

APPLICABLE CODES				
	WITH APPLICABLE CODES AND LOC UT NOT LIMITED TO, THE FOLLOWING			
BUILDING CODE:	INDIANA BUILDING CODE 2014 EDITION	WITH AMENDMENTS		
FIRE CODE:	INDIANA FIRE CODE 2014 EDITION	WITH AMENDMENTS		
PLUMBING CODE:	INDIANA PLUMBING CODE 2014 EDITION	WITH AMENDMENTS		
MECHANICAL CODE:	INDIANA MECHANICAL CODE 2014 EDITION	WITH AMENDMENTS		
ELECTRICAL CODE:	INDIANA ELECTRICAL CODE 2009 EDITION (NFPA 70-2008)	WITH AMENDMENTS		
ENERGY CONSERVATION CODE:	INDIANA ENERGY CONSERVATION CODE 2010	WITH AMENDMENTS		
LOCAL BUILDING CODE:	CURRENT EDITION			

	CONTRACTOR ABBREVIATION KEY			
ABBR:	DESCRIPTION:			
A.C.	ASBESTOS ABATEMENT CONTRACTOR			
A.V.C.	AUDIO/VISUAL CONTRACTOR			
C.C.	CIVIL CONTRACTOR			
C.M.	CONSTRUCTION MANAGER			
E.C.	ELECTRICAL CONTRACTOR			
F.P.C.	FIRE PROTECTION CONTRACTOR			
F.S.C.	FOOD SERVICE CONTRACTOR			
G.C.	GENERAL CONTRACTOR			
H.C.	HEATING CONTRACTOR			
M.C.	MECHANICAL CONTRACTOR			
N.C.C.	NURSE CALL CONTRACTOR			
P.C.	PLUMBING CONTRACTOR			
S.C.	SECURITY CONTRACTOR			
T.C.	TECHNOLOGY CONTRACTOR			
T.C.C.	TEMPERATURE CONTROLS CONTRACTOR			
V.C.	VENTILATION CONTRACTOR			

ABBR:	DESCRIPTION:		
ABV	ABOVE		
AFC	ABOVE FINISHED CEILING		
AFF	ABOVE FINISHED FLOOR		
AFG	ABOVE FINISHED GRADE		
ASR	ARCHITECTURAL SURFACE RACEWAY		
ВС	BELOW COUNTER		
С	CONDUIT (BRANCH CIRCUIT OR FEEDER CONTEXT)		
CO	CONDUIT AND BOX ROUGH-IN ONLY (ROUGH-IN ONLY)		
EG	EQUIPMENT GROUND		
EGC	EQUIPMENT GROUNDING CONDUCTOR		
NC	NORMALLY CLOSED		
NEMA#	NEMA RATING		
NIC	NOT IN CONTRACTED SCOPE		
NO	NORMALLY OPEN		
ROOF	EQUIPMENT LOCATED ON ROOF ABOVE		
SM	SURFACE MOUNTED		
TYP	TYPICAL		
UG	UNDERGROUND		
UON	UNLESS OTHERWISE NOTED		

