PANEL HGLA

PANEL NOTES: *CIRCUIT CONTROLLED BY LIGHTING RELAY PANEL

M.L.O. / F.T.L. — BREAKER INTERRUPT RATING: FULLY RATED — 3 Ø - 4 WIRE - 277/480 VOLT — DEMAND AMPS: 159 — 250 AMP BUS

CONDUIT SIZE	WIRE SIZE	SERVING	KVA A Ø	KVA B Ø	KVA C Ø	CKT BKR	CKT NO	LOAD TYPE	LOAD TYPE	CKT NO	CKT BKR	KVA A Ø	KVA B Ø	KVA C Ø	SERVING	WIRE SIZE	CONDUIT SIZE
3/4"	2#10	LIGHTING	4.02			1P-20	1	C	C	2	1P-20*	0.10			EXTERIOR LIGHTING	2#10	3/4"
I	I	I		3.96		I	3	C	C	4	I		0.09		I	I	I
I	I	V			2.98	I	5	C	C	6	I			0.01	I	I	I
I	I	GARAGE LIGHTING	0.52			I	7	C	C	8	I	0.60			I	I	I
V	V	LIGHTING		1.18		I	9	C	C	10	I		0.43		I	I	I
		SPARE				I	11		C	12	I			0.38	I	I	I
		I				I	13		C	14	I	0.47			I	I	I
		I				I	15		C	16	I		0.47		I	I	I
		I				I	17		C	18	I			0.44	V	V	V
		I				I	19		C	20	V	1.09			SEMONES LIGHTING	2#6	3/4"
		I				I	21			22	1P-20				SPARE		
		I				I	23			24	I				I		
		I				I	25			26	I				I		
		I				I	27			28	I				I		
		I				I	29			30	I				I		
		I				I	31			32	I				I		
		I				I	33			34	I				I		
		V				V	35			36	V				V		
SEE	SEE	112.5 kVA XFMR	30.18			3P-175	37	P	P	38	3P-125	20.01			75 kVA XFMR	SEE	SEE
RISER	RISER	(PANEL LGWA)		34.22			39	P	P	40			19.04		(PANEL LGEA)	RISER	RISER
					25.96		41	P	P	42				16.65			

	CONNECTED kVA	NEC DIVERSITY	DEMAND (kVA)
CONTINUOUS LOADS (C)	17.54	125%	21.93
NON-CONTINUOUS LOADS (NC)	55.22	100%	55.22
RECEPTACLES LOADS (R)	65.52	10KVA + 50%	37.76
KITCHEN LOADS (K)	23.32	65%	15.16
LARGEST MOTOR (LM)	1.18	125% OF LARGEST	1.47

SUB-PANEL LOADS ARE INCLUDED IN THE CONNECTED AND DEMAND CALCULATIONS ABOVE

FEED THRU LUGS: A Ø / B Ø / C Ø — FED FROM: MS1 — A Ø = 57 kVA, B Ø = 59.4 kVA, C Ø = 46.4 kVA
HGLA EXCLUDING FTL & SUB-PANELS = 16.7 kVA
LGEA, LGWA = 146.1 kVA
TOTAL CONNECTED = 163 kVA
TOTAL DEMAND = **132 kVA**

PANEL H1LEA

PANEL NOTES:

M.L.O. / F.T.L. — BREAKER INTERRUPT RATING: FULLY RATED — 3 Ø - 4 WIRE - 277/480 VOLT — DEMAND AMPS: 159 — 250 AMP BUS

CONDUIT SIZE	WIRE SIZE	SERVING	KVA A Ø	KVA B Ø	KVA C Ø	CKT BKR	CKT NO	LOAD TYPE	LOAD TYPE	CKT NO	CKT BKR	KVA A Ø	KVA B Ø	KVA C Ø	SERVING	WIRE SIZE	CONDUIT SIZE
3/4"	2#10	LIGHTING	2.94			1P-20	1	C		2					SPACE		
I	I	I		3.13		I	3	C		4					I		
I	I	I			2.37	I	5	C		6					I		
V	V	V	2.49			I	7	C		8					I		
		SPARE				I	9			10					I		
		I				I	11			12					I		
		I				I	13			14					I		
		I				I	15			16					I		
		I				I	17			18					I		
		I				I	19			20					I		
		I				I	21			22					I		
		I				I	23			24					I		
		I				I	25			26					I		
		I				I	27			28					I		
		I				I	29			30					I		
		I				I	31			32					I		
		I				I	33			34					I		
		I				I	35			36					V		
		I				I	37		P	38	3P-175	24.10			112.5 kVA XFMR	SEE	SEE
		I				I	39		P	40			27.79		(PANEL L1EA)	RISER	RISER
		V				V	41		P	42				27.64			

