ELECTRICAL LEGEND

NOTES:
1. MOUNTING HEIGHTS SHALL BE TO THE CENTER OF THE DEVICE ABOVE FINISHED FLOOR UNLESS OTHERWISE NOTED.

S — SINGLE POLE SWITCH – M.H. 48" A.F.F.

S3 — THREE POLE SWITCH – M.H. 48" A.F.F.

SD — DIMMER SWITCH – M.H. 48" A.F.F.

SOx — OCCUPANCY SENSOR SWITCH – M.H. 48" A.F.F.– PROVIDE WATT STOPPER MODEL 'DW–100' DUAL TECHNOLOGY WALL SWITCH SENSOR. SUBSCRIPT 'x' INDICATES WHICH FIXTURES THE DEVICE IS TO CONTROL.

Ox — CEILING MOUNTED OCCUPANCY SENSOR – PROVIDE WATT STOPPER MODEL 'DT–300' DUAL TECHNOLOGY CEILING SENSORS. SUBSCRIPT 'x' INDICATES WHICH FIXTURES THE DEVICE IS TO CONTROL.

WIRING IN OR ON CEILINGS AND WALLS, FOR BRANCH CIRCUITS, DEFAULT OF 2 PLUS GROUND, ADDITIONAL CURRENT CARRYING CONDUCTORS AS REQUIRED FOR 3–WAY, 4–WAY, DUAL SWITCHING, ETC. SEE PANELBOARD SCHEDULE FOR WIRING METHOD, SIZES OF CONDUCTORS AND SIZES OF CONDUIT WHERE APPLICABLE.

HOMERUN TO PANEL. SEE PANELBOARD SCHEDULE FOR WIRING SIZES AND NUMBER OF CONDUCTORS.

LIGHTING FIXTURE – 2'x4' FLUORESCENT FIXTURE TYPE AS SPECIFIED

a — LIGHTING FIXTURE – 2'x2' FLUORESCENT FIXTURE TYPE AS SPECIFIED. SUBSCRIPT INDICATES WHICH SWITCH DEVICES THE FIXTURE IS BEING CONTROLLED BY.

LIGHTING FIXTURE – RECESSED OR SURFACE MOUNTED – TYPE AS SPECIFIED

LIGHTING FIXTURE – WALL WASHER – TYPE AS SPECIFIED

LIGHTING FIXTURE – FLUORESCENT STRIP – TYPE AS SPECIFIED

EMERGENCY LIGHT – TYPE AS SPECIFIED

EXIT SIGN – UNIVERSAL MOUNTING. NUMBER OF SHADED AREAS INDICATE NUMBER OF FACES. ARROWS INDICATED DIRECTIONAL FACE.

SPECIFIC NOTE – REFER TO SPECIFIC NOTES

F — FIRE ALARM MANUAL PULL STATION – M.H. 48" A.F.F.

75 F — FIRE ALARM AUDIBLE AND VISUAL SIGNALING APPLIANCE. SUBSCRIPT DENOTES CANDELLA RATING – M.H. 80" A.F.F. TO BOTTOM OF LENS.

75 — FIRE ALARM VISUAL APPLIANCE. SUBSCRIPT DENOTES CANDELLA RATING. M.H. 80" A.F.F. TO BOTTOM OF LENS.

DUPLEX RECEPTACLE – NEMA 5–20R CONFIGURATION – M.H. 18" A.F.F.

GFI — DUPLEX RECEPTACLE – 5–20R NEMA CONFIGURATION GROUND FAULT INTERRUPT – M.H. 18" A.F.F

DOUBLE DUPLEX RECEPTACLE – NEMA CONFIGURATION – 5–20R – M.H. 18" A.F.F.

C — DIAGONAL LINE DENOTES RECEPTACLE MOUNTED AT 42" A.F.F. OR 8" ABOVE COUNTER

C — FLUSH CEILING MOUNTED DUPLEX RECEPTACLE. NEMA 5–20R CONFIGURATION.

RECESSED FLOOR MOUNTED DATA/POWER OUTLET. PROVIDE HUBBELL MODEL S1PTFIT–S1SP–HBL2162 – TYPES AND AMOUNT A/V DEVICES LOCATED IN DEVICE ARE TO BE DETERMINED BY OWNER; FINISH IS ALSO TO BE DETERMINED BY OWNER.

