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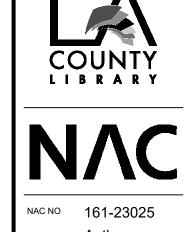


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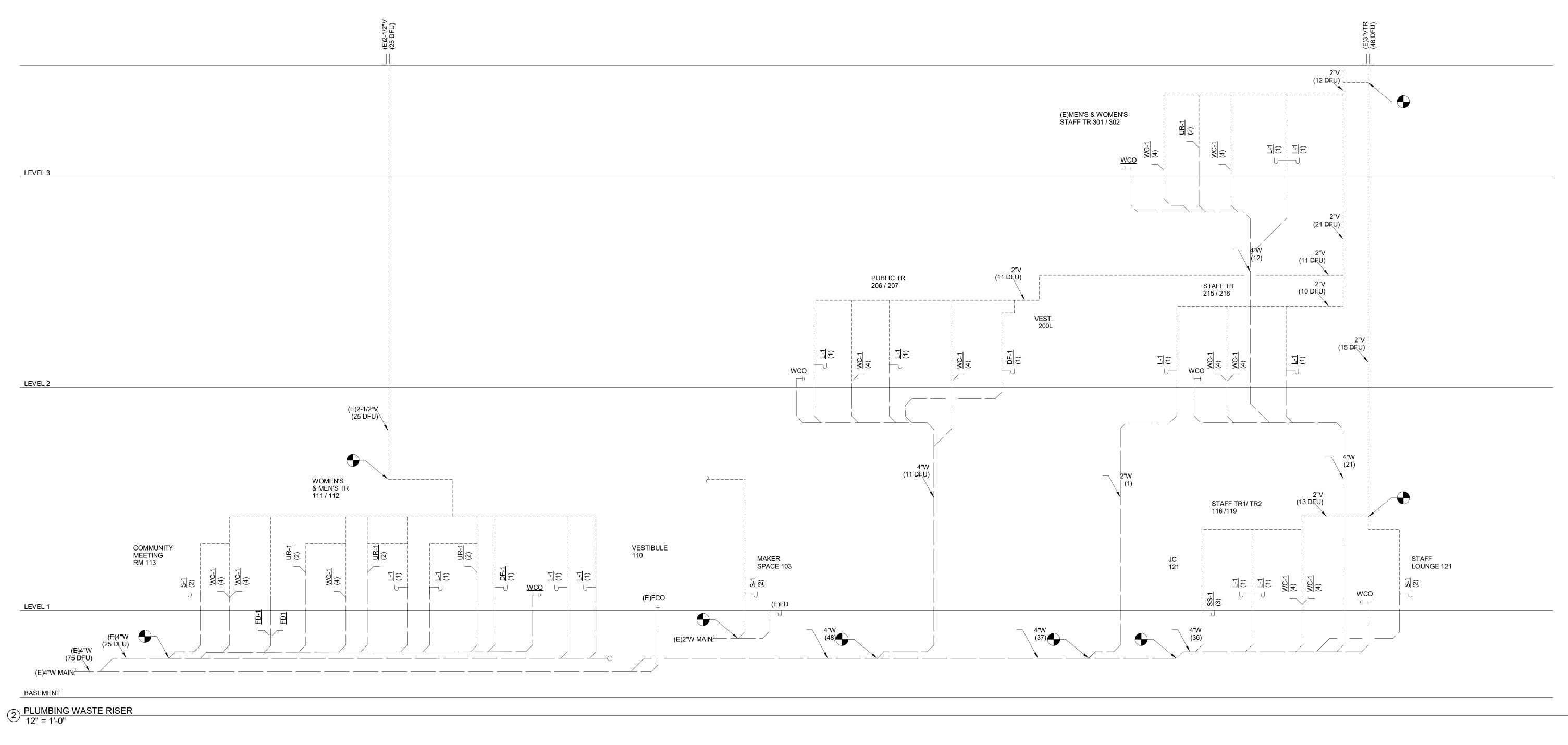


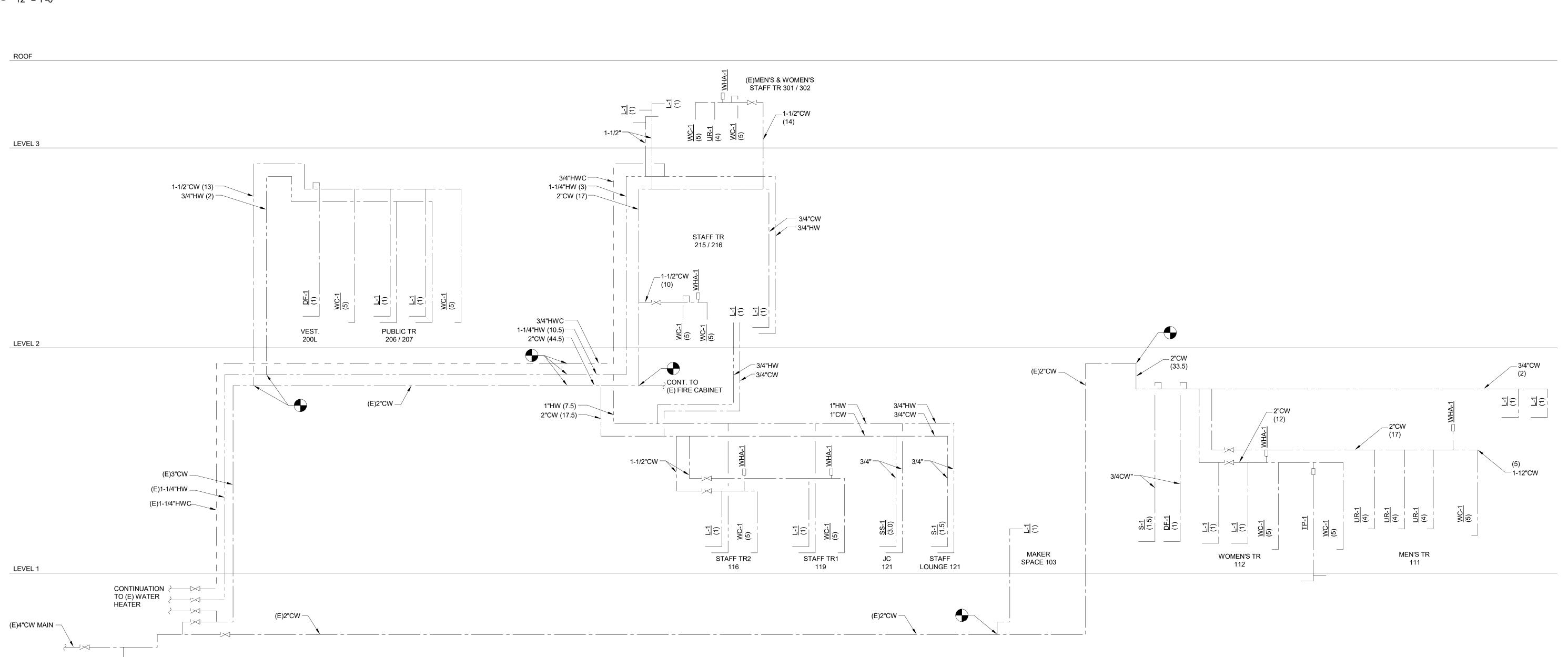


NAC NO 161-23025
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DATE 2/28/2025

PLUMBING RISERS

P5.01

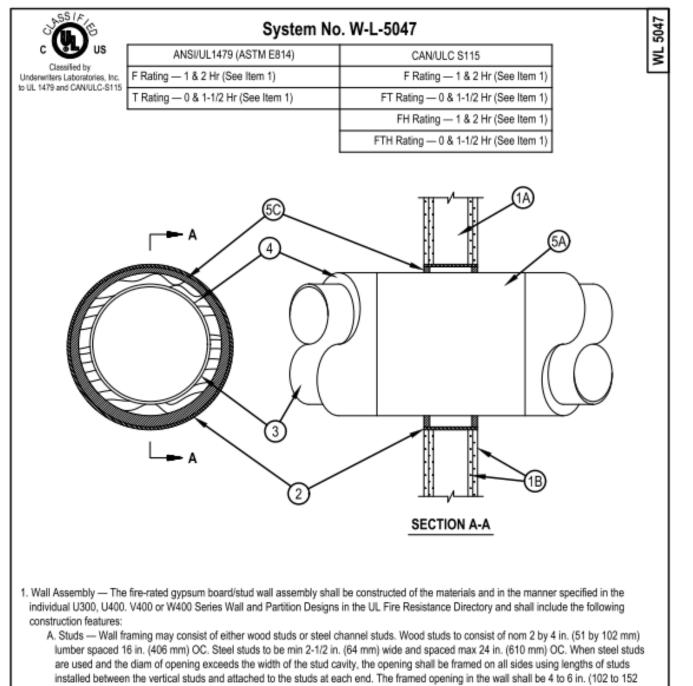




BASEMENT

1 PLUMBING WATER RISER 12" = 1'-0"

CONTINUATION TO (E) FIRE CABINET



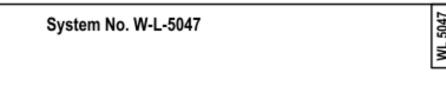
mm) wider and 4 to 6 in. (102 to 152 mm) higher than the diam of the metallic sleeve (Item 2) such that a clearance of 2 to 3 in. (51 to 76 mm) is present between the sleeve and the framing on all four sides.