	ELECTRICAL SYMBOL LIST			
SYMBOL:	TAG:	SPEC SECTION:	DESCRIPTION:	
	<u>ECONN</u>	26 05 33	ELECTRICAL CONNECTION	
J	<u>JB</u>	26 05 33	JUNCTION BOX	
	<u>FB-#</u> or <u>PT-#</u>	26 27 26	FLOOR BOX or POKE THROUGH	
RI V	RI-TECH	26 05 33	TECHNOLOGY OUTLET ROUGH-IN	
⊘ RI	RI-TECH-C	26 05 33	TECHNOLOGY ROUGH-IN, CEILING	
W/RI	RI-TECH-W	26 05 33	TECHNOLOGY ROUGH-IN, WALL PHONE	
TV	<u>RI-TV</u>	26 05 33	TV ANTENNA OUTLET ROUGH-IN	
	<u>WM-#</u>	26 05 35	MULTI OUTLET SYSTEM	
•	<u>WW-#</u>	26 05 35	ELECTRICAL WIREWAY w/ DEVICES SHOWN	
	PANEL '###'	26 24 16	PANELBOARD - RECESS MOUNT	
	PANEL '###'	26 24 16	PANELBOARD - SURFACE MOUNT	
	MX-#/MS-# /CB-#/CS-# /MD-#/FS-# /AS-#/SS-#/ MCS-#/ AMS-#	26 24 19 26 28 16	SURFACE OR RECESS MOUNTED MANUAL SWITCH / STARTER / COMBINATION STARTER/CIRCUIT BREAKER. MANUAL DISCONNECT / FUSED SWITCH (PLUG FUSE) / AUTOMATIC STARTER / SOLID STATE - SOFT STARTER / COMBINATION STARTER / MOTOR CIRCUIT PROTECTOR / ASSEMBLED MOTOR STARTER. REFER TO DISC/STA SCHEDULE.	
	FCS-#	26 28 16	FUSED COMBINATION STARTER REFER TO DISC/STA STARTER	
\$ ##	<u>SW-1P</u>	26 09 33	SWITCH SUBSCRIPTS: BLANK = SINGLE POLE	
	SW-3W SW-4W SW-D SW-D3 SW-D0		3 = THREE WAY 4 = FOUR WAY D = DIMMER - STAND ALONE D3=DIMMER - THREE WAY WITH S3 TYPE DO=DIMMER - OCCUPANCY/VACANCY SENSORS - DUAL TECHNOLOGY ULTRASONIC/ACOUSTIC AND PIR	
♡ ##	<u>SW-O</u>	26 09 33	O = DUAL TECHNOLOGY OCCUPANCY SENSOR WITH WALL SWITCH VACANCY SENSOR - CEILING MOUNTED SUBSCRIPTS: BLANK = DUAL TECHNOLOGY	
E\\ #	<u>FA-211</u>		COMBINATION AUDIO HORN/CHIME AND VISUAL ALARM DEVICE, WALL MOUNTED # = CANDELA RATING	

LU	LUMINAIRE CIRCUIT AND CONTROL KEY				
LUMINAIRE	F1 = FIXTURE TAG 1 = CIRCUIT NUMBER a = SWITCH DESIGNATION z1=ZONE DESIGNATION "NL" INDICATES LUMINAIRE IS UNSWITCHED FOR NIGHT LIGHT. "SE" INDICATES LUMINAIRE IS SWITCHED/CONTROLLED DURING NORMAL OPERATION AND OPERATES FROM EMERGENCY BATTERY (EXTEND UNSWITCHED CIRCUIT LEG TO BATTERY) UPON LOSS OF POWER. *IF LABEL IS ORIENTED HORIZONTALLY A SLASH WILL SEPARATE THIS INFORMATION. EX: F1 / 1 / a / NL				

RECEPTACLE SUBSCRIPT KEY:

DEVICE KEY:				
DEVICE₽	# = MOUNTING (IF APPLICABLE) 1 = CIRCUIT NUMBER			
	*IF LABEL IS ORIENTED HORIZONTALLY A SLASH WILL SEPARATE THIS INFORMATION. EX: A / 1			
ELECTRICA	AL MOUNTING SUBSCRIPT KEY:			
Α	MOUNT AT +6" TO CENTERLINE ABOVE COUNTER OR BACKSPLASH			
С	MOUNT AT CEILING (DEVICE OR ROUGH-IN CONTEXT)			
Н	MOUNT ORIENTED HORIZONTALLY			
L	MOUNT IN CASEWORK			
М	MOUNT IN MODULAR FURNITURE			
0	WIRING DEVICE, OCCUPANCY CONTROLLED			
R	MOUNT IN SURFACE RACEWAY			
S	SURFACE MOUNTED			
W	WEATHERPROOF WIRING DEVICE, NEMA 3R WHILE-IN-USE COVER, WR LISTED			
WG	WIRE GUARD			
WP	WEATHERPROOF			