	CONNECTED kVA	NEC DIVERSITY	DEMAND (kVA)
CONTINUOUS LOADS (C)	19.28	125%	24.09
NON-CONTINUOUS LOADS (NC)	52.12	100%	52.12
RECEPTACLES LOADS (R)	66.48	10KVA + 50%	38.24
KITCHEN LOADS (K)	27.70	65%	18.01
LARGEST MOTOR (LM)	0.00	125% OF LARGEST	0.00

SUB-PANEL LOADS ARE INCLUDED IN THE CONNECTED AND DEMAND CALCULATIONS ABOVE

FEED THRU LUGS: 27.4 (A Ø) / 24.9 (B Ø) / 22.8 (C Ø) — FED FROM: MS1 — A Ø = 57 kVA, B Ø = 55.8 kVA, C Ø = 52.8 kVA
H1LEA EXCLUDING FTL & SUB-PANELS = 10.9 kVA
H2LEA, L1EA = 154.6 kVA
TOTAL CONNECTED = 166 kVA
TOTAL DEMAND = **132 kVA**

PANEL H2LEA

PANEL NOTES:

M.L.O. / F.T.L. — BREAKER INTERRUPT RATING: FULLY RATED — 3 Ø - 4 WIRE - 277/480 VOLT — DEMAND AMPS: 79 — 250 AMP BUS

CONDUIT SIZE	WIRE SIZE	SERVING	KVA A Ø	KVA B Ø	KVA C Ø	CKT BKR	CKT NO	LOAD TYPE	LOAD TYPE	CKT NO	CKT BKR	KVA A Ø	KVA B Ø	KVA C Ø	SERVING	WIRE SIZE	CONDUIT SIZE
3/4"	2#10	LIGHTING	1.93			1P-20	1	C	C	2	1P-20	1.28			MEZZANINE LIGHTS	2#10	3/4"
I	I	I		2.79		I	3	C	C	4	I		1.11		ROOFTOP LIGHTS	2#10	3/4"
V	V	V			1.08	I	5	C		6	I				SPARE		
		SPARE				I	7			8	I				I		
		I				I	9			10	I				I		
		I				I	11			12	I				I		
		I				I	13			14	I				I		
		I				I	15			16	I				I		
		I				I	17			18	I				I		
		I				I	19			20	I				I		
		I				I	21			22	I				I		
		I				I	23			24	I				I		
		I				I	25			26	I				I		
		I				I	27			28	I				I		
		I				I	29			30	I				I		
		I				I	31			32	I				I		
		I				I	33			34	I				I		
		I				I	35			36	V				V		
		I				I	37		P	38	3P-125	24.21			75 kVA XFMR	SEE	SEE
		I				I	39		P	40			21.01		(PANEL L2EA)	RISER	RISER
		V				V	41		P	42				21.70			

	CONNECTED kVA	NEC DIVERSITY	DEMAND (kVA)
CONTINUOUS LOADS (C)	8.35	125%	10.44
NON-CONTINUOUS LOADS (NC)	29.75	100%	29.75
RECEPTACLES LOADS (R)	24.12	10KVA + 50%	17.06
KITCHEN LOADS (K)	12.90	65%	8.39
LARGEST MOTOR (LM)	0.00	125% OF LARGEST	0.00

SUB-PANEL LOADS ARE INCLUDED IN THE CONNECTED AND DEMAND CALCULATIONS ABOVE

FEED THRU LUGS: A Ø / B Ø / C Ø — FED FROM: H1EA — A Ø = 27.4 kVA, B Ø = 24.9 kVA, C Ø = 22.8 kVA
H2LEA EXCLUDING FTL & SUB-PANELS = 8.2 kVA
L2EA = 66.9 kVA
TOTAL CONNECTED = 75 kVA
TOTAL DEMAND = **66 kVA**

PANEL LGEA

PANEL NOTES: PROVIDE DOUBLE NEUTRAL
*GFI CIRCUIT BREAKER

3P-225A MCB / F.T.L. — BREAKER INTERRUPT RATING: 10,000 A.I.C. — 3 Ø - 4 WIRE - 120/208 VOLT — DEMAND AMPS: 122 — 225 AMP BUS

