		30	20/1	0.4	VIDEO DISPLAY
SPARE		20/1	31		X				32	20/1	0.4	VIDEO DISPLAY
SPARE		20/1	33			X			34	20/1	0.4	VIDEO DISPLAY
SPARE		20/1	35				X		36	20/1		SPARE
SPARE		20/1	37		X				38	20/1		SPARE
SPARE		20/1	39			X			40	20/1		SPARE
TIME SWITCH / CONTACTORS	0.2	20/1	41	A			X		42	20/1		SPACE
					A	B	C					
CONNECTED KVA:	18.6				5.6	6.8	6.1					DESIGN DEMAND KVA: 21.0
CONNECTED HIGH PHASE AMPS:	57.5											DESIGN DEMAND AMPS: 58.3

PANEL NOTES:
A - PROVIDE CIRCUIT BREAKER WITH LOCK-ON DEVICE.
B - PROVIDE HACR TYPE CIRCUIT BREAKER.
C - EXISTING CIRCUIT BREAKER TO REMAIN
BALANCE PHASE LOADS TO WITHIN 10% OF EACH OTHER.

TENANT LOAD SUMMARY

	CONNECTED KVA	DESIGN FACTOR	DESIGN DEMAND KVA
LIGHTING	8.4	1.25	10.5
RECEPTACLES	6.0	1.0	6.0
SIGN	1.2	1.25	1.5
WATER HEATER	0.0	1.0	0.0
HVAC - LARGEST	0.0	1.25	0.0
HVAC - REMAINING	0.0	1.0	0.0
HVAC - NON COINCIDENT	0.0	1.0	0.0
MISCELLANEOUS	3.1	1.0	3.1
TOTAL KVA:	18.6		21.0
TOTAL AMPS:	51.7		58.3



LINETYPE LEGEND:
EXISTING: — — — — — —
NEW: ————————

1 POWER RISER DIAGRAM
NTS

RISER DIAGRAM NOTES

1. EXISTING LANDLORD 120/208V, 3PH, 4W ELECTRICAL DISTRIBUTION.
2. EXISTING 2"C.-4#3/0, 1#6 GROUND. FIELD VERIFY PRIOR TO BID.
3. EXISTING TENANT METERING EQUIPMENT TO REMAIN AND BE REUSED.
4. EXISTING 200A/3P DISCONNECT SWITCH WITH (3)200A FUSES TO REMAIN AND BE REUSED. FIELD VERIFY FUSE SIZES PRIOR TO BID.
5. EXISTING ELECTRICAL PANEL 'LA' TO REMAIN AND BE REUSED. REFER TO PANEL SCHEDULES THIS SHEET FOR ADDITIONAL INFORMATION.
6. EXISTING 2"C.-4#3/0, 1#6 GROUND STUBBED INTO ADJACENT TENANT SPACE.
7. TENANT'S ELECTRICAL CONTRACTOR TO INTERCEPT AND EXTEND 2"C.-4#3/0, 1#6 GROUND FROM EXISTING STUB-IN LOCATION TO RELOCATED TENANT PANEL 'LB'.
8. TENANT'S ELECTRICAL CONTRACTOR TO RELOCATE EXISTING ELECTRICAL PANEL 'LB' FROM ADJACENT TENANT SPACE BEING DEMOLISHED. REFER TO PANEL SCHEDULES THIS SHEET FOR ADDITIONAL INFORMATION.

NOTE:
ELECTRICAL SYSTEM SHALL BE GROUNDED AND BONDED PER NEC REQUIREMENTS AND AUTHORITY HAVING JURISDICTION.

MECHANICAL EQUIPMENT SCHEDULE

EQUIPMENT TAG	EQUIPMENT NAME	VOLT/ PHASE	MCA	MOCP	HP	KW			DISC. BY DISC. SIZE	DISC. TYPE DISC. LOCATION	PANEL	CIRCUIT NUMBER	FUSE SIZE
ACCU-1	CONDENSING UNIT	208/1	24	40			3/4"C-2#8 1#10 GND.	DIVISION 15	DIVISION 16 30A/2P	NEMA 3R AT UNIT	LB	1,3	NA
ACCU-2	CONDENSING UNIT	208/1	24	40			3/4"C-2#8 1#10 GND.	DIVISION 15	DIVISION 16 30A/2P	NEMA 3R AT UNIT	LB	5,7	NA
ACCU-3	CONDENSING UNIT	208/1	24	40			3/4"C-2#8 1#10 GND.	DIVISION 15	DIVISION 16 30A/2P	NEMA 3R AT UNIT	LB	9,11	NA
ACCU-4	CONDENSING UNIT	208/1	24	40			3/4"C-2#8 1#10 GND.	DIVISION 15	DIVISION 16 30A/2P	NEMA 3R AT UNIT	LB	13,15	NA
ACCU-5	CONDENSING UNIT	208/1	24	40			3/4"C-2#8 1#10 GND.	DIVISION 15	DIVISION 16 30A/2P	NEMA 3R AT UNIT	LB	17,19	NA
ACCU-6	CONDENSING UNIT	208/1	24	40			3/4"C-2#8 1#10 GND.	DIVISION 15	DIVISION 16 30A/2P	NEMA 3R AT UNIT	LB	21,23	NA
ACCU-7	CONDENSING UNIT	208/1	24	40			3/4"C-2#8 1#10 GND.	DIVISION 15	DIVISION 16 30A/2P	NEMA 3R AT UNIT	LB	27,29	NA
AHU-1	AIR HANDLING UNIT	120/1	11.3	15			3/4"C-2#12 1#12 GND.	DIVISION 15	DIVISION 16 30A/1P	NEMA 1 AT UNIT	LB	2	NA
AHU-2	AIR HANDLING UNIT	120/1	11.3	15			3/4"C-2#12 1#12 GND.	DIVISION 15	DIVISION 16 30A/1P	NEMA 1 AT UNIT	LB	4	NA
AHU-3	AIR HANDLING UNIT	120/1	11.3	15			3/4"C-2#12 1#12 GND.	DIVISION 15	DIVISION 16 30A/1P	NEMA 1 AT UNIT	LB	6	NA
AHU-4	AIR HANDLING UNIT	120/1	11.3	15			3/4"C-2#12 1#12 GND.	DIVISION 15	DIVISION 16 30A/1P	NEMA 1 AT UNIT	LB	8	NA
AHU-5	AIR HANDLING UNIT	120/1	11.3	15			3/4"C-2#12 1#12 GND.	DIVISION 15	DIVISION 16 30A/1P	NEMA 1 AT UNIT	LB	10	NA
AHU-6	AIR HANDLING UNIT	120/1	11.3	15			3/4"C-2#12 1#12 GND.	DIVISION 15	DIVISION 16 30A/1P	NEMA 1 AT UNIT	LB	12	NA
AHU-7	AIR HANDLING UNIT	120/1	11.3	15			3/4"C-2#12 1#12 GND.	DIVISION 15	DIVISION 16 30A/1P	NEMA 1 AT UNIT	LB	14	NA
EWH-1	WATER HEATER	120/1				1.5	3/4"C-2#12, 1#12 GND.	-	DIVISION 16 30A/1P	NEMA 1 AT UNIT	LB	20	NA

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(651) 748-1100 Fax (651) 748-8370

lga PARTNERS
1426 Portion Ave., Suite 400 Pittsburgh, PA 15219
P 412.263.2620 F 412.263.4042

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ELECTRICAL SCHEDULES & POWER RISER DIAGRAM

E0.0