ELECTRICAL SHEET INDEX			
E000	ELECTRICAL COVERSHEET		
E101	FIRST FLOOR MEP DEMOLITION PLAN		
E211	FIRST FLOOR LIGHTING PLAN		
E221	FIRST FLOOR POWER & SYSTEMS PLAN		
E222	FIRST FLOOR TECHNOLOGY PLAN		
E400	ELECTRICAL DETAILS		
E600 ELECTRICAL SCHEDULES			
GRAND TOTAL: 7			

	ELECTRICAL SYMBOL LIST			
SYMBOL:	TAG:	SPEC SECTION:	DESCRIPTION:	
⊕ 0	REC-DUP-O	26 27 26	DUPLEX RECEPTACLE CONTROLLED BY OCCUPANCY	
⇒ 0	REC-QUAD-O	26 27 26	QUAD RECEPTACLE CONTROLLED BY OCCUPANCY	
⇒	REC-DUP	26 27 26	DUPLEX RECEPTACLE, 125V	
≒	REC-DUP-GFI	26 27 26	DUPLEX GFI RECEPTACLE, 125V	
G	REC-DUP-GFI-R	26 27 26	GROUND FAULT DEVICE	
₩	REC-DUP-WP	26 27 26	DUPLEX GFI WEATHERPROOF RECEPTACLE 125	
⇒ ′′	REC-DUP-XP	26 27 26	DUPLEX RECEPTACLE, EXPLOSION PROOF, 125\	
=● ^ `	REC-ISO	26 27 26	ISOLATED GROUND RECEPTACLE, 125V	
⇒ s	REC-ISO-SUR	26 27 26	ISOLATED GROUND RECEPTACLE WITH SURGE SUPPRESSION, 125V	
- ⊕ S	REC-ISO- SUR-QUAD	26 27 26	ISOLATED GROUND QUAD RECEPTACLE WITH SURGE SUPPRESSION, 125V	
⇒ ∪	REC-USB	26 27 26	DUPLEX RECEPTACLE, USB CHARGING	
⇒	REC-ARC	26 27 26	ARC FAULT CIRCUIT INTERRUPTER RECEPT 125	
⇔ AF	REC-AFGF	26 27 26	REC AFCI, GFCI, TAMPER RESISTANT	
-0	REC-SIM-520R	26 27 26	SIMPLEX RECEPTACLE, 125V	
-	REC-SIM-530R	26 27 26	RECEPTACLE, 125V	
=	REC-SIM-550R	26 27 26	RECEPTACLE 125V, 50A, 125V	
-8	REC-SIM-620R	26 27 26	RECEPTACLE, 6-20R, 250V	
	REC-SIM-630R	26 27 26	RECEPTACLE, 6-30R, 250V	
#	REC-SIM-650R	26 27 26	RECEPTACLE, 6-50R, 250V	
+	REC-SIM-720R	26 27 26	RECEPTACLE, 7-20R, 277V	
-	REC-SIM-730R	26 27 26	RECEPTACLE, 7-30R, 277V	
•	REC-SIM-750R	26 27 26	RECEPTACLE, 7-50R, 277V	
\Rightarrow	REC-SIM-1420R	26 27 26	RECEPTACLE, 14-20R, 125/250V	
→	REC-SIM-1430R	26 27 26	RECEPTACLE, 14-30R, 125/250V	
⇒	REC-SIM-1450R	26 27 26	RECEPTACLE, 14-50R, 125/250V	
≠	REC-SIM-1460R	26 27 26	RECEPTACLE, 14-60R, 125/250V	
-€	REC-SIM-1520R	26 27 26	RECEPTACLE, 15-20R, 250V, 3PH	
≠	REC-SIM-1530R	26 27 26	RECEPTACLE, 15-30R, 250V, 3PH	
≢	REC-SIM-1550R	26 27 26	RECEPTACLE, 15-50R, 250V, 3PH	
⊸l	REC-SIM-1560R	26 27 26	RECEPTACLE, 15-60R, 250V, 3PH	
-Ө _X	REC-SIM-XP	26 27 26	RECEPTACLE, EXPLOSION PROOF, 125V	
€>	REC-TAMP	26 27 26	DUPLEX RECEPTACLE, TAMPER RESISTANT, 129	
₩)	REC-TAMP-GFI	26 27 26	GFI DUPLEX RECEPTACLE, TAMPER RESISTANT, 125V	
=⊕ >	REC-TAMP-QUAD	26 27 26	QUAD RECEPTACLE, TAMPER RESISTANT, 125V	
#	REC-QUAD	26 27 26	QUAD RECEPTACLE, 125V	
*	REC-QUAD-GFI	26 27 26	QUAD GFI RECEPTACLE, 125V	
-⇔ ∪	REC-QUAD-USB	26 27 26	QUAD RECEPTACLE, USB 125V	
₩ _W	REC-QUAD-WP	26 27 26	QUAD GFI WEATHERPROOF RECEPTACLE, 125V	
	REC-DUP-PED	26 27 26	RECEPTACLE - PEDESTAL STYLE	
	REC-PED-QUAD	26 27 26	RECEPTACLE - PEDESTAL STYLE	
# [©]	REC-Z#	26 27 26	IEC PIN AND SLEEVE RECEPTACLE, 600V	
 I	PP#	26 27 23	POWER POLE	