CONDUIT SIZE	WIRE SIZE	SERVING	KVA A Ø	KVA B Ø	KVA C Ø	CKT BKR	CKT NO	LOAD TYPE	LOAD TYPE	CKT NO	CKT BKR	KVA A Ø	KVA B Ø	KVA C Ø	SERVING	WIRE SIZE	CONDUIT SIZE
1/2"	2#12	PC RECEPTACLES	1.44			1P-20	1	R	NC	2	1P-20	1.50			COPIER	2#12	1/2"
I	I	I		1.44		I	3	R	NC	4	I		1.50		COPIER	I	I
I	I	I			0.72	I	5	R	NC	6	I			0.50	PRINTERS	I	I
I	I	I	1.44			I	7	R	NC	8	I	1.40			HAND DRYER	I	I
I	I	I		1.08		I	9	R	NC	10	I		1.40		I	I	I
I	I	I			1.08	I	11	R	NC	12	I			1.40	I	I	I
I	I	I	1.08			I	13	R	NC	14	I	1.40			V	I	I
I	I	V		1.44		I	15	R	NC	16	I		0.12		WATER FILTER	I	I
I	I	GP RECEPTACLES			1.44	I	17	R	R	18	I			0.90	GP RECEPTACLES	I	I
I	I	I	1.44			I	19	R	NC	20	I	1.00			TREADMILL	I	I
I	I	I		0.72		I	21	R	NC	22	I		1.00		TREADMILL	I	I
I	I	I			1.44	I	23	R	NC	24	I			0.25	PRINTER	I	I
I	I	I	1.08			I	25	R	R	26	I	0.54			SYSTEM FURN.	I	I
I	I	I		1.08		I	27	R	R	28	I		1.08		SYSTEM FURN.	I	I
I	I	I			1.26	I	29	R	NC	30	I			1.40	HAND DRYER	I	I
I	I	I	1.44			I	31	R	R	32	I	0.90			GP RECEPTACLES	I	I
I	I	I		1.62		I	33	R	K	34	I		0.12		UC REFRIGERATOR	I	I
I	I	I			0.54	I	35	R	R	36	I			0.36	GP RECEPTACLES	I	I
I	I	V	0.72			I	37	R	NC	38	I	0.75			X-RAY MACHINE	I	I
I	I	TV		0.84		I	39	NC	R	40	I		0.36		GP RECEPTACLES	I	I
V	V	COPIER			1.50	V	41	NC	K	42	V			1.50	COFFEE MAKER	V	V

	CONNECTED kVA	NEC DIVERSITY	DEMAND (kVA)
CONTINUOUS LOADS (C)	0.31	125%	0.38
NON-CONTINUOUS LOADS (NC)	19.53	100%	19.53
RECEPTACLES LOADS (R)	27.90	10KVA + 50%	18.95
KITCHEN LOADS (K)	7.82	65%	5.08
LARGEST MOTOR (LM)	0.00	125% OF LARGEST	0.00

SUB-PANEL LOADS ARE INCLUDED IN THE CONNECTED AND DEMAND CALCULATIONS ABOVE

FEED THRU LUGS: 3.9 (A Ø) / 5.1 (B Ø) / 2.4 (C Ø) — FED FROM: HGLA VIA 75 kVA XFMR — A Ø = 20 kVA, B Ø = 18.9 kVA, C Ø = 16.7 kVA
LGEA EXCLUDING FTL & SUB-PANELS = 44.2 kVA
LGEB = 11.3 kVA
TOTAL CONNECTED = 56 kVA
TOTAL DEMAND = **44 kVA**

PANEL L1EA

PANEL NOTES: PROVIDE DOUBLE NEUTRAL
*PROVIDE GFI CIRCUIT BREAKER

3P-350A MCB / F.T.L. — BREAKER INTERRUPT RATING: 10,000 A.I.C. — 3 Ø - 4 WIRE - 120/208 VOLT — DEMAND AMPS: 161 — 400 AMP BUS

CONDUIT SIZE	WIRE SIZE	SERVING	KVA A Ø	KVA B Ø	KVA C Ø	CKT BKR	CKT NO	LOAD TYPE	LOAD TYPE	CKT NO	CKT BKR	KVA A Ø	KVA B Ø	KVA C Ø	SERVING	WIRE SIZE	CONDUIT SIZE
1/2"	2#12	PC RECEPTACLES	1.44			1P-20	1	R	R	2	1P-20	1.20			FLOOR RECEPT.	2#12	1/2"
I	I	I		1.44		I	3	R	R	4	I		1.56		GP RECEPTACLES	I	I
I	I	I			1.44	I	5	R	NC	6	I			1.50	COPIER	I	I
I	I	I	1.44			I	7	R	NC	8	I	0.75			PRINTERS	I	I
I	I	I		1.08		I	9	R	R	10	I		0.72		GP RECEPTACLES	I	I
I	I	I			1.08	I	11	R	NC	12	I			1.40	HAND DRYER	I	I
I	I	I	1.08			I	13	R	NC	14	I	1.40			I	I	I
I	I	I		1.44		I	15	R	NC	16	I		1.40		I	I	I
I	I	I			0.72	I	17	R	NC	18	I			1.40	V	V	V
I	I	V	1.08			I	19	R		20	I				SPARE		
I	I	GP RECEPTACLES		1.44		I	21	R	NC	22	I		0.12		WATER FILTER	2#12	1/2"
I	I	I			1.08	I	23	R	K	24	I			1.10	MICROWAVE	I	I
I	I	I	1.44			I	25	R	K	26	I	1.10			MICROWAVE	I	I
I	I	I		1.44		I	27	R	K	28	I		0.80		REFRIGERATOR	I	I
I	I	I			1.08	I	29	R	K	30	I			0.80	REFRIGERATOR	I	I
I	I	I	1.08			I	31	R	K	32	I	1.00			DISPOSAL	I	I
I	I	I		1.08		I	33	R	K	34	I		1.50		DISWASHER	I	I
I	I	I			1.44	I	35	R	K	36	I			1.50	COFFEE MAKER	I	I
I	I	I	1.26			I	37	R	R	38	I	0.18			GP RECEPTACLES	I	I
I	I	V		1.44		I	39	R	R	40	I		0.90		GP RECEPTACLES	I	I
V	V	AV RACK			1.80	V	41	NC	NC	42	V			1.50	COPIER	V	V