B. Gypsum Board* — Two layers of nom 5/8 in. (16 mm) thick gypsum board, as specified in the individual Wall and Partition Design. Max diam of opening is 14-1/2 in. (368 mm) for wood stud walls and 30 in. (762 mm) for steel stud walls. The hourly F, FH Rating of the firestop system is equal to the hourly fire rating of the wall assembly in which it is installed. The T, FT, FTH Rating is 0 hr when installed in 1 hr wall assembly or when optional metallic sleeve (Item 2) is used. The T, FT, FTH Rating is 1-1/2 hr when installed in 2 hr wall assembly and optional sleeve is not used.

Hilti Firestop Systems

eproduced by HILTI, Inc. Courtesy of Underwriters Laboratories, Inc. January 27, 2015

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2. Metallic Sleeve (Optional) - Nom 30 in. (762 mm) diam (or smaller) Schedule 40 (or thinner) steel pipe cast into wall assembly with joint compound and installed flush with wall surfaces.

 Through Penetrants — One metallic pipe or tubing to be positioned within the firestop system. Pipe or tubing to be rigidly supported on both sides of floor or wall assembly. The following types and sizes of metallic pipes or tubing may be used: A. Steel Pipe - Nom 20 in (508 mm) diam (or smaller) Schedule 10 (or heavier) steel pipe. B. Iron Pipe — Nom 20 in. (508 mm) diam (or smaller) cast or ductile iron pipe.

C. Copper Tubing — Nom 6 in. (152 mm) diam (or smaller) Type L (or heavier) copper tubing. D. Copper Pipe — Nom 6 in. (152 mm) diam (or smaller) Regular (or heavier) copper pipe.

 Pipe Covering* — 1 to 3 in. (25 to 76 mm) thick hollow cylindrical heavy density (min 3.5 pcf or 56 kg/m3) glass fiber units jacketed on the outside with an all service jacket. Longitudinal joints sealed with metal fasteners of factory-applied self-sealing lap tape. Transverse joints secured with metal fasteners or with butt tape supplied with the product. Pipe covering to terminate 6 in. (152 mm) from each side of the assembly. Firestop System — The firestop system shall consist of the following:

A. Pipe Covering Materials* - Nom 1 to 3 in. (25 to 76 mm) thick unfaced mineral fiber pipe insulation sized to the outside diam of pipe or tube and extending 6 in. (152 mm) beyond each surface of the wall surface. Pipe insulation secured with min 18 AWG steel wire 3 in. (76 mm) beyond each surface of the wall assembly. When steel sleeve is not used, the annular space shall be min 1/4 in. (6 mm) to max 3 in. (76 mm), or when sleeve is used, min 1 in. (25 mm) to max 2-1/4 in. (57 mm).

INDUSTRIAL INSULATION GROUP L L C — High Temperature Pipe Insulation 1200, High Temperature Pipe Insulation BWT or High Temperature Pipe Insulation Thermaloc B. Sheathing Material* — All service jacket material shall be wrapped around the outer circumference of the pipe covering material (Item 4A) with kraft side exposed. Longitudinal joints sealed with metal fasteners or self-sealing lap tape.

See Sheathing Material (BVDV) category in the Building Materials Directory for names of manufacturers. Any sheathing material meeting the above specifications and bearing the UL Classification Marking with a Flame Spread Index of 25 or less and a Smoke Developed Index of 50 or less may be used. C. Fill, Void or Cavity Material* — Sealant — Min 5/8 in. or 1-1/4 in. (16 mm or 32 mm) thickness of fill material applied within the annulus

flush with both surfaces of wall, for 1 or 2 hr walls, respectively. HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC - FS-ONE Sealant or FS-ONE MAX Intumescent Sealant-

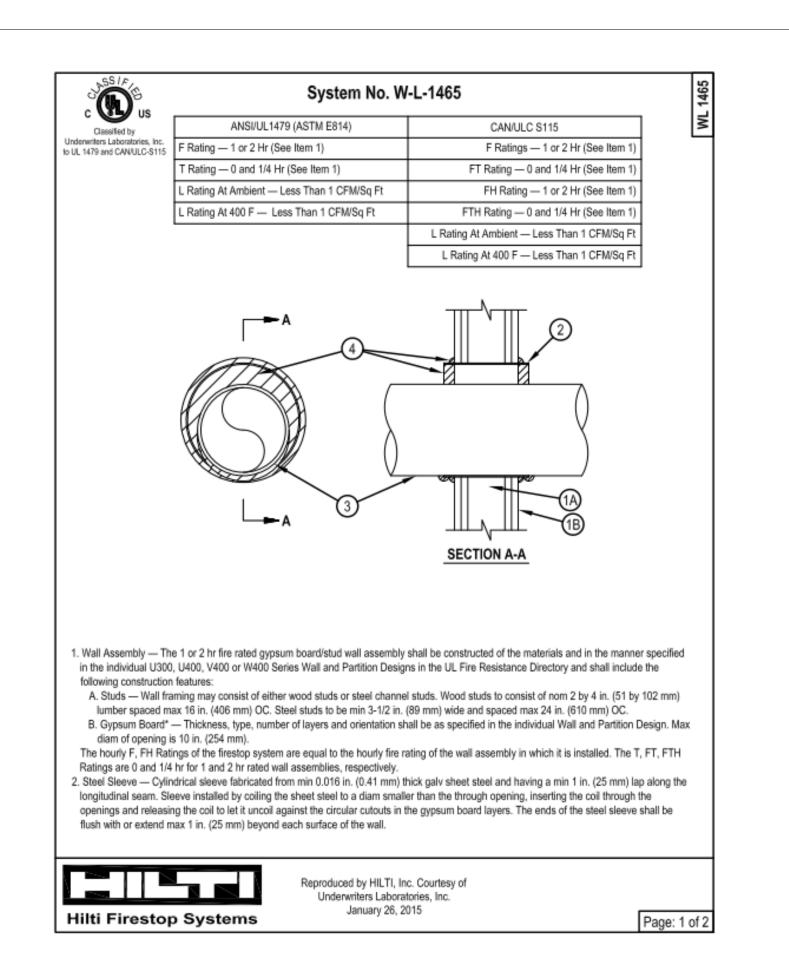
Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada),

