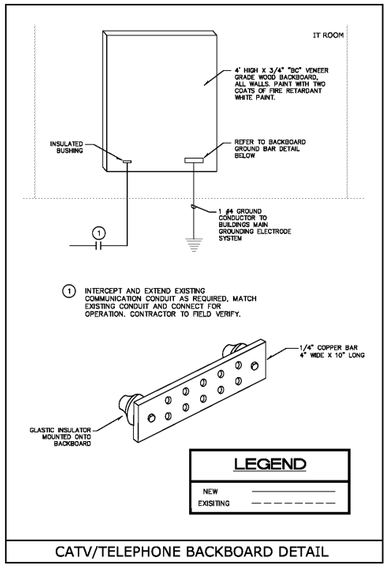


CATV/TELEPHONE BACKBOARD DETAIL

BRANCH CIRCUIT PANEL KEY NOTES

1. EXISTING BRANCH CIRCUIT WIRING AND CIRCUIT BREAKER TO REMAIN.
2. PROVIDE NEW BRANCH CIRCUIT WIRING AS INDICATED, CONNECT TO EXISTING SPARE CIRCUIT BREAKER.
3. PROVIDE NEW CIRCUIT BREAKER AS INDICATED, INSTALL IN EXISTING SPACE IN PANEL AND CONNECT NEW BRANCH CIRCUIT FOR OPERATION.
4. REFER TO VOLTAGE DROP CHART FOR CONDUCTOR SIZES.
5. EXISTING BRANCH CIRCUIT WITH LOAD MODIFIED FOR THIS PROJECT.
6. PROVIDE CIRCUIT BREAKER WITH SHUNT TRIP AND CONTROL WIRING THRU AUXILIARY CONTACTS OF HEAT DETECTOR(S) AS REQUIRED.
7. COORDINATE BRANCH FEEDER AND CIRCUIT BREAKER REQUIREMENT WITH ELEVATOR PROVIDER PRIOR TO ORDERING.

MECHANICAL EQUIPMENT-ELECTRICAL SCHEDULE

EQUIPMENT TAG	BRANCH CIRCUIT	DISCONNECT SWITCH * FRAME	DISCONNECT SWITCH * FUSE	MOTOR STARTER* POLES	MOTOR STARTER* NEMA SIZE	NOTES
CU/AHU-1	L2A-1,3	30	2	2	–	1
CU/AHU-2	L2A-5,7	30	2	2	–	1
CU/AHU-3	L2A-9,11	30	2	2	–	1
AHU-4	L2A-13,15,17	60	2	3	–	
AHU-5	L2A-19,21,23	60	2	3	–	
AHU-6	L2A-25,27	60	2	2	–	
CU-4	L2A-6,8	60	2	2	–	1
CU-5	L2A-10,12	60	2	2	–	1
CU-6	L2A-14,16	30	2	2	–	1
DSS-1	L2A-2,4	30	2	2	–	1 2 6
RTU-1	HA-1,3,5	30	2	3	–	1
RTU-2	HC-14,16,18	30	2	3	–	1
RTU-3	HA-7,9,11	30	2	3	–	1
RTU-4	HA-2,4,6	30	2	3	–	1
RTU-5	HC-20,22,24	30	2	3	–	1
RTU-6	HA-13,15,17	30	2	3	–	1
RTU-7	HA-8,10,12	30	2	3	–	1
RH-1	LD-12	30	–	1	–	2
RH-2	LD-12	30	–	1	–	2
RH-3	LD-12	30	–	1	–	2
RH-4	LD-12	30	–	1	–	2
H-1	LD-2,4	30	–	2	–	2
EF-1	LOCAL LIGHTING CIRCUIT	–	–	–	–	4
EF-2	LOCAL LIGHTING CIRCUIT	–	–	–	–	4
EF-3	LOCAL LIGHTING CIRCUIT	–	–	–	–	4
EF-4	L2A-18	–	–	–	–	4
P-1	LD-10	–	–	–	–	7
EWH	LD-8,8	30	–	2	–	2
RP-1	LC-4	–	–	–	–	7

