

ADDENDUM

BC Industrial Tech Electrical Lab Remodel Bakersfield College Kern Community College District 550-0049

> Total Addendum includes: [4] 8.5" x 11" Sheets [9] 30"x42" Drawings

Date: May 9, 2024

To: All Bidders

Subject: Addendum #1

NOTICE TO CONTRACTORS FIGURING THIS WORK

You are hereby notified of the following changes in the Plans and Specifications, which shall take precedence over anything to the contrary therein.

Item # Description

1.1 Refer to Specification 011000 Summary of Work:

1.1.1 Owner to provide (1) One 20'-0" Sea Train Container for temporary storage of all items remaining in Labs IT-5 and IT-6 during the remodel period. This Contractor will be responsible for moving the items into storage and then back into Labs as directed by Owner.

1.2 Refer to Architectural Drawing A2.20 PARTIAL FLOOR PLAN:

1.2.1 Clarification: Refer to Electronic Labs IT-5 and IT-6, all cabinetries shown to be provided and installed by Vendor. This Contractor will provide all necessary plumbing required to install Sink and Faucet.

1.3 Add attached ELECTRICAL DRAWINGS into Construction Document Set:

- 1.3.1 E1.00 DEMO LIGHTING PLAN
- 1.3.2 E1.01 DEMO POWER PLAN
- 1.3.3 E1.02 DEMO FIRE ALARM PLAN
- 1.3.4 E2.00 LIGHITNG PLAN
- 1.3.5 E2.01 POWER PLAN
- 1.3.6 E2.02 FIRE ALARM PLAN
- 1.3.7 E3.00 SYMBOLS, SCHEDULES, DETAILS
- 1.3.8 E3.01 LINE DIAGRAMS, PANEL SCHEDULES

1.4 Refer to Specification Section 012100 Allowances, 3.3 SCHEDULE OF BASE BID ALLOWANCES:

1.4.1 Add item "B. ALLOWANCE NO. 2: INCLUDE A LUMP SUM ALLOWANCE OF \$10,000 FOR USE TO REMOVE NECESSARY ELECTRICAL ITEMS ON THE NORTH AND EAST WALL OF IT-6 ELECTRONICS LAB. CONTRACTOR TO WORK WITH OWNER ON WHAT BOXES AND CONDUIT WILL NEED TO BE REMOVED AND TERMINATED BACK TO SOURCE. THIS DEMO WORK TO BE PERFORMED ON T&M BASIS AND CHARGED TO THIS ALLOWANCE".

1.5 Refer to Architectural Drawing A2.10 PARTIAL DEMOLITION FLOOR PLAN:

1.5.1 Refer to Demolition Keynote 01: Change keynote to read, "EXISTING RAISED FLOOR SYSTEM WITH LAY-IN PANELS. PANELS TO BE REPLACED- SEE FLOOR PLAN/ SPECS".

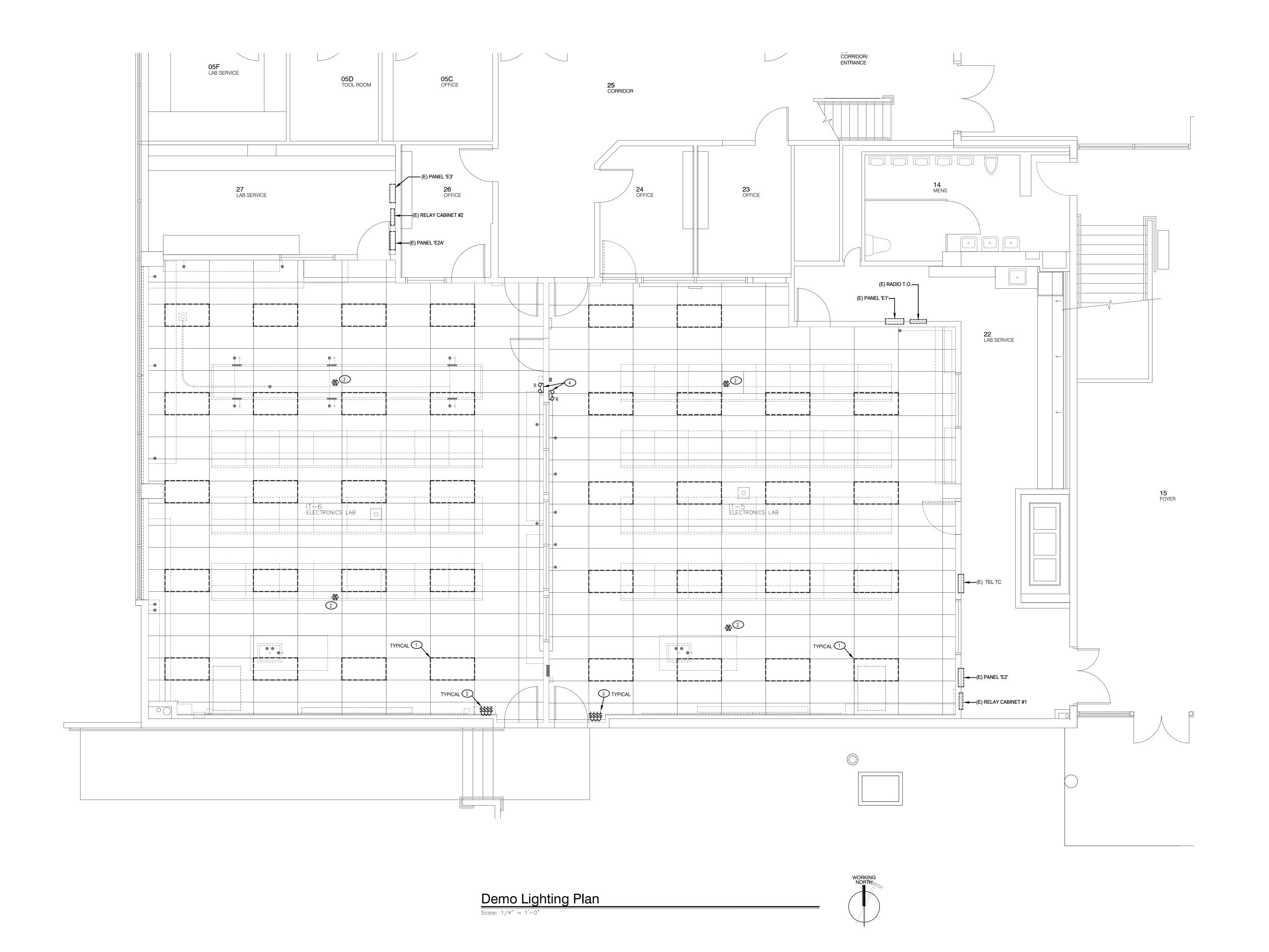
1.6 Refer to Architectural Drawing A2.20 PARTIAL FLOOR PLAN:

1.6.1 Refer to Demolition Keynote 06: Change keynote to read, "EXISTING RAISED FLOOR SYSTEM WITH LAY-IN PANELS. PANELS TO BE REPLACED- SEE SPECIFICATIONS/ SPECS".



- 1.7 Refer to Architectural Drawing A5.20 REFLECTED CEILING PLAN:
 - 1.7.1 Replace Sheet A5.20 REFLECTED CEILING PLAN in its entirety with attached A5.20.
- 1.8 Refer to Architectural Drawing A8.00 SCHEDULES/ DETAILS:
 - 1.8.1 Add attached **Drawing AD1.01**, Detail 23 for ceiling reel attachments- refer to Addendum Drawing A5.20 for more information.
- 1.9 Refer to Architectural Drawing A0.00 TITLE SHEET:
 - 1.9.1 Refer to SCOPE OF WORK: Remove verbiage "A. REPLACE EX NON BEARING PARTITION".
- 1.10 Refer to Architectural Drawing A2.20 PARTIAL FLOOR PLAN:
 - 1.10.1 Refer to attached **Drawing AD1.02** for changes to East Wall of IT-5 Electronics Lab.

End of addendum



GENERAL ELECTRICAL DEMOLITION NOTES:

 ELECTRICAL CONTRACTOR SHALL REFER TO ALL CONSTRUCTION DOCUMENTS FOR ADDITIONAL ELECTRICAL DEMOLITION WORK REQUIRED. ALL ELECTRICAL DEMOLITION WORK SHALL BE DONE AS DIRECTED BY ARCHITECT AND/OR OWNER. VERIFY ALL WORK REQUIRED IN FIELD PRIOR TO SUBMITTING BID AND PRIOR TO STARTING WORK.

- 2. ALL EXISTING FIXTURES AND DEVICES REMOVED SHALL BE REMOVED FROM SITE.
- 3. WHERE EXISTING LIGHTING FIXTURES, ELECTRICAL DEVICES AND EQUIPMENT THAT REMAIN ARE NOTED TO BE RECONNECTED, CONTRACTOR SHALL BE PERMITTED TO REUSE EXISTING CONDUITS IF AVAILABLE. OTHERWISE PROVIDE NEW CONDUITS AND WIRING AS REQUIRED.
- 4. U.O.N., WHERE EXISTING ELECTRICAL IS TO BE AND/OR NOTED TO BE REMOVED, CONTRACTOR SHALL REMOVE ALL EXISTING CONNECTION, DEVICES, OUTLET BOXES, CONDUITS AND WIRING. PATCH WALLS AND/OR CEILINGS AS DIRECTED BY ARCHITECT. WHERE LOCATED IN BLOCK WALLS, CONTRACTOR SHALL REMOVE EXISTING DEVICES AND WIRING. BLANK OFF EXISTING OUTLETS. WHERE EXISTING CONDUITS ARE RUN UNDERGROUND, CONTRACTOR SHALL REMOVE EXISTING WIRING AND REMOVE PORTION OF CONDUITS ABOVE GRADE. EXISTING UNDERGROUND CONDUITS SHALL BE ABANDONED IN PLACE.
- 5. WHERE NEW OUTLETS AND CONDUITS ARE SHOWN TO BE INSTALLED IN EXISTING STUD WALLS, CONTRACTOR SHALL CUT AND PATCH EXISTING WALLS FOR NEW OUTLET BOXES AND CONDUITS. AREA OF NEW WORK SHALL BE REFINISHED TO MATCH EXISTING CONDITIONS.