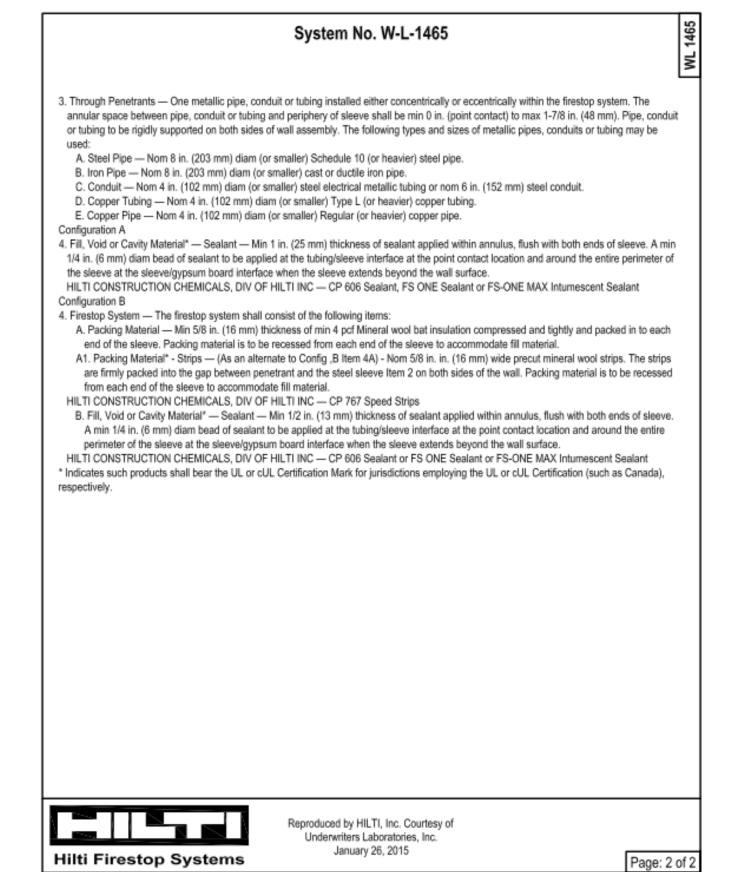


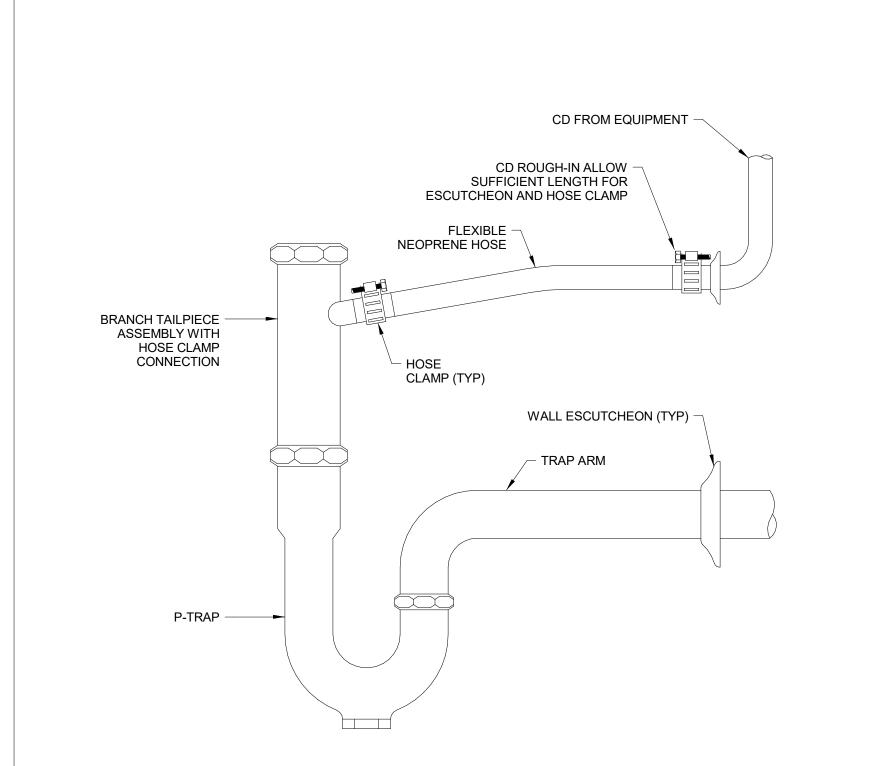
FIRE RATED INSULATED PENETRATION

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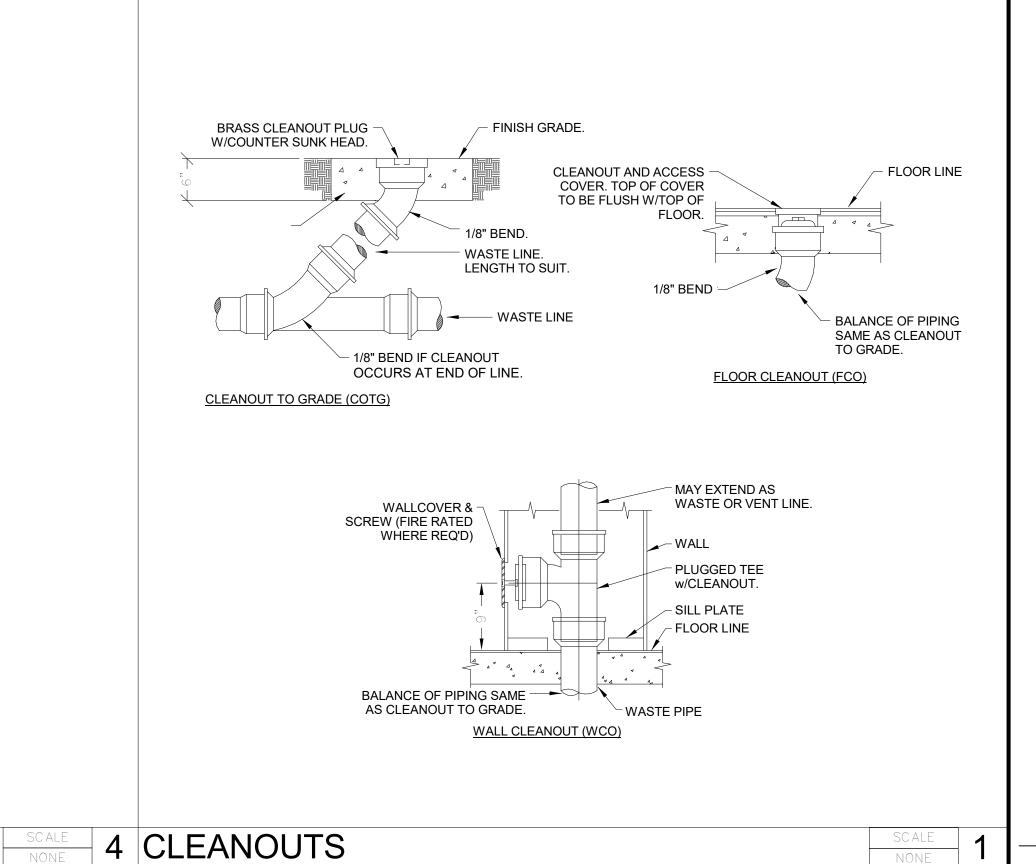
9 FIRE RATED BARE PIPE PENETRATION