KEY NOTES:
1. PROVIDE NEMA 3R ENCLOSURE.
2. PROVIDE FUSES AS RECOMMENDED BY EQUIPMENT MANUFACTURER OR NAMEPLATE RATING.
3. PROVIDE MOTOR RATED SWITCH. MOUNT SWITCH ADJACENT TO UNIT.
4. CONTROL FAN WITH LOCAL LIGHT SWITCH / MOTION SENSOR IN ROOM. FOR 277 VOLT LIGHTING BRANCH CIRCUIT, PROVIDE STEP DOWN TRANSFORMER AND CONNECT FOR OPERATION.
5. WIRE CIRCUIT TO FAN FOR CONTINUOUS OPERATION.
6. WIRE CIRCUIT FROM BREAKER TO CONDENSING UNIT DISCONNECT. WIRE ASSOCIATED AIR HANDLING UNIT FROM CONDENSING UNIT TERMINAL BLOCK COORDINATE WITH MECHANICAL EQUIPMENT. PROVIDE MOTOR RATED SWITCH ADJACENT TO AHU FOR LOCAL DISCONNECTING MEANS.
7. PROVIDE RECEPTACLE FOR CONNECTION TO PUMP AS REQUIRED.

GENERAL ROOF CU / DSS DISCONNECT MOUNTING NOTE:
CONTRACTOR TO PROVIDE INDEPENDENT MOUNTING FROM ROOF STRUCTURE, SEPARATE FROM CU/DSS, WITH UNISTRUT OR OTHER APPROVED METHOD FOR LOCAL DISCONNECT SWITCHES AS REQUIRED.

* DISCONNECT / MOTOR STARTER TO BE PROVIDED BY THIS CONTRACTOR.

LOAD SUMMARY-ELECTRICAL SERVICE

RECEPTACLE LOAD (175 REC. AT 180VA)	=	31.5	KVA
GENERAL LIGHTING PER 220-12 (17,560 SQ. FT. X 3.5W/SQ. FT.) (11,513 SQ. FT. X 1.0W/SQ. FT.)	=	73.0	KVA
BUILDING SIGNAGE	=	4.8	KVA
EXISTING SITE LIGHTING	=	52.0	KVA
MECHANICAL LOAD (LARGEST MOTOR 10 HP) (LARGEST UNIT 5 TON)	=	125.0	KVA
WATER HEATERS	=	4.5	KVA
ELEVATOR (EST 15HP)	=	18.0	KVA
SERVICE EQUIPMENT	=	98.0	KVA

DIVERSIFICATION PER NEC ART. 220-44:

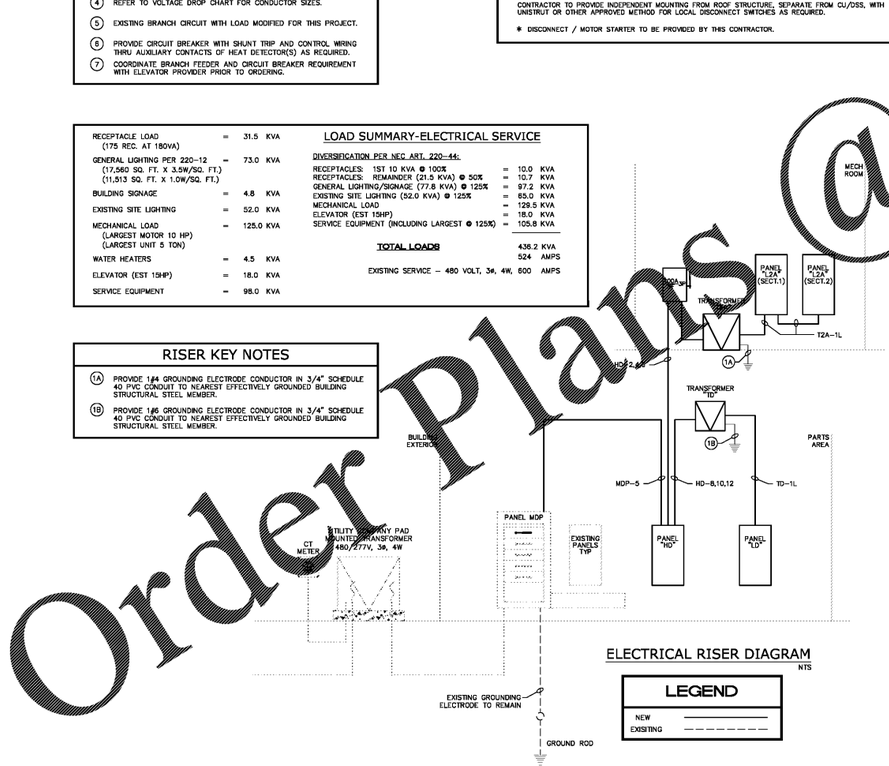
RECEPTACLES: 1ST 10 KVA @ 100%	=	10.0 KVA
RECEPTACLES: REMAINDER (21.5 KVA) @ 50%	=	10.7 KVA
GENERAL LIGHTING/SIGNAGE (77.8 KVA) @ 125%	=	97.2 KVA
EXISTING SITE LIGHTING (52.0 KVA) @ 125%	=	65.0 KVA
MECHANICAL LOAD	=	129.5 KVA
ELEVATOR (EST 15HP)	=	18.0 KVA
SERVICE EQUIPMENT (INCLUDING LARGEST @ 125%)	=	105.8 KVA
TOTAL LOADS		436.2 KVA
		524 AMPS

EXISTING SERVICE – 480 VOLT, 3Ø, 4W, 600 AMPS

RISER KEY NOTES

1A. PROVIDE 1#4 GROUNDING ELECTRODE CONDUCTOR IN 3/4" SCHEDULE 40 PVC CONDUIT TO NEAREST EFFECTIVELY GROUNDED BUILDING STRUCTURAL STEEL MEMBER.

1B. PROVIDE 1#6 GROUNDING ELECTRODE CONDUCTOR IN 3/4" SCHEDULE 40 PVC CONDUIT TO NEAREST EFFECTIVELY GROUNDED BUILDING STRUCTURAL STEEL MEMBER.



ELECTRICAL RISER DIAGRAM
NTS

LEGEND
NEW
EXISTING

SCHEDULE OF EXISTING BRANCH CIRCUIT PANEL

"SIGN"

PANEL SPECIFICATIONS: EXISTING 125 AMP MAIN LUGS ONLY SURFACE MOUNTED

AIC SYMMETRICAL: EXISTING

VOLTAGE: 240/120V, 1Ø, 3 WIRE

WIRE	GROUND	CONDUIT	BREAKER	CIRCUIT	A PHASE KVA	B PHASE KVA	C PHASE KVA	CIRCUIT	BREAKER	CONDUIT	GROUND	WIRE	CIRCUIT DESCRIPTION
				1	1.0	1.0		2	–	–	–	–	EXISTING (5)
				3			1.0	4	–	–	–	–	EXISTING (5)
				5	1.0	–		6	–	–	–	–	SPACE
				7		1.0	–	8	–	–	–	–	SPACE
				9	1.0	–		10	–	–	–	–	SPACE
				11			1.0	12	–	–	–	–	SPACE
					4.0	4.0		KVA TOTAL PER PHASE					
					33	33		AMPS TOTAL PER PHASE					
					8.0			KVA TOTAL					