DEMO LIGHTING PLAN NOTES:

- 1 TYPICAL: EXISTING LIGHTS AND RELATED CONDUIT AND WIRING TO REMAIN.
- 2 TYPICAL: EXISTING OCCUPANCY SENSOR AND RELATED CONDUIT AND WIRING TO REMAIN.
- DENOTES EXISTING LIGHT SWITCHES. REMOVE AND REMOUNT TO EXISTING WALL WITH NEW FINISH. CONDUIT AND WIRING TO BE REUSED. VERIFY WORK REQUIRED IN FIELD.

 EXISTING EMERGENCY LIGHT TO BE REPLACED WITH NEW. REMOVE EXISTING EMERGENCY LIGHT. NEW EMERGENCY LIGHT TO BE RECONNECTED TO EXISTING CONDUIT AND WIRING.



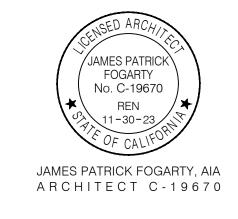
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BC TECHNOLOGY LAB REMODEL

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PROJECT INFO

Project No 550-0049

Date 05.02.24

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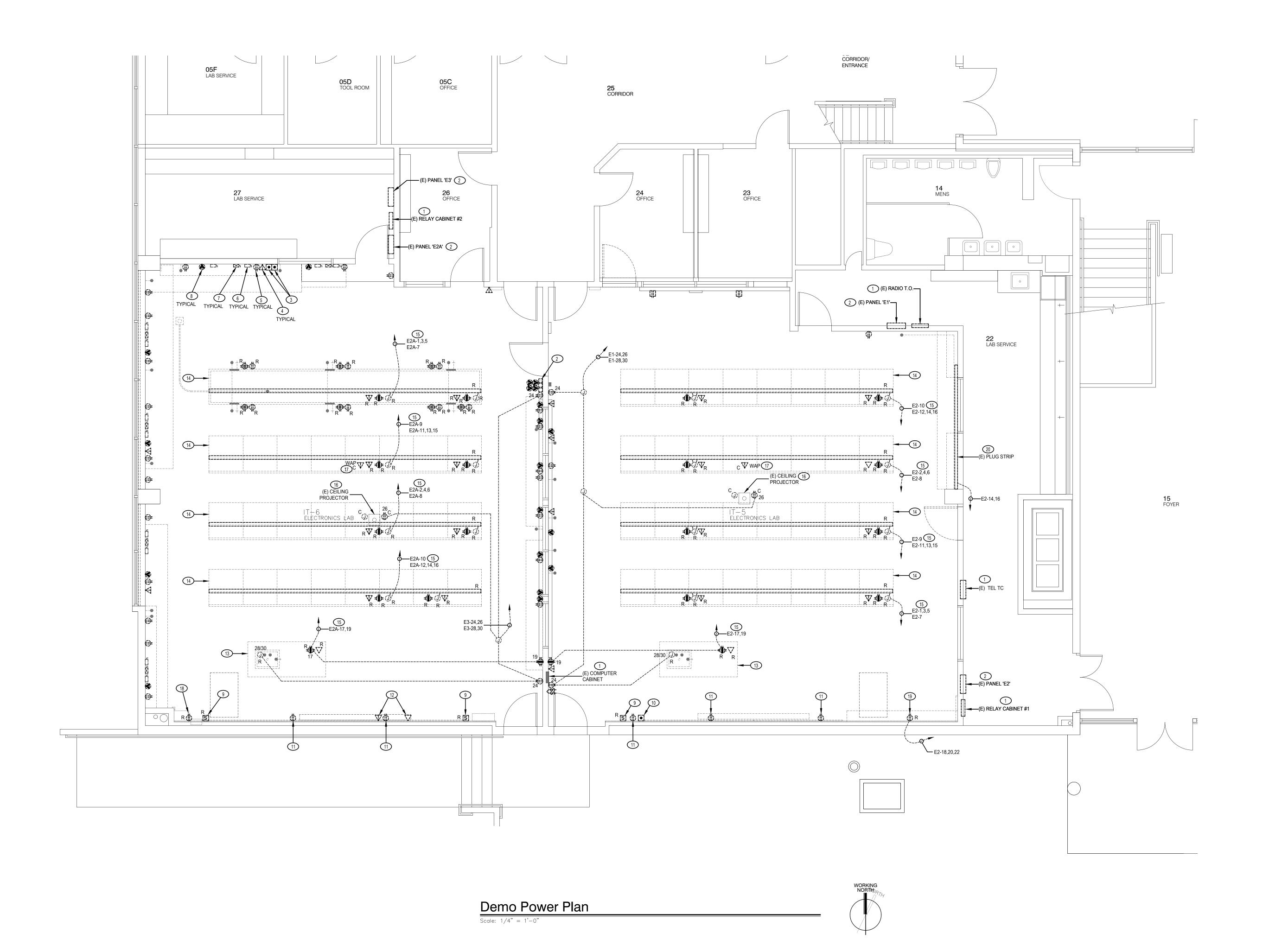
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00.00.08 DESCRIPTION

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DEMO LIGHTING PLAN

E1.00



DEMO POWER PLAN NOTES:

1) TYPICAL: UNLESS NOTED OTHERWISE, EXISTING ELECTRICAL TO REMAIN.

2 EXISTING PANEL TO REMAIN AND TO BE REUSED.

3 EXISTING EMERGENCY PUSH BUTTONS TO REMAIN.

TYPICAL: UNLESS NOTED OTHERWISE, EXISTING TEL/DATA OUTLET AND RELATED CONDUIT AND WIRING TO REMAIN.

5 TYPICAL: UNLESS NOTED OTHERWISE, EXISTING RECEPTACLE AND RELATED CONDUIT AND WIRING TO REMAIN.

TYPICAL: UNLESS NOTED OTHERWISE, EXISTING FUSED DISCONNECT AND RELATED CONDUIT AND WIRING TO REMAIN.

7 TYPICAL: UNLESS NOTED OTHERWISE, EXISTING MAG STARTER AND RELATED CONDUIT AND WIRING TO

8 TYPICAL: EXISTING 250V RECEPTACLE TO REMAIN.

9 REMOVE EXISTING SPEAKER AND RELATED CONDUIT AND WIRING. RETURN SPEAKER TO OWNER.

10) EXISTING EMERGENCY PUSH BUTTON. REMOVE AND REMOUNT TO EXISTING WALL WITH NEW FINISH. CONDUIT AND WIRING TO BE REUSED. VERIFY WORK REQUIRED IN FIELD.

VERIFY EXISTING RECEPTACLES ON THIS WALL. REMOVE AND REMOUNT TO EXISTING WALL WITH NEW FINISH. CONDUIT AND WIRING TO BE REUSED. VERIFY WORK REQUIRED IN FIELD.

VERIFY EXISTING TEL/DATA OUTLETS ON THIS WALL. REMOVE AND REMOUNT TO EXISTING WALL WITH NEW FINISH. CONDUIT AND WIRING TO BE REUSED. VERIFY WORK REQUIRED IN FIELD.

(13) TYPICAL: REMOVE EXISTING ELECTRICAL AT TEACHER'S STATION AND RELATED CONDUIT AND WIRING.

14 TYPICAL: REMOVE EXISTING ELECTRICAL AT WORKSTATION AND RELATED CONDUIT AND WIRING.

15 REMOVE EXISTING HOMERUN CONDUIT AND WIRING.

(16) EXISTING CEILING PROJECTOR, RECEPTACLE, PROJECTOR OUTLET AND RELATED CONDUIT AND WIRING TO REMAIN.

17 EXISTING CEILING MOUNTED WIRELESS ACCESS POINT TO REMAIN.

18 REMOVE RECEPTACLE AND RELATED CONDUIT AND WIRING.

(19) REMOVE EXISTING RECEPTACLE. EXTEND EXISTING RECEPTACLE JUNCTION BOX AND BLANK OFF IN NEW CABINET BASE.

20) REMOVE EXISTING PLUG STRIP. REPLACE WITH NEW WALL OUTLETS. REUSE EXISTING HOMERUN OR PROVIDE NEW AS REQUIRED.



