LIGHTING SEQUENCE OF OPERATION

NOTES:
1. {L##} DENOTES THE LIGHTING SEQUENCE OF OPERATIONS FOR THIS SPACE.
2. [#B] PUSH BUTTON REFERS TO SCENE QUANTITY. CONTROL STATION SHALL BE CAPABLE OF [RAISE/LOWER AND] SWITCHING ON/OFF FOR MULTIPLE SCENES AS INDICATED ON SHEETS AND THE LIGHTING SEQUENCE OF OPERATIONS {L##}. COORDINATE QUANTITIES OF BUTTONS FOR CONTROL STATIONS WITH LIGHTING CONTROL MANUFACTURER.
3. [Z#] DENOTES LIGHTING CONTROL ZONE. PROVIDE SEPARATE CONTROL OF EACH CONTROLLED ZONE. LUMINAIRES ASSOCIATED WITH THE SAME ZONE SHALL OPERATE TOGETHER WITHIN THE SAME PROGRAMMED SCENE.
4. a = SWITCH DESIGNATION FOR LIGHTING CONTROL
5. VERIFY AND COORDINATE ALL TIME CLOCK SETTINGS WITH OWNER PRIOR TO FINAL PROGRAMMING.
6. VERIFY AND COORDINATE ALL PUSH BUTTON WALL DEVICES AND QUANTITIES OF INDIVIDUAL BUTTONS WITH SCENES AND ZONES PER LOCATION.
7. VERIFY AND COORDINATE ALL PUSH BUTTON QUANTITIES AND SCENE NAMES WITH OWNER PRIOR TO SUBMITTING ENGRAVING TEMPLATE TO MANUFACTURER.

PLAN ID	LIGHTING SWITCHED
{LS1}	SEQUENCE: MANUAL DIMMING WALL STATION WITH CEILING OCCUPANCY CONTROL. ON: LIGHTS ARE TURNED ON MANUALLY BY USING WALL CONTROL DEVICE. LIGHTS SHALL REMAIN ON WHILE TECHNOLOGY IS ACTIVATED. LIGHTS SHALL TURN ON AT 100%. ADJUST: DIMMABLE LIGHTS ARE RAISED/LOWERED USING WALL CONTROL DEVICE. DIMMING SHALL DIM BETWEEN 100% TO 25%. OFF: LIGHTS ARE TURNED OFF MANUALLY BY USING THE WALL CONTROL DEVICE OR AUTOMATICALLY AFTER SPACE HAS BEEN VACATED FOR 15 MINUTES.

LED LUMINAIRE SCHEDULE

(DESC) DOOR:	**DISTRIBUTION:**	**BEAMWIDTH:**	**(L/L) LENS/LOUVER:**
FA - FLAT ALUMINUM	II - ANSI/IES TYPE 2 DISTRIBUTION	NSP - VERY NARROW SPOT	K19 - KSH19 .156" ACRYLIC
FS - FLAT STEEL	III - ANSI/IES TYPE 3 DISTRIBUTION	SP - SPOT	A - .125" ACRYLIC
RA - REGRESSED ALUMINUM	IV - ANSI/IES TYPE 4 DISTRIBUTION	MD - MEDIUM	B - BAFFLE/LOUVER
RS - REGRESSED STEEL	V - ANSI/IES TYPE 5 DISTRIBUTION	WD - WIDE	C - CLEAR ALZAK
FINISH:		VWD - VERY WIDE	F - FROSTED ACRYLIC
PAF - PAINT AFTER FABRICATION		WW - WALL WASH	G - TEMPERED GLASS
CFSA - COLOR-FINISH SELECTION BY ARCHITECT			K - KSH12 .125" ACRYLIC
(MTG) MOUNTING:	RE - RECESSED		O - OTHER (SEE DESCRIPTION) [DESIGN SPECIFIC BLANKS]
CL - CEILING SURFACE	SP - SUSPENDED		**(WATT) PER:** FIX - FIXTURE, FT - FOOT, LAMP
CV - COVE	SU - SURFACE		**(TYPE) LED**
FR - FLANGED RECESSED	UC - UNDER CABINET		LED - LIGHT EMITTING DIODE
P - PERIMETER	WL - WALL		TLED - TUBULAR LED LAMP
PL - POLE	O - OTHER (SEE DESCRIPTION)		OLED - ORGANIC LED
(TYPE) DRIVER:			DLED - DYNAMIC TUNABLE LED
0-10V - 0-10V DIMMING	EB - ELECTRONIC	HL - HIGH/LOW (100%/50%) STEP DIM	
DALI - DIGITAL ADDRESSABLE	ELV - ELECTRONIC LOW VOLTAGE	LINE - LINE VOLTAGE DIMMING	
DMX - DIGITAL MULTIPLEX	EM - EMERGENCY BATTERY	ML - MULTI-LEVEL SWITCHING	

