

VOLTAGE DROP LIMITATIONS

SUMMARY OF MAXIMUM FEEDER AND BRANCH CIRCUIT LENGTHS											
WIRE (AWG)	CIRCUIT AMPS(A)	MAXIMUM FEEDER LENGTH(F)					MAXIMUM BRANCH CIRCUIT LENGTH(F)				
		120V	208V	240V	277V	480V	120V	208V	240V	277V	480V
14	12	39	67	78	90	156	58	101	117	135	233
12	16	46	80	93	107	185	69	120	139	160	278
10	24	48	83	96	111	192	72	125	144	166	288
8	32	57	99	115	132	229	86	149	172	199	344
6	40	73	127	146	169	293	110	190	220	253	439
4	52	89	154	178	206	356	134	232	267	309	535
2	72	103	178	206	237	412	154	267	309	356	617
0	96	123	212	245	283	490	184	319	368	424	735
00	108	137	238	274	317	549	206	357	412	475	823
0000	144	163	283	327	377	654	245	425	490	566	980
250	164	170	294	340	392	679	255	441	509	588	1019
300	184	181	314	362	418	725	272	471	543	627	1087
350	200	195	338	390	450	779	292	506	584	675	1169
500	248	224	388	448	517	896	336	582	672	776	1344

SUMMARY OF VOLT DROP LIMITS

CIRCUIT VOLTS(V)	2% VOLTAGE DROP(V)	3% VOLTAGE DROP(V)	5% VOLTAGE DROP(V)
120	2.4	3.6	6.0
208	4.2	6.2	10.4
240	4.8	7.2	12.0
277	5.5	8.3	13.9
480	9.6	14.4	24.0

- NOTES:
- TABLE ABOVE IS FOR COPPER WIRING ONLY.
 - IF FIELD CONDITIONS RESULT IN WIRE SIZES NOTED ABOVE EXCEEDING THE LENGTHS NOTED ABOVE, CONTRACTOR SHALL INCREASE WIRE AND CONDUIT SIZE AS REQUIRED TO MEET VOLTAGE DROP REQUIREMENTS. FEEDERS SHALL BE LIMITED TO A MAXIMUM OF 2% VOLTAGE DROP.
 - BRANCH CIRCUITS SHALL BE LIMITED TO A MAXIMUM OF 3% VOLTAGE DROP.
 - TOTAL VOLTAGE DROP FOR ELECTRICAL DISTRIBUTION SYSTEM(FEEDER+ BRANCH CIRCUIT)SHALL BE LIMITED TO A MAXIMUM OF 5% VOLTAGE DROP.

GROUNDING ELECTRODE CONDUCTORS

SIZE OF LARGEST UNGROUNDED SERVICE-ENTRANCE CONDUCTOR OR EQUIVALENT AREA FOR PARALLEL CONDUCTORS(AWG/KCMIL)		SIZE OF GROUNDING ELECTRODE CONDUCTOR (AWG/KCMIL)	
COPPER	ALUMINUM OR COPPER-CLAD ALUMINUM	COPPER	ALUMINUM OR COPPER-CLAD ALUMINUM
#2 OR SMALLER	1/0 OR SMALLER	#8	#6
1 OR 1/0	2/0 OR 3/0	#6	#4
2/0 OR 3/0	4/0 OR 250	#4	#2
OVER 3/0 THROUGH 350	OVER 250 THROUGH 500	#2	1/0
OVER 350 THROUGH 600	OVER 500 THROUGH 900	1/0	3/0
OVER 600 THROUGH 1100	OVER 900 THROUGH 1750	2/0	4/0
OVER 1100	OVER 1750	3/0	250

NOTES:

- FOR MULTIPLE SETS OF SERVICE-ENTRANCE CONDUCTORS CONNECT DIRECTLY TO THE SERVICE DROP, SET OF OVERHEAD SERVICE CONDUCTORS, SET OF UNDERGROUND SERVICE CONDUCTORS, OR SERVICE LATERAL, THE EQUIVALENT SIZE OF THE LARGEST SERVICE-ENTRANCE CONDUCTOR SHALL BE DETERMINED BY THE LARGEST SUM OF THE AREAS OF THE CORRESPONDING CONDUCTORS OF EACH SET.
- WHERE THERE ARE NO SERVICE-ENTRANCE CONDUCTORS, THE GROUNDING ELECTRODE CONDUCTOR SIZE SHALL BE DETERMINED BY THE EQUIVALENT SIZE OF THE LARGEST SERVICE-ENTRANCE CONDUCTOR REQUIRED FOR THE LOAD TO BE SERVED.
A THIS TABLE ALSO APPLIES TO THE DERIVED CONDUCTORS OF SEPARATELY DERIVED AC SYSTEMS
B SEE INSTALLATION RESTRICTIONS IN 250.64(A)

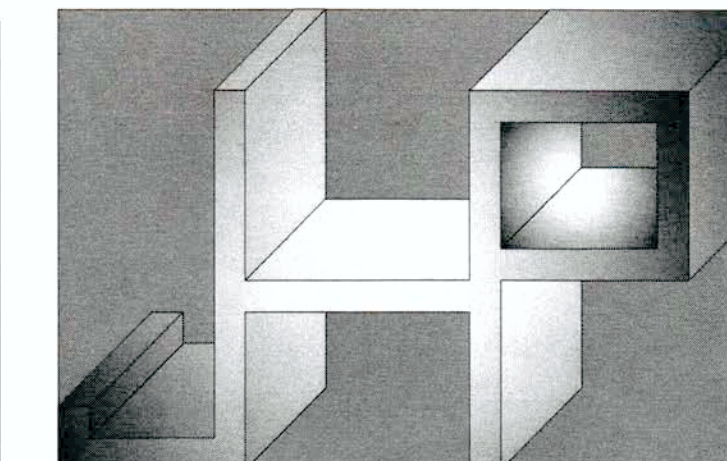
WIRE SIZE & AMP RATINGS

WIRE GAUGE SIZE	COPPER			ALUMINUM	
	60°C(140°F) NM-B,UF-B	75°C(167°F) THW, THWN, SE, USE, XHHW	90°C(194°F) THWN-2, THHN, SE, USE, USE-2	75°C(167°F) THW, THWN, SE, USE, XHHW	90°C(194°F) XHHW-2, THHN, THWN-2
14					
12	20	25	30	20	25
10	30	35	40	30	35
8	40	50	55	40	45
6	55	65	75	50	55
4	70	85	95	65	75
3	85	100	115	75	85
2	95	115	130	90	100
1	110	130	145	100	115
1/0	125	150	170	120	135
2/0	145	175	195	135	150
3/0	165	200	225	155	175
4/0	195	230	260	180	205
250	215	255	290	205	230
300	240	285	320	230	260
350	260	310	350	250	280
500	320	380	430	310	350
600	350	420	475	340	385
750	400	475	535	385	435
1000	455	545	615	445	500

NOTE: HIGHLIGHTED AREAS TO BE USED PER NEC TABLE 310-16

INTERIOR LIGHTING FIXTURE SCHEDULE

SYMBOL	TAG	QTY.	BRAND	MODEL	VOLTS	MAX. WATT.	LAMP TYPE	NOTES
☐	A	17	METALUX	24SR LED 2'X4' 3900 LUMENS SEE NOTES	120-277V	32	LED	24SR-LD2-39-C-UNV-L835-CD1-SWPD1-U RECESS LAY-IN LIGHT FIXTURE, 3500K, HIGH EFFICACY 132LPW, WAVELINX WIRELESS INTEGRATED SENSOR, 0-10V AND 1%-100% DIMMING DRIVER
☐	A-EM	12	METALUX	24SR LED 2'X4' 3900 LUMENS SEE NOTES	120-277V	32	LED	24SR-LD2-39-C-UNV-L835-CD1-SWPD1-U RECESS LAY-IN LIGHT FIXTURE W/BATTERY PACK, 3500K, HIGH EFFICACY 132LPW, WAVELINX WIRELESS INTEGRATED SENSOR, 0-10V AND 1%-100% DIMMING DRIVER
☐	B	5	METALUX	22SR LED 2'X2' 2500 LUMENS SEE NOTES	120-277V	20	LED	22SR-LD2-25-C-UNV-L835-CD1-SWPD1-U RECESS LAY-IN LIGHT FIXTURE, 3500K, HIGH EFFICACY 135LPW, WAVELINX WIRELESS INTEGRATED SENSOR, 0-10V AND 1%-100% DIMMING DRIVER
☐	B-EM	1	METALUX	22SR LED 2'X2' 2500 LUMENS SEE NOTES	120-277V	20	LED	22SR-LD2-25-C-UNV-L835-CD1-SWPD1-U RECESS LAY-IN LIGHT FIXTURE W/BATTERY PACK, 3500K, HIGH EFFICACY 135LPW, WAVELINX WIRELESS INTEGRATED SENSOR, 0-10V AND 1%-100% DIMMING DRIVER
☐	C-EM	1	METALUX	14SR LED 1'X4' 3000 LUMENS SEE NOTES	120-277V	25	LED	14SR-LD2-30-C-UNV-L835-CD1-SWPD1-U RECESS LAY-IN LIGHT FIXTURE W/BATTERY PACK, 3500K, HIGH EFFICACY 132LPW, WAVELINX WIRELESS INTEGRATED SENSOR, 0-10V AND 1%-100% DIMMING DRIVER



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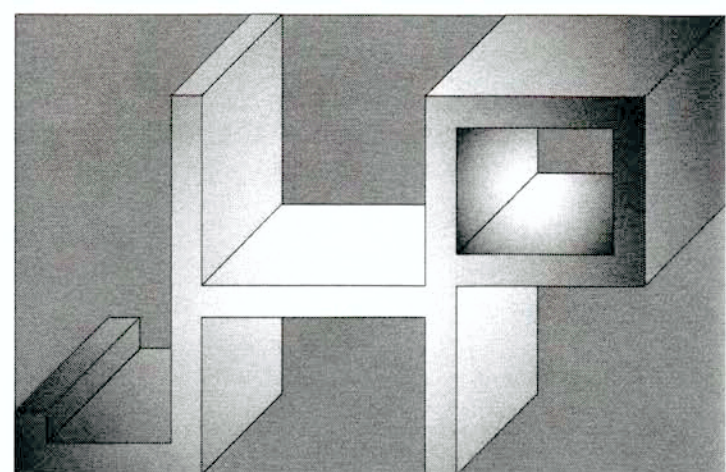
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 ELECTRICAL
 CALCULATION, TABLES,
 AND SCHEDULES

ELECTRICAL PANEL SCHEDULES AND LINE DIAGRAM

PANEL ' 3H '(EXISTING) (14K AIC)															
VOLTAGE: 277/480V, 3PH 4W.			MOUNT: SURFACED WALL MOUNT			LOCATION: ELECTRICAL ROOM			FED FROM: MSB						
BUS AMPS: 225A			MAIN: MLO												
BREAKER #	AMP POLE	LTG REC	DESCRIPTION	V-A	TOTAL V-A	V-A	DESCRIPTION	KITCH MISC	LOAD	LITG	BREAKER #				
1	20	1	(E)ELTS. ROW 1&2 S & W	500	1000	500	(E)ELTS. ROW 1&2 S & E			1	20	1	2		
3	20	1	(E)ELTS. ROW 1&2 S & W	500	1000	500	(E)ELTS. ROW 1&2 S & E			1	20	1	4		
5	20	1	(E)ELTS. ROW 3&4 SOUTH	500	1000	1000	(E)HALLWAY			1	20	1	6		
7	20	1	(E)ELTS. ROW 3&4 SOUTH	500	1000	500	(E)ELTS. EAST & NORTH			1	20	1	8		
9	20	1	(E)ELTS. WEST	500	1000	500	(E)ELTS. ROW 1,2,3&4 NORTH			1	20	1	10		
11	20	1	(E)ELTS. WEST	500	1000	1000	(E)ELTS. CENTER CORE			1	20	1	14		
13	20	1	(E)ELTS. WEST & NORTH	500	1000	500	(E)ELTS. CENTER CORE			1	20	1	16		
15	20	1	(E)ELTS. WEST & NORTH	500	1140	540				1	20	1	18		
17	20	1	(E)ELTS. WEST & NORTH	500	1140	640	(E)WATER HEATER			1	20	1	19		
19	20	1	(E)ELTS. WEST & NORTH	500	1140	640				1	20	1	20		
21	20	1	(E)PENHOUSE LTS.	200	808	608	(E)LIGHTING GROUP #1			19	20	1	22		
23	20	1	(E)ELTS. CONT. CONTROL CRT.	500	985	485	(E)LIGHTING GROUP #2			18	20	1	24		
25			BLANK-OFF SPACE	0	0	0	BLANK-OFF SPACE						26		
27			BLANK-OFF SPACE	0	0	0	BLANK-OFF SPACE						28		
29			BLANK-OFF SPACE	0	0	0	BLANK-OFF SPACE						30		
31			BLANK-OFF SPACE	0	9600	9600				50			32		
33			BLANK-OFF SPACE	0	9500	9500	(E)TRANSFORMER T2						34		
35			BLANK-OFF SPACE	0	9400	9400				3			36		
37			BLANK-OFF SPACE	0	27680	27680				125			38		
39			BLANK-OFF SPACE	0	27680	27680	(E)TRANSFORMER T1						40		
41			BLANK-OFF SPACE	0	27680	27680				3			42		
SUBTOTAL CONNECTED VA:				41420	41128	41205									
25% CONTINUOUS LOAD & 25% LARGEST MOTOR:				8200											
65% KITCHEN EQUIPMENT LOAD:				0											
TOTAL CONNECTED VA:				131953											
TOTAL CONNECTED AMPS:				159											