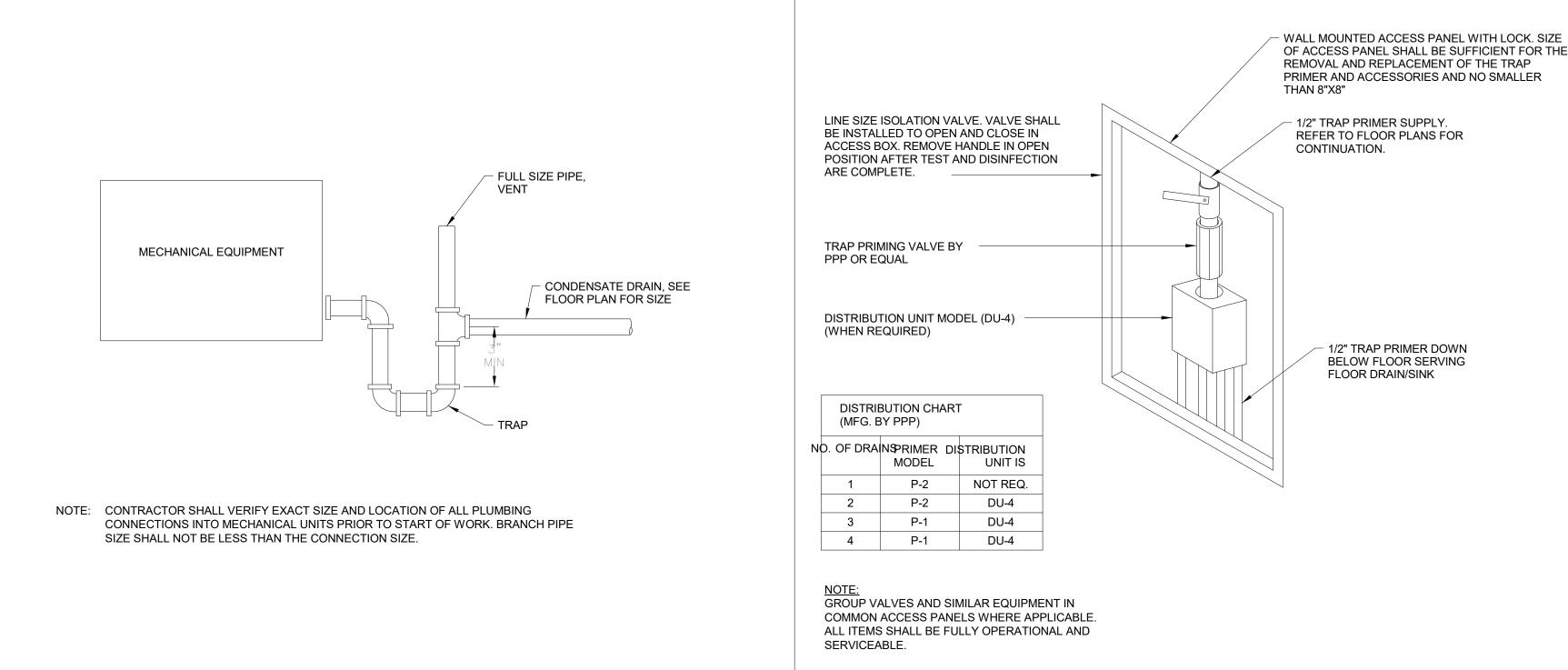


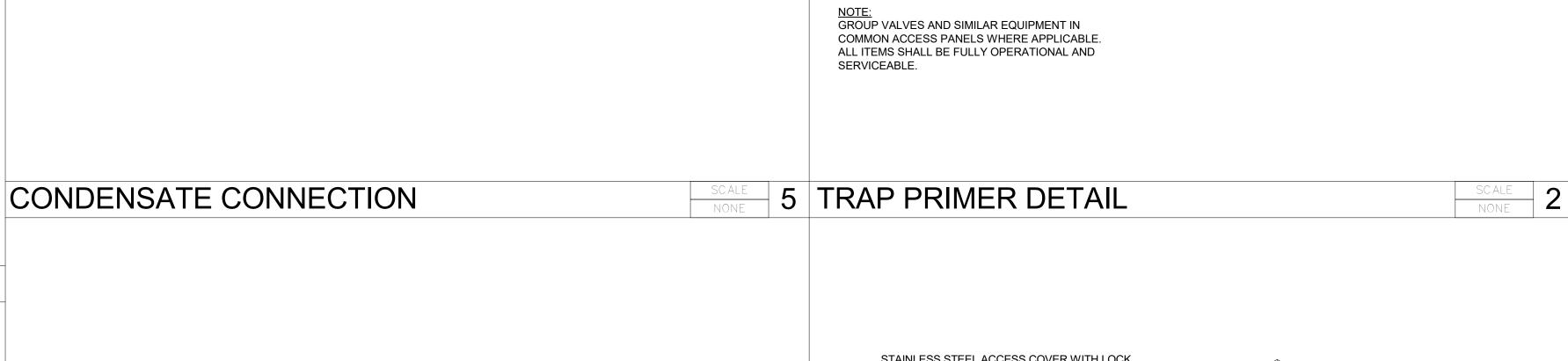


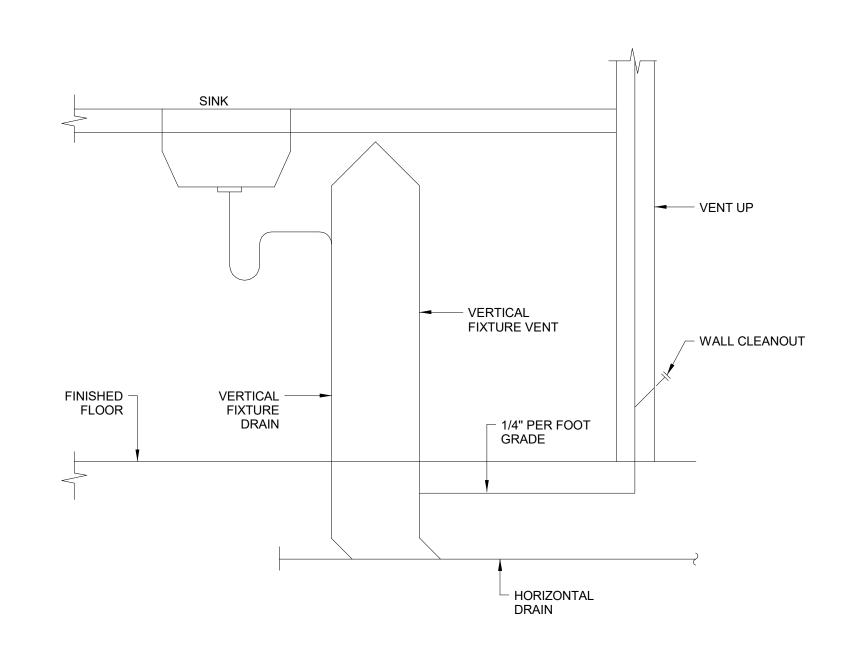


CONDENSATE TO TAILPIECE

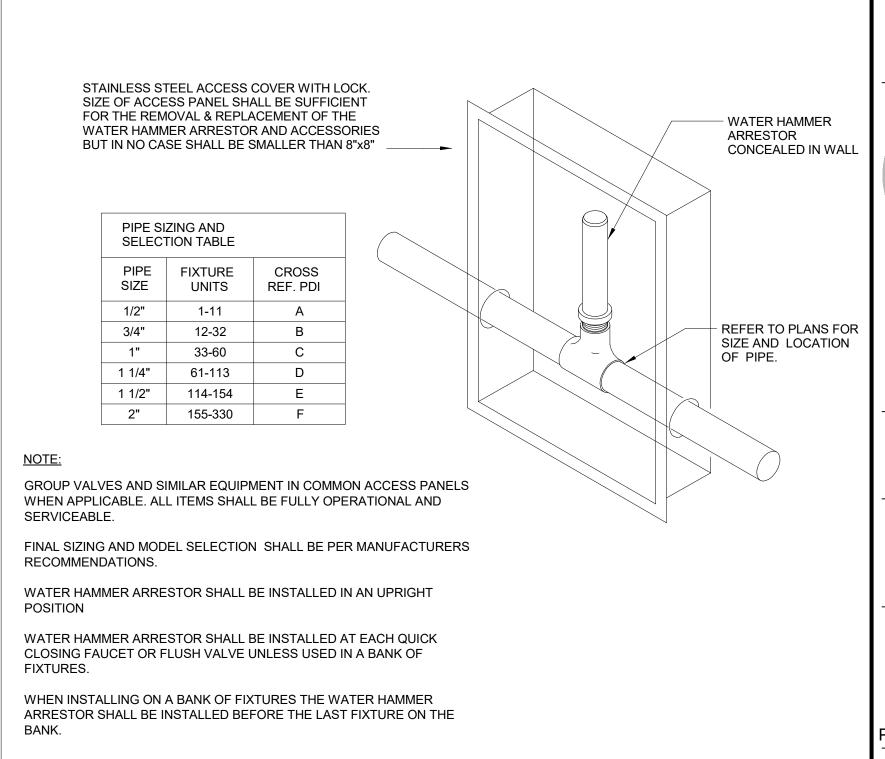




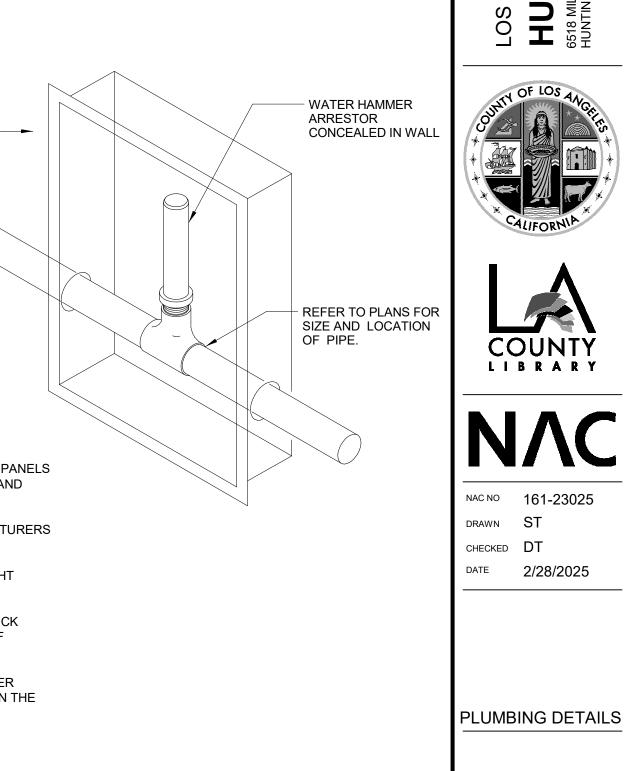




8 ISLAND VENT DETAIL



6 WATER HAMMER ARRESTOR DETAIL



REVISIONS

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GENERAL NOTES

- 1. PROVIDE ALL MATERIALS AND LABOR AS REQUIRED TO ACHIEVE A COMPLETE AND OPERATIONAL SYSTEM.
- 2. COORDINATE AND OBTAIN APPROVALS FROM ALL RESPECTIVE UTILITY COMPANIES AS REQUIRED FOR A COMPLETE AND FUNCTIONAL INSTALLATION.
- 3. INSTALL RACEWAY SYSTEMS AS FOLLOWS: a. USE RIGID GALVANIZED STEEL IN ALL AREAS EXPOSED TO WEATHER OR PHYSICAL
- b. USE FLEXIBLE METALLIC CONDUIT ONLY IN AREAS AS PERMITTED BY LOCAL CODE
- AUTHORITY, USE SEAL-TITE IN AREAS EXPOSED TO WEATHER. c. USE STEEL TYPE FITTINGS FOR ELECTRICAL METALLIC TUBING WHERE UTILIZED. ZINC DIE
- d. USE P.V.C. CONDUIT UNDERGROUND WITH CODE SIZED GROUND. CONDUIT RISERS AND STUBS ABOVE GRADE SHALL BE I.M.C. WITH HALF-LAPPED TAPE COVERING OR P.V.C
- 4. ALL NEW WIRING SHALL BE COPPER TYPE "XHHW-2" UON.

CAST FITTINGS ARE NOT PERMITTED.

- 5. CONDUIT FOR ROOF MOUNTED EQUIPMENT SHALL BE ROUTED BELOW THE ROOF WITHIN THE BUILDING.
- 6. ALL FIXTURE, DEVICE, ETC.. LOCATIONS SHALL BE VERIFIED WITH ARCHITECTURAL DRAWINGS AS WELL AS EQUIPMENT SUPPLIER REQUIREMENTS PRIOR TO ANY ROUGH-IN WORK.
- 7. ALL LIGHTING FIXTURES SHALL BE MOUNTED AND SUPPORTED IN ACCORDANCE WITH OSHA
- STANDARDS AND ALL LOCAL, STATE, AND NATIONAL ELECTRICAL CODES. 8. ELECTRONIC BALLASTS FOR FLUORESCENT LIGHTING FIXTURES SHALL HAVE A MINIMUM

BALLAST FACTOR (BF) OF 0.90 OR GREATER UNLESS OTHERWISE SPECIFIED.

- 9. ELECTRICAL CONTRACTOR SHALL PROVIDE LIGHTING FIXTURE MOUNTING KITS AS REQUIRED TO
- SUIT THE EXACT TYPE OF CEILING TO WHICH THEY ARE MOUNTED.
- 10. THESE DRAWINGS ARE DIAGRAMMATIC AND REPRESENT THE INTENT OF EQUIPMENT, DEVICES. ETC... TO BE CONNECTED AND THE CIRCUITS TO WHICH THEY ARE TO BE CONNECTED TO. CONTRACTOR SHALL INSTALL ALL CONDUIT, J-BOXES, ETC... AS REQUIRED FOR A COMPLETE AND OPERATIONAL SYSTEM.
- 11. ALL EXTERIOR EQUIPMENT SHALL BE WEATHERPROOF.

CONDITIONS AND WORK TO BE PERFORMED.