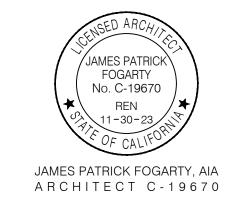
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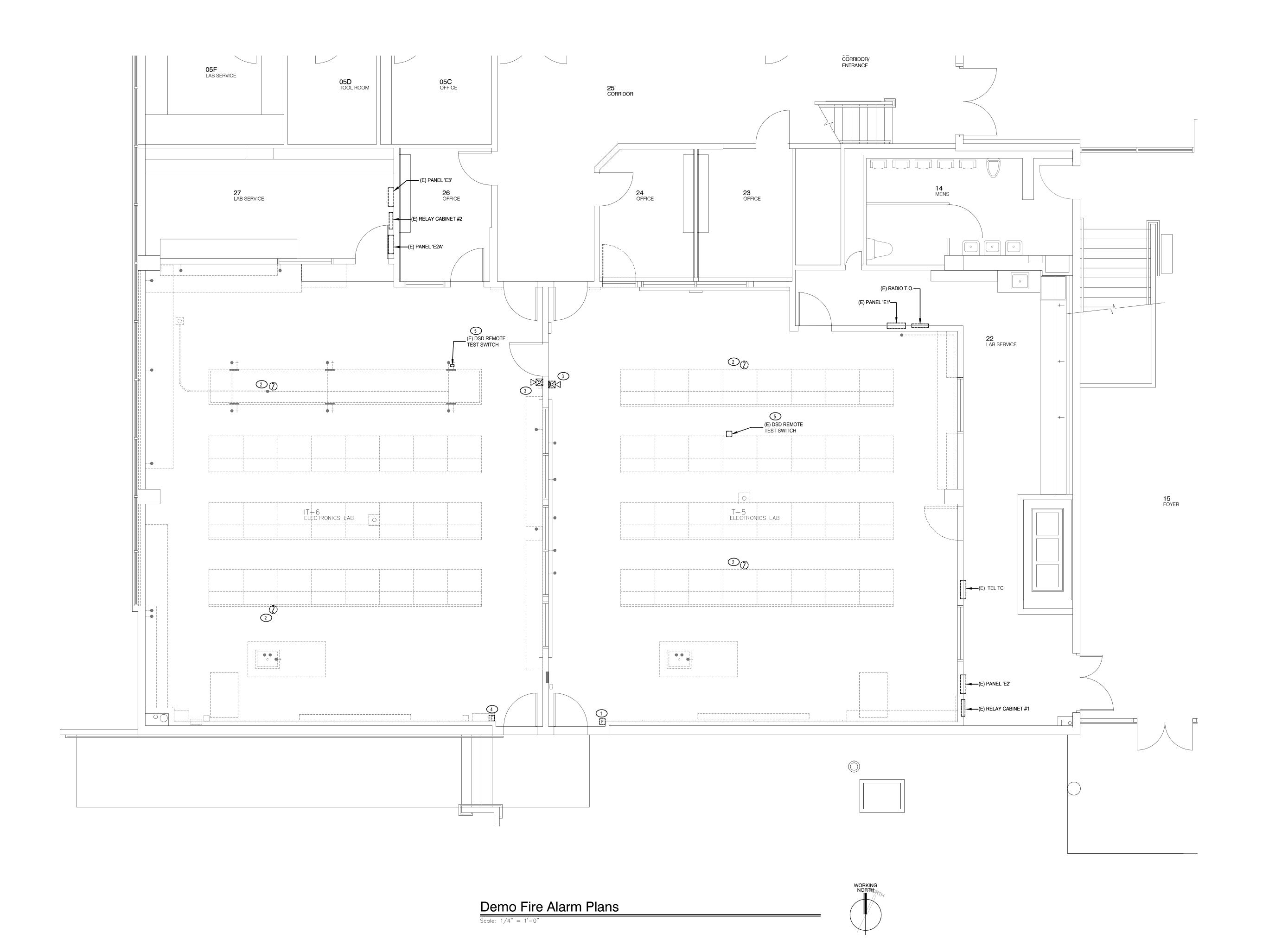
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DEMO POWER PLAN

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DEMO FIRE ALARM PLAN NOTES:

- EXISTING FIRE ALARM PULL STATION AND RELATED CONDUIT AND WIRING TO REMAIN.
- 2 EXISTING SMOKE DETECTOR AND RELATED CONDUIT AND WIRING TO REMAIN.
- (3) EXISTING FIRE ALARM HORN/STROBE AND RELATED CONDUIT AND WIRING TO REMAIN.
- DENOTES EXISTING FIRE ALARM PULL STATION. REMOVE AND REMOUNT TO EXISTING WALL WITH NEW FINISH. CONDUIT AND WIRING TO BE REUSED. VERIFY WORK REQUIRED IN FIELD.
- 5 EXISTING REMOTE TEST SWITCH FOR EXISTING DUCT SMOKE DETECTOR AND RELATED CONDUIT AND WIRING TO REMAIN.



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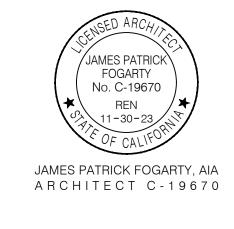
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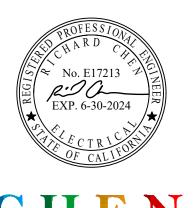
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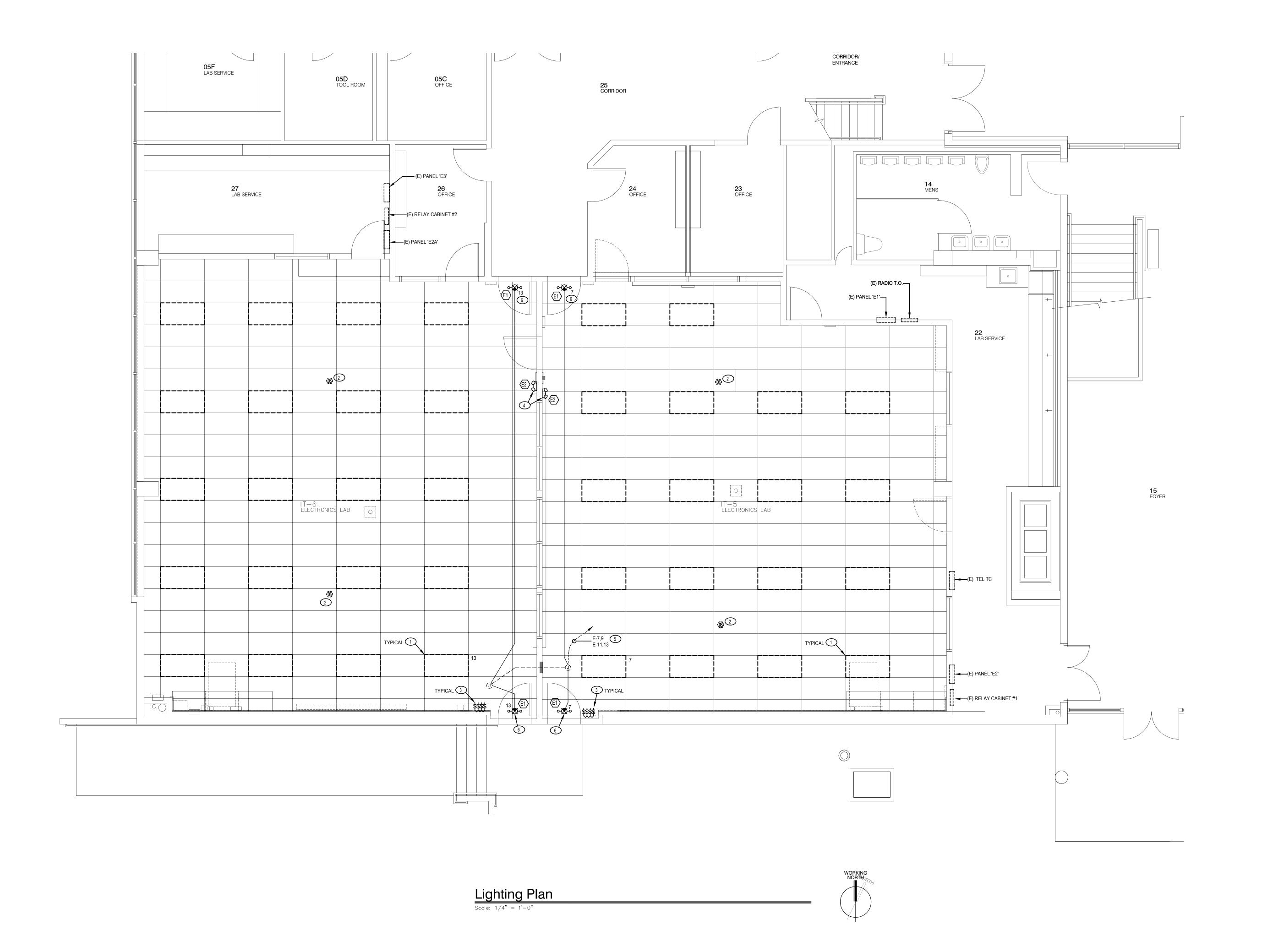
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DEMO FIRE ALARM PLAN

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LIGHTING PLAN NOTES:

- 1 TYPICAL: EXISTING LIGHTS AND RELATED CONDUIT AND WIRING TO REMAIN.
- 2 TYPICAL: EXISTING OCCUPANCY SENSOR AND RELATED CONDUIT AND WIRING TO REMAIN.
- DENOTES EXISTING LIGHT SWITCHES. REMOVE AND REMOUNT TO EXISTING WALL WITH NEW FINISH. CONDUIT AND WIRING TO BE REUSED. VERIFY WORK REQUIRED IN FIELD.
- PROVIDE NEW EMERGENCY LIGHT TO REPLACE EXISTING. RECONNECT TO EXISTING UNSWITCHED LIGHTING CIRCUIT.
- 5 EXISTING HOMERUN TO REMAIN.
- 6 CONNECT NEW EMERGENCY EXIT SIGN WITH TWIN EMERGENCY LIGHTS. CONNECT TO EXISTING UNSWITCHED LIGHTING CIRCUIT. VERIFY WORK REQUIRED IN FIELD.