	CONNECTED kVA	NEC DIVERSITY	DEMAND (kVA)
CONTINUOUS LOADS (C)	0.00	125%	0.00
NON-CONTINUOUS LOADS (NC)	22.23	100%	22.23
RECEPTACLES LOADS (R)	42.36	10KVA + 50%	26.18
KITCHEN LOADS (K)	14.80	65%	9.62
LARGEST MOTOR (LM)	0.00	125% OF LARGEST	0.00

SUB-PANEL LOADS ARE INCLUDED IN THE CONNECTED AND DEMAND CALCULATIONS ABOVE

FEED THRU LUGS: 9.7 (A Ø) / 11.3 (B Ø) / 9.8 (C Ø) — FED FROM: H1LEA VIA 112.5 kVA XFMR — A Ø = 24.1 kVA, B Ø = 27.7 kVA, C Ø = 27.6 kVA
L1EA EXCLUDING FTL & SUB-PANELS = 48.7 kVA
L1EB = 30.7 kVA
TOTAL CONNECTED = 79 kVA
TOTAL DEMAND = **58 kVA**

PANEL L2EA

PANEL NOTES: PROVIDE DOUBLE NEUTRAL
*PROVIDE GFI CIRCUIT BREAKER

3P-225A MCB / F.T.L. — BREAKER INTERRUPT RATING: 10,000 A.I.C. — 3 Ø - 4 WIRE - 120/208 VOLT — DEMAND AMPS: 153 — 225 AMP BUS

CONDUIT SIZE	WIRE SIZE	SERVING	KVA A Ø	KVA B Ø	KVA C Ø	CKT BKR	CKT NO	LOAD TYPE	LOAD TYPE	CKT NO	CKT BKR	KVA A Ø	KVA B Ø	KVA C Ø	SERVING	WIRE SIZE	CONDUIT SIZE
1/2"	2#12	PC RECEPTACLES	1.08			1P-20	1	R	NC	2	1P-20	0.12			WATER FILTER	2#12	1/2"
I	I	PC RECEPTACLES		0.72		I	3	R	C	4	I		0.16		LIGHT RECEPT.	I	I
I	I	GP RECEPTACLES			0.54	I	5	R	R	6	I			0.72	COURTRM RECEPT	I	I
I	I	I	1.62			I	7	R	R	8	I	1.08			COURTRM RECEPT	V	V
I	I	V		1.44		I	9	R	R	10	I		0.90		MEZZANINE RECEPT	2#10	3/4"
I	I	HAND DRYER			1.40	I	11	NC	R	12	I			1.08	ROOF RECEPT	2#10	3/4"
I	I	MICROWAVE	1.50			I	13	K	K	14	I	1.10			REFRIGERATOR	2#12	1/2"
I	I	GP RECEPTACLES		1.08		I	15	R	K	16	I		1.50		MICROWAVE	I	I
I	I	I			0.72	I	17	R	R	18	I			0.18	GP RECEPTACLE	I	I
I	I	I	0.72			I	19	R	K	20	I	0.25			UC REFRIGERATOR	I	I
I	I	V		0.90		I	21	R	K	22	I		1.50		COFFEE MAKER	I	I
I	I	TV/RACK			1.44	I	23	NC	NC	24	I			1.80	AV RACK	I	I
I	I	AV RACK	1.80			I	25	NC	NC	26	I	1.80			AV RACK	I	I
I	I	REFRIGERATOR		0.80		I	27	K	R	28	I		1.80		FLOOR RECEPT	I	I
I	I	DISPOSAL			1.00	I	29	K	R	30	I			1.80	FLOOR RECEPT	I	I
I	I	DISHWASHER	1.50			I	31	K	NC	32	I	0.84			DOCKET DISPLAY	I	I
I	I	COFFEE MAKER		1.50		I	33	K	NC	34	I		0.84		DOCKET DISPLAY	I	I
I	I	INSTA-HOT			1.50	I	35	K	R	36	I			1.80	FLOOR RECEPT	I	I
I	I	TVS	1.68			I	37	NC	R	38	I	1.80			FLOOR RECEPT	I	I
I	I	COURTRM RECEPT		0.72		I	39	R	NC	40	I		1.40		AUTO VALVE	I	I
V	V	COURTRM RECEPT			1.08	V	41	R	R	42	V			1.44	GP RECEPTACLES	V	V