SCHEDULE OF BRANCH CIRCUIT PANEL

"L2A" SECTION #1

PANEL SPECIFICATIONS: SQUARE D "NQ" SERIES 200 AMP MAIN CIRCUIT BREAKER WITH FEED THRU LUGS RECESSED MOUNTED

AIC SYMMETRICAL: 10,000

VOLTAGE: 208/120V, 3Ø, 4 WIRE

WIRE	GROUND	CONDUIT	BREAKER	CIRCUIT	A PHASE KVA	B PHASE KVA	C PHASE KVA	CIRCUIT	BREAKER	CONDUIT	GROUND	WIRE	CIRCUIT DESCRIPTION
2#12	1#12	3/4"	20	1	0.4	0.4		2	20	3/4"	1#12	2#12	RECEPT., IT
2#12	1#12	3/4"	20	3			0.4	4	20	3/4"	1#12	2#12	RECEPT., IT
2#12	1#12	3/4"	20	5			0.8	6	20	3/4"	1#12	2#12	RECEPT., IT
2#12	1#12	3/4"	20	7	0.8	–		8	20	–	–	–	SPARE
–	–	–	20	9	–	–		10	20	–	–	–	SPARE
–	–	–	20	11			–	12	20	3/4"	1#12	2#12	RECEPT., RM/FOUNTAIN
2#12	1#12	3/4"	20	13	0.6	0.8		14	20	3/4"	1#12	2#12	RECEPT., BOC
2#12	1#12	3/4"	20	15			0.6	16	20	3/4"	1#12	2#12	RECEPT., BOC
2#12	1#12	3/4"	20	17		0.6	0.8	18	20	3/4"	1#12	2#12	RECEPT., BOC
2#12	1#12	3/4"	20	19	0.6	0.8		20	20	3/4"	1#12	2#12	RECEPT., BOC
2#12	1#12	3/4"	20	21			0.6	22	20	3/4"	1#12	2#12	RECEPT., BOC
2#12	1#12	3/4"	20	23		–	0.8	24	20	3/4"	1#12	2#12	RECEPT., BOC
2#12	1#12	3/4"	20	25	0.6	0.8		26	20	3/4"	1#12	2#12	RECEPT., BOC
2#12	1#12	3/4"	20	27			0.8	28	20	3/4"	1#12	2#12	RECEPT., BOC
2#12	1#12	3/4"	20	29	–	–		SPARE	20	–	–	–	SPARE
2#12	1#12	3/4"	20	31	0.6	0.8		32	20	3/4"	1#12	2#12	RECEPT., TECH RR
				33			0.8	34	20	3/4"	1#12	2#12	RECEPT., TECH LOUNGE
2#12	1#12	3/4"	20	35		0.6	0.8	36	20	3/4"	1#12	2#12	RECEPT., TECH LOUNGE REF
2#12	1#12	3/4"	20	37	0.2	0.8		38	20	3/4"	1#12	2#12	RECEPT., TECH LOUNGE CNTR
–	–	–	20	39	–	–		40	20	–	–	–	SPARE
–	–	–	20	41			–	42	20	–	–	–	SPARE
					8.2	5.8	6.4	KVA TOTAL PER PHASE SECTION 1					
					13.1	13.1	13.1	KVA TOTAL PER PHASE SECTION 2					
					21.3	18.9	19.2	KVA TOTAL PER PHASE					
					177	158	133	AMPS TOTAL PER PHASE					
						56.4		KVA TOTAL					

SCHEDULE OF BRANCH CIRCUIT PANEL

"L2A" SECTION #2

PANEL SPECIFICATIONS: SQUARE D "NQ" SERIES 225 AMP MAIN LUG ONLY RECESSED MOUNTED

AIC SYMMETRICAL: 10,000

VOLTAGE: 208/120V, 3Ø, 4 WIRE

WIRE	GROUND	CONDUIT	BREAKER	CIRCUIT	A PHASE KVA	B PHASE KVA	C PHASE KVA	CIRCUIT	BREAKER	CONDUIT	GROUND	WIRE	CIRCUIT DESCRIPTION
2#12	1#12	3/4"	15	1	0.9	1.0		2					
			15	3			0.9	4					
2#12	1#12	3/4"	15	5		0.9	2.3	6					
			20	7	0.9	2.3		8					
2#12	1#12	3/4"	20	9		1.5	2.3	10					
				11				12					
3#8	1#10	3/4"	50	13	4.9	0.8		14					
				15			0.8	16					
			3	17		4.9	0.1	18					
3#8	1#10	3/4"	50	19	4.9	–		20					
			3	21			4.9	22					
				23				24					
2#8	1#10	3/4"	3	25	3.3	–		26					
				27		3.3		28					
–	–	–	–	29			–	30					
–	–	–	–	31			–	32					
–	–	–	–	33			–	34					
–	–	–	–	35			–	36					
–	–	–	–	37			–	38					
–	–	–	–	39			–	40					
–	–	–	–	41			–	42					
					11.2	9.8	9.1	KVA TOTAL PER PHASE					
					93	83	75	AMPS TOTAL PER PHASE					
						30.1		KVA TOTAL					