SYMBOL:	EQUIPMENT LIST ABBREV.:	DESCRIPTION:	NOTE
C# ▼	SC-IO-W	INFORMATION OUTLET (WALL)	
∇	N/A	INFORMATION OUTLET (WALL) EXISTING	
WAP	SC-WAP-W	WIRELESS ACCESS WITH POINT ENCLOSURE (WALL)	
WAP	N/A	WIRELESS ACCESS POINT WITH ENCLOSURE (WALL) EXISTING	
<u></u>	AV-SP1-C	AV PERFORMANCE SPEAKER (CEILING)	
		GENERAL NOTES:	

ALL SYMBOLS LISTED ABOVE ARE FOR REFERENCE ONLY. REFER TO PLANS AND LINE TYPE

KEY FOR NEW, EXISTING TO REMAIN AND TO BE REMOVED ITEMS FOR ADDITIONAL

INFORMATION.

ELECTRICAL RENOVATION NOTES:

THESE NOTES APPLY TO ALL ELECTRICAL SHEETS AND TRADES, INCLUDING BUT NOT LIMITED TO, LIGHTING, POWER, FIRE ALARM, AND OTHER LOW VOLTAGE SYSTEMS.
1. EXISTING CONDITIONS ARE SHOWN BASED ON INFORMATION OBTAINED FROM FIELD SURVEYS, EXISTING BUILDING DOCUMENTS. CONTRACTOR SHALL REVIEW EXISTING CONDITIONS AND REPORT CONFLICTS.
2. NOT ALL EXISTING EQUIPMENT, LUMINAIRES, AND CONDUIT ARE SHOWN. CONTRACTOR

NOT ALL EXISTING EQUIPMENT, LUMINAIRES, AND CONDUIT ARE SHOWN. CONTRACTOR SHALL REVIEW EXISTING CONDITIONS AND REPORT CONFLICTS.
 CONTRACTOR SHALL REVIEW EXISTING CONDITIONS PRIOR TO FABRICATION OF CABLE TRAY, BUSWAY, CONDUIT RACKS, AND OTHER SYSTEMS. RISES AND DROPS MAY BE

NECESSARY BECAUSE OF EXISTING FIELD CONDITIONS.