	CONNECTED kVA	NEC DIVERSITY	DEMAND (kVA)
CONTINUOUS LOADS (C)	0.16	125%	0.20
NON-CONTINUOUS LOADS (NC)	29.61	100%	29.61
RECEPTACLES LOADS (R)	24.12	10KVA + 50%	17.06
KITCHEN LOADS (K)	12.90	65%	8.39
LARGEST MOTOR (LM)	0.00	125% OF LARGEST	0.00

SUB-PANEL LOADS ARE INCLUDED IN THE CONNECTED AND DEMAND CALCULATIONS ABOVE

FEED THRU LUGS: 7.2 (A Ø) / 5.8 (B Ø) / 5.2 (C Ø) — FED FROM: H2LEA VIA 75 kVA XFMR — A Ø = 24.1 kVA, B Ø = 21 kVA, C Ø = 21.7 kVA
L2EA EXCLUDING FTL & SUB-PANELS = 48.7 kVA
L2EB = 18.1 kVA
TOTAL CONNECTED = 67 kVA
TOTAL DEMAND = **55 kVA**

PANEL LGEB

PANEL NOTES: PROVIDE DOUBLE NEUTRAL

M.L.O. / F.T.L. — BREAKER INTERRUPT RATING: 10,000 A.I.C. — 3 Ø - 4 WIRE - 120/208 VOLT — DEMAND AMPS: 28 — 225 AMP BUS

CONDUIT SIZE	WIRE SIZE	SERVING	KVA A Ø	KVA B Ø	KVA C Ø	CKT BKR	CKT NO	LOAD TYPE	LOAD TYPE	CKT NO	CKT BKR	KVA A Ø	KVA B Ø	KVA C Ø	SERVING	WIRE SIZE	CONDUIT SIZE
1/2"	2#12	REFRIGERATOR	1.10			1P-20	1	K	NC	2	1P-20	0.54			CCTV	2#10	3/4"
I	I	MICROWAVE		1.50		I	3	K		4	I				SPARE		
I	I	GP RECEPTACLES			0.36	I	5	R		6	I				I		
I	I	DISHWASHER	1.50			I	7	K		8	I				I		
I	I	DISPOSAL		1.00		I	9	K		10	I				I		
I	I	REFRIGERATOR			1.10	I	11	K		12	I				I		
I	I	TV	0.43			I	13	NC		14	I				I		
I	I	FLOOR OUTLETS		1.20		I	15	NC		16	I				I		
I	I	GP RECEPTACLES			0.90	I	17	R		18	I				I		
I	I	RESTROOM LIGHTS	0.31			I	19	C		20	I				I		
V	V	AUTO VALVE		1.40		I	21	NC		22	I				I		
		SPARE				I	23			24	I				I		
		I				I	25			26	I				I		
		I				I	27			28	I				I		
		I				I	29			30	I				I		
		I				I	31			32	I				I		
		I				I	33			34	I				I		
		I				I	35			36	I				I		
		I				I	37			38	I				V		
		I				I	39			40	I		0.00		EMCS USE	2#12	1/2"
		V				V	41			42	V			0.00	EMCS USE	2#12	1/2"

	CONNECTED kVA	NEC DIVERSITY	DEMAND (kVA)
CONTINUOUS LOADS (C)	0.31	125%	0.38
NON-CONTINUOUS LOADS (NC)	3.57	100%	3.57
RECEPTACLES LOADS (R)	1.26	10KVA + 50%	1.26
KITCHEN LOADS (K)	6.20	70%	4.34
LARGEST MOTOR (LM)	0.00	125% OF LARGEST	0.00

SUB-PANEL LOADS ARE INCLUDED IN THE CONNECTED AND DEMAND CALCULATIONS ABOVE

FEED THRU LUGS: A Ø / B Ø / C Ø — FED FROM: LGEA — A Ø = 3.9 kVA, B Ø = 5.1 kVA, C Ø = 2.4 kVA
LGEB TOTAL 11.3 kVA
TOTAL CONNECTED = 11 kVA
TOTAL DEMAND = **10 kVA**