( ) = NON-CONCURRENT LOAD

SCHEDULE OF BRANCH CIRCUIT PANEL

"HD"

PANEL SPECIFICATIONS: SQUARE D "NQ" SERIES OR EQUIV. 200 AMP MAIN CIRCUIT BREAKER SURFACE MOUNTED

AIC SYMMETRICAL: 25,000

VOLTAGE: 480/277V, 3Ø, 4 WIRE

WIRE	GROUND	CONDUIT	BREAKER	CIRCUIT	A PHASE KVA	B PHASE KVA	C PHASE KVA	CIRCUIT	BREAKER	CONDUIT	GROUND	WIRE	CIRCUIT DESCRIPTION
				1	21.3			2					
				3			18.9	4					
				5				6	3				
				7	11.2			8	70	1"	1#8	3#4	PANEL "LD" VIA TRANS "TD"
				9		9.8		10					
				11			9.1	12	3				
				13	–	–		14	–	–	–	–	SPACE
				15		–	–	16	–	–	–	–	SPACE
				17			–	18	–	–	–	–	SPACE
				19	–	–		SPACE	–	–	–	–	SPACE
				21		–	–	22	–	–	–	–	SPACE
				23			–	24	–	–	–	–	SPACE
				25	–	–		26	–	–	–	–	SPACE
				27		–	–	28	–	–	–	–	SPACE
				29			–	30	–	–	–	–	SPACE
					32.5	28.7	25.3	KVA TOTAL PER PHASE					
					119	103	91	AMPS TOTAL PER PHASE					
						86.5		KVA TOTAL					

SCHEDULE OF BRANCH CIRCUIT PANEL

"LD"

PANEL SPECIFICATIONS: SQUARE D "NQ" SERIES OR EQUIV. 150 AMP MAIN CIRCUIT BREAKER WITH FEED THRU LUGS SURFACE MOUNTED

AIC SYMMETRICAL: 22,000

VOLTAGE: 208/120V, 3Ø, 4 WIRE

WIRE	GROUND	CONDUIT	BREAKER	CIRCUIT	A PHASE KVA	B PHASE KVA	C PHASE KVA	CIRCUIT	BREAKER	CONDUIT	GROUND	WIRE	CIRCUIT DESCRIPTION
2#12	1#12	3/4"	20	1	1.2	1.5		2	20	3/4"	1#10	2#10	H-1
2#12	1#12	3/4"	20	3			1.2	4					
–	–	–	20	5			–	6	20	3/4"	1#10	2#10	EWH
–	–	–	20	7	–	1.5		8					
–	–	–	20	9			–	10	15	3/4"	1#12	2#12	RECEPT., P-1
–	–	–	20	11		–	0.4	12	15	3/4"	1#12	2#12	RH-1,2,3,4
–	–	–	20	13	–	–		14	–	–	–	–	SPACE
2#12	1#12	3/4"	20	15		0.6	–	16	–	–	–	–	SPACE
2#12	1#12	3/4"	20	17			0.8	18	–	–	–	–	SPACE
2#12	1#12	3/4"	20	19	0.8	–		20	–	–	–	–	SPACE
–	–	–	20	21		–	–	22	–	–	–	–	SPACE
–	–	–	20	23			–	24	–	–	–	–	SPACE
2#12	1#12	3/4"	20	25	0.8	–		26	–	–	–	–	SPACE
2#12	1#12	3/4"	20	27		0.4	–	28	–	–	–	–	SPACE
2#12	1#12	3/4"	20	29			0.4	30	–	–	–	–	SPACE
–	–	–	–	31	–	3.6		32	40	1"	1#10	3#6	EV CAR CHARGER
–	–	–	–	33			3.6	34	–	–	–	–	SPACE
–	–	–	–	35		–	–	36	40	1"	1#10	3#6	EV CAR CHARGER
–	–	–	–	37	–	3.6		38	–	–	–	–	SPACE
–	–	–	–	39			3.6	40	40	3/4"	1#10	3#8	EV CAR CHARGER
–	–	–	–	41		–	3.5	42	–	–	–	–	SPACE
					11.2	9.8	9.1	KVA TOTAL PER PHASE					
					93	83	75	AMPS TOTAL PER PHASE					
						30.1		KVA TOTAL					