- 12. ELECTRICAL CONTRACTOR SHALL PERFORM ALL WORK IN STRICT ACCORDANCE WITH ALL LOCAL, STATE, AND NATIONAL GOVERNING CODES.
- 13. ALL EQUIPMENT SHALL BE NEW AND BEAR A "UL" LABEL U.O.N.
- 14. ELECTRICAL CONTRACTOR SHALL SECURE AND PAY FOR ALL NECESSARY BUILDING PERMITS.
- 15. COMPLETE ELECTRICAL INSTALLATION SHALL BE GUARANTEED IN WRITING FOR A PERIOD OF (1) YEAR — UON.
- 16. ELECTRICAL CONTRACTOR SHALL INCLUDE IN BID COSTS FOR ALL HVAC CONTROL COMPONENTS, CONDUITS, DEVICES, ETC... AS DEEMED NECESSARY FOR A COMPLETE AND
- OPERATIONAL HVAC SYSTEM. REFER TO MECHANICAL DRAWINGS, DIAGRAMS AND SPECS FOR THOSE ITEMS REQUIRED UNDER THE ELECTRICAL SECTION OF THIS CONTRACT.
- 17. ELECTRICAL CONTRACTOR SHALL VISIT SITE PRIOR TO BID DATE, TO VERIFY ALL EXISTING CONDITIONS TO BE ENCOUNTERED IN THE INSTALLATION OF ALL NEW EQUIPMENT, FIXTURES, DEVICES, FEEDERS, ETC., EXACT INSTALLATION METHOD AND REQUIREMENTS SHALL BE VERIFIED AND DETERMINED PRIOR TO BID DATE. CONTRACTORS SHALL IMMEDIATELY NOTIFY THIS ENGINEER OF ANY REQUIRED MODIFICATIONS WHICH ARE NOT SHOWN ON THESE DRAWINGS. SUBMITTAL OF BID INDICATES CONTRACTOR IS AWARE OF ALL JOB SITE
- 18. ALL ELECTRICAL EQUIPMENT CHARACTERISTICS, LOCATIONS, AND CONNECTION REQUIREMENTS SHALL BE VERIFIED PRIOR TO ANY ROUGH-IN WORK.
- 19. ELECTRICAL CONTRACTOR SHALL FURNISH THE FOLLOWING SHOP DRAWINGS FOR PRIOR a. ALL SUBSTITUTED LIGHT FIXTURES.
- b. ALL ELECTRICAL SERVICE EQUIPMENT, DISTRIBUTION EQUIPMENT AND PANELBOARDS. c. OTHER ITEMS AS SPECIFICALLY INDICATED.
- THESE ITEMS SHALL BE APPROVED BY THIS OFFICE PRIOR TO ANY COMMENCEMENT OF PLACING ORDERS OR PERFORMING ANY ROUGH-IN WORK.
- 20. COMPLETE ELECTRICAL SYSTEM SHALL BE GROUNDED IN ACCORDANCE WITH THE PRESENTLY ADOPTED EDITION OF THE CEC ARTICLE 250.
- 21. PENETRATIONS OF ALL FIRE RATED WALLS OR CEILINGS SHALL BE FIRE RATED IN ACCORDANCE WITH ALL LOCAL, STATE, AND NATIONAL CODES.
- 22. PROVIDE ENGRAVED PLASTIC NAMEPLATES FOR ALL MAJOR ELECTRICAL EQUIPMENT.
- 23. PROVIDE THE OWNER AND THIS ENGINEER WITH ONE SET OF ELECTRICAL "AS-BUILTS" AT
- THE COMPLETION OF JOB.
- 24. ALL DISCONNECT SWITCHES TO BE PROVIDED WITH REJECTION TYPE FUSE HOLDERS.
- 25. ELECTRICAL CONTRACTOR SHALL INCLUDE IN BASE BID AND CONTRACT THE INSTALLATION AND COMMISSIONING OF ALL LIGHTING CONTROLS INCLUDING BUT NOT LIMITED TO OCCUPANCY SENSORS, TIMERS, DIMMING CONTROLS, AND DAY-LIT ZONE CONTROLS AND IS REQUIRED TO VERIFY THAT THE LIGHTING CONTROLS ARE ADJUSTED, PROGRAMMED AND FUNCTIONING IN ACCORDANCE WITH THE DESIGN AND MANUFACTURE'S INSTALLATION INSTRUCTIONS. THE CONTRACTOR IS ALSO RESPONSIBLE FOR SUBMITTING DOCUMENTATION (INSTALLATION FORMS [NRCI]) CERTIFYING THAT THE LIGHTING SYSTEMS ARE IN COMPLIANCE WITH OR EXCEED THE PERFORMANCE REQUIREMENTS. FOR PROJECTS 10,000 SQFT OR OVER, CONTRACTOR SHALL ALSO FURNISH CEC T24 REQUIRED FUNCTIONAL PERFORMANCE TESTING BY A CERTIFIED LIGHTING CONTROLS TEST TECHNICIAN (CALCATT) AND SUBMIT DOCUMENTATION (ACCEPTANCE FORMS [NRCA]) AS REQUIRED.
- 26. PROVIDE GREEN EQUIPMENT GROUNDING CONDUCTOR IN ALL FEEDER AND BRANCH CIRCUIT CONDUITS SIZED PER CEC 250.122.
- 27. ALL ELECTRICAL WORK SHALL BE DESIGNED PER 2023 LOS ANGELES COUNTY ELECTRICAL CODE, 2022 CALIFORNIA ELECTRICAL CODE, 2020 NATIONAL ELECTRICAL CODE, AND 2022 BUILDING ENERGY EFFICIENCY STANDARDS.
- 28. ALL ELECTRICAL EQUIPMENT SHALL BE LABELED, LISTED, OR CERTIFIED BY A NATIONALLY RECOGNIZED TESTING LABORATORY ACCREDITED BY THE UNITED STATES OCCUPATIONAL SAFETY HEALTH ADMINISTRATION.

SHEET INDEX

ELECTRICAL COVER SHEET, GENERAL NOTES, SYMBOL DEFINITIONS

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MECHANICAL AND PLUMBING EQUIPMENT ELECTRICAL CONNECTION SCHEDULE

LIGHTING FIXTURE SCHEDULE

LIGHTING CONTROL DETAILS

E0.76 LIGHTING CONTROL DETAILS

E0.91 ELECTRICAL DETAILS BASEMENT ELECTRICAL PLAN

OVERALL FIRST FLOOR ELECTRICAL PLAN

FIRST FLOOR ELECTRICAL PLAN - SEGMENT A FIRST FLOOR ELECTRICAL PLAN - SEGMENT B

FIRST FLOOR ELECTRICAL PLAN - SEGMENT C FIRST FLOOR ELECTRICAL PLAN - SEGMENT D

E2.02 OVERALL SECOND FLOOR ELECTRICAL PLAN

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E2.02C SECOND FLOOR ELECTRICAL PLAN - SEGMENT C

SECOND FLOOR ELECTRICAL PLAN - SEGMENT D THIRD FLOOR ELECTRICAL PLAN

FIRST FLOOR LIGHTING PLAN

FIRST FLOOR LIGHTING PLAN - SEGMENT A

FIRST FLOOR LIGHTING PLAN - SEGMENT B FIRST FLOOR LIGHTING PLAN - SEGMENT C FIRST FLOOR LIGHTING PLAN - SEGMENT D

SECOND FLOOR LIGHTING PLAN

SECOND FLOOR LIGHTING PLAN - SEGMENT A SECOND FLOOR LIGHTING PLAN - SEGMENT B SECOND FLOOR LIGHTING PLAN - SEGMENT C

SECOND FLOOR LIGHTING PLAN - SEGMENT D TITLE 24 COMPLIANCE FORMS

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BASEMENT

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KEY NOTES

- PROVIDE DUALITE 5.5KVA LSN D SERIES INVERTER MODEL
 #D-277-55-10-277-__-C-30-01 OR EQUAL TO FEED NEW EMERGENCY LIGHTING PANEL
- [2] REMOVE LIGHTING CONTACTOR CONTROL FROM SPLIT BUS PANEL. PROVIDE JUMPER CABLE CONNECTION BETWEEN SPLIT BUS SECTIONS. LIGHTING CONTACTOR TO BE REMOVED FROM
- 3) TRANSFORMER SUPPLY—SIDE BONDING JUMPER. PROVIDE GROUND CONNECTION AS INDICATED TO GROUND BUS.
- REPLACE EXISTING PANEL WITH NEW PANEL LIKE FOR LIKE WITH SAME SIZE AND QUANTITY OF BREAKERS AND BUSSING. .

ADDITIONAL SCOPE

- 1. DURING CONSTRUCTION, DE-ENERGIZE AND TORQUE ALL EXISTING TO REMAIN BRANCH CIRCUIT BREAKERS AND FEEDER BREAKERS FOR ALL EXISTING PANELS.
- 2. INCLUDE A COORDINATION STUDY AND ARC FLASH ANALYSIS ON ALL NEW ELECTRICAL COMPONENTS AND INCLUDE AS AN ALTERNATE TO INCLUDE ALL EXISTING ELECTRICAL

GENERAL NOTES

- 1. ALL SWITCHGEAR, PANELBOARDS, ETC. ARE TO BE UL LISTED FOR THEIR LOCATION AND INTENDED USE. ALL EQUIPMENT SHALL BE BRACED FOR FAULT CURRENT RATINGS ASSOCIATED WITH THEIR VOLTAGE AND LOCATION WITHIN THE SYSTEM.
- 2. ALL EQUIPMENT, FEEDERS, CIRCUITS, SERVICES, ETC. SHALL BE GROUNDED PER CEC
- 3. ALL FEEDERS ARE BASED ON COPPER CONDUCTORS AND SHALL CARRY A SEPARATE
- GROUNDING CONDUCTOR. 4. ALL SWITCHES OR CIRCUIT BREAKERS ARE THREE POLE UNLESS OTHERWISE NOTED.
- 5. ALL SWITCHBOARDS SHALL BE OF SWITCHBOARD CONSTRUCTION WITH TIN PLATED COPPER BUSSING AND ALL SECTIONS SHALL ALIGN IN FRONT. MAIN SWITCHBOARDS SHALL CONTAIN CUSTOMER METERING FOR VOLTAGE, AMPACITY, DEMAND AND PEAK DEMAND PER PHASE.
- 6. ALL MAIN SWITCHBOARDS SHALL HAVE FACTORY INSTALLED TRANSIENT VOLTAGE SURGE PROTECTION. COORDINATE WITH LOCAL UTILITY COMPANY.
- 7. ALL DISTRIBUTION BOARDS SHALL BE OF SWITCHBOARD CONSTRUCTION WITH TIN PLATED COPPER BUSSING AND ALL SECTIONS SHALL ALIGN IN FRONT.
- 8. ALL DISTRIBUTION PANELBOARDS SHALL BE OF QMR/CCB CONSTRUCTION WITH TIN PLATED COPPER BUSSING WITH A DEPTH OF LESS THAN 14" AND ALL SECTIONS SHALL
- 9. ALL PANELBOARDS SHALL BE OF PANELBOARD CONSTRUCTION WITH TIN PLATED COPPER BUSSING, BOLT-IN BREAKERS, FACTORY INSTALLED MAINS, DEAD FRONT COVERS WITH LOCKABLE DOOR, AND PANEL DIRECTORY PER PANEL SCHEDULE WHICH IS PART OF
- THESE CONSTRUCTION DOCUMENTS. 10. ALL PANELBOARDS INSTALLED IN GARAGES OR AREAS COMPLYING WITH ARTICLE 500, 511, AND/OR 514 SHALL BE INSTALLED 18" ABOVE FLOOR LINE TO BOTTOM OF PANEL AND SHALL BE IN MULTIPLE PANELS AS REQUIRED WITH TOP MOST BREAKER NO HIGHER
- THAN 6'-7'' AFF PER CEC 240.24(A). 11. ALL ELECTRICAL EQUIPMENT (i.e. SWITCHBOARDS, PANELBOARDS, DISCONNECTS, STARTERS, ETC.) SHALL HAVE A NAMEPLATE. THE NAMEPLATE SHALL BE PHENOLIC WITH ENGRAVED WHITE LETTERS AND SHALL PROVIDE THE FOLLOWING INFORMATION:
 - LINE 1 "EQUIPMENT NAME" LINE 2 - "FED FROM .