4. ELECTRICAL CONTRACTOR SHALL REVIEW EXISTING CONDITIONS TO VERIFY ACCESSIBILITY TO THE AREAS OF THEIR WORK INCLUDING WALLS, FLOOR, CEILINGS, CEILING TILES/GRID, AND ROOF. ELECTRICAL CONTRACTOR IS RESPONSIBLE TO PROVIDE CUTTING, REMOVAL, PATCHING, AND REINSTALLATION OF AFFECTED AREAS ASSOCIATED WITH THEIR WORK BY COORDINATING WITH THE GENERAL CONTRACTOR OR QUALIFIED CONTRACTOR.

5. WHERE EXISTING ELECTRICAL SYSTEMS ARE LOCATED IN AREAS THAT CONFLICT WITH NEW EQUIPMENT, PIPING, OR DUCTWORK TO BE INSTALLED, EACH CONTRACTOR SHALL EITHER ARRANGE NEW EQUIPMENT, CONDUIT, OR DUCTWORK IN SUCH A FASHION THAT IT DOES NOT CONFLICT WITH EXISTING SYSTEMS, OR REWORK EXISTING ELECTRICAL SYSTEMS TO ALLOW FOR INSTALLATION OF NEW EQUIPMENT, PIPING, OR DUCTWORK.

ELECTRICAL INSTALLATION NOTES:

 THE COMPLETE INSTALLATION SHALL BE IN ACCORDANCE WITH THE ADA STANDARDS FOR ACCESSIBLE DESIGN. REFER TO THE ADA GUIDELINES FOR ALL CONFIGURATION DETAILS ON THIS PAGE FOR ADDITIONAL INFORMATION.
 CIRCUIT NUMBERS ARE SHOWN FOR CIRCUIT IDENTIFICATION. CIRCUITING SHALL AGREE

WITH NUMBERING ON THE PANEL PROVIDED. COMMON NEUTRALS MAY NOT BE USED FOR BRANCH CIRCUITS. BALANCE THE LOAD ON PANEL AS EVENLY AS POSSIBLE BETWEEN EACH PHASE.

3. LIFE SAFETY, CRITICAL, EQUIPMENT BRANCH WIRING FOR FEEDERS AND BRANCH CIRCUITS SHALL BE ROUTED IN SEPARATE RACEWAY, JUNCTION BOXES, PULL BOXES, AND CABINETS. WIRING FOR EACH BRANCH SHALL BE INDEPENDENT FROM OTHER BRANCHES, INCLUDING

THE NORMAL BRANCH.
4. FLUSH MOUNT ALL LIGHTING CONTROL DEVICES AT +42" FROM FLOOR (CENTERLINE DIMENSION), EXCEPT WHERE OTHERWISE NOTED.
5. FLUSH MOUNT ALL DUPLEX RECEPTACLES AND TECHNOLOGY OUTLETS AT +18" FROM FLOOR (CENTERLINE DIMENSION), EXCEPT WHERE OTHERWISE NOTED. RECEPTACLES AND

OUTLETS MAY BE SURFACE MOUNTED WHEN CONDUIT IS SPECIFIED EXPOSED. MOUNT EXTERIOR LOCATED RECEPTACLES WITH WHILE-IN-USE COVERS AT +20" FROM FINISHED GRADE (CENTER DIMENSIONS) TO MAINTAIN INSTALLATION ADA COMPLIANCE.

6. ALL MATERIALS USED TO SEAL PENETRATIONS OF FIRE RATED WALLS AND FLOORS SHALL BE TESTED AND CERTIFIED AS A SYSTEM PER ASTM E814 STANDARDS FOR FIRE TESTS OF

BE TESTED AND CERTIFIED AS A SYSTEM PER ASTM E814 STANDARDS FOR FIRE TESTS OF THROUGH-PENETRATION FIRESTOPS. REFER TO DIVISION 7 FOR ADDITIONAL INFORMATION AND REQUIREMENTS SPECIFIC TO FIRESTOPPING.