PANEL L1EB

PANEL NOTES: PROVIDE DOUBLE NEUTRAL

M.L.O. / F.T.L. — BREAKER INTERRUPT RATING: 10,000 A.I.C. — 3 Ø - 4 WIRE - 120/208 VOLT — DEMAND AMPS: 75 — 400 AMP BUS

CONDUIT SIZE	WIRE SIZE	SERVING	KVA A Ø	KVA B Ø	KVA C Ø	CKT BKR	CKT NO	LOAD TYPE	LOAD TYPE	CKT NO	CKT BKR	KVA A Ø	KVA B Ø	KVA C Ø	SERVING	WIRE SIZE	CONDUIT SIZE
1/2"	2#12	GP RECEPTACLES	1.08			1P-20	1	R	R	2	1P-20	1.62			GP RECEPTACLES	2#12	1/2"
3/4"	4#12	SYSTEM FURNITURE		1.08		2P-20	3	R	NC	4	I		1.44		TV/RACK	I	I
					0.54		5	R	NC	6	I			0.60	CATV SYSTEM	I	I
3/4"	4#12	SYSTEM FURNITURE	1.08			2P-20	7	R	R	8	I	0.72			GP RECEPTACLES	I	I
				0.54			9	R	NC	10	I		1.62		TV/RACK	I	I
1/2"	2#12	SYSTEM FURNITURE			1.44	1P-20	11	R	R	12	I			1.08	GP RECEPTACLES	I	I
I	I	SYSTEM FURNITURE	0.72			I	13	R	NC	14	I	0.25			WATER COOLER	V	V
I	I	COPIER		1.50		I	15	NC		16	I				SPARE		
I	I	PRINTERS			0.50	I	17	NC	NC	18	I			0.80	AUTO VALVE	2#12	1/2"
I	I	PRINTERS	0.50			I	19	NC	R	20	I	0.36			EXTERIOR RECEPT	2#10	3/4"
I	I	HAND DRYER		1.40		I	21	NC	NC	22	I		1.92		SPACE SAVER	2#12	1/2"
I	I	GP RECEPTACLES			1.08	I	23	R	K	24	I			1.10	MICROWAVE	2#12	1/2"
I	I	GP RECEPTACLES	0.72			I	25	R		26	I				SPARE		
I	I	TV		0.43		I	27	NC		28	I				I		
I	I	REFRIGERATOR			0.80	I	29	K		30	I				I		
I	I	COFFEE MAKER	1.50			I	31	K		32	I				I		
I	I	DISPOSAL		1.00		I	33	K		34	I				I		
I	I	DISHWASHER			1.50	I	35	K		36	I				I		
I	I	MICROWAVE	1.10			I	37	K		38	I				V		
I	I	GP RECEPTACLES		0.36		I	39	R		40	I		0.00		EMCS USE	2#12	1/2"
V	V	GP RECEPTACLES			0.36	V	41	R		42	V			0.00	EMCS USE	2#12	1/2"

	CONNECTED kVA	NEC DIVERSITY	DEMAND (kVA)
CONTINUOUS LOADS (C)	0.00	125%	0.00
NON-CONTINUOUS LOADS (NC)	10.96	100%	10.96
RECEPTACLES LOADS (R)	12.78	10KVA + 50%	11.39
KITCHEN LOADS (K)	7.00	65%	4.55
LARGEST MOTOR (LM)	0.00	125% OF LARGEST	0.00

SUB-PANEL LOADS ARE INCLUDED IN THE CONNECTED AND DEMAND CALCULATIONS ABOVE

FEED THRU LUGS: 0.0 (A Ø) / 0.0 (B Ø) / 0.0 (C Ø) — FED FROM: L1EA — A Ø = 9.7 kVA, B Ø = 11.3 kVA, C Ø = 9.8 kVA
L1EB TOTAL 30.7 kVA
L1EC
TOTAL CONNECTED = 31 kVA
TOTAL DEMAND = **27 kVA**