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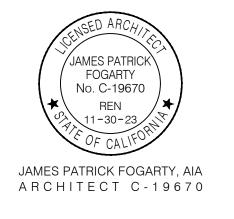
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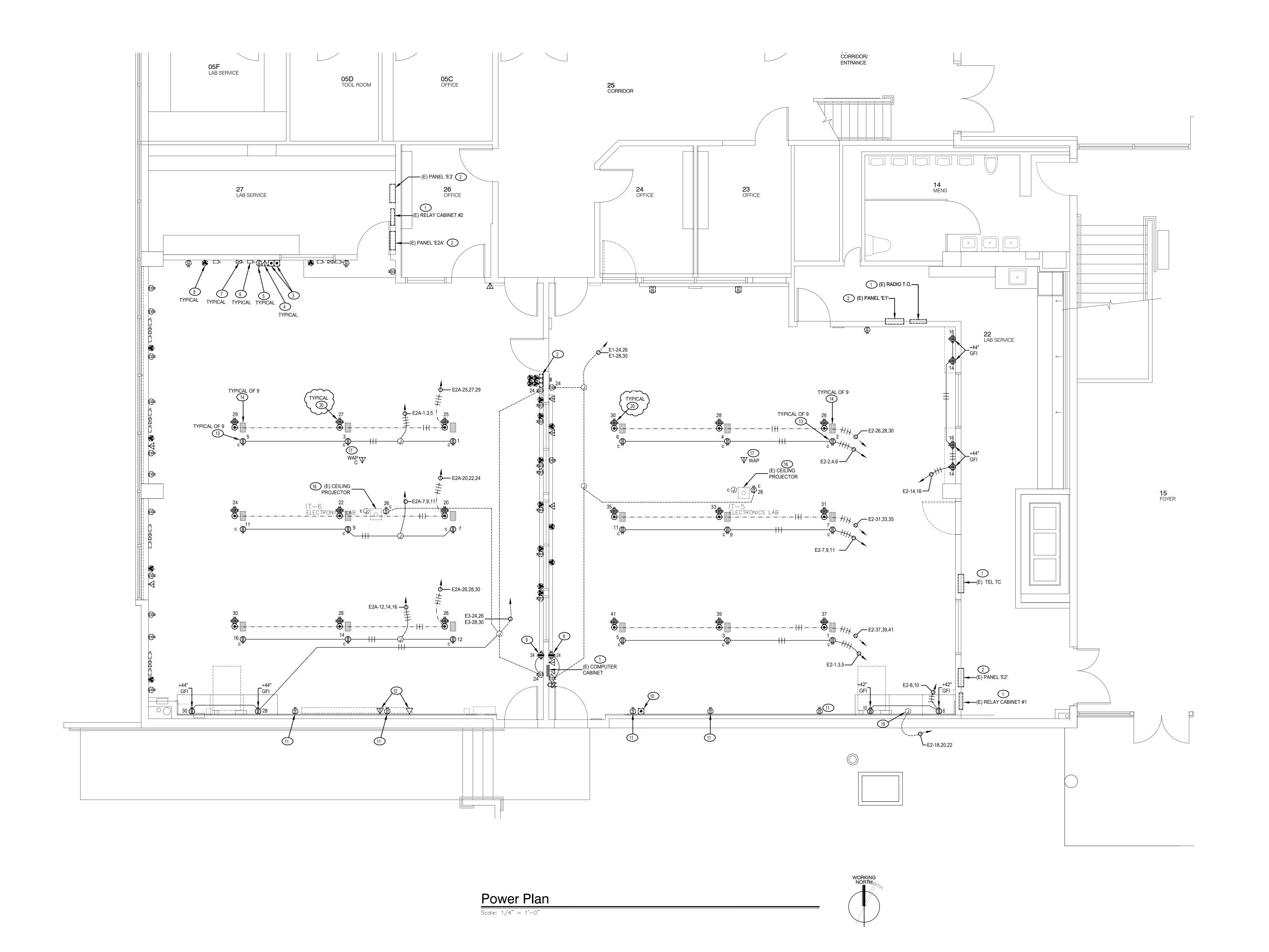
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LIGHTING PLAN

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DETAILS SHALL BE SUBMITTED TO THIS OFFICE FOR APPROVAL BEFORE PROCEEDING WITH FABRICATION.

E2.00



POWER PLAN NOTES:

1 TYPICAL: UNLESS NOTED OTHERWISE, EXISTING ELECTRICAL TO REMAIN.

2 EXISTING PANEL TO REMAIN AND TO BE REUSED.

3 EXISTING EMERGENCY PUSH BUTTONS TO REMAIN.

TYPICAL: UNLESS NOTED OTHERWISE, EXISTING TEL/DATA OUTLET AND RELATED CONDUIT AND WIRING TO REMAIN.

5 TYPICAL: UNLESS NOTED OTHERWISE, EXISTING RECEPTACLE AND RELATED CONDUIT AND WIRING TO REMAIN.

TYPICAL: UNLESS NOTED OTHERWISE, EXISTING FUSED DISCONNECT AND RELATED CONDUIT AND WIRING TO REMAIN.

TYPICAL: UNLESS NOTED OTHERWISE, EXISTING MAG STARTER AND RELATED CONDUIT AND WIRING TO

8 TYPICAL: EXISTING 250V RECEPTACLE TO REMAIN.

9 RECONNECT EXISTING RECEPTACLE TO EXISTING NEARBY RECEPTACLE CIRCUIT. VERIFY WORK REQUIRED IN FIELD.

(10) EXISTING EMERGENCY PUSH BUTTON. REMOVE AND REMOUNT TO EXISTING WALL WITH NEW FINISH. CONDUIT AND WIRING TO BE REUSED. VERIFY WORK REQUIRED IN FIELD.

VERIFY EXISTING RECEPTACLES ON THIS WALL. REMOVE AND REMOUNT TO EXISTING WALL WITH NEW FINISH. CONDUIT AND WIRING TO BE REUSED. VERIFY WORK REQUIRED IN FIELD.

VERIFY EXISTING TEL/DATA OUTLETS ON THIS WALL. REMOVE AND REMOUNT TO EXISTING WALL WITH NEW FINISH. CONDUIT AND WIRING TO BE REUSED. VERIFY WORK REQUIRED IN FIELD.

13 TYPICAL: PROVIDE CEILING MOUNTED DUPLEX RECEPTACLE.

14 TYPICAL: PROVIDE HUBBELL ACA12345-DR20 COORD REEL RECEPTACLE. MOUNT TO CEILING PER MANUFACTURER AND AS DIRECTED BY ARCHITECT. VERIFY MODEL NUMBER WITH OWNER.
 15 NOTE NOT USED.

16 EXISTING CEILING PROJECTOR, RECEPTACLE, PROJECTOR OUTLET AND RELATED CONDUIT AND WIRING

TO REMAIN.

17 EXISTING CEILING MOUNTED WIRELESS ACCESS POINT TO REMAIN.

18 NOTE NOT USED.

19 EXTEND EXISTING RECEPTACLE JUNCTION BOX AND BLANK OFF IN NEW CABINET BASE.

20 TYPICAL: FLOOR BOX SHALL BE WIREMOLD #AF1 (3-COMPARTMENT). PROVIDE TWO DUPLEX OUTLETS.

ONE DGT-2DP DOUBLE GANG PLATE AND TWO SGT-B SINGLE GANG BLANK PLATE. THE DATA COMPARTMENT SHALL BE LEFT AS SPARE FOR FUTURE. LOCATE FLOOR BOX IN RAISED FLOOR AS DIRECTED BY ARCHITECT. PROVIDE ACCESSORIES AS REQUIRED FOR COMPLETE SYSTEM.

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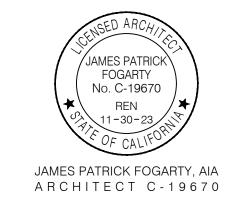
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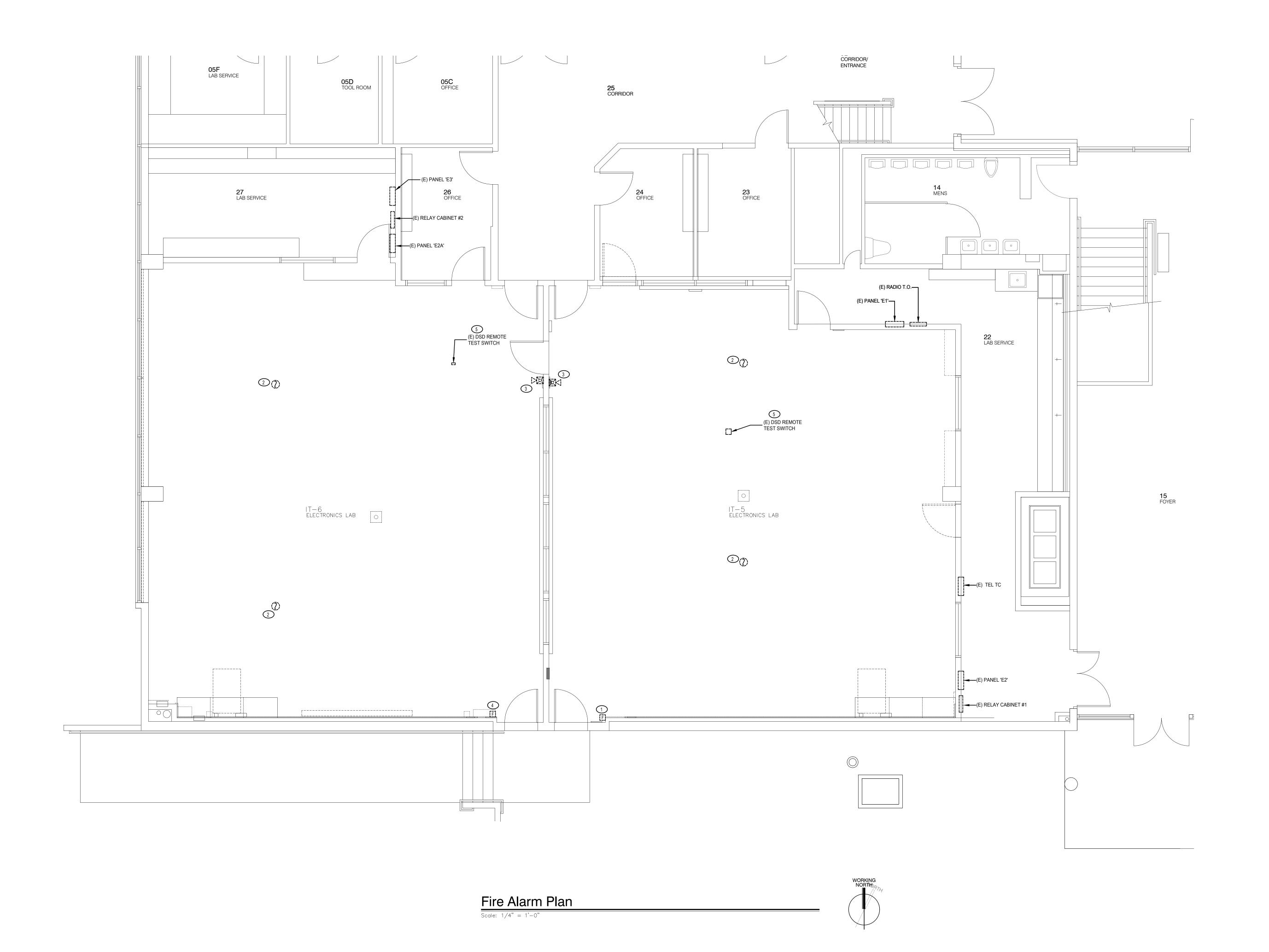
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POWER PLAN