PANEL ' L3 '(EXISTING) (10K AIC)															
VOLTAGE: 120/208V, 3PH 4W.			MOUNT: SURFACED WALL MOUNT			LOCATION: ELECTRICAL ROOM			FED FROM: PANEL 3H / T2						
BUS AMPS: 100A			MAIN: 100A												
BREAKER #	AMP POLE	LTG REC	DESCRIPTION	V-A	TOTAL V-A	V-A	DESCRIPTION	KITCH MISC	LOAD	LITG	BREAKER #				
1	20	1	(E)OFFICE FURNITURE S.	1200	2400	1200	(E)OFFICE FURNITURE N.			1	20	1	2		
3	20	1	(E)OFFICE FURNITURE S.	1200	2400	1200	(E)OFFICE FURNITURE N.			1	20	1	4		
5	20	1	(E)OFFICE FURNITURE S.	1200	2400	1200	(E)OFFICE FURNITURE N.			1	20	1	6		
7	20	1	(E)SPARE IN CEILING S.	1200	2400	1200	(E)OFFICE POWER POLE N.			1	20	1	8		
9	20	1	(E)SPARE IN CEILING S.	1200	2400	1200	(E)OFFICE POWER POLE N.			1	20	1	10		
11	20	1	(E)SPARE IN CEILING S.	1200	2400	1200	(E)OFFICE POWER POLE N.			1	20	1	12		
13	20	1	EXISTING	1200	2400	1200	EXISTING			1	20	1	14		
15	20	1	329 OFFICE REC. 329 E & 329 F	1600	3200	1600	329 OFFICE REC. 329 C & 329 D			4	20	1	16		
17	20	1	329 OFFICE REC. 329 A & 329 B	1600	3200	1600	329 OFFICE REC. 329 C & 329 D			2	20	1	18		
19	20	1	329 POWER POLE 329 J	1200	2400	1200	329 OFFICE REC. 329 G & 329 H			4	20	1	20		
21	20	1	329 POWER POLE 329 I	900	1800	900	329 POWER POLE 329 K			3	20	1	22		
23	20	1	OPEN OFFICE CONV. OUTLETS	900	1800	900	329 POWER POLE 329 K			3	20	1	24		
25			BLANK-OFF SPACE	0	0	0	BLANK-OFF SPACE						26		
27			BLANK-OFF SPACE	0	0	0	BLANK-OFF SPACE						28		
29			BLANK-OFF SPACE	0	0	0	BLANK-OFF SPACE						30		
SUBTOTAL CONNECTED VA:				9600	9500	9400									
25% CONTINUOUS LOAD & 25% LARGEST MOTOR:				0											
65% KITCHEN EQUIPMENT LOAD:				0											
RECEPTACLE LOAD AT 50%:				10000											
REMAINING RECEPTACLE LOAD AT 50%:				9250											
TOTAL CONNECTED VA:				28900											
PANEL DEMAND LOAD VA:				19250											
TOTAL CONNECTED VA:				28900											
TOTAL CONNECTED AMPS:				79											



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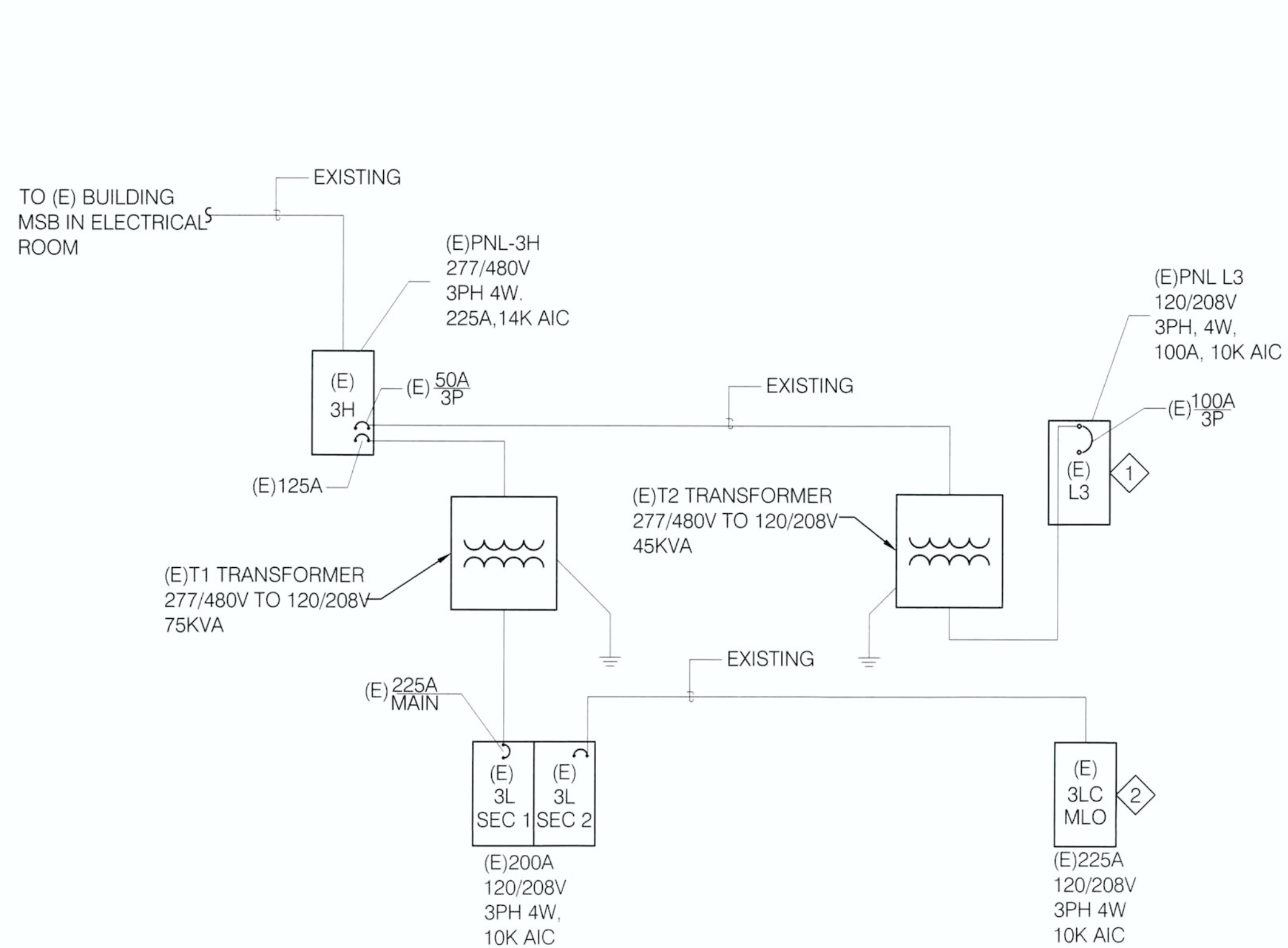
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**ELECTRICAL PANEL
 SCHEDULES, LINE
 DIAGRAM**

SHEET TITLE

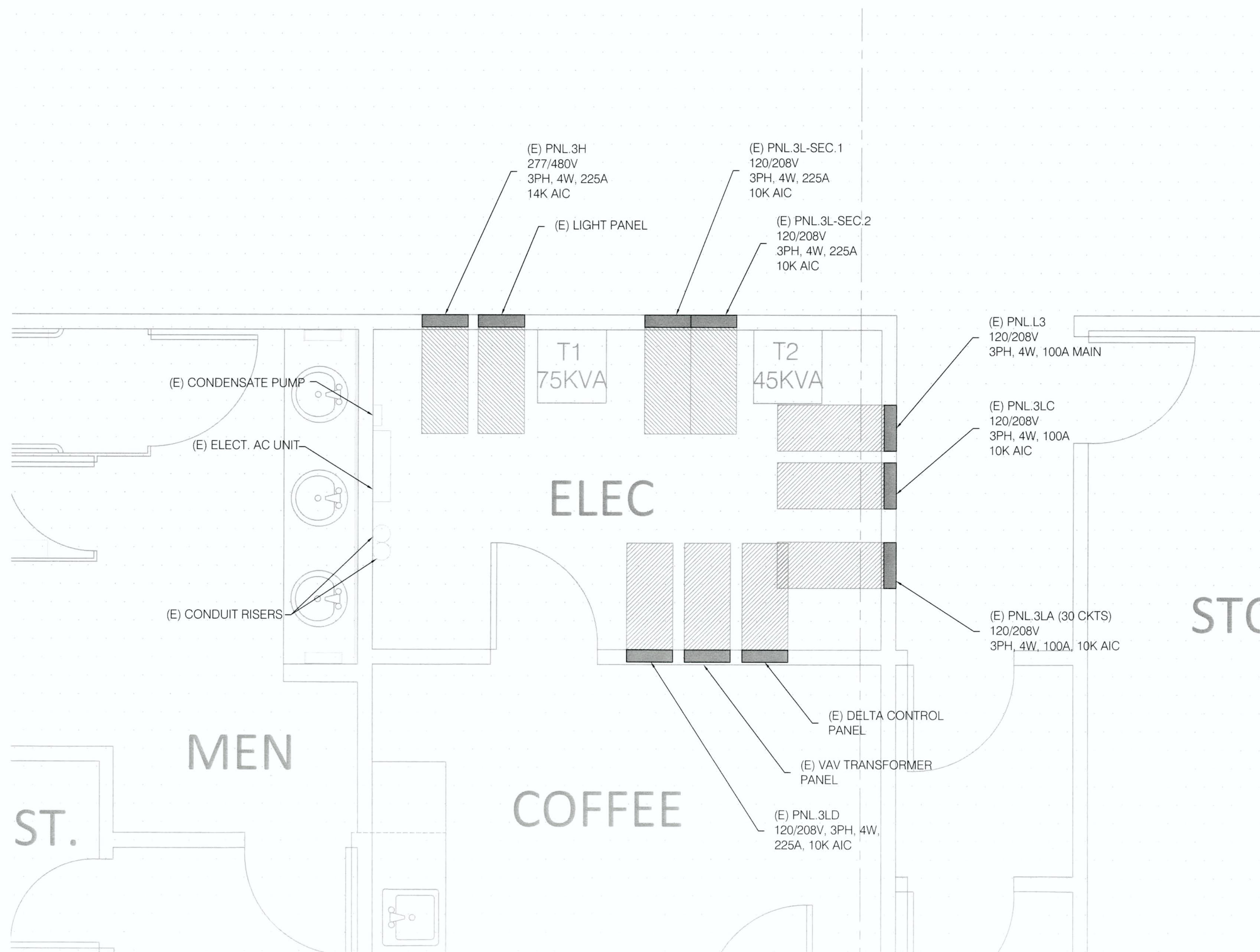
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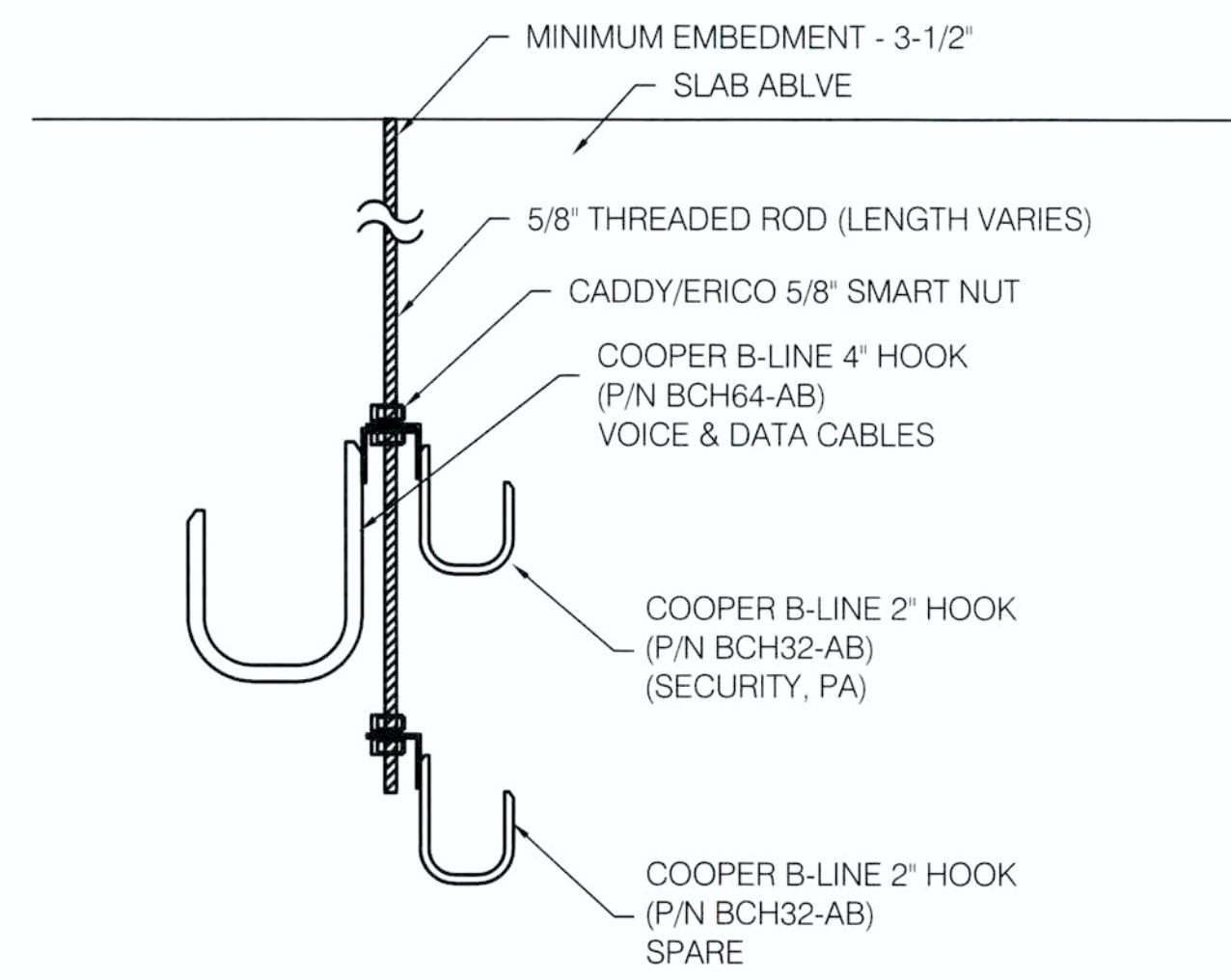


- NOTES:
- CONTRACTOR TO CONFIRM AT FIELD FOR PROVISION OF COMPATIBLE BREAKERS TO NEW CIRCUITS SERVING PROJECT AREA.
 - CONTRACTOR TO VERIFY AT FIELD AND IDENTIFY EXISTING CIRCUIT SERVING PROJECT AREA ONLY. PROVIDE DEMOLITION BY REMOVING CIRCUIT AND CAP BACK TO PANEL LEVEL. UPDATE PANEL SCHEDULE FOR FUTURE REFERENCE.