PANEL L2EB

PANEL NOTES: PROVIDE DOUBLE NEUTRAL

M.L.O. / F.T.L. — BREAKER INTERRUPT RATING: 10,000 A.I.C. — 3 Ø - 4 WIRE - 120/208 VOLT — DEMAND AMPS: 50 — 225 AMP BUS

CONDUIT SIZE	WIRE SIZE	SERVING	KVA A Ø	KVA B Ø	KVA C Ø	CKT BKR	CKT NO	LOAD TYPE	LOAD TYPE	CKT NO	CKT BKR	KVA A Ø	KVA B Ø	KVA C Ø	SERVING	WIRE SIZE	CONDUIT SIZE
1/2"	2#12	FUTURE TV CAMERA	0.60			1P-20	1	NC	R	2	1P-20	0.36			GP RECEPTACLES	2#12	1/2"
I	I	FUTURE TV CAMERA		0.60		I	3	NC	R	4	I		0.36		I	I	I
I	I	DISPOSAL			0.75	I	5	K	R	6	V			0.18	V	I	I
I	I	HAND DRYER	1.50			I	7	NC	NC	8	2P-15	0.89			SSCU-PH-1/	V	V
I	I	SCENE SELECTOR		0.01		I	9	NC	NC	10			0.89		SSAHU-0-1		
I	I	SCENE SELECTOR			0.01	I	11	NC	NC	12	2P-20			1.12	SSCU-PH-6/	2#12	1/2"
I	I	PRINTER	0.75			I	13	NC	NC	14		1.12			SSAHU-0-6		
~~I~~	~~I~~	~~PRINTER~~		~~0.75~~		~~I~~	~~15~~	~~NC~~	NC	16	2P-20		1.19		SSCU-PH-15/	2#12	1/2"
V	V	MOTOR SHADE			0.36	I	17	NC	NC	18				1.19	SSAHU-1-3		
		SPARE				I	19		NC	20	2P-15	0.98			SSCU-PH-16/	2#12	1/2"
		I				I	21		NC	22			0.98		SSAHU-1-4		
		I				I	23		NC	24	2P-15			0.98	SSCU-PH-17/	2#12	1/2"
		I				I	25		NC	26		0.98			SSAHU-2-1		
		I				I	27		NC	28	2P-15		0.98		SSCU-PH-18/	2#12	1/2"
		I				I	29		NC	30				0.98	SSAHU-2-2		
		I				I	31			32	1P-20				SPARE		
		I				I	33			34	I				I		
		I				I	35			36	I				I		
		I				I	37			38	I				V		
		I				I	39			40	I		0.00		EMCS USE	2#12	1/2"
		V				V	41			42	V			0.00	EMCS USE	2#12	1/2"

	CONNECTED kVA	NEC DIVERSITY	DEMAND (kVA)
CONTINUOUS LOADS (C)	0.00	125%	0.00
NON-CONTINUOUS LOADS (NC)	16.85	100%	16.85
RECEPTACLES LOADS (R)	0.90	10KVA + 50%	0.90
KITCHEN LOADS (K)	0.75	100%	0.75
LARGEST MOTOR (LM)	0.00	125% OF LARGEST	0.00

SUB-PANEL LOADS ARE INCLUDED IN THE CONNECTED AND DEMAND CALCULATIONS ABOVE

FEED THRU LUGS: A Ø / B Ø / C Ø — FED FROM: L2EA — A Ø = 7.2 kVA, B Ø = 5.8 kVA, C Ø = 5.6 kVA
L2EB TOTAL 18.5 kVA
TOTAL CONNECTED = 19 kVA
TOTAL DEMAND = **18 kVA**

PANEL L1EC

PANEL NOTES: PROVIDE DOUBLE NEUTRAL

M.L.O. / F.T.L. — BREAKER INTERRUPT RATING: 10,000 A.I.C. — 3 Ø - 4 WIRE - 120/208 VOLT — DEMAND AMPS: 0 — 400 AMP BUS

CONDUIT SIZE	WIRE SIZE	SERVING	KVA A Ø	KVA B Ø	KVA C Ø	CKT BKR	CKT NO	LOAD TYPE	LOAD TYPE	CKT NO	CKT BKR	KVA A Ø	KVA B Ø	KVA C Ø	SERVING	WIRE SIZE	CONDUIT SIZE
		SPARE				1P-20	1			2	1P-20				SPARE		
		I				I	3			4	I				I		
		I				I	5			6	I				I		
		I				I	7			8	I				I		
		I				I	9			10	I				I		
		I				I	11			12	I				I		
		I				I	13			14	I				I		
		I				I	15			16	I				I		
		I				I	17			18	I				I		
		I				I	19			20	I				I		
		I				I	21			22	I				I		
		I				I	23			24	I				I		
		I				I	25			26	I				I		
		I				I	27			28	I				I		
		I				I	29			30	I				I		
		I				I	31			32	I				I		
		I				I	33			34	I				I		
		I				I	35			36	I				I		
		I				I	37			38	I				I		
		I				I	39			40	I				I		
		V				V	41			42	V				V		

	CONNECTED kVA	NEC DIVERSITY	DEMAND (kVA)
CONTINUOUS LOADS (C)	0.00	125%	0.00
NON-CONTINUOUS LOADS (NC)	0.00	100%	-
RECEPTACLES LOADS (R)	0.00	10KVA + 50%	0.00
KITCHEN LOADS (K)	0.00	100%	0.00
LARGEST MOTOR (LM)	0.00	125% OF LARGEST	0.00