RGB - COLOR CHANGING LED	
RGBW - COLOR CHANGING + WHITE	
RGBA - COLOR CHANGING + AMBER	
RLED - RETROFIT LED	
WLED - WARM DIM LED	
MV - MULTI-VOLTAGE ELECTRONIC	
REM - REMOTE	
O - OTHER (SEE DESCRIPTION)	

CATALOG NUMBER SHALL NOT BE CONSIDERED COMPLETE AND MATERIAL SHALL NOT BE ORDERED BY MANUFACTURER AND CATALOG NUMBER ONLY. THE COMPLETE DESCRIPTION AND THE SPECIFICATION SHALL BE COORDINATED WITH THE CATALOG NUMBER TO DETERMINE THE EXACT MATERIAL AND ACCESSORIES TO BE ORDERED. THE FIRST MANUFACTURER LISTED IS THE BASIS OF DESIGN.

VERIFY AND COORDINATE ALL CEILING TYPES WITH LUMINAIRE MOUNTING AND TRIM REQUIREMENTS PRIOR TO THE RELEASE OF THE LUMINAIRE ORDER.
CONFIRM ALL COLORS AND FINISHES OF ALL LUMINAIRE COMPONENTS WITH ARCHITECT AND INTERIOR DESIGNER PRIOR TO THE RELEASE OF THE LUMINAIRE ORDER.
UNLESS INDICATED ON LIGHTING PLANS OR BELOW, REFER TO ARCHITECTURAL AND INTERIOR DESIGN ELEVATIONS, SECTIONS AND DETAILS FOR ALL SUSPENDED AND WALL MOUNTED LUMINAIRE MOUNTING HEIGHTS.

REFER TO SPECIFICATION SECTIONS LED LIGHTING 26 51 19 FOR ADDITIONAL INFORMATION AND REQUIREMENTS.
INTERIOR CORRELATED COLOR TEMPERATURE 3500K, COLOR RENDERING INDEX (CRI) AT OR ABOVE 80, UNLESS NOTED OTHERWISE.
ALL DRIVERS SHALL HAVE 10% DIMMING.

				DIMENSIONS				WATT		LED			DRIVER		
ITEM	DESCRIPTION	L/L	MTG	L	W	H	DIA.	ANSI WATTS	PER	TYPE	QTY	DELIVERED LUMENS (MIN)	VOLTS	TYPE	MANUFACTURER AND MODEL
F1	SUSPENDED LED INDIRECT/DIRECT LINEAR LUMINAIRE WITH SQUARE MICRO PROFILE AND TOP GLOW UPLIGHT. HIGH OUTPUT.		SP	4'-0"	2"	2"		13 W	FT	LED	1	1591 LUMENS/FT	120 V	0-10V	FINELITE HPX ID LUMENWERX VIA2 FOCAL POINT SEEM2 OR APPROVED EQUAL

EXISTING PANEL EQ-M-3L

MOUNTING: RECESSED
ENCLOSURE: NEMA 1
FED FROM: 0 A/0P @
LOCATION: Room 24

SINGLE TUB
SOLID NEUTRAL
GROUND BUS

MAIN: 100 A MCB
VOLTS: 120/208 Wye
PHASE: 3
WIRE: 4
SCCR: 10 kA

NOTES: UNLESS NOTED OTHERWISE, ALL CIRCUITS SHALL HAVE 2#12 & 1#12 GND IN 3/4" C., USE #10 FOR CIRCUIT HOME RUN LENGTHS OVER 75 FEET.