1 SINGLE LINE DIAGRAM
 SCALE: N.T.S.



2 EXISTING ELECTRICAL ROOM LAYOUT
 SCALE: N.T.S.
 (SHOWN FOR REFERENCE)

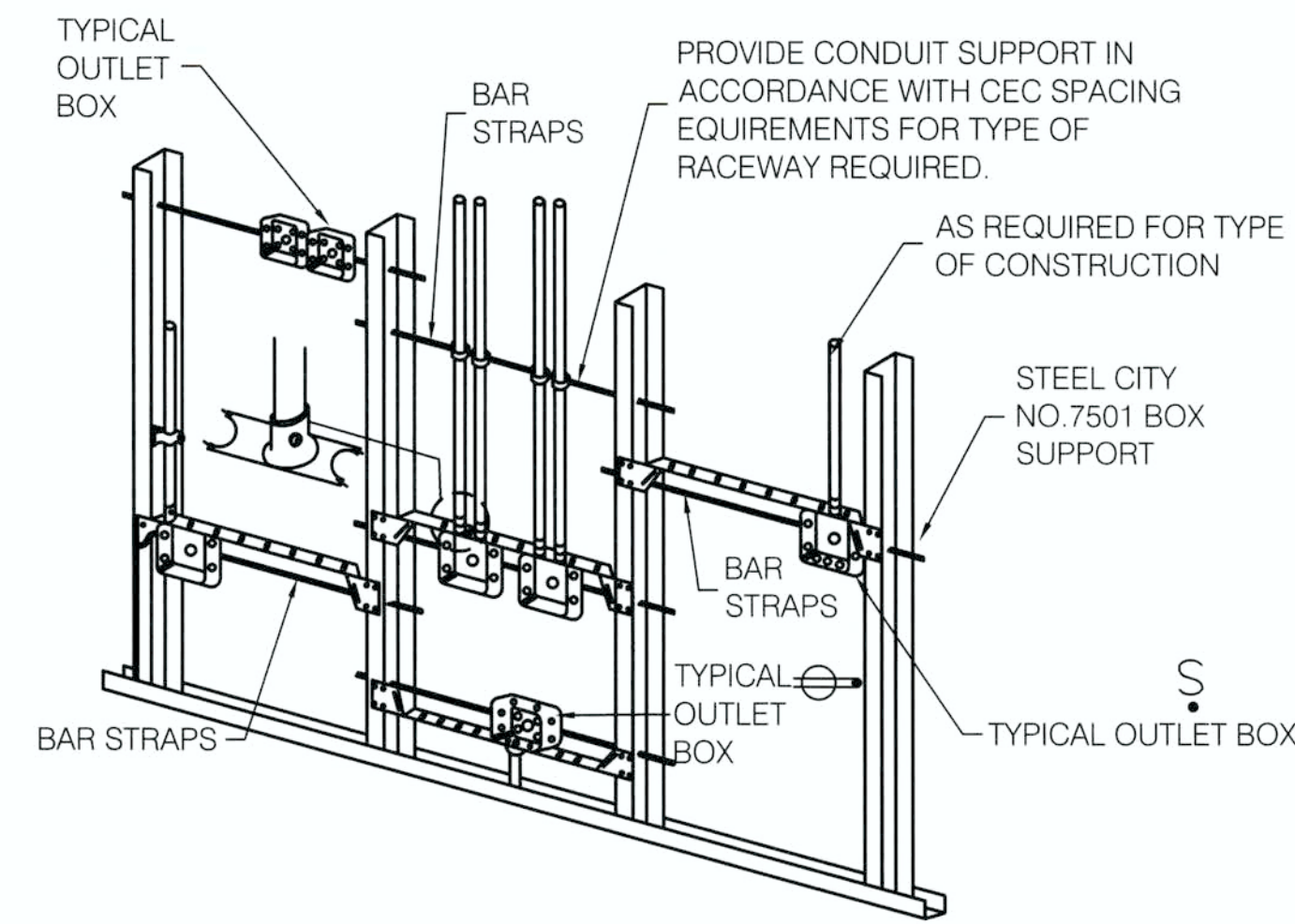


GENERAL NOTE:
J-HOOK ASSEMBLY HORIZONTAL SPACING IS TO BE A MINIMUM 4' AND MAXIMUM OF 5'.

DETAIL DESCRIPTION:

- A. CEILING MOUNTED J-HOOK ASSEMBLY FOR USE AT LOCATIONS WHERE CABLING SHALL CROSS CORRIDORS AND WALL MOUNTED J-HOOKS ARE NOT AN OPTION.
- B. PROVIDE WALL MOUNTED J-HOOK ASSEMBLY IN HALLWAY/CORRIDORS WHERE APPLICABLE.

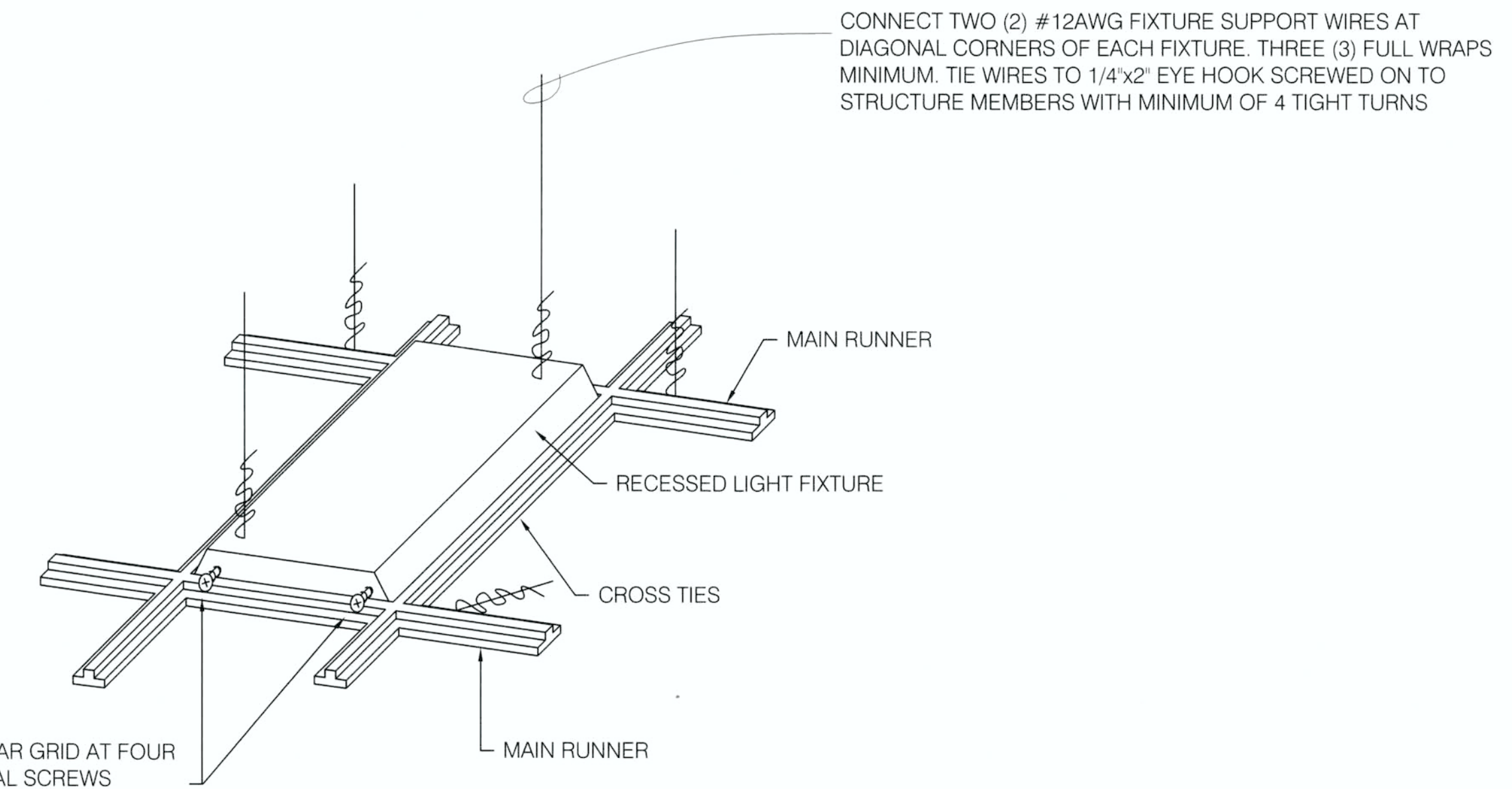
1 J-HOOK SYSTEM MOUNTING
SCALE: N.T.S.



NOTES:

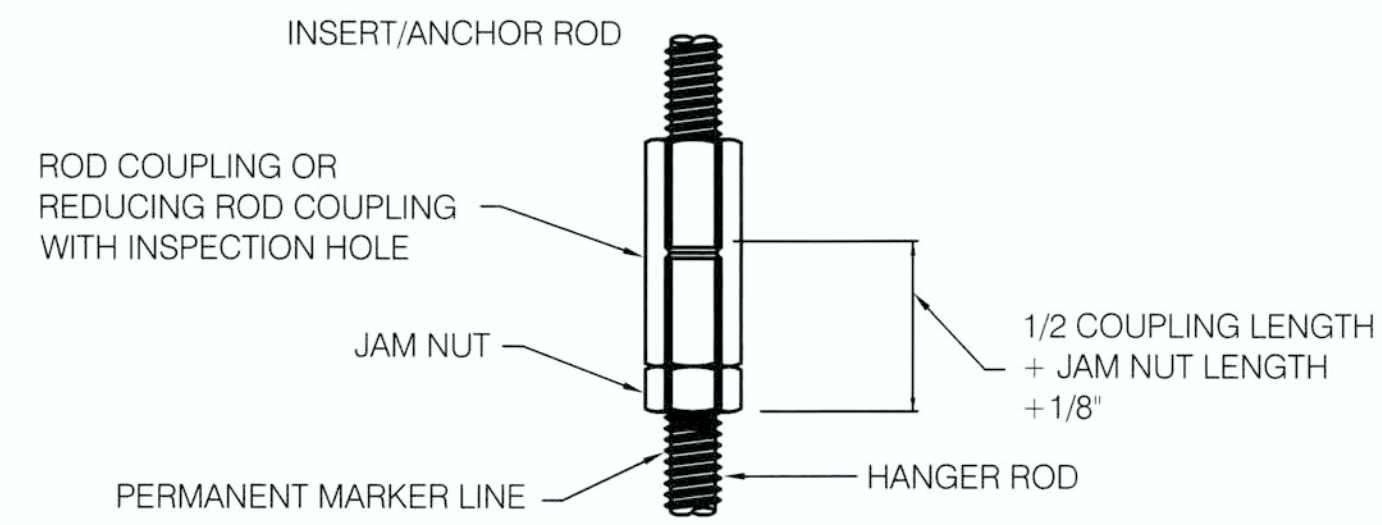
1. TYPICAL FOR WOOD AND METAL STUD ROUGH-IN.
2. PLASTER RINGS NOT SHOWN.
3. LOCATE ALL OUTLET BOXES IN ACCORDANCE WITH ARCHITECTURAL AND MECHANICAL DRAWINGS, AND WITH ALL APPLICABLE SHOP DRAWINGS.
4. IN ACCORDANCE WITH CBC SECTION 713, OUTLETS ON OPPOSITE SIDES OF FIRE RATED WALLS OR PARTITIONS IN THE SAME STUD SPACE MUST BE SEPARATED BY A MINIMUM OF 24" HORIZONTAL DISTANCE.