SUB-PANEL LOADS ARE INCLUDED IN THE CONNECTED AND DEMAND CALCULATIONS ABOVE

FEED THRU LUGS: A Ø / B Ø / C Ø — FED FROM: L1EB — A Ø = 0 kVA, B Ø = 0 kVA, C Ø = 0 kVA
L1EC TOTAL 0 kVA
TOTAL CONNECTED = 0 kVA
TOTAL DEMAND = **0 kVA**

PANEL HGM

PANEL NOTES:

M.L.O. / F.T.L. — BREAKER INTERRUPT RATING: FULLY RATED — 3 Ø - 4 WIRE - 277/480 VOLT — DEMAND AMPS: 174 — 400 AMP BUS

CONDUIT SIZE	WIRE SIZE	SERVING	KVA A Ø	KVA B Ø	KVA C Ø	CKT BKR	CKT NO	LOAD TYPE	LOAD TYPE	CKT NO	CKT BKR	KVA A Ø	KVA B Ø	KVA C Ø	SERVING	WIRE SIZE	CONDUIT SIZE
3/4"	3#10	CHWP-1	3.72			3P-40	1	NC	LM	2	3P-80	9.56			AHU-0-1	3#6	3/4"
		(10 HP)		3.72			3	NC	LM	4			9.56		(10 & 20 HP)		
					3.72		5	NC	LM	6				9.56			
3/4"	3#10	CHWP-2	3.72			3P-40	7		NC	8	3P-90	10.62			AHU-PH-1	3#4	1"
		(NON-CONCURRENT)		3.72			9		NC	10			10.62		(4) - 5 HP &		
		(10 HP)			3.72		11		NC	12				10.62	(4) - 2 HP		
3/4"	3#12	EF-0-1	0.56			3P-20	13	NC	NC	14	3P-90	11.15			AHU-PH-2	3#4	1"
		(1 HP)		0.56			15	NC	NC	16			11.15		(4) - 5 HP &		
					0.56		17	NC	NC	18				11.15	(4) - 2.5 HP		
3/4"	3#12	EF-0-2	0.43			3P-20	19	NC	NC	20	3P-20	1.75			AHU-PH-4	3#8	3/4"
		(3/4 HP)		0.43			21	NC	NC	22			1.75		(5 HP)		
					0.43		23	NC	NC	24				1.75			
3/4"	3#10	EF-PH-1	2.02			3P-20	25	NC	NC	26	3P-15	0.29			AHU-0-3	3#12	3/4"
		(5 HP)		2.02			27	NC	NC	28			0.29				
					2.02		29	NC	NC	30				0.29			
3/4"	3#10	EF-PH-2	0.80			3P-20	31	NC	NC	32	3P-40	4.44			AHU-PH-3	3#10	3/4"
		(1.5 HP)		0.80			33	NC	NC	34			4.44		(1) - 10 HP &		
					0.80		35	NC	NC	36				4.44	(1) - 3 HP		
3/4"	3#12	FCU-0-6	0.58			3P-15	37	NC		38					SPACE		
				0.58			39	NC		40					I		
					0.58		41	NC		42					V		

	CONNECTED kVA	NEC DIVERSITY	DEMAND (kVA)
CONTINUOUS LOADS (C)	0.00	125%	0.00
NON-CONTINUOUS LOADS (NC)	109.07	100%	109.07
RECEPTACLES LOADS (R)	0.00	10KVA + 50%	0.00
KITCHEN LOADS (K)	0.00	100%	0.00
LARGEST MOTOR (LM)	28.68	125% OF LARGEST	35.85

SUB-PANEL LOADS ARE INCLUDED IN THE CONNECTED AND DEMAND CALCULATIONS ABOVE

FEED THRU LUGS: A Ø / B Ø / C Ø — FED FROM: MS1 — A Ø = 49.6 kVA, B Ø = 49.6 kVA, C Ø = 49.6 kVA
HGM TOTAL 148.9 kVA
TOTAL CONNECTED = 149 kVA
TOTAL DEMAND = **145 kVA**

PANELS

HGLA H1LEA H2LEA
LGEA L1EA L2EA
LGEB L1EB L2EB
L1EC HGM -

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LOUDOUN COUNTY
Loudoun County Phase III Expansion - New Courthouse
2 Church Street
Leesburg, VA 20176
ISSUED FOR BID - VOLUME II

SEAL

SEAL

KEY PLAN

SCALE
SCALE: AS NOTED

No.	Description	Date
1	ADDENDUM 3	06/18/19

REVISIONS

DRAWN BY: WKR
APPROVED BY: BJG
CHECKED BY: SPB
DATE: APRIL 08, 2019

TITLE
ELECTRICAL PANEL SCHEDULES

PROJECT NO. 50062915

SHEET NO.
E-602

Jun 18, 2019 - 1:35pm