DISTRIBUTION COMPONENTS.

- LINE 3 "VOLTAGE, AMPACITY, PHASE" LINE 4 - "DATE INSTALLED"
- NAMEPLATES SHALL BE SIZED BASED ON THE FOLLOWING:
- SWITCHBOARDS, DISTRIBUTION BOARDS, TRANSFORMERS: * LINE 1 = 1/2" LETTERS, LINES 2, 3, & 4 = 1/4" LETTERS
- PANELBOARDS, MOTOR CONTROL CENTERS, DISCONNECTS, STARTERS, ETC: * LINE 1 = 3/8" LETTERS, LINES 2, 3, & 4 = 1/4" LETTERS

NAMEPLATE COLORS SHALL BE AS FOLLOWS:

BLACK = NORMAL POWERRED = LIFE SAFETY/EMERGENCY POWER BLUE = STANDBY POWER GREEN = INVERTOR POWER

ALL NAMEPLATES SHALL BE FASTENED WITH A MINIMUM OF TWO (2) SCREWS. NO SELF ADHESIVE NAMEPLATES ARE ALLOWED.

- 12. ALL CONDUCTORS HAVE BEEN REVIEWED FOR VOLTAGE DROP. CONTRACTOR IS TO NOTIFY ENGINEER IF FIELD CONDITIONS SUBSTANTIALLY INCREASE CONDUCTOR LENGTH.
- 13. ALL FLOOR-STANDING EQUIPMENT LOCATED AT GRADE OR BELOW SHALL HAVE A MINIMUM 4" HIGH HOUSEKEEPING PAD INSTALLED UNDER THEM. PAD SHALL EXTEND 4" BEYOND EQUIPMENT FOOTPRINT IN ALL DIRECTIONS. THE INSTALLATION OF A PAD SHALL ALSO APPLY TO EQUIPMENT THAT MIGHT BE SUSCEPTIBLE TO WATER DAMAGE THAT IS LOCATED IN AREAS OTHER THAN AT GRADE.
- 14. PROVIDE PROTECTIVE RELAYS FOR PHASE FAILURE AND UNDERVOLTAGE FOR ALL MOTOR-RELATED CIRCUITS.
- 15. PROVIDE ALL ASSOCIATED COSTS FOR THIRD PARTY TESTING FOR ALL EQUIPMENT, CONDUCTORS, GROUND FAULT, ETC.
- 16. ALL NEW TRANSFORMERS SHALL BE OF ALUMINUM CORE WINDINGS WITH 115°C TEMPERATURE RISE.
- 17. ALL NEW TRANSFORMERS SHALL HAVE A MINIMUM 155°C INSULATION CLASS.
- 18. ALL SERVICE EQUIPMENT IN OTHER THAN DWELLING UNITS SHALL BE LABELED WITH THE MAXIMUM AVAILABLE FAULT CURRENT IN COMPLIANCE WITH CEC 110.24.
- 19. ALL ELECTRICAL EQUIPMENT, THAT ARE IN OTHER THAN DWELLING UNITS, AND ARE LIKELY TO REQUIRE EXAMINATION, ADJUSTMENT, SERVICING OR MAINTENANCE WHILE ENERGIZED, SHALL BE LABELED OF POTENTIAL ELECTRIC ARC FLASH HAZARDS IN COMPLIANCE WITH CEC 110.16.
- 20. EMERGENCY SYSTEMS AND LEGALLY REQUIRED STANDBY SYSTEMS OVERCURRENT DEVICES SHALL BE SELECTIVELY COORDINATED WITH ALL SUPPLY—SIDE OVERCURRENT PROTECTIVE DEVICES IN COMPLIANCE WITH CEC 700.28 AND 701.27. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING AND PROVIDING THE SELECTIVE COORDINATION STUDY FROM THE APPROVED ELECTRICAL EQUIPMENT MANUFACTURER AND SUBMIT TO THE ELECTRICAL
- 21. PROVIDE FACTORY INSTALLED TRANSIENT VOLTAGE SURGE PROTECTION DEVICE(S) (SPD) IN ALL EMERGENCY SYSTEMS SWITCHBOARDS AND PANELBOARDS PER CEC 700.8. TYPE SHALL BE PER MANUFACTURER RECOMMENDATIONS AND INDUSTRY STANDARDS. ANY AND ALL EQUIPMENT PROVIDED WITH SPD(S) SHALL INCLUDE REQUIRED CIRCUIT BREAKER(S) (SHOWN OR NOT SHOWN) AND PHYSICAL SPACE PROVISIONS TO SERVE THE PROVIDED SPD(S).
- 22. FOR ALL FEEDER BREAKERS RATED 1200A AND ABOVE, PROVIDE CIRCUIT BREAKER WITH ARC-ENERGY-REDUCING MAINTENANCE SWITCH IN COMPLIANCE WITH NEC 240.87 (A) AND (B). PROVIDE DOCUMENTATION AND LABELING FOR THIS DEVICE IN ACCORDANCÉ WITH THIS CODE SECTION.

BASEMENT

23. THE MAXIMUM COMBINED VOLTAGE DROP ON BOTH INSTALLED FEEDER CONDUCTORS AND BRANCH CIRCUIT CONDUCTORS TO THE FARTHEST CONNECTED LOAD OR OUTLET SHALL NOT EXCEED 5 PERCENT.

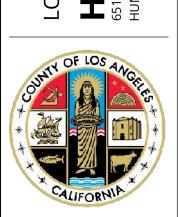
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NAC NO 161-23025 DRAWN Author CHECKED Checker

DATE 07/15/2025

SINGLE LINE

DIAGRAM

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			700	/ 211	I I M	OL IC		2 11 11 14	OL, T	r.II N.L.			·				140		
LOCATION: 1ST FLOOR CORRIDOR													latera e	eeder OCPD:	125A	Fed From:	MS		4
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PANEL CALCULATION						Ø	AN				ØBN			ØCN		Ø A + 2	B+ØC		
	CON	INECT	ED LOAD:			21,	720	VA			19,722	VA		14,387	VA	55,829	VA		1
CONNECTED LOAD	The state of the s	CONN	NECTED BA	LANCE	ED L	INEC	URF	RENT	= 67.2 A					HIGH	LINE CURR	ENT (ØA) = 78.4	A		
	1		@ 125%:				025		The control of the co		1,628	VA		409		7,081			1
	TA TELEPOOR TO THE PARTY OF THE		@ 125%:					VA			in the second second	V.A.			VA	.,,	VA		
	CONNECTED RECE							VA			-	VA			VA	-	VA		4
	FIRST 10,0							VA				VA			VA		VA		
			R @ 50%:					VA			w	VA			VA	-	VA		
DEMAND LOAD	CONNECTED KITC							VA			-	VA			VA		VA		1
DEIMAND BOAD	KITC, LOAD @ DE		-					VA			#	WA		<u> </u>	VA		VA		
	OTHER NON LCL					17.	700				18,420			14,060		50,180	(2.14.5)		1
	LARGEST		The state of the s									VA			VA	-	VA		
		et all the a grant beautiful	ND LOAD:			2.6047.00	725				20,048	VA		14,469		57,241			1
			MAND BAL	ANCED	LIMI	100000000000000000000000000000000000000		The same	68 9 A							RRENT (ØA) = 82			
		ULI	IIAITU DAL	HITCLD	LINE	_ 00	TAIVE		00.0 A					TIIG	II LINE COL	TALITI (DA) - 02	- M		L