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FIRE ALARM PLAN NOTES:

1 EXISTING FIRE ALARM PULL STATION AND RELATED CONDUIT AND WIRING TO REMAIN.

- 2 EXISTING SMOKE DETECTOR AND RELATED CONDUIT AND WIRING TO REMAIN.
- 3 EXISTING FIRE ALARM HORN/STROBE AND RELATED CONDUIT AND WIRING TO REMAIN.
- DENOTES EXISTING FIRE ALARM PULL STATION. REMOVE AND REMOUNT TO EXISTING WALL WITH NEW FINISH. CONDUIT AND WIRING TO BE REUSED. VERIFY WORK REQUIRED IN FIELD.
- 5 EXISTING REMOTE TEST SWITCH FOR EXISTING DUCT SMOKE DETECTOR AND RELATED CONDUIT AND WIRING TO REMAIN.



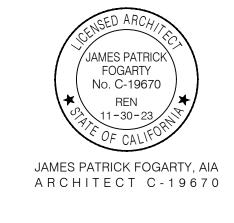
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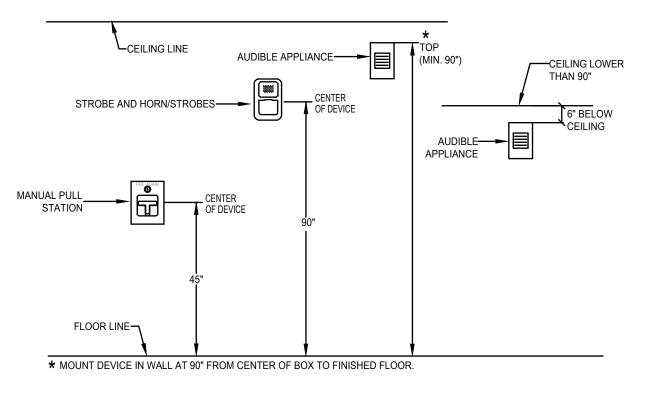
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FIRE ALARM PLAN



FIRE ALARM DEVICES WALL MOUNTING DETAIL

1. THE OPERATING PART OF EACH MANUAL PULL STATION SHALL NOT BE LESS THAN 42" AND NOT MORE THAN 48 INCHES ABOVE FLOOR LEVEL. PER CBC 907.4.2.2.

2. WALL-MOUNTED APPLIANCES SHALL BE MOUNTED SUCH THAT THE ENTIRE LENS IS NOT LESS THAN 80 INCHES AND NOT GREATER THAN 96 INCHES ABOVE THE FINISHED FLOOR. NFPA 72, 18.5.5.1.

FIRE ALARM SCOPE OF WORK:

- EXISTING FIRE ALARM HORN/STROBES TO REMAIN.
 - EVICTING SMOKE DETECTORS TO DEMAIN
- 2. EXISTING SMOKE DETECTORS TO REMAIN.
- 3. EXISTING REMOTE TEST SWITCH FOR EXISTING DUCT SMOKE DETECTORS TO REMAIN.

PROVIDE ADJUSTMENTS AS REQUIRED FOR COMPLETE OPERATING SYSTEM.

- 4. EXISTING PULL STATION IN IT-5 ELECTRONICS LAB TO REMAIN.
- EXISTING PULL STATION IN IT-6 ELECTRONICS LAB TO BE REMOVED AND REINSTALLED ON NEW FINISHED WALL. VERIFY THICKNESS OF NEW FINISH TO EXISTING FINISH REMOVED. ADJUST BOX DEPTH AS REQUIRED.
- 6. FOR FIRE ALARM DEVICES THAT ARE BEING REMOVED AND REINSTALLED, STORE AND PROTECT FIRE ALARM DEVICES FROM DAMAGE WHEN REMOVED. ENTIRE FIRE ALARM SYSTEM TO BE TESTED AND INSPECTED IN ACCORDANCE WITH NFPA 72, CHAPTER
- 7. PROVIDE FULL FIRE ALARM TEST TO ENSURE SYSTEM IS IN WORKING ORDER AFTER REMOVAL/REINSTALL OF EXISTING DEVICES.
- 8. NO OTHER FIRE ALARM WORK REQUIRED.

	FIXTURE SCHEDULE									
TYPE	WATT	LAMP	VOLT	MANUFACTURER	CATALOG No.	MTG	NOTES			
E1	10	INCL.	120	LITHONIA	LQM-S-W-3-R-120/277-ELN	CLG./ WALL	1			
E2	,	,	l l	ļ	LHQM-LED-R-HO	WALL	1			

1 ALL EMERGENCY LIGHTING SHALL BE PROVIDED FOR A MINIMUM OF 90 MINUTES.

GOVERNING CODES:

APPLICABLE CODES. EFFECTIVE JANUARY 1, 2023
TITLE 19 CCR. PUBLIC SAFETY, STATE FIRE MARSHAL REGULATIONS.

TITLE 24 CODES:

TITLE 24 CCR, PART 1 - 2022 CALIFORNIA BUILDING STANDARD ADMINISTRATIVE CODE (CAC).

TITLE 24 CCR, PART 2 - 2022 CALIFORNIA BUILDING CODE (CBC), VOLUMES 1 AND 2 (2021 EDITION INTERNATIONAL BUILDING CODE AS AMENDED BY CA).

TITLE 24 CCR, PART 3 - 2022 CALIFORNIA ELECTRICAL CODE,(2020 EDITION NATIONAL ELECTRICAL CODE AS AMENDED BY CA).

TITLE 24 CCR, PART 4 - 2022 CALIFORNIA MECHANICAL CODE (CMC), (2021 EDITION IAPMO UNIFORM MECHANICAL CODE AS AMENDED BY CA).

TITLE 24 CCR, PART 5 - 2022 CALIFORNIA PLUMBING CODE (CPC), (2021 EDITION IAPMO UNIFORM PLUMBING CODE AS AMENDED BY CA).

TITLE 24 CCR, PART 6 - 2022 CALIFORNIA ENERGY CODE, (2022 EDITION CALIFORNIA ENERGY COMMISSION BUILDING ENERGY EFFICIENCY STANDARDS).

TITLE 24 CCR, PART 7 - 2022 CALIFORNIA ELEVATOR SAFETY CONSTRUCTION CODE.

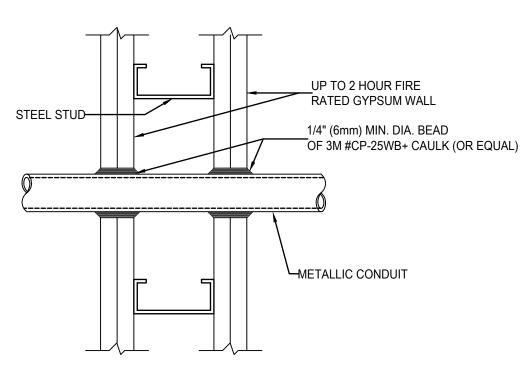
TITLE 24 CCR, PART 8 - 2022 CALIFORNIA HISTORICAL BUILDING CODE.

TITLE 24 CCR, PART 9 - 2022 CALIFORNIA FIRE CODE (CEC) (2021 EDITION INTERNATIONAL FIRE CODE AS AMENDE

TITLE 24 CCR, PART 9 - 2022 CALIFORNIA FIRE CODE (CFC),(2021 EDITION INTERNATIONAL FIRE CODE AS AMENDED BY CA). TITLE 24 CCR, PART 10 - 2022 EXISTING BUILDING CODE.

TITLE 24 CCR, PART 11 - 2022 CALIFORNIA GREEN BUILDING STANDARDS CODE

TITLE 24 CCR, PART 12 - 2022 CALIFORNIA REFERENCE STANDARDS (2022 CBC, CHAPTER 35 AND 2022 CFC, CHAPTER 45).



NOTES:

- THE CAULK IS TO BE FORCED INTO THE ANNULAR SPACE TO THE MAXIMUM EXTENT POSSIBLE FLUSH WITH THE EXTERIOR OF THE PENETRATION SURFACE
- 2. FINISH CAULKING WITH A 1/4" (6mm) MINIMUM BEAD OF CP-25WB+ CAULK APPLIED TO THE PERIMETER OF THE CONDUIT/PIPE AT ITS EGRESS FROM
- THE WALL.