KEY	CKT NO.	LOAD DESCRIPTION	OCPD AMPS	P	WIRE SIZE H	N	G	VD %	A	B	C	VD %	WIRE SIZE G	N	H	OCPD P	AMPS	LOAD DESCRIPTION	CKT NO.	KEY
--	1	EXISTING LOADS	20 A	1	--	--	--		0	0				--	--	1	20 A	EXISTING LOADS	2	--
--	3	EXISTING LOADS	20 A	1	--	--	--				0	0		--	--	1	20 A	EXISTING LOADS	4	--
--	5	EXISTING LOADS	20 A	1	--	--	--						0	--	--	1	20 A	EXISTING LOADS	6	--
--	7	EXISTING LOADS	20 A	1	--	--	--		0	0				--	--	1	20 A	EXISTING LOADS	8	--
--	9	EXISTING LOADS	20 A	1	--	--	--				0	0		--	--	1	20 A	EXISTING LOADS	10	--
--	11	EXISTING LOADS	20 A	1	--	--	--						0	--	--	1	20 A	EXISTING LOADS	12	--
--	13	EXISTING LOADS	20 A	1	--	--	--		0	0				--	--	1	20 A	EXISTING LOADS	14	--
--	15	EXISTING LOADS	20 A	1	--	--	--				0	0		--	--	1	20 A	EXISTING LOADS	16	--
--	17	EXISTING LOADS	20 A	1	--	--	--						0	--	--	1	20 A	EXISTING LOADS	18	--
--	19	EXISTING LOADS	20 A	1	--	--	--		0	0				--	--	1	20 A	EXISTING LOADS	20	--
--	21	EXISTING LOADS	20 A	1	--	--	--				0	0		--	--	1	20 A	EXISTING LOADS	22	--
--	23	EXISTING LOADS	20 A	1	--	--	--						0	--	--	1	20 A	EXISTING LOADS	24	--
--	25	EXISTING LOADS	20 A	1	--	--	--		0	0				--	--	1	20 A	EXISTING LOADS	26	--
--	27	EXISTING LOADS	20 A	1	--	--	--				0	0		--	--	1	20 A	EXISTING LOADS	28	--
--	29	EXISTING LOADS	20 A	1	--	--	--						0	--	--	1	20 A	EXISTING LOADS	30	--
--	31	EXISTING LOADS	20 A	1	--	--	--		0	0				--	--	1	20 A	EXISTING LOADS	32	--
--	33	EXISTING LOADS	20 A	1	--	--	--				0	0		--	--	1	20 A	EXISTING LOADS	34	--
--	35	EXISTING LOADS	20 A	1	--	--	--						0	--	--	1	20 A	EXISTING LOADS	36	--
--	37	EXISTING LOADS	20 A	1	--	--	--		0	0				--	--	1	20 A	EXISTING LOADS	38	--
--	39	EXISTING LOADS	20 A	1	--	--	--				0	0		--	--	1	20 A	EXISTING LOADS	40	--
			Total Load:		0.00 kVA				0.00 kVA		0.00 kVA									
			Total Amps:		0.00				0.00		0.00									

LOAD SUMMARY

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	TOTALS*	
				TOTAL CONNECTED LOAD:	0.00 kVA
				TOTAL ESTIMATED DEMAND LOAD:	0 kVA
				TOTAL CONNECTED AMPS:	0.00 A
				TOTAL ESTIMATED DEMAND AMPS:	0 A

*TOTAL DEMAND CALCS SUBTRACT ANY REDUNDANT LOAD AND THE SMALLER OF ANY NONCOINCIDENT HVAC LOADS. THIS CALC IS DONE AT EACH PANEL.

CIRCUIT KEY NOTES:

EXISTING PANEL EQ-M-3R

MOUNTING: RECESSED
ENCLOSURE: NEMA 1
FED FROM: 0 A/0P @
LOCATION: Room 24

SINGLE TUB
SOLID NEUTRAL
GROUND BUS

MAIN: 100 A MCB
VOLTS: 120/208 Wye
PHASE: 3
WIRE: 4
SCCR: 10 kA

NOTES: UNLESS NOTED OTHERWISE, ALL CIRCUITS SHALL HAVE 2#12 & 1#12 GND IN 3/4" C., USE #10 FOR CIRCUIT HOME RUN LENGTHS OVER 75 FEET.