	MOUNTING: FLUSH					EX	STING	P	ANE	L	D						BUS:	200A				
A	I.C. RATING:					480	/ 277	1	/OLT	S, 3	PHA	SE, 4	WIRE				MAIN:	MLO				
	LOCATION: 3RD FLOOR CORRIDOR															F	eeder OCPD:	175A	F	ed From:		MS
c)		,	/olt-Am	05			Ckt	Ckt		Ckt	Ckt			٧	olt-Amp)S				car		
5	DESCRIPTION	ØAN	ØBN	ØCN	Ltg	Miso	Ck t Brkr	No	4 B C	No	Brkr	Misc	Ltg	ØAN	ØBN	ØCN	ů.	Di	ESCRIPTI	ON		
2	2ND FLR ADULT STACKS LIGHTING	1254			Х		20/1	13	Н	14	20/1		X	828			2 ND FLR STA	FFWORK	AREA LIGH	HTING		
2	2ND FLR ADULT SEATING A REALIGHTING	8888	908		X		20/1	15	+	16			X		462		2 ND FLR STU	IDY ROOM:	S, RESTRO	DOMS, & C	ORRIDO	RLTS
X	2ND FLR INFO DESK & A DULTS			1818	Х		20/1	17 -	 	18			Х			1588	2 ND FLRAIR	CRESEAR	CHAREA L	JGHT S		
X	2ND FLR READING ROOM LIGHTS	1502			Х		20/1	19 -	•	20	20/1	2					SPARE					
X	SPARE						20/1	21	+	- 22	20/1						SPARE					
X	SPARE						20/1	23 -	∐ 	- 24							SPARE					
X	SPARE							25 -			20/1						SPARE					
X	SPARE		1				20/1	27 -	+	- 28	20/1						SPARE					
X	SPARE						20/1	29 -	│ 	30	20/1						SPARE					
0.10	SPARE	I	Processing (Control of Control of	diamental.	1		20/	1 -	• 	- 4	20/1		- 1	4000		100000000000000000000000000000000000000	REGIONAL W	VUKK AKEA	ALIGHIIN	10		
	SPARE				1		201		•	- 4	2W1			4000		li de la companya de	REGIONAL VI	VURK AREA	ALIGHTIN	16		
1000		0000000					20/	3			20/1				4000		REGIONAL W	VORK AREA	ALIGHTIN	IG		
X	SPARE	0000000		:			20/	3 -	+	- 4	20/1				4000		REGIONAL W	VORK AREA	A LIGHTIN	IG		
X	SPARE SPARE			:			20/	3 5 7		- 4	20/1				4000		COOR.		A LIGHTIN	IG		
X X E	SPARE SPARE 3RD FLR OFFICE LIGHITING	2400	2400				20/	5 -		6 8	20/1 20/1			2400		900	GOOR. 3 RD FLR LIG	HTING	A LIGHTIN	IG		
((SPARE SPARE 3RD FLR OFFICE LIGHITING 3RD FLR OFFICE LIGHITING		2400				20/ 20/ 20/	June 1		- 4 - 6 - 8 - 10	20/1 20/1 20/1				2400	900	COOR. 3RD FLR LIG 3RD FLR LIG	HTING HTING)	
X E E	SPARE SPARE 3RD FLR OFFICE LIGHITING		2400	3800			20/	5 -	+	- 4 - 6 - 8 - 10	20/1 20/1 20/1 20/1				2400	900	GOOR. 3 RD FLR LIG	SHTING SHTING MALLY LIG	HTING CO		Service Control	c
X E	SPARE SPARE 3RD FLR OFFICE LIGHITING 3RD FLR OFFICE LIGHITING EXISTING LOAD PANEL CALCULATION		2400	3600	NNEC ¹	TED LOAD	20/ 20/ 20/ 20/	5 -	•	4 6 8 10 12	20/1 20/1 20/1 20/1			2400	2400	900	COOR. 3RD FLR LIG 3RD FLR LIG SPARE (FOR	SHTING SHTING MALLY LIG	HTING CO	NTACTOR	B +Ø(c
X E	SPARE SPARE 3RD FLR OFFICE LIGHITING 3RD FLR OFFICE LIGHITING EXISTING LOAD		2400	3600		TED LOAD	20/ 20/ 20/ 20/	5 7 9	12	4 6 8 10 12 2 AN	20/1 20/1 20/1 20/1 VA	= 36.6 A		2400 Ø BN	2400	900	COOR. 3RD FLR LIG 3RD FLR LIG SPARE (FOR Ø CN 7,908	SHTING SHTING MALLY LIG	HTING CO	NTACTOR Ø A + Ø 30,460	B +Ø(C
X E E	SPARE SPARE 3RD FLR OFFICE LIGHITING 3RD FLR OFFICE LIGHITING EXISTING LOAD PANEL CALCULATION			3800 CON	CON		20/ 20/ 20/ 20/ 20/	5 7 9	12 INE	4 6 8 10 12 2 AN	20/1 20/1 20/1 20/1 VA	= 36.6 A		2400 Ø BN	2400 VA	900	COOR. 3RD FLR LIG 3RD FLR LIG SPARE (FOR Ø CN 7,908	HTING HTING MALLY LIG VA LINE CUR	HTING CO	NTACTOR Ø A + Ø 30,460	B+Ø(VA A	C
X E E	SPARE SPARE 3RD FLR OFFICE LIGHITING 3RD FLR OFFICE LIGHITING EXISTING LOAD PANEL CALCULATION			3800 CON	CON	NECTED B	20/ 20/ 20/ 20/ 20/	5 7 9	12 INE 4	4 6 8 10 12 2 AN 384 CURF	20/1 20/1 20/1 20/1 VA RENT	= 36.6 A		2400 Ø BN 10,170	2400 VA VA	900	COOR. 3RD FLR LIG 3RD FLR LIG SPARE (FOR) Ø CN 7,906 HIGH 4,258	SHTING SHTING MALLY LIG VA LINE CUR	HTING CO	NTACTOR Ø A + Ø 30,460 A) = 44.7 10,449	B+Ø(VA A	С
X E E	SPARE SPARE 3RD FLR OFFICE LIGHITING 3RD FLR OFFICE LIGHITING EXISTING LOAD PANEL CALCULATION	2400	L	3600 CON IGHTING	CON LOAI ER LC	NECTED B	20/ 20/ 20/ 20/ 20/	5 7 9	12 INE 4	4 6 8 10 12 2 AN 384 CURF	20/1 20/1 20/1 20/1 VA RENT VA	= 36.6 A		2400 Ø BN 10,170 1,712	2400 VA VA	900	COOR. 3RD FLR LIG 3RD FLR LIG SPARE (FOR) Ø CN 7,908 HIGH 4,258	HTING HTING MALLY LIG VA LINE CUR	HTING CO	NTACTOR Ø A + Ø 30,460 A) = 44.7 10,449	B + Ø (VA A VA	C
X E E	SPARE SPARE 3RD FLR OFFICE LIGHITING 3RD FLR OFFICE LIGHITING EXISTING LOAD PANEL CALCULATION	2400	L	3800 CON IGHTING OTHE	CON ER LC EPTAC	NECTED B D @ 125% L @ 125%	20/ 20/ 20/ 20/ 20/	5 7 9	12 INE 4	4 6 8 10 12 2 AN 384 CURF 480	20/1 20/1 20/1 20/1 VA RENT VA	= 36.6 A		Ø BN 10,170 1,712	2400 VA VA VA	900	COOR. 3RD FLR LIG 3RD FLR LIG SPARE (FOR) Ø CN 7,908 HIGH 4,258	SHTING SHTING MALLY LIG VA LINE CUR VA VA	HTING CO	NTACTOR Ø A + Ø 30,460 A) = 44.7 10,449	B + Ø (VA A VA VA	C
X E	SPARE SPARE 3RD FLR OFFICE LIGHITING 3RD FLR OFFICE LIGHITING EXISTING LOAD PANEL CALCULATION	2400	L	GON IGHTING OTHE D RECI	CON LOAI ER LC EPTAC	NECTED B D @ 125% L @ 125% CLE LOAD A @ 100%	20/ 20/ 20/ 20/ 20/	5 7 9	12 INE 4	4 6 8 10 12 Ø AN 384 CURF	20/1 20/1 20/1 20/1 VA RENT VA VA	= 36.6 A		Ø BN 10,170 1,712	Z400 VA VA VA VA	900	COOR. 3RD FLR LIG 3RD FLR LIG SPARE (FOR) Ø CN 7,908 HIGH 4,258	VA LINE CUR VA VA	HTING CO	NTACTOR Ø A + Ø 30,460 A) = 44.7 10,449	VA A VA VA VA	C
X E E	SPARE SPARE 3RD FLR OFFICE LIGHITING 3RD FLR OFFICE LIGHITING EXISTING LOAD PANEL CALCULATION CONNECTED LOAD	2400 CO	L NNECTE FI	3800 CON IGHTING OTHE ED RECI RST 10,0 REM	CON ER LC EPTAC 000 V	NECTED B D @ 125% L @ 125% CLE LOAD A @ 100% ER @ 50%	20/ 20/ 20/ 20/ 20/	5 7 9	12 INE 4	4 6 8 10 12 Ø AN 384 CURF	20/1 20/1 20/1 20/1 VA RENT VA VA VA VA VA	= 36.6 A		Ø BN 10,170 1,712	VA VA VA VA VA	900	COOR. 3RD FLR LIG 3RD FLR LIG SPARE (FORI 7,906 HIGH 4,258	VA LINE CUR VA VA VA VA VA	HTING CO	MTACTOR Ø A + Ø 30,460 (A) = 44.7 10,449	B + Ø (VA A VA VA VA VA VA VA VA VA	C
X E E	SPARE SPARE 3RD FLR OFFICE LIGHITING 3RD FLR OFFICE LIGHITING EXISTING LOAD PANEL CALCULATION	2400 CO	L NNECTE FI	3600 CON IGHTING OTHE ED RECI RST 10,0 REM ED KITC	CONI ER LCI EPTAC 000 V/ IAINDE	NECTED B D @ 125% L @ 125% CLE LOAD A @ 100%	20/ 20/ 20/ 20/ 20/	5 7 9	12 INE 4	4 6 8 10 12 Ø AN 384 CURF	20/1 20/1 20/1 20/1 VA RENT VA VA VA VA VA	= 36.6 A		Ø BN 10,170 1,712	VA VA VA VA VA VA VA VA	900	COOR. 3RD FLR LIG 3RD FLR LIG SPARE (FORI 7,906 HIGH 4,258	VA LINE CUR VA	HTING CO	NTACTOR Ø A + Ø 30,460 (A) = 44.7 10,449	VA A VA VA VA VA VA	С
X E E	SPARE SPARE 3RD FLR OFFICE LIGHITING 3RD FLR OFFICE LIGHITING EXISTING LOAD PANEL CALCULATION CONNECTED LOAD	2400 CO KI	L NNECTE FI DNNECT	3600 CON IGHTING OTHE ED RECI RST 10,0 REM TED KITO	CONI ER LCI EPTAC 000 V/ IAINDE C. LOA	NECTED B D @ 125% L @ 125% CLE LOAD A @ 100% ER @ 50% AD @ Q'TY	20/ 20/ 20/ 20/ 20/	5 7 9	12 INE 4	4 6 8 10 12 Ø AN 384 CURF	20/1 20/1 20/1 20/1 VA VA VA VA VA VA VA VA	= 36.6 A		Ø BN 10,170 1,712	VA	900	COOR. 3RD FLR LIG 3RD FLR LIG SPARE (FORI 7,906 HIGH 4,258	VA LINE CUR VA	HTING CO	MTACTOR Ø A + Ø 30,460 (A) = 44.7 10,449	B + Ø O VA VA VA VA VA VA VA VA VA V	C
X E E	SPARE SPARE 3RD FLR OFFICE LIGHITING 3RD FLR OFFICE LIGHITING EXISTING LOAD PANEL CALCULATION CONNECTED LOAD	2400 CO KI	L NNECTE FI ONNECT TC. LOA OTHER N	GHTING OTHE D RECI REM ED KITC D @ DE	CONI B LOAI ER LC EPTAC 000 VA IAINDE C. LOAI EMANE LOAI	NECTED B D @ 125% L @ 125% CLE LOAD A @ 100% ER @ 50% AD @ Q'TY D FACTOR	20/ 20/ 20/ 20/ 20/	5 7 9	12 INE 4	4 6 8 10 12 AN 384 CURF 480	20/1 20/1 20/1 20/1 VA VA VA VA VA VA VA VA VA VA	= 36.6 A		2400 Ø BN 10,170 1,712	VA V	900	COOR. 3RD FLR LIG 3RD FLR LIG SPARE (FOR) Ø CN 7,908 HIGH 4,258	VA LINE CUR VA	HTING CO	NTACTOR Ø A + Ø 30,460 (A) = 44.7 10,449	B + Ø O VA A VA VA VA VA VA VA VA VA	C
X E E	SPARE SPARE 3RD FLR OFFICE LIGHITING 3RD FLR OFFICE LIGHITING EXISTING LOAD PANEL CALCULATION CONNECTED LOAD	2400 CO KI	L NNECTE FI ONNECT TC. LOA OTHER N	GHTING OTHE ED RECI RST 10,0 REM TED KITO D @ DE NON LCL RGEST	CONI B LOAI ER LC EPTAG 000 V/ IAINDE C. LOAI MOTO MOTO	NECTED B D @ 125% L @ 125% CLE LOAD A @ 100% ER @ 50% AD @ Q'TY D FACTOR D @ 100%	20/ 20/ 20/ 20/ ALANG	5 7 9	12 INE 4	4 6 8 10 12 AN 384 CURF 480	20/1 20/1 20/1 20/1 VA VA VA VA VA VA VA VA VA VA VA VA VA	= 36.6 A		Ø BN 10,170 1,712	VA V	900	COOR. 3RD FLR LIG 3RD FLR LIG SPARE (FOR) Ø CN 7,908 HIGH 4,258 4,500	VA LINE CUR VA	HTING CO	NTACTOR Ø A + Ø 30,460 A) = 44.7 10,449 - - - - - - - - - - - - -	B + Ø C VA VA VA VA VA VA VA VA VA V	C