7. INSTALL ALL WALL MOUNTED FIRE ALARM NOTIFICATION DEVICES AT 90" ABOVE FINISHED FLOOR OR 6" BELOW THE CEILING, WHICHEVER IS LOWER, EXCEPT WHERE OTHERWISE

NOTED. HEIGHT SHALL BE MEASURED TO THE TOP OF THE DEVICE.

8. CONTRACTOR SHALL COORDINATE THE LOCATION OF ALL CEILING MOUNTED DEVICES AND EQUIPMENT WITH LUMINAIRES, SPRINKLER, AND CEILING DIFFUSERS. CENTER ALL DEVICES IN CEILING TILE PATTERN. SMOKE DETECTORS, CARBON MONOXIDE DETECTORS, AND OCCUPANCY/VACANCY SENSORS SHALL BE LOCATED NO CLOSER THAN 3 FEET TO AN AIR SUPPLY DIFFUSER OR RETURN GRILLE. CARBON MONOXIDE DETECTORS SHALL BE LOCATED 10 PLUS FT FROM FIRE PLACES, COOKING, AND SIMILAR FUEL-BURNING APPLIANCES.

10 PLUS FT FROM FIRE PLACES, COOKING, AND SIMILAR FUEL-BURNING APPLIANCES.

9. CONTRACTOR SHALL VERIFY ALL FURNITURE, MODULAR FURNITURE, AND EQUIPMENT LOCATIONS WITH ARCHITECTURAL PLANS, ELEVATIONS, AND REVIEWED SHOP DRAWINGS. PRIOR TO MAKING THE ACTUAL ELECTRICAL INSTALLATION, THIS CONTRACTOR SHALL ADJUST RECEPTACLES, OUTLETS, OR CONNECTION LOCATIONS TO ACCOMMODATE FURNITURE AND/OR EQUIPMENT.

ELECTRICAL AND TECHNOLOGY EQUIPMENT SHALL BE MOUNTED TO AVOID IMPEDANCE OF, OPERATION OF, AND/OR ACCESS TO ELECTRICAL AND MECHANICAL EQUIPMENT. ALL MOUNTING OF ELECTRICAL AND TELECOMMUNICATIONS EQUIPMENT, ON EQUIPMENT SUPPLIED BY ANOTHER CONTRACTOR, SHALL BE APPROVED IN ADVANCE BY THE OTHER CONTRACTOR.
 CONTRACTOR SHALL BE RESPONSIBLE FOR ALL OPENINGS REQUIRED IN WALLS. ALL

OPENINGS SHALL BE REPAIRED TO MATCH EXISTING BY A QUALIFIED CONTRACTOR AT THE EXPENSE OF THIS CONTRACTOR. ALL CONDUITS THROUGH WALLS SHALL BE GROUTED OR SEALED INTO OPENINGS.
12. EACH CONTRACTOR IS RESPONSIBLE FOR DAMAGE CAUSED BY THEIR ACTIONS TO THE WALLS, FLOORS, CEILINGS, AND ROOFS. THE CONTRACTOR WHOSE WORK CAUSES DAMAGE IS RESPONSIBLE FOR PATCHING TO MATCH ORIGINAL CONSTRUCTION, FIRE RATING, AND

14. ELECTRICAL IDENTIFICATION. REFER TO SPECIFICATION SECTION 26 05 53 FOR COLOR/LABEL

FINISH.

13. REFER TO ARCHITECTURAL REFLECTED CEILING PLAN, ELECTRICAL, TECHNOLOGY AUDIO/VISUAL, AND OTHER ELECTRICAL PLANS FOR EXACT LOCATIONS OF ALL CEILING MOUNTED DEVICES, OTHER THAN SPRINKLERS.

REQUIREMENTS FOR CONDUIT, BOX, CABLE/WIRE, AND EQUIPMENT.

DELV



LILY HALL TEACHING LAB 1-129 RENOVATION

ARCHITECT

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100% CONSTRUCTION DOCUMENTS



No.	Description	Date

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

ELECTRICAL COVERSHEET

E000