2 OUTLET ROUGH-IN-REQUIREMENT
SCALE: N.T.S.



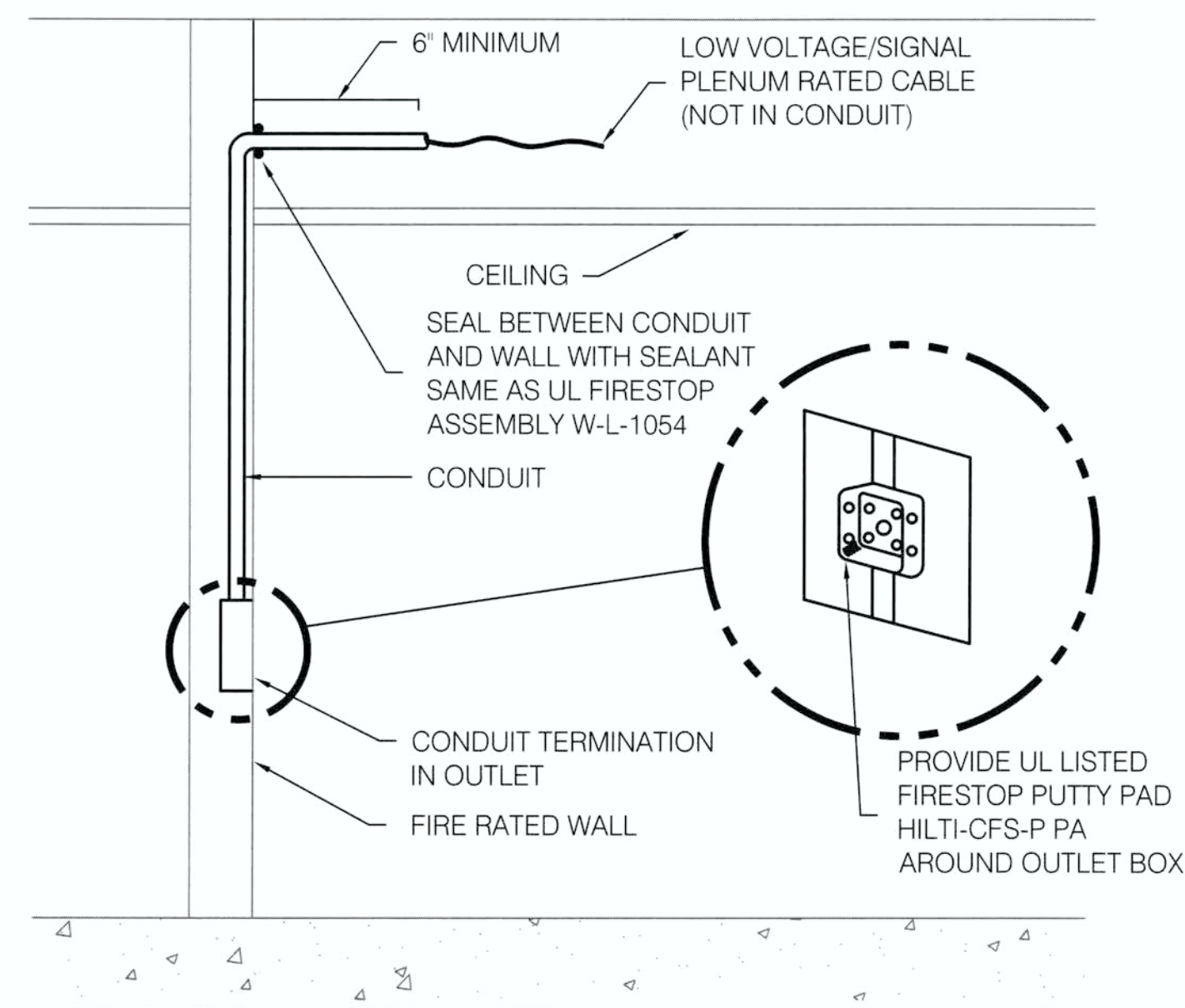
SECURE LIGHT FIXTURE TO T-BAR GRID AT FOUR (4) CORNERS WITH SHEET METAL SCREWS

3 RECESS FIXTURE AT LAY-IN T-BAR CEILING DETAIL
SCALE: N.T.S.



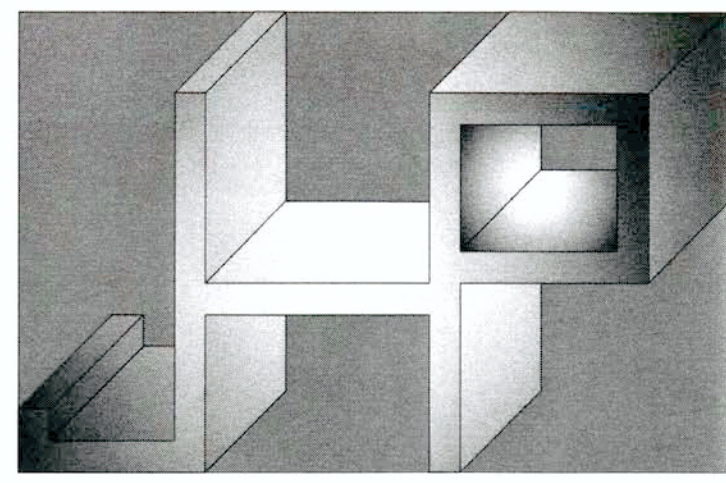
- 1) MEASURE THE LENGTH OF THE ROD COUPLING AND DIVIDE THE LENGTH BY TWO TO OBTAIN THE HALF LENGTH OF THE ROD COUPLING. ADD THE LENGTH OF THE JAM NUT AND 1/8" TO THE HALF LENGTH OF THE ROD COUPLING. MARK THE COMBINED LENGTH FROM THE END OF THE HANGER ROD WITH A PERMANENT MARKER TO ACHIEVE 50% DEPTH OF THE COUPLING WHEN THREADED ON TO THE ROD.
- 2) THREAD JAM NUT ONTO HANGER ROD UP TO THE MEASURED MARK ON THE HANGER ROD, LEAVING THE MARK EXPOSED. THREAD ROD COUPLING ONTO THE HANGER ROD UP TO THE JAM NUT. TIGHTEN ROD COUPLING UP AGAINST JAM NUT WITH CHANNEL-LOCK PLIERS, WRENCH, OR SIMILAR DEVICE.
- 3) THREAD THE HANGER ROD/JAM NUT/ROD COUPLING ASSEMBLY ON TO THE INSERT/ANCHOR ROD UNTIL THE HANGER ROD END CONTACTS THE INSERT/ANCHOR ROD END WITHIN THE COUPLING.
- 4) FINAL TIGHTENING IS ACHIEVED BY GRASPING THE INSERT ROD, JUST ABOVE THE COUPLING, AND GRASPING THE COUPLING, JAM NUT, OR HANGER ROD WITH CHANNEL-LOCK PLIERS, WRENCH, OR SIMILAR DEVICE AND TURNING UNTIL LOCKED. PROPER DEPTH IS VERIFIED BY CHECKING THE MARK ON THE THREADS OF THE HANGER ROD WHICH IS VISIBLE OUTSIDE THE ROD COUPLING.

4 INSTALLATION OF ROD COUPLING
SCALE: N.T.S.



5 CONDUIT FIREWALL PENETRATION
SCALE: N.T.S.

NOT IN USE



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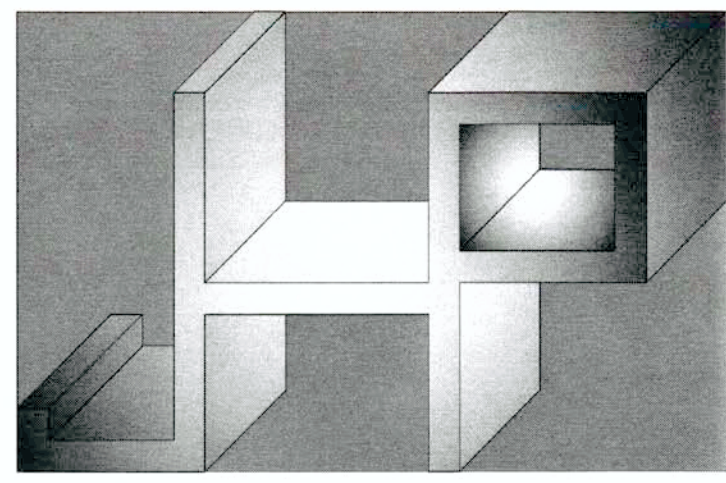
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ELECTRICAL DETAILS

SHEET TITLE

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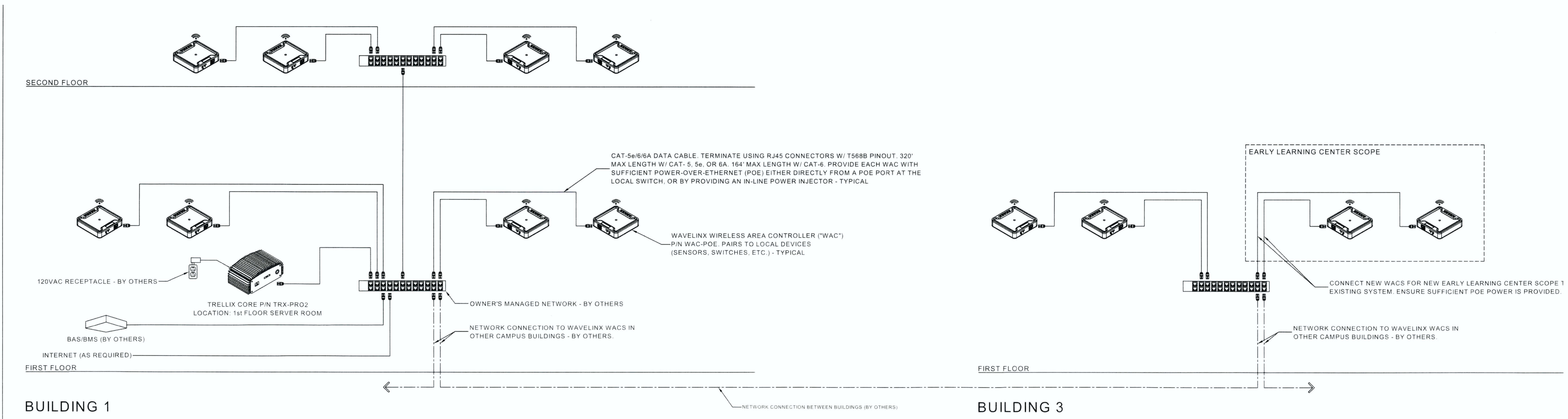
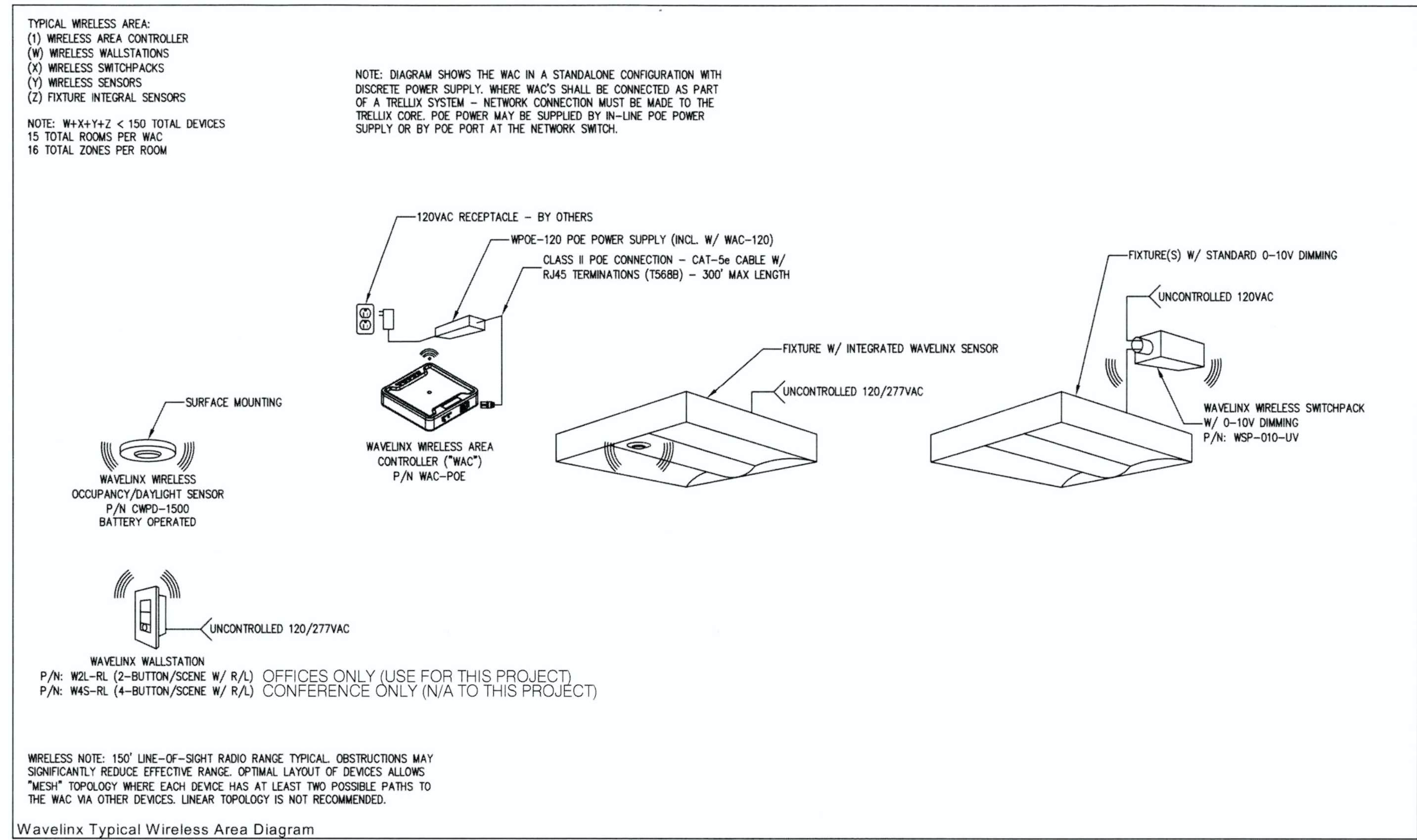
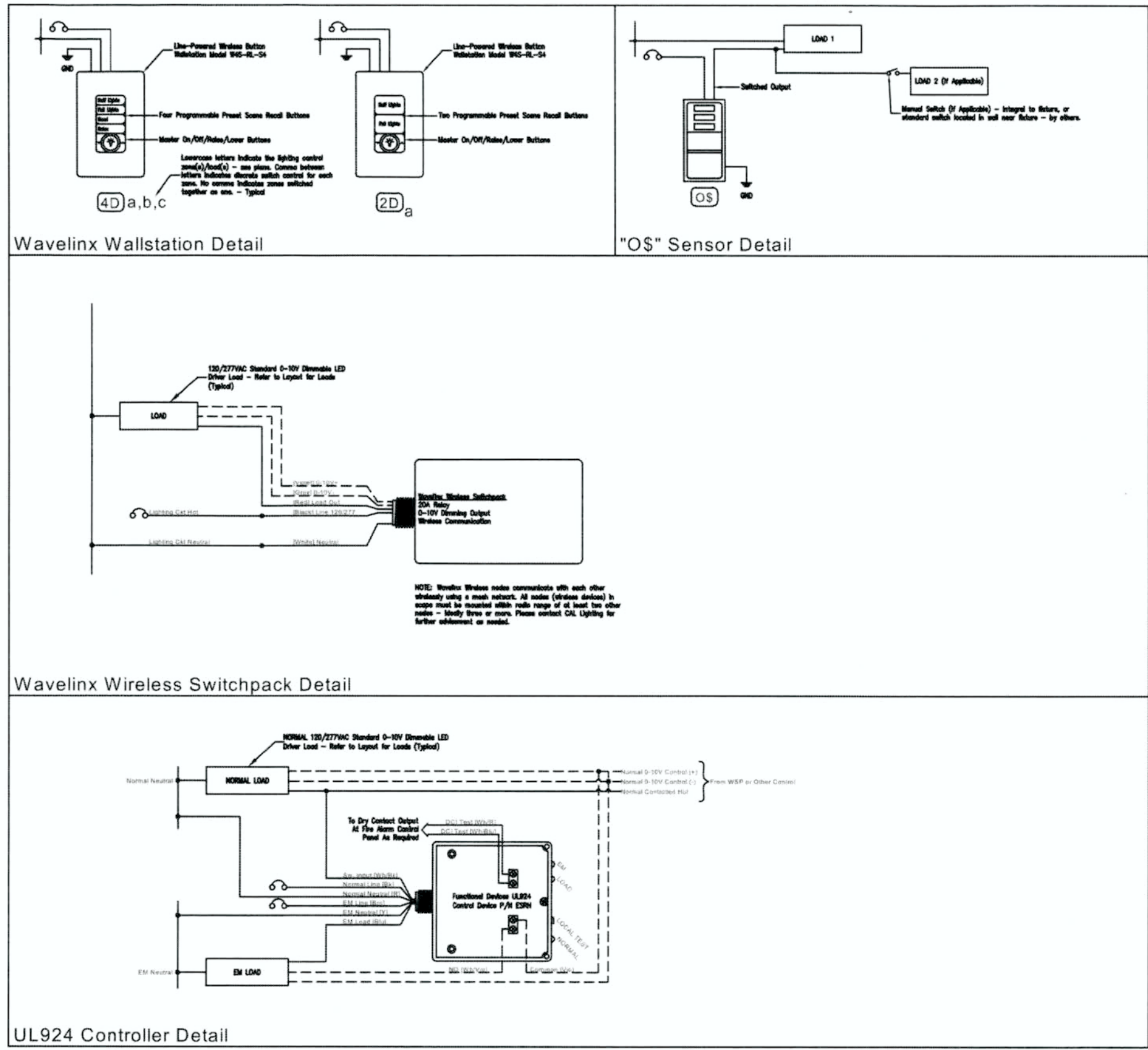
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STAMP