MOTOR – HORSEPOWER INDICATED WHERE APPLICABLE

PANELBOARD – SURFACEMOUNTED, RECESSED MOUNTED – M.H. 6'–6" TO TOP

NON–FUSED SAFETY SWITCH – SIZE AS SPECIFIED.

SPEAKER – WALL MOUNTED

BELL – WALL MOUNTED

TELEPHONE/DATA OUTLET BOX WITH BLANK COVER PLATE AND 3/4" CONDUIT UP TO NEARBY ACCESSIBLE CEILING SPACE – M.H.= 18" A.F.F.

DEVICES AND CIRCUITRY SHOWN AS LIGHT LINEWEIGHT ARE EXISTING TO REMAIN UNLESS OTHERWISE NOTED.

DEVICES AND CIRCUITRY SHOWN AS LIGHT LINEWEIGHT AND WITH "X" DESINGATES EXISTING TO BE REMOVED UNLESS OTHERWISE NOTED.

LIGHTING FIXTURE SCHEDULE

NOTE: VERIFY CEILING AND WALL CONSTRUCTION AND FINISHES WITH THE ARCHITECT'S DRAWINGS AND FINISH SCHEDULES FURNISH PROPER MOUNTING FRAMES, BRACKETS AND HARDWARE AS REQUIRED TO BE COMPATIBLE WITH ARCHITECTURAL FINISHES. MOUNTING HEIGHTS INDICATED ARE TO BOTTOM OF FIXTURE

TYPE	DESCRIPTION	LAMPS VOLTS	LAMPS NO.	LAMPS TYPE	MAX W.	MOUNTING	MANU. / MODEL No. (OR APPROVED EQUAL)
A	2'x2' FLUORESCENT FIXTURE; ACRYLIC PRISMATIC LENS; BAKED WHITE ENAMEL FINISH.	120	2	32W T8	64	RECESSED	COOPER LIGHTING - METALUX 2GR8 SERIES (OR APPROVED EQUAL)
B	2'x4' FLUORESCENT FIXTURE; ACRYLIC PRISMATIC LENS; BAKED WHITE ENAMEL FINISH.	120	3	32W T8	96	RECESSED	COOPER LIGHTING - METALUX 2GR8 SERIES (OR APPROVED EQUAL)
C	6" OPEN DOWNLIGHT; GALVANIZED STEEL FRAME; DIMMABLE BALLAST.	120	1	18W DTT CFL	18	RECESSED	COOPER LIGHTING - HALO PD6H118 SERIES (OR APPROVED EQUAL)
D	2'x4' FLUORESCENT FIXTURE; ACRYLIC PRISMATIC LENS; BAKED WHITE ENAMEL FINISH.	120	3	32W T8	96	SURFACE	COOPER LIGHTING - METALUX 2M SERIES (OR APPROVED EQUAL)
EM	EMERGENCY LIGHT WITH TWO HEADS; INTEGRAL BATTERY.	120	2	5.4W KRYPTON	10.8	WALL	LITHONIA LIGHTING ELM (OR APPROVED EQUAL)
EX	STENCIL FACE EXIT SIGN; LED LAMPS; INTEGRAL BATTERY; GREEN LETTERS TO MATCH EXISTING.	120	1	LED	2	UNIVERSAL	LITHONIA LIGHTING EXG (OR APPROVED EQUAL)
F	4" WALL WASHER; ALUMINUM REFLECTOR; MOLDED WHITE TRIM.	120	1	18W TT CFL	18	RECESSED	LIGHTOLIER 8011WW SERIES (OR APPROVED EQUAL)
G	24" UNDERCABINET FLUORESCENT; ACRYLIC, LINEAR RIBBED DIFFUSER; ROCKER SWITCH.	120	1	17W T8	17	UNDERCABINET	COOPER LIGHTING - METALUX CL SERIES (OR APPROVED EQUAL)
H	16.25" LED DOME FIXTURE; RUSTIC BRONZE FINISH; WHITE ACRYLIC	120	4	6W-LED	24	J-BOX	BROWNLEE LIGHTING 2059 SERIES
J	24" LED DOME FIXTURE; RUSTIC BRONZE FINISH; WHITE ACRYLIC DIFFUSER.	120	6	6W-LED	36	J-BOX	BROWNLEE LIGHTING 2059 SERIES

NOTES:

EX. PANEL MDP

Volts: 208/120 — Bus: 400A — Poles: 42 — Remarks: EXISTING
Phase: 3 — Main: 400A MCB — Mtg: SURFACE
Wire: 4 — AIC:

CKT	FOR	CIRCUITING NO	SIZE	C.	BREAKER POLE	AMP	KVA	LOAD phase	KVA	BREAKER AMP	POLE	CIRCUITING C.	SIZE	NO	FOR	CKT
1	EX. BATTERY CHGR.	EX	EX	EX	1	20A		a		40A	3	EX	EX	EX	EX. CIRC. PUMPS	2
3	EX. CIRCUIT	EX	EX	EX	1	20A		b		-	-	-	-	-	-	4
5	EX. CLOCK RELAY	EX	EX	EX	1	20A		c		-	-	-	-	-	-	6
7	EX. CIRC PUMPS	EX	EX	EX	3	50A		a		225A	3	EX	EX	EX	EX. PANELS LP2-B, LP2-G, LP2-1, LP2-2	8
9	-	-	-	-	-	-		b		-	-	-	-	-	-	10
11	-	-	-	-	-	-		c		-	-	-	-	-	-	12
13	EX. ELEVATOR	EX	EX	EX	3	175A		a		50A	3	EX	EX	EX	EX. HRU-2	14
15	-	-	-	-	-	-		b		-	-	-	-	-	-	16
17	-	-	-	-	-	-		c		-	-	-	-	-	-	18
19	EX. PANELS LP1-G, LP1-1, LP1-2	EX	EX	EX	3	225A		a		50A	3	EX	EX	EX	EX. HRU-2	20
21		-	-	-	-	-		b		-	-	-	-	-	-	22
23	-	-	-	-	-	-		c		-	-	-	-	-	-	24
25	EX.HRU-3	EX	EX	EX	3	50A		a		50A	3	EX	EX	EX	EX. HRU-3	26
27	-	-	-	-	-	-		b		-	-	-	-	-	-	28
29	-	-	-	-	-	-		c		-	-	-	-	-	-	30
31	HRV-1	3/1	4/8	1-1/2"	3	70A	5.99	a		-	3	-	-	-	SPACE	32
33	-	-	-	-	-	-	5.99	b		-	-	-	-	-	-	34
35	-	-	-	-	-	-	5.99	c		-	-	-	-	-	-	36
37	SPACE	-	-	-	3	-		a		-	3	-	-	-	SPACE	38
39	-	-	-	-	-	-		b		-	-	-	-	-	-	40
41	-	-	-	-	-	-		c		-	-	-	-	-	-	42

NOTES:

Total	6	Connected kVa	Phase A Amps: 50
	6	Connected kVa	Phase B Amps: 50
	6	Connected kVa	Phase C Amps: 50
	18	**Connected kVa**	**Average Connected Amps:** 50
	18	**Demanded Kva**	**Average Demand Amps:** 50
			Min Circuit Amps: 71.6
			(includes 15% spare capacity)

Calculated Amps 71.6
(includes continuous factors demand factors and spare capacity)

EX. PANEL LP1-G

Volts: 208/120 — Bus: 225A — Poles: 42 — Remarks: EXISTING
Phase: 3 — Main: MLO — Mtg: RECESSED
Wire: 4 — AIC:

CKT	FOR	CIRCUITING NO	SIZE	C.	BREAKER POLE	AMP	KVA	LOAD phase	KVA	BREAKER AMP	POLE	CIRCUITING C.	SIZE	NO	FOR	CKT
1	LTG: BATH & CORR.	EX	EX	EX	1	20A	0.70	a	0.70	20A	1	EX	EX	EX	LTG: 110,113,118	2
3	LTG: 115, 114, 111, 109	EX	EX	EX	1	20A	0.70	b	0.70	20A	1	EX	EX	EX	LTG: 108,106,104102	4
5	LTG: 107, BATH	EX	EX	EX	1	20A	0.70	c	0.70	20A	1	EX	EX	EX	U.H. ROOM	6
7	EXISTING	EX	EX	EX	1	20A	0.70	a	0.70	20A	1	EX	EX	EX	U.H. ROOM	8
9	REC: 109,106	EX	EX	EX	1	20A	0.70	b	0.70	20A	1	EX	EX	EX	REC: DED.115	10
11	EXISTING	EX	EX	EX	1	20A	0.70	c	0.70	20A	1	EX	EX	EX	U.H. ROOM	12
13	CORRIDOR	EX	EX	EX	1	20A	0.70	a	0.70	20A	1	EX	EX	EX	REC: CONFERENCE	14
15	REC: ICE MAKER (OFF)	EX	EX	EX	1	20A	0.70	b	0.70	20A	1	EX	EX	EX	LTG: MECH. ROOM	16
17	U.H. ROOM	EX	EX	EX	1	20A	0.70	c	0.70	20A	1	EX	EX	EX	LTG: STAIR #3	18
19	REC: KITCHEN GFI	EX	EX	EX	1	20A	0.70	a	0.70	20A	1	EX	EX	EX	REC: MECH ROOM	20
21	EXISTING	EX	EX	EX	1	20A	0.70	b	0.70	20A	1	EX	EX	EX	REC: WAITING	22
23	REC: KITCHEN (OFF)	EX	EX	EX	1	20A	0.70	c	0.70	20A	1	EX	EX	EX	WALKWAY HEATERS	24
25	REC: KITCHEN	EX	EX	EX	1	20A	0.70	a	0.70	20A	1	EX	EX	EX	REC: WORK ROOM	26
27	REC: KITCHEN (OFF)	EX	EX	EX	1	20A	0.70	b	0.70	20A	1	EX	EX	EX	REC: 113,110	28
29	REC: 107 (OFF)	EX	EX	EX	1	20A	0.70	c	0.70	20A	1	EX	EX	EX	REC: 114,111, CORR.	30
31	EF-2	2/1	12/12	3/4"		20A	0.05	a	0.15	15A	2	3/4"	12/12	2/1	FCU 1-10 THRU 1-16	32
33	FCU 1-17 & 1-18	2/1	12/12	3/4"	1	15A	0.04	b	0.15	-	-	-	-	-	-	34
35	-	-	-	-	-	-	0.04	c	1.50	30A	2	3/4"	10/10	2/1	UH-1	36
37	SPACE	-	-	-	1	-		a	1.50	-	-	-	-	-	-	38
39	SPACE	-	-	-	1	-		b	0.02	-	1	-	-	-	SPACE	40
41	SPACE	-	-	-	1	-		c	0.02	-	1	-	-	-	SPACE	42

NOTES:

Total	9	Connected kVa	Phase A Amps: 73
	7	Connected kVa	Phase B Amps: 60
	9	Connected kVa	Phase C Amps: 71
	24	**Connected kVa**	**Average Connected Amps:** 68
	24	**Demanded Kva**	**Average Demand Amps:** 68
			Min Circuit Amps: 89.8
			(includes 15% spare capacity)

Check Phase Loads — Calculated Amps 89.8
(includes continuous factors demand factors and spare capacity)

EX. PANEL LP2-G

Volts: 208/120 — Bus: 225A — Poles: 42 — Remarks: EXISTING
Phase: 3 — Main: MLO — Mtg: RECESSED
Wire: 4 — AIC:

CKT	FOR	CIRCUITING NO	SIZE	C.	BREAKER POLE	AMP	KVA	LOAD phase	KVA	BREAKER AMP	POLE	CIRCUITING C.	SIZE	NO	FOR	CKT
1	LTG: LOBBY	EX	EX	EX	1	20A	0.70	a	0.72	20A	1	3/4"	12/12	2/1	REC: CORR./STOR.	2
3	LTG: PARLOR LOBBY	EX	EX	EX	1	20A	0.70	b	0.70	20A	1	EX	EX	EX	LTG: STAIR #2	4
5	LTG: STAIR #1	EX	EX	EX	1	20A	0.70	c	0.70	20A	1	EX	EX	EX	REC: DINING RM.	6
7	LTG: DINING RM.	EX	EX	EX	1	20A	0.70	a	0.70	20A	1	EX	EX	EX	REC: DINING RM.	8
9	LTG: DINING RM.	EX	EX	EX	1	20A	0.70	b	0.70	20A	1	EX	EX	EX	LTG: SINK	10
11	REC: COUNTER TOP	EX	EX	EX	1	20A	0.70	c	0.70	20A	1	EX	EX	EX	REC: IRONING BOARD	12
13	REC: ARCHIVE	2/1	12/12	3/4"	1	20A	0.54	a	1.20	20A	1	3/4"	12/12	2/1	REC: PROJECTOR	14
15	UNIT HEATERS	EX	EX	EX	1	20A	0.70	b	0.36	20A	1	3/4"	12/12	2/1	REC: FLOOR BOXES	16
17	REC: TOILET	2/1	12/12	3/4"	1	20A	0.23	c	0.72	20A	1	3/4"	12/12	2/1	REC: PANTRY	18
19	REC: PANTRY	2/1	12/12	3/4"	1	20A	0.54	a	0.80	20A	1	3/4"	12/12	2/1	DISHWASHER	20
21	GARBAGE DISPOSAL	2/1	12/12	3/4"	1	20A	0.86	b	0.90	20A	1	3/4"	12/12	2/1	REC: COFEE MACHINE	22
23	REC: MICROWAVE	2/1	12/12	3/4"	1	20A	0.90	c	4.00	50A	2	1-1/4"	8/10	2/1	REC: RANGE	24
25	REC: REFRIGERATOR	2/1	12/12	3/4"	1	20A	0.70	a	4.00	-	-	-	-	-	-	26
27	LTG: COMMON	2/1	12/12	3/4"	1	20A	0.73	b	0.85	20A	1	3/4"	12/12	2/1	LTG: BOARD/KITCH.	28
29	LTG: UNDERCABINET	2/1	12/12	3/4"	1	20A	0.10	c	0.62	15A	2	3/4"	12/12	2/1	FCU 1-1 THUR 1-8	30
31	REC: BOARD ROOM	2/1	12/12	3/4"	1	20A	0.90	a	0.62	-	-	-	-	-	-	32
33	REC: BOARD ROOM	2/1	12/12	3/4"	1	20A	0.90	b	0.90	20A	1	3/4"	12/12	2/1	REC: BOARD ROOM	34
35	SPACE	-	-	-	1	-		c		-	1	-	-	-	SPACE	36
37	SPACE	-	-	-	1	-		a		-	1	-	-	-	SPACE	38
39	SPACE	-	-	-	1	-		b		-	1	-	-	-	SPACE	40
41	SPACE	-	-	-	1	-		c		-	1	-	-	-	SPACE	42

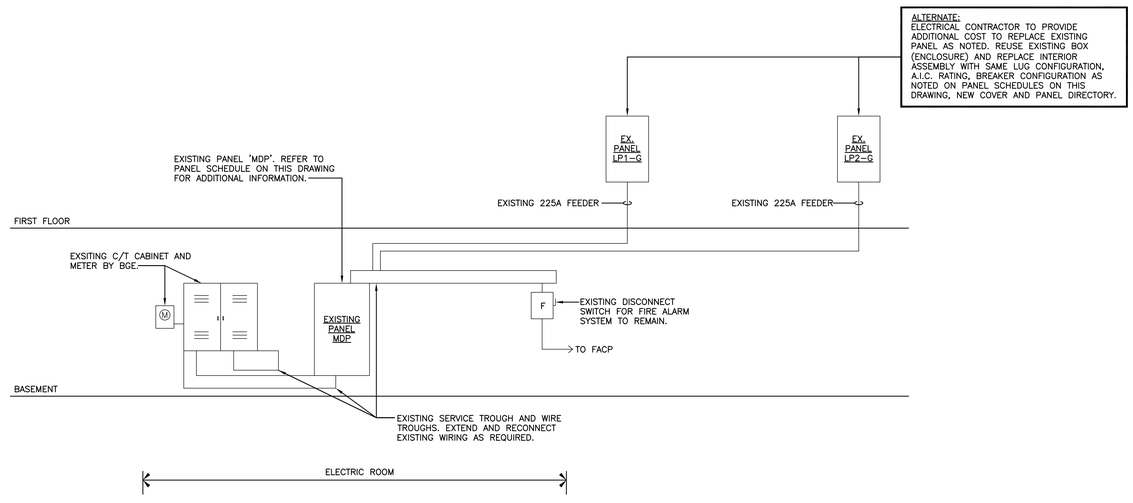
NOTES:

Total	12	Connected kVa	Phase A Amps: 101
	9	Connected kVa	Phase B Amps: 72
	9	Connected kVa	Phase C Amps: 78
	30	**Connected kVa**	**Average Connected Amps:** 84
	24	**Demanded Kva**	**Average Demand Amps:** 68
			Min Circuit Amps: 84.4
			(includes 15% spare capacity)

Check Phase Loads — Calculated Amps 84.4
(includes continuous factors demand factors and spare capacity)