KEY	CKT NO.	LOAD DESCRIPTION	OCPD AMPS	P	WIRE SIZE H	N	G	VD %	A	B	C	VD %	WIRE SIZE G	N	H	OCPD P	AMPS	LOAD DESCRIPTION	CKT NO.	KEY
--	1	EXISTING LOADS	20 A	1	--	--	--		0	0				--	--	1	20 A	EXISTING LOADS	2	--
--	3	EXISTING LOADS	20 A	1	--	--	--				0	0		--	--	1	20 A	EXISTING LOADS	4	--
--	5	EXISTING LOADS	20 A	1	--	--	--						0	--	--	1	20 A	EXISTING LOADS	6	--
--	7	SPARE	20 A	1	--	--	--		0	0				--	--	1	20 A	EXISTING LOADS	8	--
--	9	SPARE	20 A	1	--	--	--				0	0		--	--	1	20 A	EXISTING LOADS	10	--
--	11	SPARE	20 A	1	--	--	--						0	--	--	1	20 A	EXISTING LOADS	12	--
--	13	SPARE	20 A	1	--	--	--		0	0				--	--	1	20 A	EXISTING LOADS	14	--
--	15	SPARE	20 A	1	--	--	--				0	0		--	--	1	20 A	EXISTING LOADS	16	--
--	17	SPARE	20 A	1	--	--	--						0	--	--	1	20 A	SPARE	18	--
--	19	SPARE	20 A	1	--	--	--		0	0				--	--	1	20 A	SPARE	20	--
--	21	SPARE	20 A	1	--	--	--				0	0		--	--	1	20 A	SPARE	22	--
--	23	EXISTING LOADS	20 A	1	--	--	--						0	--	--	1	20 A	SPARE	24	--
--	25	EXISTING LOADS	20 A	2	--	--	--		0	0				--	--	2	20 A	SPARE	26	--
--	27	--	--	--	--	--	--	--			0	0		--	--	--	--	--	28	--
--	29	EXISTING LOADS	20 A	2	--	--	--						0	--	--	2	20 A	SPARE	30	--
--	31	--	--	--	--	--	--	--	0	0				--	--	--	--	--	32	--
--	33	EXISTING LOADS	20 A	2	--	--	--				0	0		--	--	2	20 A	EXISTING LOADS	34	--
--	35	--	--	--	--	--	--	--					0	--	--	--	--	--	36	--
--	37	EXISTING LOADS	20 A	2	--	--	--		0	0				--	--	2	20 A	SPARE	38	--
--	39	--	--	--	--	--	--	--			0	0		--	--	--	--	--	40	--
			Total Load:		0.00 kVA				0.00 kVA		0.00 kVA									
			Total Amps:		0.00				0.00		0.00									

LOAD SUMMARY

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				TOTAL CONNECTED LOAD:	0.00 kVA
				TOTAL ESTIMATED DEMAND LOAD:	0 kVA
				TOTAL CONNECTED AMPS:	0.00 A
				TOTAL ESTIMATED DEMAND AMPS:	0 A

*TOTAL DEMAND CALCS SUBTRACT ANY REDUNDANT LOAD AND THE SMALLER OF ANY NONCOINCIDENT HVAC LOADS. THIS CALC IS DONE AT EACH PANEL.

CIRCUIT KEY NOTES:

SHEET PRINTED: 10/3/2024 11:40:45 AM

DELV DESIGN

PURDUE UNIVERSITY

LILY HALL TEACHING LAB 1-129 RENOVATION

ARCHITECT
DELV Design
212 W 10th St, STE F125
Indianapolis, IN 46202
(317) 296-7400

MEP
IMEG
8900 Keystone Crossing #210
Indianapolis, IN 46240
(317) 848-5045

100% CONSTRUCTION DOCUMENTS

CHRISTOPHER J. EDWARDS REGISTERED No. 11400159 STATE OF INDIANA PROFESSIONAL ENGINEER
10.03.24

No.	Description	Date

PROJECT #: 24005124.00
ISSUE DATE: 10.03.2024
DRW: RT | CHK: CJE

ELECTRICAL SCHEDULES

E600