CAL Lighting Controls Schedule			
Symbol	Qty	Manufacturer	Description
Wavelinx Wireless			
RD _x		Cooper Wavelinx	WSP-UV-010 Wireless switchpack with 20A relay & 0-10V output - chase-nipple mount. Asterisk indicates follows daylight (primary), double asterisk indicates follows daylight (secondary).
OS _x , OL _x		Cooper Wavelinx	CWPD-1500 PIR Occupancy/Daylight Sensor, Ceiling Mount, 360° 1500 SqFt Coverage, Asterisk Indicates Daylight Enabled
S _a		Cooper Wavelinx	W2L-RL-S2-W Wireless 2 Button large, field programmable (RAISE/LOWER) wallstation.
S _{a,b,c}		Cooper Wavelinx	W4S-RL-S4-W Wireless 4 Button small, field programmable (RAISE/LOWER) wallstation.
WAC		Cooper Wavelinx	WAC-POE Wireless Area Controller - Controls up to 150 devices in up to 15 areas/rooms).
Standard Controls			
GS _a		Cooper Greengate	ONW-D-1001-DMV-W Dual-Tech Wall Switch Occupancy Sensor, 180° Coverage, 120/277 VAC, 50/60 Hz, White
ER _x EM		Functional Devices	ESRN UL924 Controller w/ Aux Relay for 0-10V & Switch Sense - Chase-Nipple Mount - 120/277 VAC 50/60Hz



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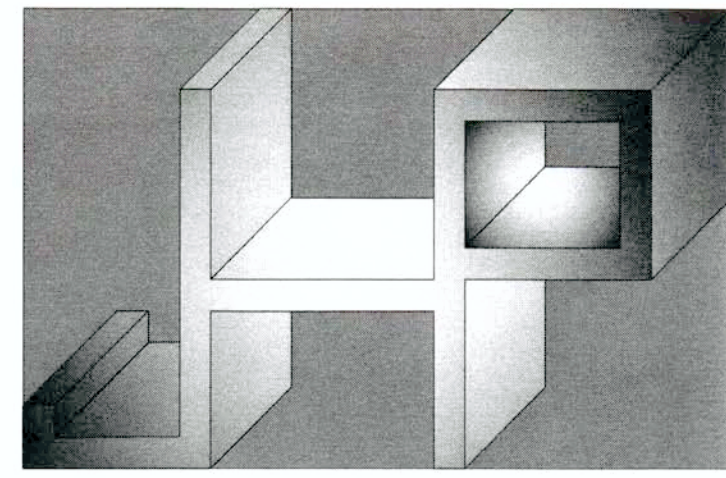
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**ELECTRICAL LIGHTING
 CONTROL DIAGRAM**

SHEET TITLE

SHEET NO. **E-0.5**



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SAN JOSE, CA 95131

TENANT IMPROVEMENT FOR
SANTA CLARA COUNTY
OFFICE OF EDUCATION



STAMP

REVISIONS

Table with 2 columns: DATE, DESCRIPTION. Includes entries for 09.29.2023 and 10.27.2023.

Table with 2 columns: DATE, DESCRIPTION. Includes entries for 09.29.2023 and 10.27.2023.

APPROVED
City of Santa Jose Building Division
Electrical
Brian Price
Date: ___/___/20__

JURISDICTION APPROVAL STAMP

ELECTRICAL LIGHTING
TITLE 24 COMPLIANCE
FORMS

SHEET TITLE

E-0.6

SHEET NO.

STATE OF CALIFORNIA
Indoor Lighting
CERTIFICATE OF COMPLIANCE
Project Name: Santa Clara County Office of Education Remodel
Report Page: (Page 3 of 7)
Date Prepared: 2023-10-25 12:49:04-04:00

F. INDOOR LIGHTING FIXTURE SCHEDULE
Table with columns: Name or Item Tag, Complete Luminaire Description, Modular (Track) Fixture, Small Aperture & Color Change, Watts per Luminaire, How is Wattage determined, Total Number of Luminaires, Excluded per 140.6(a)(3) / 170.2(e)(2)C, Design Watts, Field Inspector Pass/Fail.

G. MODULAR LIGHTING SYSTEMS
This section does not apply to this project.

H. INDOOR LIGHTING CONTROLS (Not including PAFs)
Table with columns: Building Level Controls, 01, 02, 03, Field Inspector Pass/Fail.

Generated Date/Time: Documentation Software: Energy Code Ace
CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance
Report Version: 2022.0.000 Compliance ID: 145384-1023-0006
Schema Version: rev 20220101 Report Generated: 2023-10-25 09:49:07

STATE OF CALIFORNIA
Indoor Lighting
CERTIFICATE OF COMPLIANCE
Project Name: Santa Clara County Office of Education Remodel
Report Page: (Page 2 of 7)
Date Prepared: 2023-10-25 12:49:04-04:00

C. COMPLIANCE RESULTS
Table with columns: Allowed Lighting Power per 140.6(b) / 170.2(e) (Watts), Adjusted Lighting Power per 140.6(a) / 170.2(e) (Watts), Compliance Results.

D. EXCEPTIONAL CONDITIONS
This table is auto-filled with uneditable comments because of selections made or data entered in tables throughout the form.

E. ADDITIONAL REMARKS
This table includes remarks made by the permit applicant to the Authority Having Jurisdiction.

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CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance
Report Version: 2022.0.000 Compliance ID: 145384-1023-0006
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STATE OF CALIFORNIA
Indoor Lighting
CERTIFICATE OF COMPLIANCE
Project Name: Santa Clara County Office of Education Remodel
Report Page: (Page 1 of 7)
Date Prepared: 2023-10-25 12:49:04-04:00

A. GENERAL INFORMATION
Table with columns: 01 Project Location (city), 02 Climate Zone, 03 Occupancy Types Within Project, 04 Total Conditioned Floor Area (ft²), 05 Total Unconditioned Floor Area (ft²), 06 # of Stories (Habitable Above Grade).

B. PROJECT SCOPE
Table with columns: Scope of Work, Conditioned Spaces, Unconditioned Spaces, Calculation Method, Area (ft²).

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STATE OF CALIFORNIA
Indoor Lighting
CERTIFICATE OF COMPLIANCE
Project Name: Santa Clara County Office of Education Remodel
Report Page: (Page 4 of 7)
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H. INDOOR LIGHTING CONTROLS (Not including PAFs)
Table with columns: Area Level Controls, 04, 05, 06, 07, 08, 09, 10, 11, 12, Field Inspector Pass/Fail.

I. LIGHTING POWER ALLOWANCE: COMPLETE BUILDING OR AREA CATEGORY METHODS
Table with columns: Area Description, Complete Building or Area Category Primary Function Area, Allowed Density (W/ft²), Area (ft²), Allowed Wattage (Watts), Additional Allowance / Adjustment Area Category, PAF.

J. ADDITIONAL ALLOWANCE: AREA CATEGORY METHOD QUALIFYING LIGHTING SYSTEM
This section does not apply to this project.

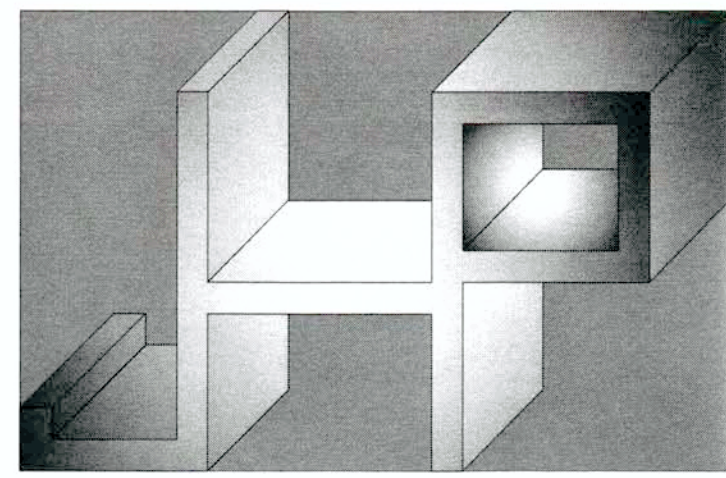
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CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance
Report Version: 2022.0.000 Compliance ID: 145384-1023-0006
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STATE OF CALIFORNIA
Indoor Lighting
CERTIFICATE OF COMPLIANCE
Project Name: Santa Clara County Office of Education Remodel
Report Page: (Page 7 of 7)
Date Prepared: 2023-10-25 12:49:04-04:00

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT
I certify that this Certificate of Compliance documentation is accurate and complete.
Documentation Author Name: Jia Pan
Signature Date: 09-28-2023

RESPONSIBLE PERSON'S DECLARATION STATEMENT
I verify the following under penalty of perjury, under the laws of the State of California:
1. The information provided on this Certificate of Compliance is true and correct.
2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer).

Generated Date/Time: Documentation Software: Energy Code Ace
CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance
Report Version: 2022.0.000 Compliance ID: 145384-1023-0006
Schema Version: rev 20220101 Report Generated: 2023-10-25 09:49:07



JHP Engineering and Design Services Inc.

ADD: 3103 Independence Drive, Livermore, CA 94551
TEL: 510-468-0613
CEL: 925-409-2508

PROJECT ADDRESS
1290 RIDDER PARK DR,
THIRD FLOOR SOUTH
SAN JOSE, CA 95131

TENANT IMPROVEMENT FOR
SANTA CLARA COUNTY
OFFICE OF EDUCATION



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REVISIONS

DATE	DESCRIPTION
09.29.2023	PROGRESS CD SET
10.27.2023	ISSUED FOR PERMIT

DATE	09.29.2023
SCALE	AS SHOWN
PROJECT ID	23044
DRAWN BY	

APPROVED
City of Santa Clara Building Division
Electrical
Brian Price
Date: _____ Plan NO: _____

JURISDICTION APPROVAL STAMP

ELECTRICAL POWER
TITLE 24 COMPLIANCE
FORMS

SHEET TITLE

E-0.7

SHEET NO.

STATE OF CALIFORNIA CALIFORNIA ENERGY COMMISSION
Electrical Power Distribution NRCC-ELC-E
CERTIFICATE OF COMPLIANCE (Page 1 of 4)
Project Name: Santa Clara County Office of Education Remodel
Project Address: 1290 RIDDER PARK DR., 3RD FLOOR SOUTH, SJ, CA
Date Prepared: 2023-09-28T00:02:48-04:00

A. GENERAL INFORMATION

01 Project Location (city)	San Jose	02 Climate Zone	4
03 Occupancy Types Within Project:		Office	

B. PROJECT SCOPE
This table includes electrical systems that are within the scope of the permit application.

01	02	03	04	05	06	07
Electrical Service Designation/Description	Scope of Work ¹	Rating ² (kVA)	Utility Provided Metering System Exception to 130.5(a)/160.6(a) ³	Systems subject to CA Elec Code Article 517 Exception to 130.5(a) and (b)	Demand Response Controls	Provides power to dwelling units/common living areas only in multifamily occupancy
New branch circuit at downstream of panel level	Add/Alt to feeders and branch circuits only	---	<input type="checkbox"/>	<input type="checkbox"/>	Where required, demand response controls must be specified which are capable of receiving and automatically responding to at least one standards based messaging protocol which enables demand response after receiving a demand response signal. Sections 120.2/160.3, 130.1/160.5, and 130.3/160.5, and mechanical, indoor lighting, and sign lighting Certificate of Compliance documents will indicate when demand response controls are required.	<input type="checkbox"/>

FOOTNOTES: Adding only new feeders and branch circuits triggers Voltage Drop 130.5(c)/160.6(c), no other requirements from 130.5/160.6 are required.
If common use areas in a multifamily are submetered, rating is for submeter size serving common use areas.
³ Applicable if the utility company is providing a metering system that indicates instantaneous kW demand and kWh for a utility-defined period.

Generated Date/Time: _____ Documentation Software: Energy Code Ace
CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance Report Version: 2022.0.000 Schema Version: rev 20220101 Compliance ID: 145384-0923-0004 Report Generated: 2023-09-27 21:02:50

STATE OF CALIFORNIA CALIFORNIA ENERGY COMMISSION
Electrical Power Distribution NRCC-ELC-E
CERTIFICATE OF COMPLIANCE (Page 2 of 4)
Project Name: Santa Clara County Office of Education Remodel
Project Address: 1290 RIDDER PARK DR., 3RD FLOOR SOUTH, SJ, CA
Date Prepared: 2023-09-28T00:02:48-04:00

C. COMPLIANCE RESULTS
Results in this table are automatically calculated from data input and calculations in Tables F through J. Note: If any cell on this table says "COMPLIES with Exceptional Conditions" refer to Table D. Exceptional Conditions for guidance or see applicable Table referenced below.

01	02	03	04	05	06				
Service Electrical Metering 130.5(a)/160.6(a) (See Table F)	AND	Separation for Monitoring 130.5(b)/160.6(b) (See Table G)	AND	Voltage Drop 130.5(c)/160.6(c) (See Table H)	AND	Controlled Receptacles 130.5(d)/160.6(d) (See Table I)	AND	Electric Ready 160.9 (See Table J)	Compliance Results
COMPLIES									

D. EXCEPTIONAL CONDITIONS
This table is auto-filled with uneditable comments because of selections made or data entered in tables throughout the form.

E. ADDITIONAL REMARKS
This table includes remarks made by the permit applicant to the Authority Having Jurisdiction.

H. VOLTAGE DROP
This table includes entirely new or complete replacement electrical power distribution systems, or alterations that add, modify or replace both feeders and branch circuits to demonstrate compliance with 130.5(c)/160.6(c). For alterations, only the altered circuits must demonstrate compliance per 141.0(b)(2)(ii)/180.2(b)(4)(vii).

01	02	03	04	05
Electrical Service Designation/Description	Combined Voltage Drop on Installed Feeder/Branch Circuit Conductors Compliance Method	Location of Voltage Drop Calculations ¹	Sheet Number for Voltage Drop Calculations in Construction Documents	Field Inspector
New branch circuit at downstream of panel level	<input checked="" type="checkbox"/> Voltage drop less than 5%	<input type="checkbox"/> Permitted by CA Elec Code (Exception to 130.5(c))*	Contractor Responsible	Pass <input type="checkbox"/> Fail <input type="checkbox"/>

* NOTES: If "Permitted by CA Elec Code" is selected under Compliance Method above, please indicate where the exception applies in the space provided below.
¹ FOOTNOTES: Voltage drop calculations may be attached to the permit application outside the construction documents if allowed by the Authority Having Jurisdiction. Select "attached" if applicable. If calculations will be the responsibility of the installing contractor, select "Contractor Responsible".