ELECTRICAL ABBREVIATIONS

ABBREV.	DESCRIPTION
A	AMPERE
AFF	ABOVE FINISHED FLOOR
AIC	AMPS INTERRUPTING CURRENT
AWG	AMERICAN WIRE GAUGE
C	CONDUIT
CKT	CIRCUIT
CLG	CEILING
DC	DIRECT CURRENT
DE/TD	DUAL ELEMENT/ TIME DELAY
E	EMERGENCY
EF	EXHAUST FAN
EMT	ELECTRIC METALIC TUBING
ETR	EXISTING TO REMAIN
F	FUSED OR FUSIBLE
FLA	FULL LOAD AMPS
FSS	FUSED SAFETY SWITCH
FT	FEET
G OR GRD	GROUND
H.I.D.	HIGH INTENSITY DISCHARGE
H.O.A.	HAND–OFF–AUTOMATIC
HP	HORSEPOWER
KV	KILOVOLTS
KVA	KILO–VOLT–AMPERE
KW	KILOWATTS
M.H.	MOUNTING HEIGHT
MCB	MAIN CIRCUIT BREAKER
MH	METAL HALIDE
MLO	MAIN LUGS ONLY
MTD	MOUNTED
N.C.	NORMALLY CLOSED
NEC	NATIONAL ELECTRIC CODE
NFSS	NON FUSED SAFETY SWITCH
NL	NIGHT LIGHT
P	POLE
PH	PHASE
PVC	POLYVINYL CHLORIDE
PWR	POWER
RE	REUSE EXISTING
REC	RECEPTACLE
RM	ROOM
RX	REMOVE EXISTING
UL	UNDERWRITERS LAB
V	VOLTS
W	WATTS
W/	WITH
WH	WATER HEATER
WP	WEATHER–PROOF



POWER RISER DIAGRAM
SCALE: NOT TO SCALE

EQUIPMENT CONNECTION SCHEDULE

DESIG.	LOAD	UNIT	VOLTS	PHASE	FSS @ UNIT POLE	FRAME	FUSE	CIRCUIT REMARKS
FCU 1-1	2.3	FLA	208	1	2	30A	15A	30,32(LP2-G)
FCU 1-2	2.3	FLA	208	1	2	30A	15A	30,32(LP2-G)
FCU 1-3	0.2	FLA	208	1	2	30A	15A	30,32(LP2-G)
FCU 1-4	0.2	FLA	208	1	2	30A	15A	30,32(LP2-G)
FCU 1-5	0.2	FLA	208	1	2	30A	15A	30,32(LP2-G)
FCU 1-6	0.2	FLA	208	1	2	30A	15A	30,32(LP2-G)
FCU 1-7	0.2	FLA	208	1	2	30A	15A	30,32(LP2-G)
FCU 1-8	0.2	FLA	208	1	2	30A	15A	30,32(LP2-G)
FCU 1-9	0.2	FLA	208	1	2	30A	15A	30,32(LP2-G)
FCU 1-10	0.2	FLA	208	1	2	30A	15A	32,34(LP1-G)
FCU 1-11	0.2	FLA	208	1	2	30A	15A	32,34(LP1-G)
FCU 1-12	0.2	FLA	208	1	2	30A	15A	32,34(LP1-G)
FCU 1-13	0.2	FLA	208	1	2	30A	15A	32,34(LP1-G)
FCU 1-14	0.2	FLA	208	1	2	30A	15A	32,34(LP1-G)
FCU 1-15	0.2	FLA	208	1	2	30A	15A	32,34(LP1-G)
FCU 1-16	0.2	FLA	208	1	2	30A	15A	32,34(LP1-G)
FCU 1-17	0.2	FLA	208	1	2	30A	15A	33,35(LP1-G)
FCU 1-18	0.2	FLA	208	1	2	30A	15A	33,35(LP1-G)
UH-1	3	KW	208	1	2	30A	30A	36,38(LP1-G)
HRV-1	49.9	MCA	208	3	3	100A	70A	31,33,35(MDP)

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Professional Certification: I certify that these documents were prepared or approved by me, and that I am a duly licensed engineer under the laws of the State of Maryland.
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NO	DATE	DESCRIPTION
		REVISIONS

NOTRE DAME PREP CONVENT RENOVATION

ELECTRICAL LEGEND, ABBREVIATIONS, SCHEDULES & DIAGRAMS

PROJ. NO.: 13007-00
DRAWN BY: TED
DATE: 08-06-13
DWG NO E-001