SCHEDULE OF DRY-TYPE TRANSFORMERS

MARK	KVA	VOLTAGE PRIMARY	VOLTAGE SECONDARY	MOUNTING	SECONDARY FEEDER MARK	SECONDARY FEEDER BREAKER	SECONDARY FEEDER FEEDER	NOTES
"TD"	45	480 VOLT 3ø,3W	208/120 VOLT 3ø,4W	SUSPENDED	TD-1L	1	4#1/0 & 1#6G IN 2"	
"T2A"	75	480 VOLT 3ø,3W	208/120 VOLT 3ø,4W	FLOOR	T2A-1L	1	4#4/0 & 1#2G IN 2-1/2"	

KEY NOTE:
1. PANEL MAIN BREAKER IS TRANSFORMER SECONDARY BREAKER.

SCHEDULE OF EXISTING BRANCH CIRCUIT PANEL

"HA"

PANEL SPECIFICATIONS: SQUARE D SERIES 225 AMP MAIN LUGS ONLY SURFACE MOUNTED

AIC SYMMETRICAL: EXISTING

VOLTAGE: 480/277V, 3Ø, 4 WIRE

WIRE	GROUND	CONDUIT	BREAKER	CIRCUIT	A PHASE KVA	B PHASE KVA	C PHASE KVA	CIRCUIT	BREAKER	CONDUIT	GROUND	WIRE	CIRCUIT DESCRIPTION
3#8	1#10	3/4"	30	1	4.9	3.3		2	20	3/4"	1#12	2#12	RTU-4 (6)
				3		4.9	3.3	4					
			3	5			4.9	6	3				
3#8	1#10	3/4"	20	7	3.3	2.5		8	20	3/4"	1#12	2#12	RTU-7 (6)
				9		3.3	2.5	10					
			3	11			3.3	12	3				
3#8	1#10	3/4"	20	13	3.3	13.0		14	60	–	–	–	CW BLOWERS (1)
				15		3.3	13.0	16					
			3	17			3.3	18	3				
1	–	–	60	19	13.0	2.0		20	20	–	–	–	EXISTING
				21		13.0	–	22	–	–	–	–	SPACE
			3	23			13.0	24	–	–	–	–	SPACE
					45.3	43.3	43.3	KVA TOTAL PER PHASE					
					164	156	156	AMPS TOTAL PER PHASE					
						131.9		KVA TOTAL					

GENERAL NOTE:
CONTRACTOR TO FIELD VERIFY, EXISTING BRANCH FEEDER CONDUCTORS TO BE MINIMUM OF #3/0 (200A), IF NOT, REPLACE WITH NEW #3/0 CONDUCTORS, REMOVE EXISTING FUSES IN PANEL MDP, PROVIDE 200A FUSES AND CONNECT NEW BRANCH FEEDER FOR OPERATION.