Generated Date/Time: _____ Documentation Software: Energy Code Ace
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STATE OF CALIFORNIA CALIFORNIA ENERGY COMMISSION
Electrical Power Distribution NRCC-ELC-E
CERTIFICATE OF COMPLIANCE (Page 3 of 4)
Project Name: Santa Clara County Office of Education Remodel
Project Address: 1290 RIDDER PARK DR., 3RD FLOOR SOUTH, SJ, CA
Date Prepared: 2023-09-28T00:02:48-04:00

K. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION
Selections have been made based on information provided in this document. If any selection have been changed by permit applicant, an explanation should be included in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and can be found online.

Form/Title
NRCC-ELC-E - Must be submitted for all buildings

L. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE
There are no farms required for this project.

Generated Date/Time: _____ Documentation Software: Energy Code Ace
CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance Report Version: 2022.0.000 Schema Version: rev 20220101 Compliance ID: 145384-0923-0004 Report Generated: 2023-09-27 21:02:50

STATE OF CALIFORNIA CALIFORNIA ENERGY COMMISSION
Electrical Power Distribution NRCC-ELC-E
CERTIFICATE OF COMPLIANCE (Page 4 of 4)
Project Name: Santa Clara County Office of Education Remodel
Project Address: 1290 RIDDER PARK DR., 3RD FLOOR SOUTH, SJ, CA
Date Prepared: 2023-09-28T00:02:48-04:00

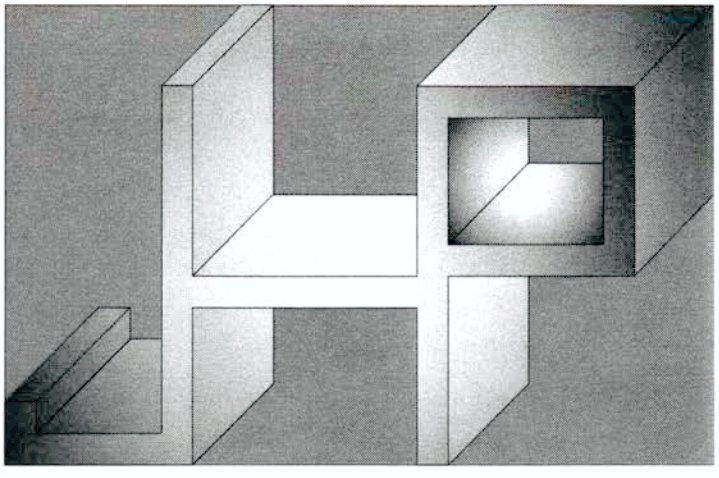
DOCUMENTATION AUTHOR'S DECLARATION STATEMENT
I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name: Jia Pan
Signature Date: 09-28-2023
Address: 3103 Independence Drive, Livermore, CA 94551
Phone: 925-409-2508

RESPONSIBLE PERSON'S DECLARATION STATEMENT
I certify the following under penalty of perjury, under the laws of the State of California:
1. The information provided on this Certificate of Compliance is true and correct.
2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer).
3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 2 of the California Code of Regulations.
4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.
5. I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy.

Responsible Designer Name: Dennis Chuang
Signature Date: 09-28-2023
Address: 3103 Independence Drive, Livermore, CA 94551
Phone: 925-409-2508

Generated Date/Time: _____ Documentation Software: Energy Code Ace
CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance Report Version: 2022.0.000 Schema Version: rev 20220101 Compliance ID: 145384-0923-0004 Report Generated: 2023-09-27 21:02:50



JHP Engineering and Design Services Inc.
 ADD: 3103 Independence Drive, Livermore, CA 94551
 TEL: 510-468-0613
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PROJECT ADDRESS
 1290 RIDDER PARK DR,
 THIRD FLOOR SOUTH
 SAN JOSE, CA 95131

TENANT IMPROVEMENT for
**SANTA CLARA COUNTY
 OFFICE OF EDUCATION**



STAMP

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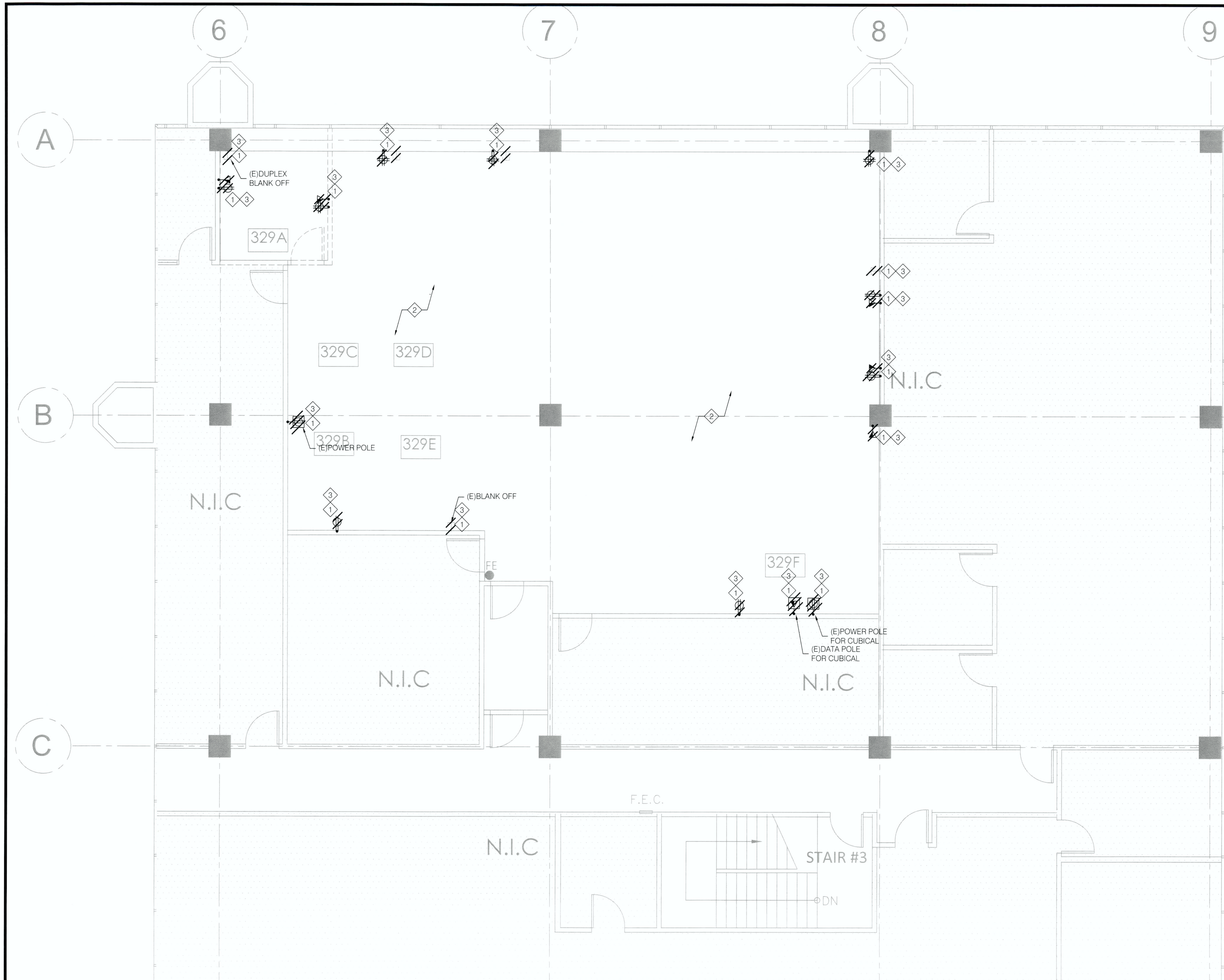
APPROVED
 City of Santa Jose Building Division
 Electrical
 Brian Price
 Date: _____ Plan NO: _____

JURISDICTION APPROVAL STAMP

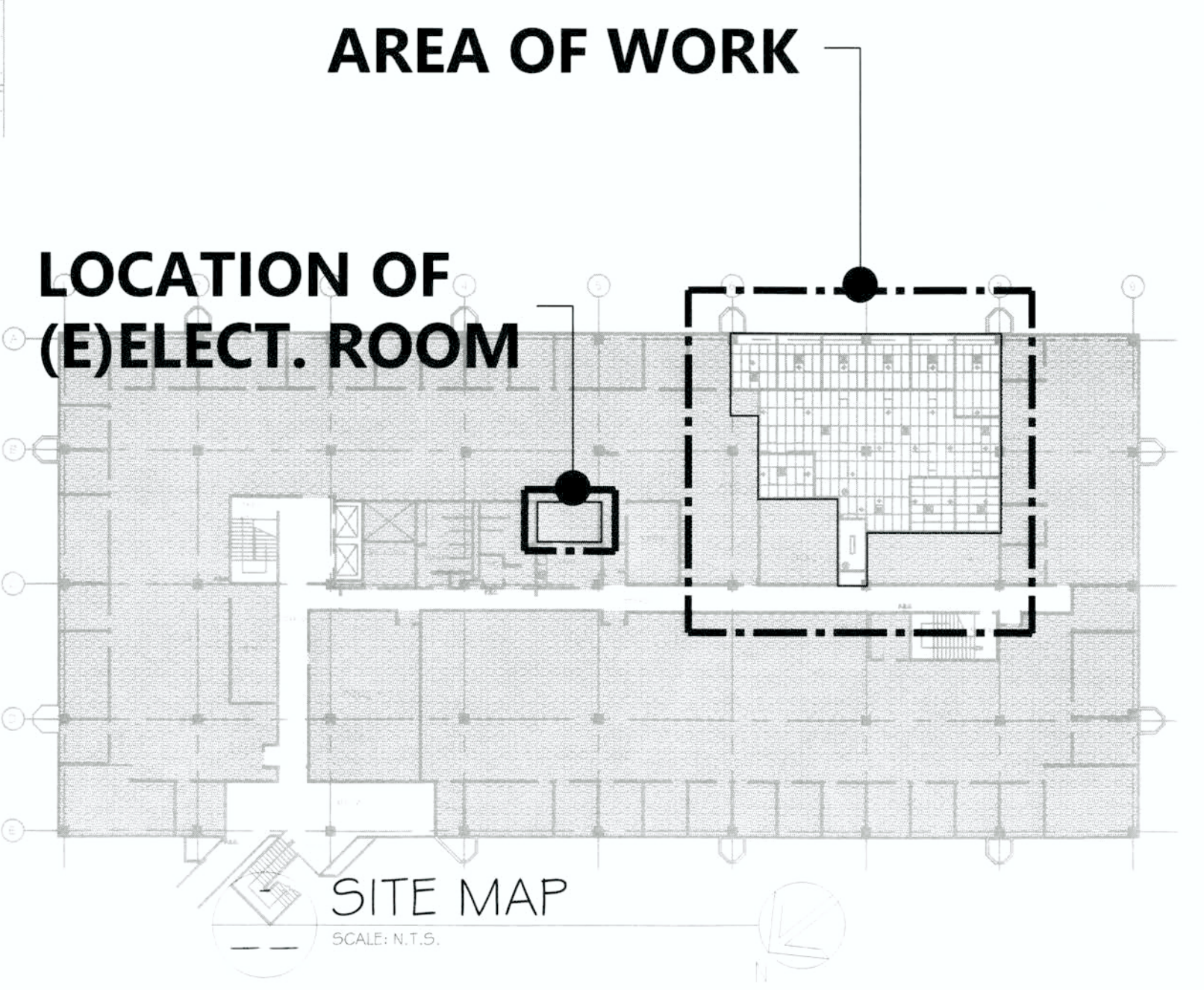
ELECTRICAL POWER PLAN - DEMO

SHEET TITLE

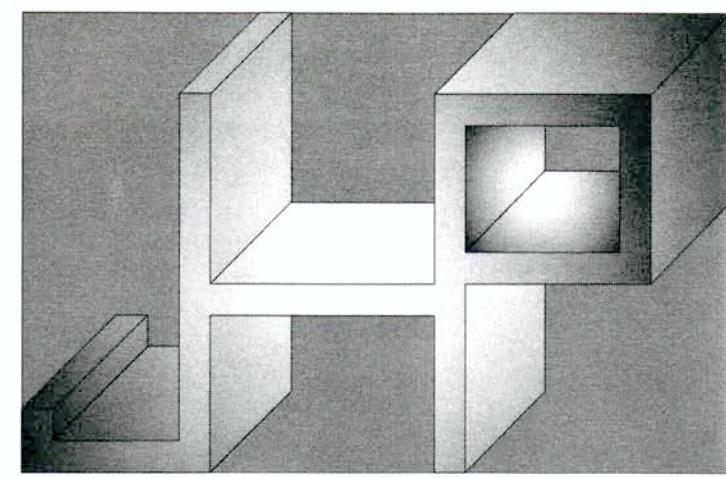
SHEET NO. **E-1.0**



1 ELECTRICAL POWER PLAN - DEMO
 SCALE: 1/4" = 1'-0"



- SHEET NOTES:**
- ① ELECTRICAL CONTRACTOR TO FIELD VERIFY ALL EXISTING POWER CIRCUITRIES SERVING PROJECT AREA ONLY. DEMOLISH AND REMOVE CIRCUITRIES BACK TO PANEL LEVEL. DEMOLITION SHALL NOT AFFECT OTHER BUILDING AREA. CONTRACTOR TO VERIFY EXACT SERVICING AREA OF EACH CIRCUIT BEFORE DEMOLITION AND COORDINATE WITH OWNERSHIP FOR POSSIBLE INTERRUPTION OF SERVICE TO AREA OUTSIDE OF PROJECT AREA. PROVIDE NEW NAME TAG AT PANEL SCHEDULE AFTER DEMOLITION. TYPICAL OF ALL.
 - ② NOT ALL EXISTING POWER SYSTEM AND DEVICES SERVING PROJECT AREA ARE SHOWN. CONTRACTOR SHALL INCLUDE COMPLETE DEMOLITION AS NOTED IN NOTE 1 TO HIS/HER BID. TYPICAL OF ALL.
 - ③ COORDINATE WITH GC TO PATCH AND PAINT WALL AFTER REMOVAL OF OUTLETS. S.A.D. TYPICAL.



JHP Engineering and Design Services Inc.