 3. THE MAXIMUM ANNULAR SPACE IS NOT TO EXCEED 3/16" (5mm).
- 4. INSTALL 3M FIRESTOP ON BOTH SIDES OF THE WALL.
- 5. THESE RECOMMENDATIONS ARE BASED ON PRODUCT PERFORMANCE PER ASTM E-814 (UL 1479) FIRE TEST AND UL THROUGH-PENETRATION FIRESTOP SYSTEM #147

FIRE RATED ASSEMBLY DETAIL

FIRE RATED AREAS NOTES:

WHERE LIGHT FIXTURES, CABINETS, OR BOXES ARE SHOWN LOCATED IN RATED CEILINGS AND/OR WALLS, PROVIDE FIRE RATED ENCLOSURE AROUND THE LIGHT FIXTURES, CABINETS, OR BOXES. RATING OF ENCLOSURE SHALL MATCH OR EXCEED RATING OF AREA PENETRATED.

PROVIDE CONDUIT SLEEVE FOR POWER, TEL AND DATA CABLE THAT PASS THRU FIRE RATED WALL. WHERE CONDUIT SLEEVE PENETRATE FIRE RATED CEILINGS, WALLS OR FLOORS, PROVIDE FIRE STOPS AT PENETRATION. RATING OF FIRE STOP SHALL MATCH OR EXCEED RATING OF AREA PENETRATED.

STEEL ELECTRICAL BOXES THAT DO NOT EXCEEDING 16 SQUARE INCHES IN AREA SHALL BE PERMITTED TO BE UNPROTECTED, PROVIDED THAT THE AREA OF SUCH OPENINGS DOES NOT EXCEED 100 INCHES FOR ANY 100 SQUARE FEET OF WALL AREA. UNPROTECTED OUTLET BOXES ON OPPOSITE SIDES OF THE WALL SHALL BE SEPARATED BY A HORIZONTAL DISTANCE OF NOT LESS THAN 24".

VERIFY LOCATION OF FIRE RATED AREAS WITH ARCHITECTURAL DRAWINGS AND WITH GENERAL CONTRACTOR. SUBMIT METHOD OF FIRE STOPPING TO BUILDING INSPECTOR FOR APPROVAL PRIOR TO INSTALLATION.

	ELECTRICAL SYMBOLS
$\langle A \rangle$	DENOTES LIGHTING FIXTURE TYPE
A-3	ELECTRICAL HOMERUN (TO PANEL A, CIRCUIT #3), 3/4"C MINIMUM, U.O.N.
<u>``</u>	CONDUIT RUN IN WALL / ATTIC (1/2"C - 2#12 + 1#12 GND, THHN/THWN-CU)
٠-٠-٠	CONDUIT RUN IN FLOOR OR UNDERGROUND
	(1/2"C - 2#12 + 1#12 GND, THHN/THWN-CU) HASH LINES DENOTE NUMBER OF #12 + 1#12 GND (THHN/THWN-CU),
	U.O.N. 1/2"C FOR UP TO 5#12 + 1#12 GND, 3/4"C FOR 6#12 TO 10#12 + 1#12 GND.
<u> </u>	FLEXIBLE CONDUIT CONNECTION
	ELECTRICAL PANEL
	TERMINAL CABINET
Ф	DUPLEX RECEPTACLE IN WALL (+15" BOTTOM OF BOX AFF)
#	QUADRUPLEX RECEPTACLE IN WALL (+15" BOTTOM OF BOX AFF)
Ф	220V, 20A, 2P, 3W RECEPTACLE IN WALL (+15" BOTTOM OF BOX AFF)
\bigcirc	SPECIAL OUTLET AS NOTED ON DRAWING (+15" BOTTOM OF BOX AFF)
lacktriangle	TELEPHONE OUTLET IN WALL (+15" BOTTOM OF BOX AFF)
$lackbox{f V}$	COMBINATION TELEPHONE/DATA OUTLET, (+15" BOTTOM OF BOX AFF)
∇	DATA OUTLET, (+15" BOTTOM OF BOX AFF)
•	FLUSH FLOOR BOX
	FLUSH FLOOR BOX WITH ELECTRICAL DEVICE AS INDICATED
0	JUNCTION BOX
<u>_</u>	JUNCTION BOX WITH FLEX CONNECTION
<i>(</i>)	MOTOR OUTLET
	FUSED DISCONNECT SWITCH, BY ELECTRICAL CONTRACTOR, U.O.N.
0	CEILING MOUNTED LIGHTING FIXTURE WITH LIGHTING OUTLET
오	WALL MOUNTED LIGHTING FIXTURE WITH LIGHTING OUTLET
	RECESSED MOUNTED LIGHTING FIXTURE WITH LIGHTING OUTLET
	LIGHTING FIXTURE
0	LIGHTING FIXTURE WITH LIGHTING OUTLET
— ¹a	"1" DENOTES CIRCUIT NUMBER, "a" DENOTES SWITCHING
\$	SINGLE POLE SWITCH (+48" TOP OF BOX AFF)
\$ 3	3-WAY SWITCH (+48" TOP OF BOX AFF)
\$\$ \$	TWO SINGLE POLE SWITCHES, GANGED IN SAME BOX (+48" TOP OF BOX AFF)
(D)	TELEVISION OUTLET (+15" U.O.N.)
6	PH0TOCONTROL (ROOF MOUNTED, U.O.N.)
1	ELECTRICAL NOTE #1 (REFER TO ELECT NOTES ON SAME SHEET)
WP	WEATHERPROOF
U.O.N.	UNLESS OTHERWISE NOTED
NL	NIGHT LIGHT (LIGHT TO REMAIN ON 24/7)
ENL	EXTERIOR NIGHT LIGHT (CONTROLLED VIA PHOTOCELL ON, PHOTOCELL OFF)
GFI	GROUND FAULT CIRCUIT INTERRUPTER
AFF	ABOVE FINISHED FLOOR
(E)	EXISTING
Q	EXTERIOR WALL MOUNTED WP EMERGENCY LIGHT
<u>+</u> ⊢@	WALL DIMMER SWITCH WITH OCCUPANCY SENSOR, (+48" TOP OF BOX AFF)
<u>. </u>	LIGHTING CONTROL OCCUPANCY SENSOR, (+48" TOP OF BOX AFF)
-	DIMMER SWITCH, (+48" TOP OF BOX AFF)
- ₩	VACANCY SENSOR SWITCH, (+48" TOP OF BOX AFF)
HT)	TIMER SWITCH, (+48" TOP OF BOX AFF)
<u>-</u> \$к	KEYED SWITCH, (+48" TOP OF BOX AFF)
(S)	LIGHTING CONTROL OCCUPANCY SENSOR, CEILING MOUNTED
(AD)	AUTOMATIC DAYLIGHTING SENSOR, CEILING MOUNTED
(P)	LIGHTING CONTROL POWER PACK, ACCESSIBLE ATTIC
(P)	PLUG LOAD POWER PACK, ACCESSIBLE ATTIC
	POWER OUTLET WITH ONE CONTROLLED DUPLEX RECEPTACLE AND ONE
•	NON-CONTROLLED DUPLEX RECEPTACLE (+15" BOTTOM OF BOX A.F.F.)



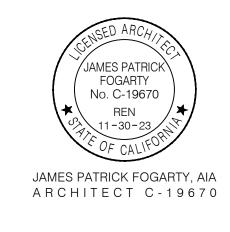
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Bakersfield College
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Kern Community College District

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CONSULTANT



CHEN

ENGINEERS, INC.

Electrical Engineering Services
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DSA

PROJECT INFO

Project No 550-0049

Date 05.02.24

DSA File No DSA No

REVISIONS

Date Item

00.00.08 DESCRIPTION

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SYMBOLS, SCHEDULES, DETAILS

E3.00

	_	30	CIR			(E) PA	NEL _	(4) E2A		FLUSH			_ MOUN 	TING	1		
ľ	CIR	BKR		AD (VA)		DESCRI	PTION	DESCR	PIPTION		AD (VA)		BKR		1		
	NO.	AMP POLE	PHASE A	PHASE B	PHASE C	DESCIN	1 11011	DESCI		PHASE A	PHASE B	PHASE C	AMP POLE	NO.			
	- 1	20 1	1000			RETRACT. RECEPTA	ABLE CORD CLE	LAB. COU		1080			20 1	2	(2)		
H	- 3			1000							1080			4			
Ц	- 5				1000				,			900		6			
	- 7		1000					LAB COU COMPUT		500				8			
H	- 9			1000				SPARE						10			
Ц	- 11				1000	,		RETRACT RECEPTA	TABLE CORD ACLE			1000		12-	$\frac{1}{1}$		
	13					SPARE	'			1000				14-	 		
	15					,		,	,		1000			16-	┦		
	17				500	INSTRUCT STATION	ION	SPARE						18	(1)		
	19		500			FILE SER\	/ER	FLOOR B	OX .	720				20-	<u> </u>		
	21			360		WEST WA					720			22 -	$\iint ($		
	23				360		}					720		24-	┦		
	- 25		720	~ ~ ~ ~		FLOOR BO)X			720				26-	$\frac{1}{2}$		
$\ $	- 27			720							720			28-	$\iint ($		
	_ 29				720							720		30 -	$\ $		

- (1) EXISTING BREAKER, EXISTING LOAD.
- (2) EXISTING BREAKER, NEW LOAD.
- (3) PROVIDE BREAKER TIE FOR MULTIWIRE BRANCH CIRCUITS.
- (4) VERIFY EXISTING LOADS THAT REMAIN. PROVIDE NEW TYPE WRITTEN CIRCUIT DIRECTORY.