SCHEDULE OF EXISTING BRANCH CIRCUIT PANEL

"HC"

PANEL SPECIFICATIONS: SQUARE D "NQ" SERIES 200 AMP MAIN LUGS ONLY SURFACE MOUNTED

AIC SYMMETRICAL: 10,000

VOLTAGE: 480/277V, 3Ø, 4 WIRE

WIRE	GROUND	CONDUIT	BREAKER	CIRCUIT	A PHASE KVA	B PHASE KVA	C PHASE KVA	CIRCUIT	BREAKER	CONDUIT	GROUND	WIRE	CIRCUIT DESCRIPTION
1	–	–	40	1	6.0	6.0		2	–	–	–	–	A/C (SERVICE) (1)
				3			6.0	4					
			3	5				6					
–	–	–	–	7	–	5.8		8	60	1-1/2"	1#8	3#6	ELEVATOR (3)(4)(7)
–	–	–	–	9		–	5.8	10	3				
–	–	–	–	11			–	12					
–	–	–	–	13	4.9			14	30	3/4"	1#10	3#10	RTU-2 (6)
–	–	–	–	15		–	4.9	16	3				
3	–	–	–	17				18					
3#12	1#12	3/4"	20	19	1.9	4.7		20	30	3/4"	1#10	3#10	RTU-5 (6)
				21			2.9	22	3				
2#12	1#12	3/4"	20	23	3.3	4.7		24					
				25			2.4	26	–	–	–	–	SPACE
2#12	1#12	3/4"	20	27		3.3	–	28	–	–	–	–	SPACE
2#12	1#12	3/4"	20	29			2.0	30	–	–	–	–	SPACE
2#12	1#12	3/4"	20	31	1.6	–		32	–	–	–	–	SPACE
–	–	–	–	33		–	–	34	–	–	–	–	SPACE
–	–	–	–	35	–	–		36	–	–	–	–	SPACE
–	–	–	–	37	–		–	38	–	–	–	–	SPACE
–	–	–	–	39		–	–	40	–	–	–	–	SPACE
–	–	–	–	41	–	–		42	–	–	–	–	SPACE
					33.3	31.0	34.7	KVA TOTAL PER PHASE					
					120	112	125	AMPS TOTAL PER PHASE					
						99.0		KVA TOTAL					

GENERAL NOTE:
CONTRACTOR TO FIELD VERIFY, EXISTING BRANCH FEEDER CONDUCTORS TO BE MINIMUM OF #3/0 (200A), IF NOT, REPLACE WITH NEW #3/0 CONDUCTORS, REMOVE EXISTING FUSES IN PANEL MDP, PROVIDE 200A FUSES AND CONNECT NEW BRANCH FEEDER FOR OPERATION.

SCHEDULE OF EXISTING BRANCH CIRCUIT PANEL

"LA"