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PROJECT ADDRESS
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THIRD FLOOR SOUTH
SAN JOSE, CA 95131

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DATE 09.29.2023

SCALE AS SHOWN

PROJECT ID 23044

DRAWN BY

APPROVED
City of Santa Clara Building Division
Electrical
Brian Price
Date: _____ Plan NO: _____

JURISDICTION APPROVAL STAMP

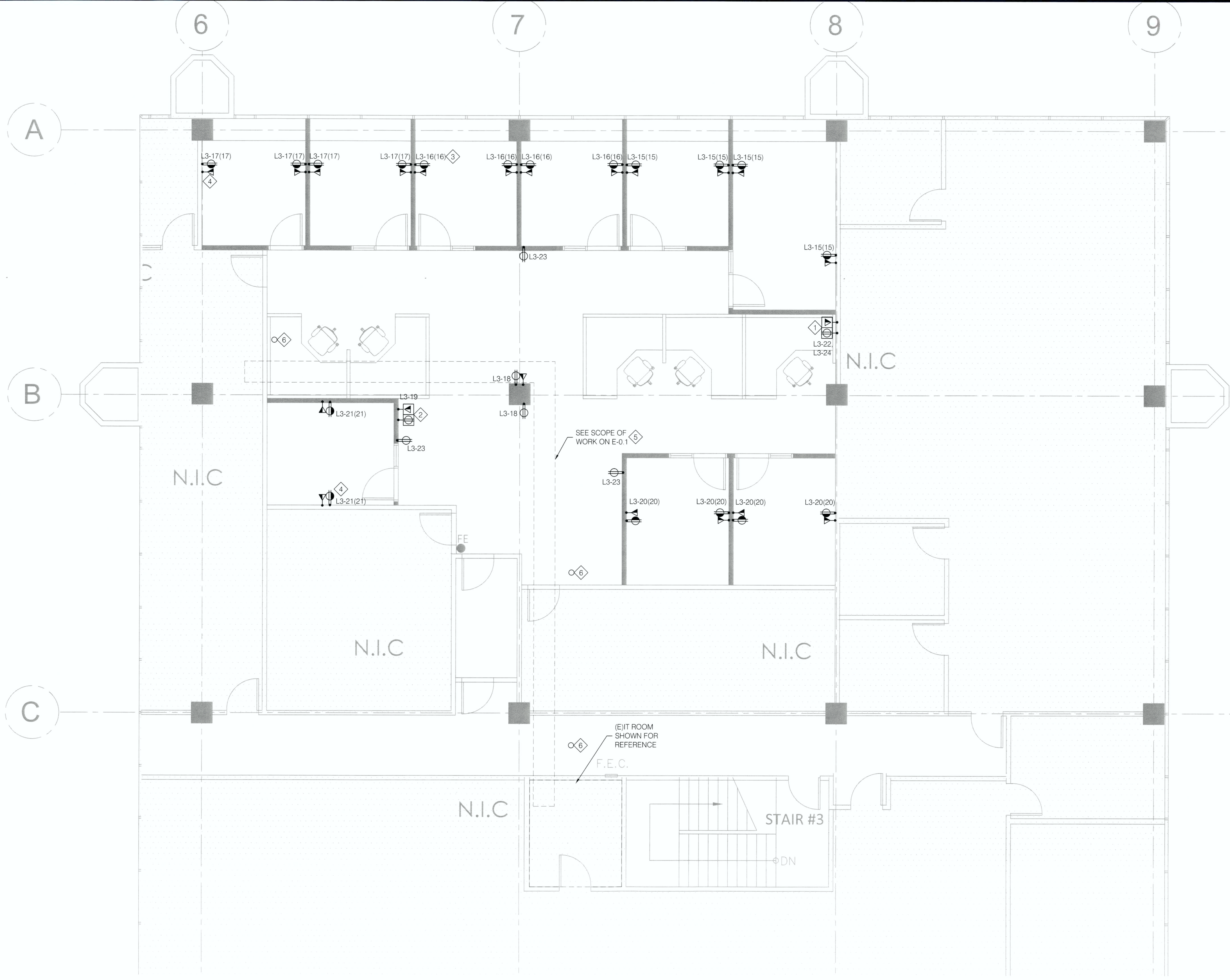
**ELECTRICAL POWER
PLAN - NEW**

SHEET TITLE

E-1.1

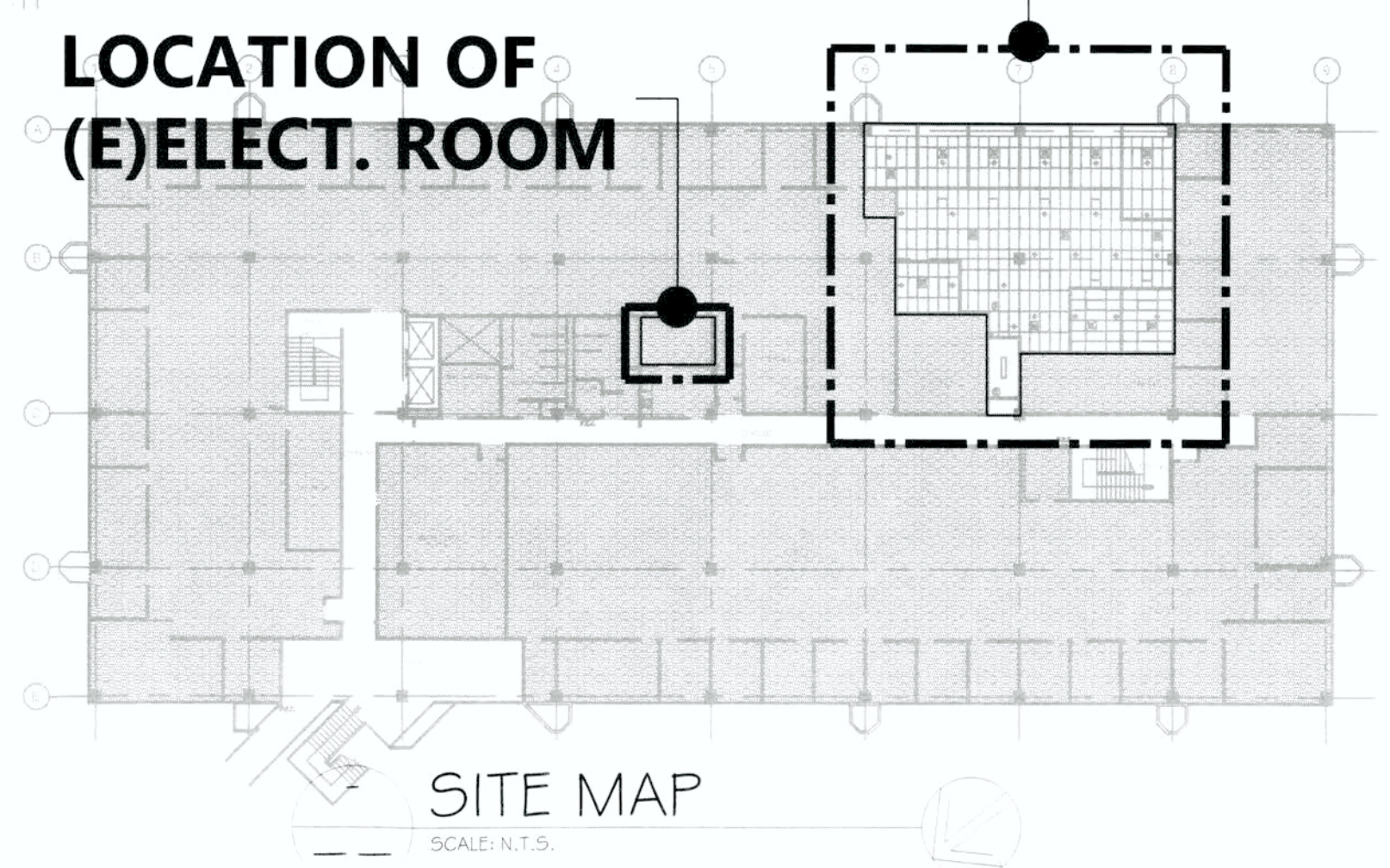
SHEET NO.

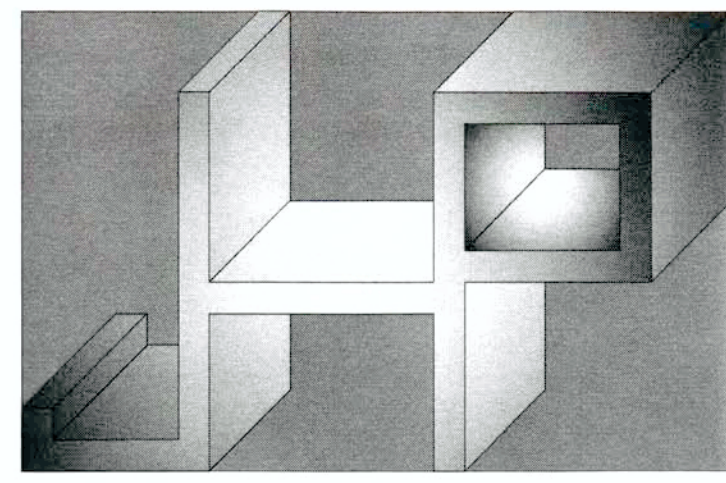
- SHEET NOTES:**
- 1 PROVIDE 60-FT FLEX POWER & DATA CONDUITS FROM POWER & DATA POLES INSIDE WALL FOR CUBICAL CONNECTION. CONFIRM WITH OWNERSHIP FOR EXACT LOCATION AND DETAIL REQUIREMENT. PROVIDE DEDICATED NEUTRAL AS NEEDED PER FACTORY REQUIREMENT FROM DEDICATED CIRCUIT.
 - 2 PROVIDE 30-FT FLEX POWER & DATA CONDUITS FROM POWER & DATA POLES INSIDE WALL FOR CUBICAL CONNECTION. CONFIRM WITH OWNERSHIP FOR EXACT LOCATION AND DETAIL REQUIREMENT. PROVIDE DEDICATED NEUTRAL AS NEEDED PER FACTORY REQUIREMENT FROM DEDICATED CIRCUIT.
 - 3 CIRCUIT NUMBERS SHOWN WITHIN () ARE TO BE CONTROLLED VIA CLOSEST RELATIVE OCCUPANCY SENSOR. SEE SHEET E-2.1 FOR SENSOR LOCATIONS. PROVIDE ADDITIONAL SENSORS AS REQUIRED. CONTRACTOR TO PROVIDE LABEL AT ALL CONTROLLED OUTLET NOTIFYING END-USERS. TYPICAL.
 - 4 PROVIDE UL LISTED FIRE RATED ASSEMBLY OUTLET AND DATA BOX AT RATED WALL. TYPICAL AT ALL RATED WALL.
 - 5 ELECTRICAL CONTRACTOR SHALL INCLUDE ALL REQUIRED LABOR AND MATERIALS TO SEPARATE (E) LOW-VOLTAGE CONTROL WIRES IN BUNDLE INTO NO MORE THAN 1-INCH DIAMETER SET AND SEPARATE EACH WITH NO LESS THAN 12" APART IN BETWEEN. SCOPE SHALL INCLUDE ALL LOW VOLTAGE WIRES WITHIN PROJECT AREA AND EXTENDING TO EXISTING IT ROOM ACROSS HALLWAY. COORDINATE WITH LOW-VOLTAGE CONTRACTOR FOR MEDICATION AT LANDING OF (E) SWITCH GEARS.
 - 6 ELECTRICAL CONTRACTOR TO COORDINATE WITH GC AND FIRE SPRINKLER CONTRACTOR FOR PROVISION OF SPRINKLER HEAD WITHIN 6-FEET OF RATED WALL PENETRATIONS WHERE NEW LOW-VOLTAGE CABLES PENETRATING RATED WALL. FIELD VERIFY ALL PENETRATION FOR FINAL COUNT OF SPRINKLER HEADS. TYPICAL.



1 ELECTRICAL POWER PLAN -NEW
SCALE: 1/4" = 1'-0"

AREA OF WORK





JHP Engineering and Design Services Inc.

ADD: 3103 Independence Drive, Livermore, CA 94551
 TEL: 510-468-0613
 CEL: 925-409-2508

PROJECT ADDRESS
 1290 RIDDER PARK DR.
 THIRD FLOOR SOUTH
 SAN JOSE, CA 95131

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DRAWN BY	

APPROVED
 City of San Jose Building Division
 Electrical
 Brian Price
 Date: _____ Plan NO: _____