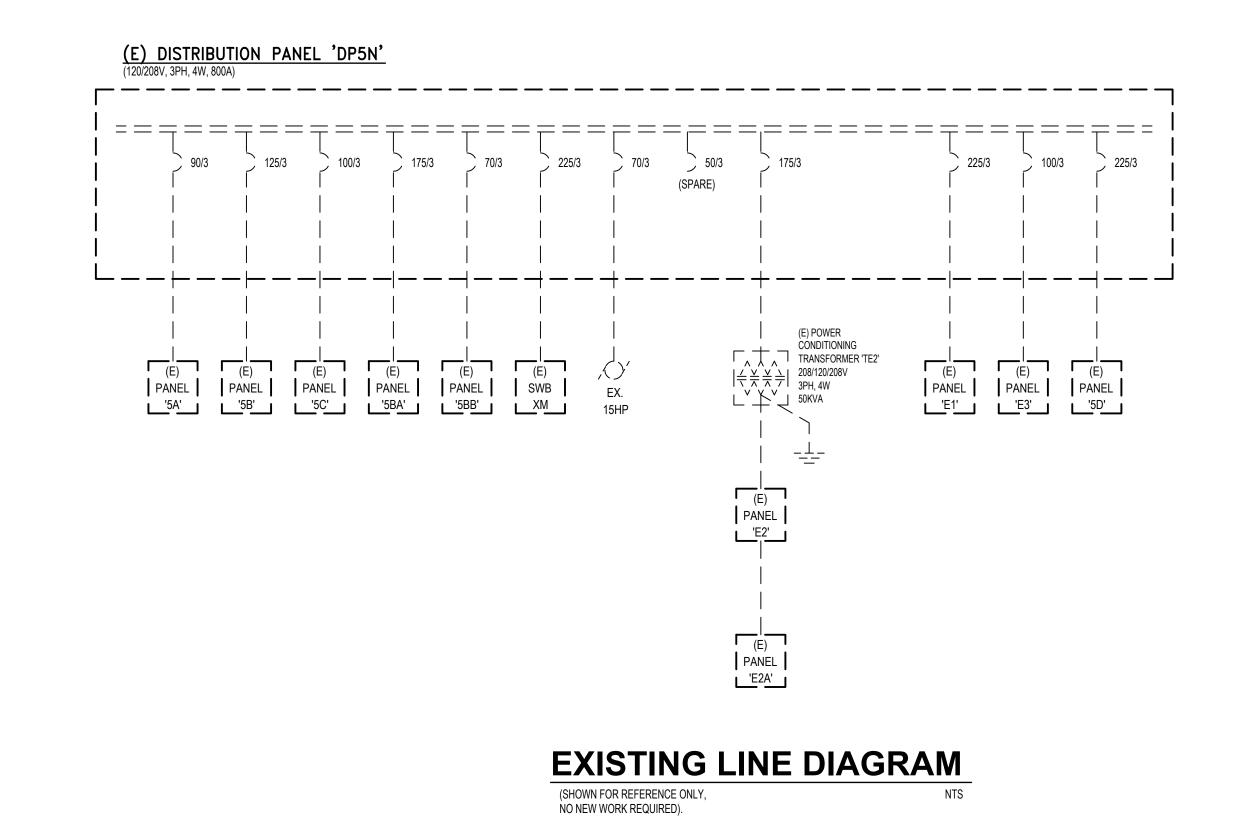
_ _ _	120/208 225 42	A.		NO	HASE4 A. MAIN (E) PA	BREAKER	(1) E1	18K 5-3/4" x 20" FLUSH	MAX.	ENCL. DE	AKER APTH & V	WIDTI
CIR NO.	BKR	LC PHASE	OAD (VA)	PHASE	DESCRIF		DESCRIPTION	LC	AD (VA)	PHASE	BKR	CI
1	20 1	A 306	В	С	LIGHTS- 1S		AC1, 31A	3720	В	С	50 3	
3			1159		LIGHTS- LA	AB.			3720		/	
5				1159						3720	/	
7		732			LAB. #2 LIG	SHTS	AC2, 31A	4440			60 3	
9			915		•				4440			1.
11				1098	LAB. #1 LIG	SHTS				4440		
13		732					LAB SERVICE PLUGSTRIP	720			20 1	
15			1200		EFI		RECEPT- OFFICE:		720			
17				540	RECEPTAC 2ND FLOOR	CLES- ROOF R LOBBY				1260		
19		200			DDC PANE	L		1080				
21					SPARE		ļ ,		1080			
23							RECEPT- LAB #4			360		
25							LAB #2 CEILING PROJEC	TOR 1000				
27							SPARE				20 2	
29												
31							SPARE				20 1	
33												
35												
37												
39												
41		4.5.5.5				4470.	<u> </u>	110=-				
		= 12930 NNECTE		VA, PH 1741	ASE B = VA) + 25		VA, PHASE C 1525 VA) =		VA VA (120	AMP)	

_ _	A. BUSSING NO A. MAIN I		HASE <u>4</u> WIRE _ A. MAIN BREAKER (E) PANEL _	(4) E3	5-3/	/4" x 20" FLUSH		ENCL. DE	PTH &			
CIR	BKR	LC	DAD (VA)	•			_	LC	AD (VA)		BKR	CIF
NO.	AMP POLE	PHASE A	PHASE B	PHASE C	DESCRIPTION	DESCR	IPTION	PHASE A	PHASE B	PHASE C	AMP POLE	√ NC
1	20 3	500			LAB. COUNTER STARTER	LAB SER\	/ICE R RECEPT.	3720			20 1	2
3			500			LAB SER\	/ICE R PLUGSTRIP		3720			4
5				500		LAB COUI				3720		6
7	20 3	500			LAB. COUNTER STARTER			4440				8
9			500						4440			10
11				500						4440		12
13	20 3	500			LAB. COUNTER STARTER			720				14
15			500				,		720			16
17				500		RECEPT- SERVICE				1260		18
19	20 3	500			LAB. COUNTER STARTER			1080				20
21			500				,		1080			22
23				500			EPTACLES			360		24
25	20 3	500			LAB. COUNTER STARTER	LAB. #1 C PROJECT		1000				26
27			500			RECEPT- COUNTER	2		540		20 2	28
29				500						540		30
31	20 3	500			LAB. COUNTER STARTER	++	CONTROL	300			20 1	32
33			500			RELAY CA	ABINET #2 		150			34
35				500		SPARE	1					36
37												38
39												40
41		= 10460		VA, PH	HASE B = 7020	VA, PH	ASE C = 7	7380	VA			42

- (1) EXISTING BREAKER, EXISTING LOAD.
- (2) EXISTING BREAKER, NEW LOAD.
- (3) PROVIDE BREAKER TIE FOR MULTIWIRE BRANCH CIRCUITS.
- (4) VERIFY EXISTING LOADS THAT REMAIN. PROVIDE NEW TYPE WRITTEN CIRCUIT DIRECTORY.

						(4) E2	E2							
Ì	CIR	Вк	(R	LO	AD (VA)		DESCRIPTION	DESCRIPTION	LO	AD (VA)		BKR	CIR	1
	NO.	AMP F	POLE	PHASE A	PHASE B	PHASE C	DESCRIPTION	DESCRIPTION	PHASE A	PHASE B	PHASE C	AMP	NO.	
	- 1	20	1	1000			RETRACTABLE CORI RECEPTACLE	RETRACTABLE CORD RECEPTACLE	1000			20 1	2	$\frac{1}{1}$
s) 	- 3				1000					1000			4	
Ч	- 5					1000					1000		6	ť
	- 7			1000				RECEPTACLE- COUNTER	540				8	
3)	- 9				1000			 		540			10	
4	- 11					1000	\	SPARE					12	
	13						SPARE						14	
	15						↓ ↓	 					16	
(1)	17					500	INSTRUCTION STATION	WEST WALL RECEPTACLES			360		18	(1)
	19			500			FILE SERVER		360				20	
	21				540		LAB COUNTER PLUGSTRIP	DOOR ALARM		100			22	
	23					540		SPARE	———	~~~			24	\prod
	25			540				FLOOR BOX	720				26	\mathbf{h}
	27				540		\	{		720			28	
	29					100	RELAY CABINET #1 CONTROL				720		30	┦.
	- 31			720		~ ~~	FLOOR BOX	SPARE SPARE					32	(1)
3)	- 33				720			{					34	\prod
Ц	- 35					720		}					36	\prod
	- 37			720				PANEL 'E2A'	7240			100 3	38	
3)	- 39				720			{		6600			40	$\prod_{i=1}^{n}$
	- 41			~ ^ ^		720		}			6920		42	<u></u> ↓
				= 12180 NECTE		VA, PH 920	ASE B = 11320 VA) + 25% LCL (VA, PHASE C = VA) = 34920		VA VA (97	AMP)		-

- (1) EXISTING BREAKER, EXISTING LOAD.
- (2) EXISTING BREAKER, NEW LOAD.
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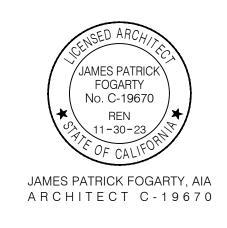
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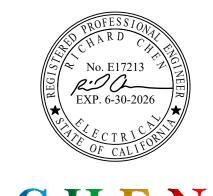
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PROJECT INFO 550-0049 05.02.24 DSA File No