PANEL SPECIFICATIONS: SQUARE D 100 AMP MAIN CIRCUIT BREAKER SURFACE MOUNTED

AIC SYMMETRICAL: 10,000

VOLTAGE: 208/120V, 3Ø, 4 WIRE

WIRE	GROUND	CONDUIT	BREAKER	CIRCUIT	A PHASE KVA	B PHASE KVA	C PHASE KVA	CIRCUIT	BREAKER	CONDUIT	GROUND	WIRE	CIRCUIT DESCRIPTION
2#12	1#12	3/4"	20	1	0.6	0.8		2	20	3/4"	1#12	2#12	RECEPT., TECH PARTS (6)
2#12	1#12	3/4"	20	3		0.4	0.8	4	20	3/4"	1#12	2#12	RECEPT., PARTS MANAGER (6)
2#12	1#12	3/4"	20	5	0.8	0.6		6	20	3/4"	1#12	2#12	RECEPT., COPIER TECH (6)
–	–	–	20	7	–	0.8		8	20	3/4"	1#12	2#12	SPARE
–	–	–	20	9		–	0.8	10	20	3/4"	1#12	2#12	RECEPT., COPIER WORKRM (6)
2#12	1#12	3/4"	20	11			0.8	12	20	3/4"	1#12	2#12	RECEPT., SERVICE MANAGER (6)
2#12	1#12	3/4"	20	13	0.6	1.2		14	20	–	–	–	RECEPT./LIGHTING, ELEVATOR PIT (6)
2#12	1#12	3/4"	20	15			0.4	16	20	–	–	–	LIGHTING, CAR WASH
2#12	1#12	3/4"	20	17		0.8	0.8	18	20	3/4"	1#12	2#12	RECEPT., CUSTOMER LOUNGE (6)
2#12	1#12	3/4"	20	19	0.8	0.8		20	20	3/4"	1#12	2#12	RECEPT., CUSTOMER LOUNGE (6)
–	–	–	20	21		1.8	0.4	22	20	3/4"	1#12	2#12	DRIVE THRU FURNACE (1)
2#12	1#12	3/4"	20	23			0.6	24	20	3/4"	1#12	2#12	RECEPT., VR ROOM (6)
2#12	1#12	3/4"	20	25	0.6	0.4		26	20	3/4"	1#12	2#12	RECEPT., VR ROOM (6)
2#12	1#12	3/4"	20	27		0.6	0.4	28	20	3/4"	1#12	2#12	RECEPT., VR ROOM (6)
–	–	–	20	29			–	SPARE	20	–	–	–	SPARE
1	–	–	20	31	0.1	0.6		32	20	3/4"	1#12	2#12	PARTS UNIT HEATER (1)
2#12	1#12	3/4"	20	33		0.4	–	34	20	–	–	–	RECEPT., SHOWROOM (6)
2#12	1#12	3/4"	20	35			0.8	36	20	–	–	–	RECEPT., SHOWROOM (6)
2#12	1#12	3/4"	20	37	0.8	0.8		38	20	–	–	–	RECEPT., SHOWROOM (6)
2#12	1#12	3/4"	20	39		0.8	0.8	40					
–	–	–	20	41			–	42	3				SPARE
					9.7	9.0	8.0	KVA TOTAL PER PHASE					
					83	75	68	AMPS TOTAL PER PHASE					
						26.7		KVA TOTAL					

SCHEDULE OF EXISTING BRANCH CIRCUIT PANEL

"LC"

PANEL SPECIFICATIONS: SQUARE D 150 AMP MAIN CIRCUIT BREAKER SURFACE MOUNTED

AIC SYMMETRICAL: 10,000

VOLTAGE: 208/120V, 3Ø, 4 WIRE

WIRE	GROUND	CONDUIT	BREAKER	CIRCUIT	A PHASE KVA	B PHASE KVA	C PHASE KVA	CIRCUIT	BREAKER	CONDUIT	GROUND	WIRE	CIRCUIT DESCRIPTION
2#12	1#12	3/4"	20	1	0.6	0.1		2	20	3/4"	1#12	2#12	FIRE ALARM PNL (6)
2#12	1#12	3/4"	20	3		0.8	0.6	4	20	3/4"	1#12	2#12	RECEPT., JAN/COOR (6)
2#12	1#12	3/4"	20	5			0.8	6	20	3/4"	1#12	2#12	RECEPT., WAP (6)
2#12	1#12	3/4"	20	7	1.2	3.6		8	40	1"	1#10	3#8	EV CAR CHARGER (SHOP)
2#12	1#12	3/4"	20	9		1.2	3.6	10	2				
–	–	–	20	11			0.4	12	60	–	–	–	SUB FEED PANEL (1)
2#12	1#12	3/4"	20	13	0.4	4.7		14					
2#12	1#12	3/4"	20	15		0.6	4.7	16	3				
2#12	1#12	3/4"	20	17			0.6	18	20	–	–	–	SPARE
2#12	1#12	3/4"	20	19	0.6	2.0		20	30	–	–	–	AIR COMPRESSOR (1)
2#12	1#12	3/4"	20	21		–	2.0	22					
–	–	–	60	23				24	3				
–	–	–	–	25	4.0	0.8		26	20	–	–	–	CAR WASH CONT. PANEL (1)
–	–	–	–	27		0.8	0.8	28					
–	–	–	20	29			0.8	30					
					18.0	15.1	14.5	KVA TOTAL PER