JURISDICTION APPROVAL STAMP

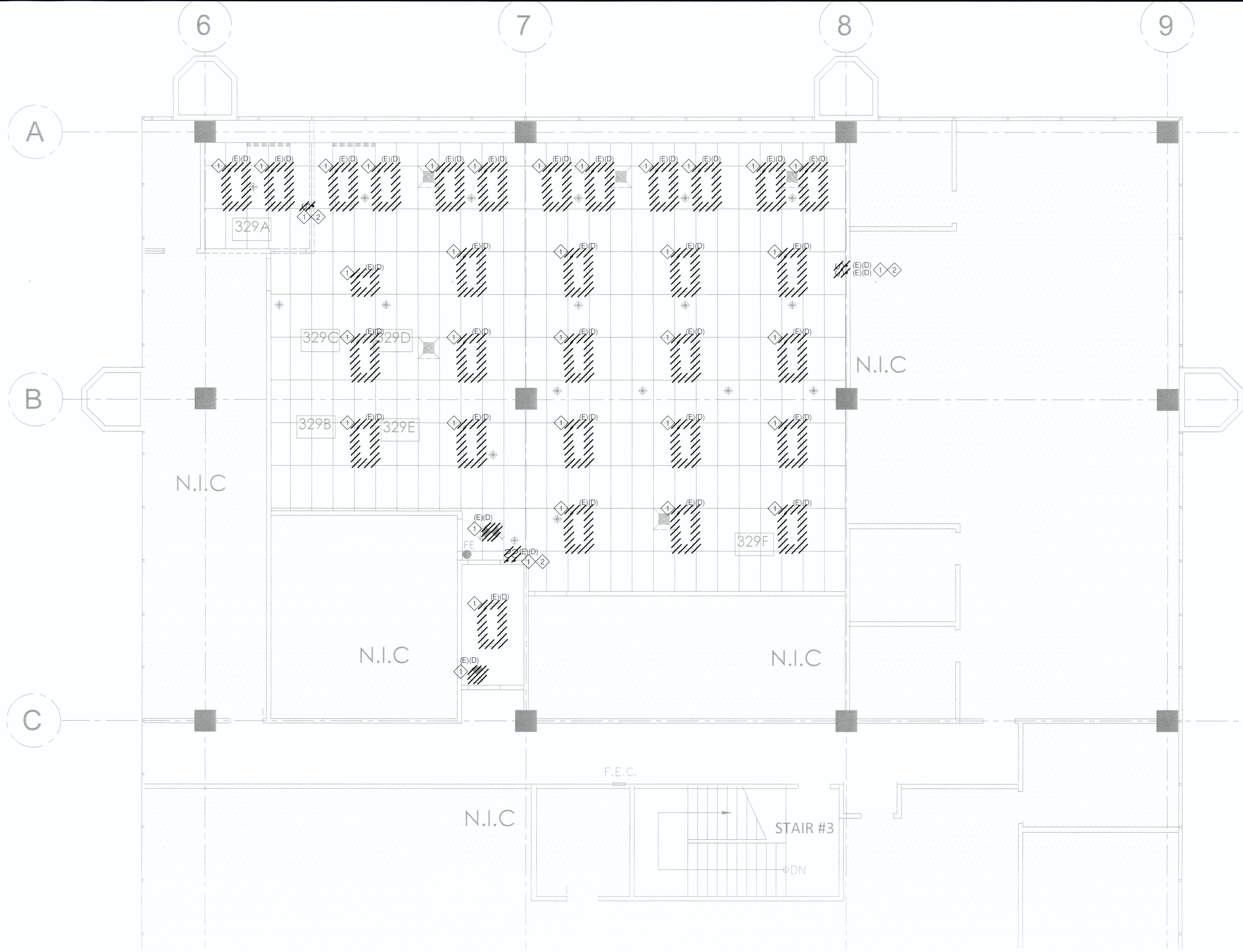
**ELECTRICAL LIGHTING
 PLAN - DEMO**

SHEET TITLE

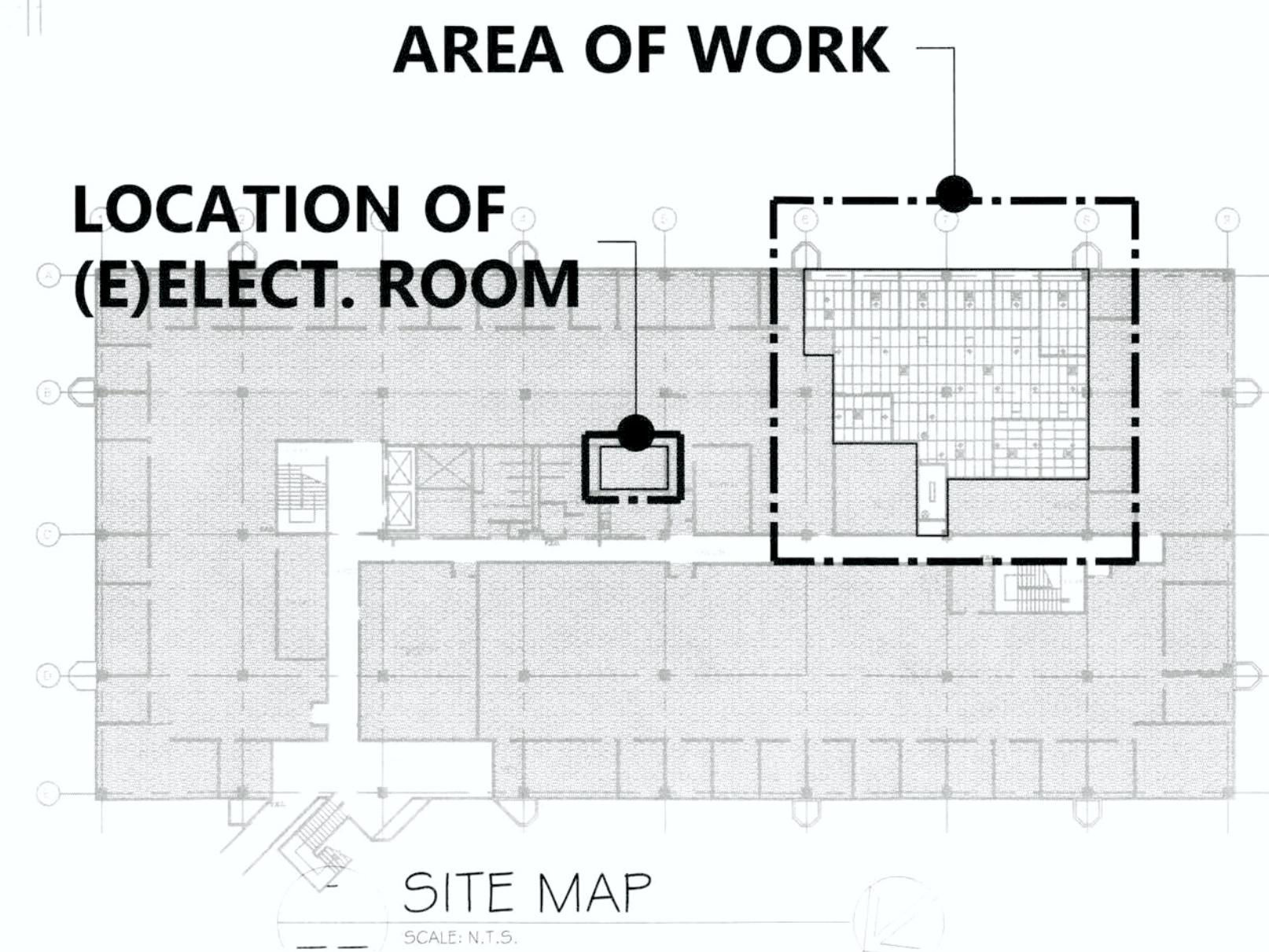
SHEET NO.
E-2.0

SHEET NOTES:

- 1 EXISTING LIGHTING FIXTURES AND ASSOCIATED SWITCHES AND CONTROL DEVICES SERVING PROJECT AREA TO BE DEMOLISH AND PREPARE FOR NEW LIGHTING FIXTURE CONNECTION. V.I.F. FOR EXACT LOCATION. SEE E-2.1 FOR NEW LIGHTING PLAN.
- 2 COORDINATE WITH GC TO PATCH AND PAINT WALL AFTER REMOVAL OF LIGHT SWITCHES. S.A.D. TYPICAL.



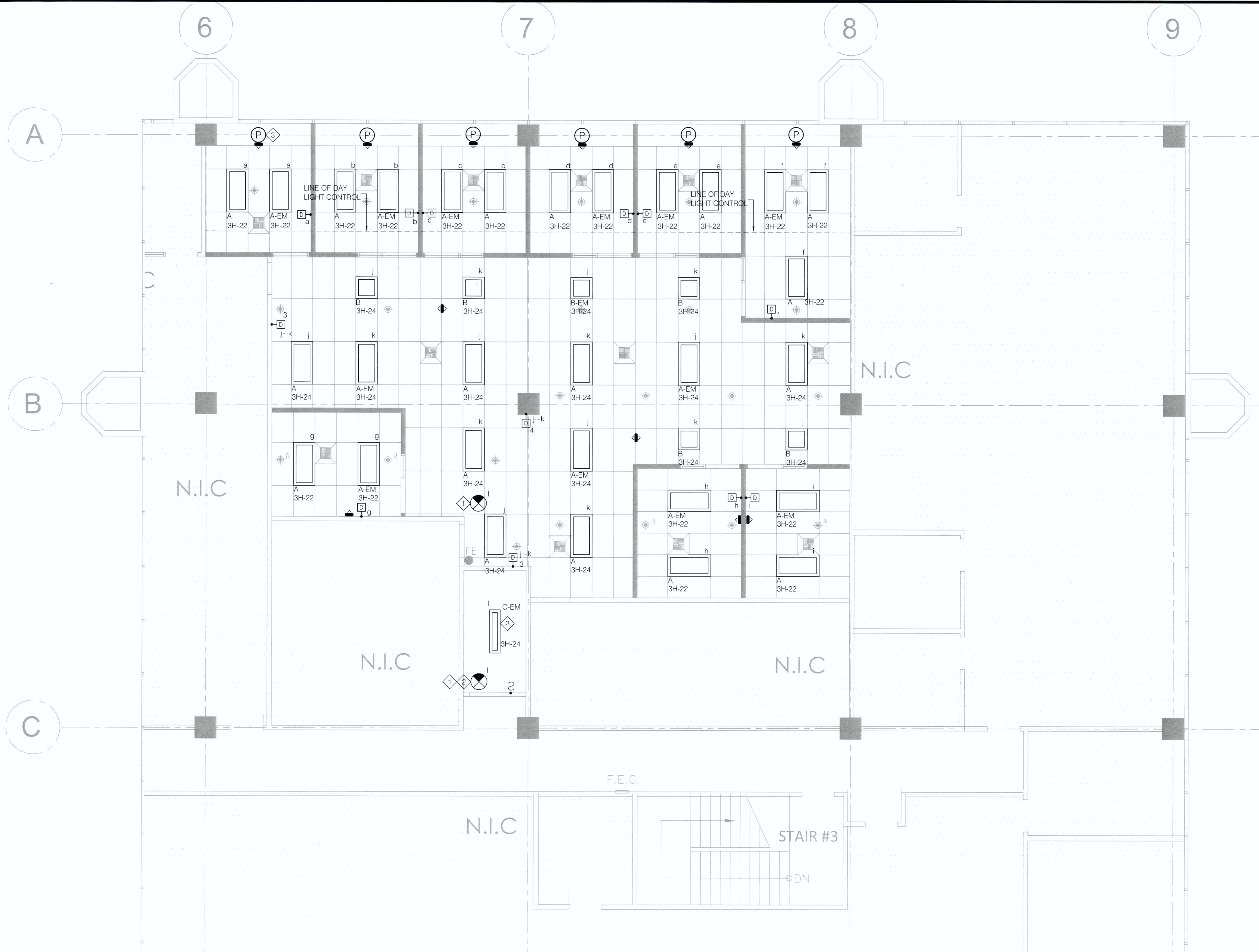
1 ELECTRICAL LIGHTING PLAN - DEMO
 SCALE: 1/4" = 1'-0"



AREA OF WORK

**LOCATION OF
 (E)ELECT. ROOM**

SITE MAP
 SCALE: 1/16" = 1'-0"



- SHEET NOTES:**
- 1 PROVIDE UN-SWITCHED HOT WIRE TO EMERGENCY BATTERY OF EMERGENCY LIGHT TO ALLOW NORMAL LIGHTING NOT TO ACTIVATE THE EMERGENCY BATTERY PACK. TYPICAL OF ALL.
 - 2 SURFACED MOUNTED FIXTURE BELOW RATED CEILING ASSEMBLY. PROVIDE UL LISTED FIRE RATED ASSEMBLY AT ALL PENETRATIONS OF RATED CEILING/WALL. TYPICAL OF ALL.
 - 3 CEILING MOUNTED WAVELINX WIRELESS DAYLIGHT/OCCUPANCY COMBO SENSOR. SEE CONTROL WIRING DIAGRAM FOR DETAILS. TYPICAL.

JHP Engineering and Design Services Inc.
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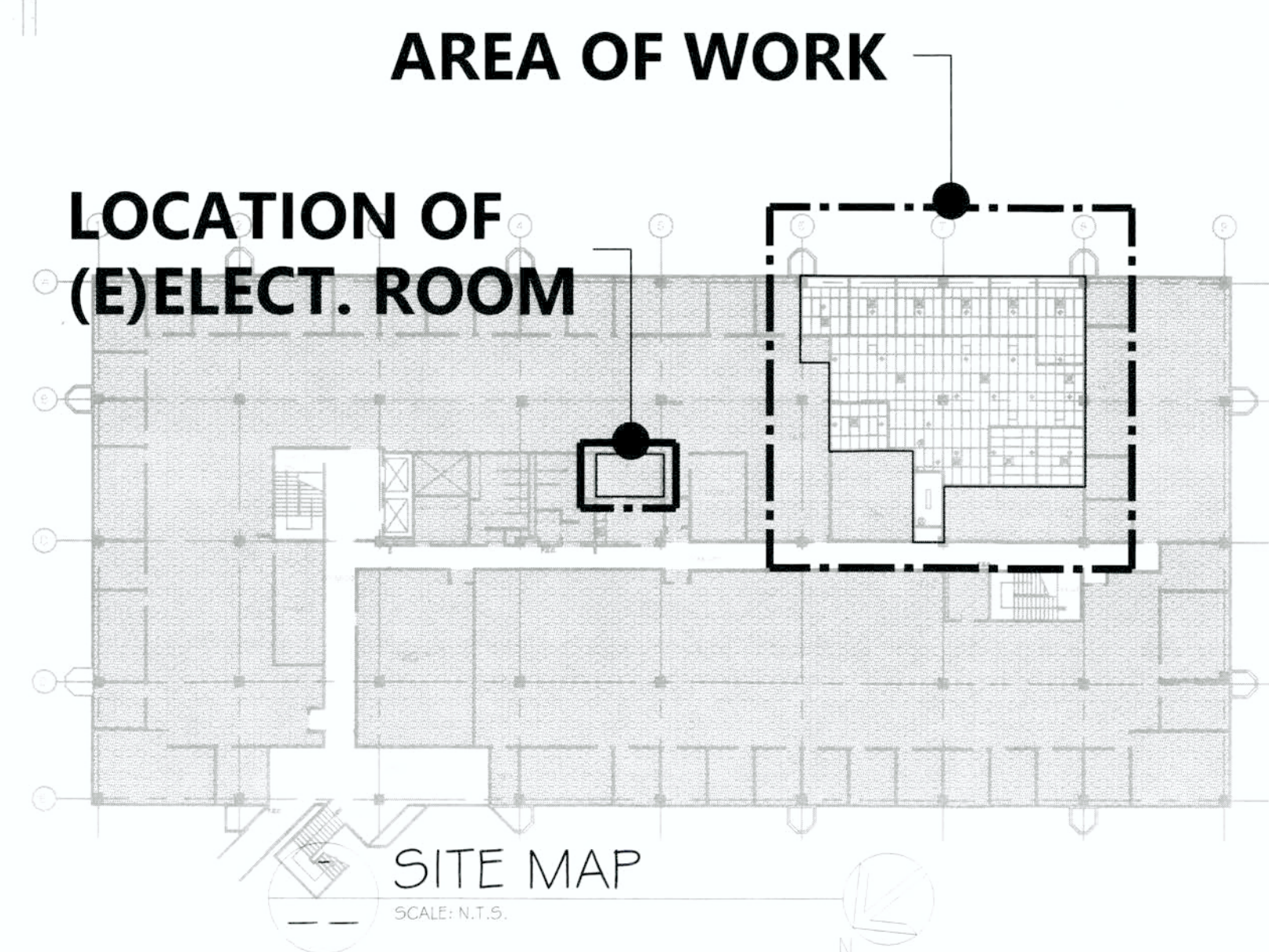
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DATE: 09.29.2023
 SCALE: AS SHOWN
 PROJECT ID: 23044
 DRAWN BY: _____

1 ELECTRICAL LIGHTING PLAN - NEW
 SCALE: 1/4" = 1'-0"



APPROVED
 City of Santa Clara Building Division
 Electrical
 Brian Price
 Date: _____ Plan NO: _____

JURISDICTION APPROVAL STAMP

**ELECTRICAL LIGHTING
 PLAN - NEW**

SHEET TITLE

SHEET NO. **E-2.1**