REVISIONS

05.08.04 ADDENDUM 1

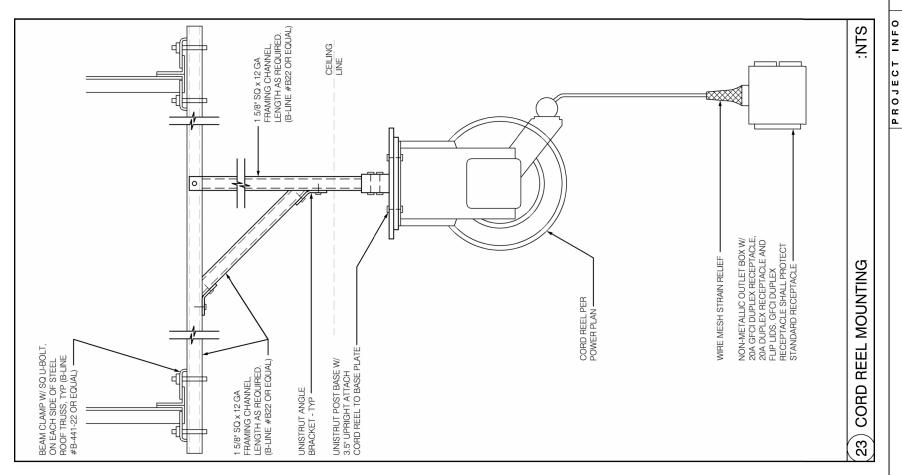
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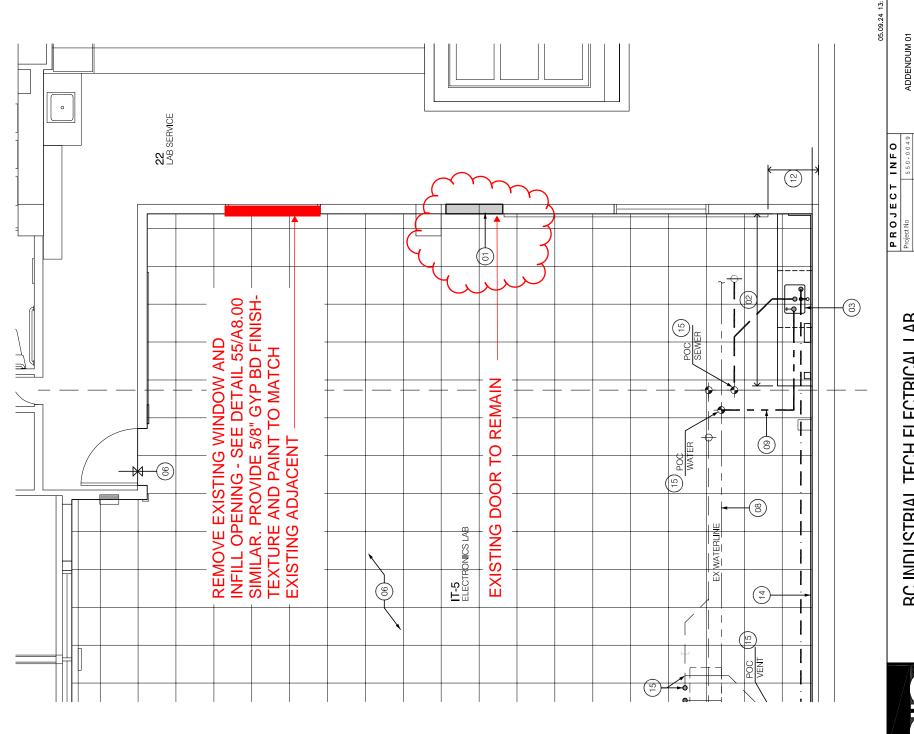
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Bakersfield, CA 93305 College District Panorama Drive, Community 1801 P Kern

Project No		550-0049
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Date		05.08.2024
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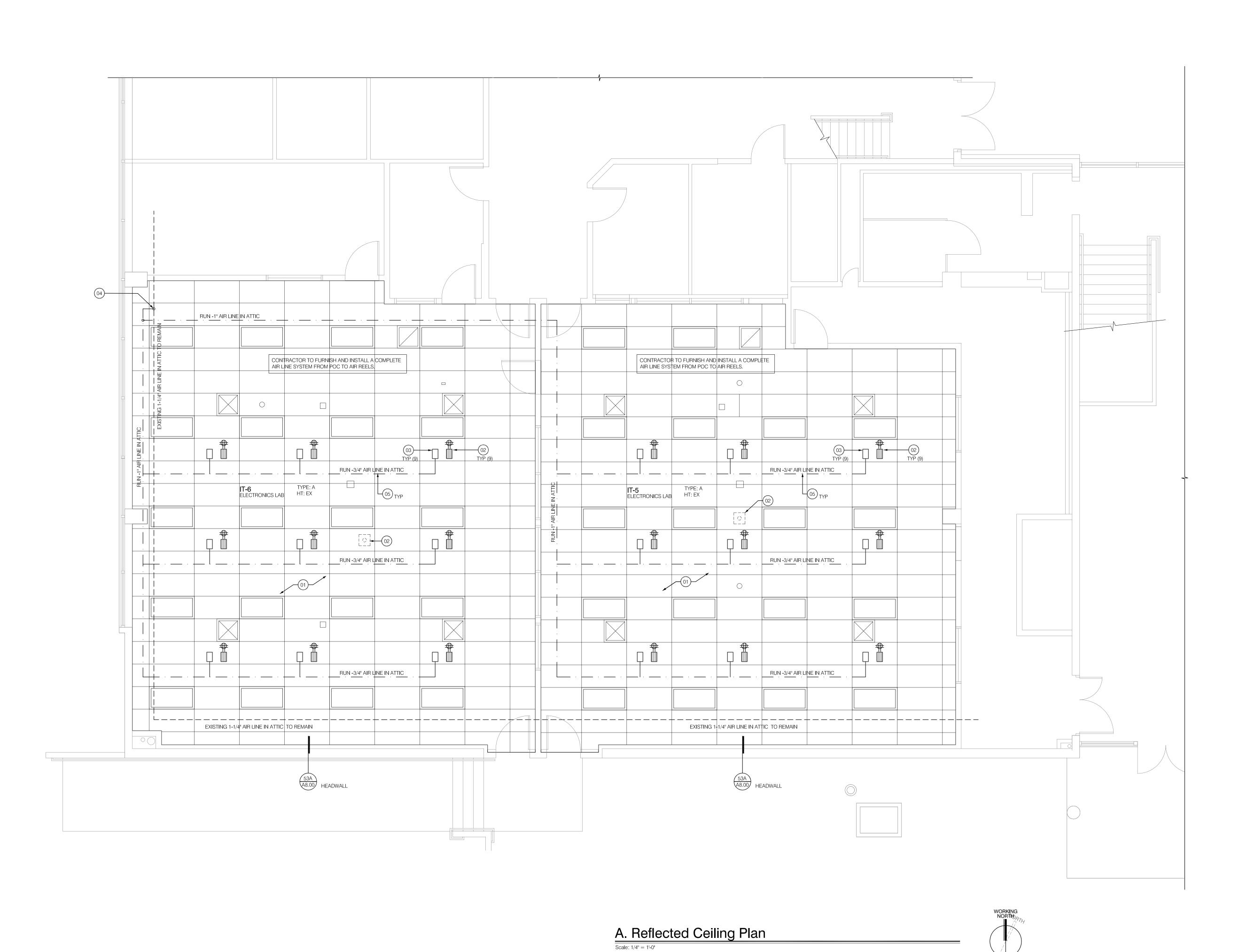
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CEILING LEGEND EX 2X4 SUSPENDED LED LIGHT FIXTURE TO REMAIN WH/ OCCURS - VERIFY EX SUPPLY AIR REGISTER TO REMAIN WH/ OCCURS - VERIFY EX RETURN AIR REGISTER TO REMAIN WH/ OCCURS - VERIFY FLOOR PLAN KEYNOTES ©1) EXISTING 2x4 SUSPENDED CEILING SYSTEM W/ EXISTING LIGHTING TO REMAIN - REPLACE ALL ACOUSTIC TILE W/ 24x48 "CORTEGA" -3434 Truxtun Avenue . Suite 240 Bakersfield . California . 93301 ARMSTRONG WORLD INDUSTRIES, INC OR EQUAL tel|661.327.1690 fax|661.327.7204 ©2 ELECTRICAL OVERHEAD POWER REEL W/ QUAD RECEPTACLE - VERIFY LOCATION W/ FURNITURE LAYOUT - SEE ELEC web|www.aparchitects.net PULL DOWN COMPRESSED AIR FITTING OVERHEAD SERVICE REEL

(03) W/ QUICK CONNECT OUTLET - VERIFY LOCATION W/ FURNITURE LAYOUT- RUN -1/2" AIR LINE FROM TRUNK LINE TO REEL. HUBBELL GHC 5050-L- .1/2" WITH HUBBELL PIVOT BASE RC-PB-B. POC FOR NEW AIR LINE- CONNECTION TO BE MADE DOWN LINE FROM EXISTING AIR FILTER IN ATTIC. BC INDUSTRIAL 05) AIR LINE SUPPORT- SEE DETAIL- SIMILAR FOR PIPE HANG SUPPORT TECH ELECTRICAL LAB REMODEL Bakersfield College 1801 Panorama Dr.Bakersfield.CA.93305 Kern Community College District ARCHITECT JAMES PATRICK FOGARTY, AIA ARCHITECT C-19670 CONSULTANT PROJECT INFO 04.23.2024 DSA File No REVISIONS /* 00.00.08 DESCRIPTION THESE DRAWINGS ARE INSTRUMENTS OF SERVICE AND ARE THE PROPERTY OF AP ARCHITECTS. ALL DESIGNS
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