A.I.C. RATING: 10,000 AMPS		208	/120 V	OLTS, 3 PHASE, 4	WIRE	MAIN: MLO		
LOCATION: 3RD FLOOR CORRIDOR		FEE	DER SHARI	ED WITH PANEL G		Feeder OCPD: 100A	Fed From: DPB	3
변 DESCRIPTION	Volt-Amps	D 14:	Ckt Ckt	Ckt Ckt	Volt-Amps	DEC	SCRIPTION	ņ
DESCRIPTION	ØAN ØBN ØCN LIG	Rec Mis o	Brkr No A	BC Ckt Ckt Misc Re	ØAN ØBN ØC	N DE:	SURIF HON	TON
SPARE	333333 333333		20/1 1	2 20/1		SPARE		
SPARE	**************************************		20/1 3	4 20/1		SPARE		
SPARE			20/1 5	6 20/1		SPARE		
SPARE	3333333 3333333		20/1 7 +	8 20/1		SPARE		
SPARE	30000000		20/1 9	10 20/1		SPARE		
SPARE			20/1 11	12 20/1		SPARE		
SPARE			20/1 13 -	14 20/1		SPARE		
SPARE			20/1 15	16 20/1		SPARE		
SPARE			20/1 17	18 20/1	192			E
SPARE				20 20/1	1920	EXISTING LOAD		E
E EXISTING LOAD	1920			22 20/1	1920	EXISTING LOAD		E
E EXISTING LOAD	1920			24 20/1	192	0 EXISTING LOAD		E
						FEEDER SHARED WITH	PANEL G	
PANEL CALCULATION		11.31	0.11	ØAN	Ø BN	Ø CN	ØA+ØB+ØC	
COMMENTED LOAD	CONNEC	TED LOAD:		1,920 VA	3,840 VA	5,760 VA	11,520 VA	
CONNECTED LOAD	co	NNECTED E	BALANCED L	LINE CURRENT = 32 A		HIGH LINE CUR	RRENT (ØC) = 48 A	
	LIGHTING LOA	D @ 125%:		- VA	- VA	- VA	- VA	
		CL @ 125%:		- VA	- VA	- VA	- VA	
	CONNECTED RECEPTA			- VA	- VA	- VA	- VA	
	FIRST 10,000 \	A @ 100%:		- VA	- VA	- VA	- VA	
		ER @ 50%:		- VA	- VA	- VA	- VA	
DEMAND LOAD	CONNECTED KITC. LO	AD @ Q'TY:		- VA	- VA	- VA	- VA	
	KITC, LOAD @ DEMAN	D FACTOR:		- VA	- \ A	- VA	- VA	
	OTHER NON LCL LOA			- VA	- VA	- VA	- VA	
	LARGEST MOT	OR @ 25%:		- VA	- VA	- VA	- VA	
	DEM	AND LOAD:		1,920 VA	3,840 VA	5,760 VA	11,520 VA	

	MOUNTING: FLUSH							NEW		PANE									BUS: 400A			
- 12																						
Α	I.C. RATING: 10,000 AMPS (minimum)						208	/ 120		VOLT	S,	3 PH	ASE,	4 W	IRE				MAIN: MLO			
	LOCATION: 2ND FLOOR CORRIDOR																		Feeder OCPD: 400A Fe	ed From:	L	
1275		1	Volt-Amp	ns		Ĭ	Ī.	Ck+	Ckt		Ckt	Ckt	Ĭ			1	Volt-Am	ins	The second secon			1 20
NOTE	DESCRIPTION	1	CAMBO SESTING CASH-12-18		Ltg	Rec	Misc	Brkr		$\Delta \rightarrow 1$		Brkr	Misc	Rec	Ltg				DESCRIPTION	DN		OTE
$\overline{}$		ØAN	ØBN	ØCN					140		10.75	5				ØAN	10 BN	ØC				2
	CHILDREN'S STACKS 102A	1000	*********			4	1	20/1	1		-			5		900	2000000		AIRC GROUP STUDY RM 203			
	CHILDREN'S STACKS 102A& PLAY 102B	10000000	10.00			4	1	20/1	3	│ ॏ │	4	20/1	1	4			1140		AIRC OFFICE RM 202			_
	BOOK DETECTION GATE	3000000		400				20/1	5		- 6	20/1	1	2	()			780				
$\overline{}$	TECH 102C	1260			:	_		20/1	7	+	- 8		ļ	6		1080			AIRC RESEARCH TABLES			
	TECH 102C	2333333	840					20/1	9	 † 		20/1		3			540		AIRC/SOFT SEATING			_
32	TECH 102C	0000000		840		at	5)	20/1	11	 		20/1		5	· /			900				_
$\overline{}$	STAFF AREA 108 - WORKSTATIONS	840			1		ļ	20/1	13	+		20/1		4		720			READING ROOM 200 D			
	STAFF AREA 108 - WORKSTATIONS		840					20/1	15	++		20/1		4			720		READING ROOM 200 D			
	STAFF AREA 108 - WORKSTATIONS			840				20/1	17	 		20/1							SPARE			
$\overline{}$	STAFF AREA 108	840			:	3	1	20/1		-		20/1				1260			TECH 200C LEFT TABLE			
_	STAFF AREA 108		1080			6	2	20/1				20/1					1260		TECH 200 CLEFT TABLE			
10	STAFF AREA 108			900		5		2	23			20/1						126				
	STAFF CORRIDOR & STORAGE	720				4		20/1	25	•		20/1				1260			TECH 200C RIGHT TABLE			
	TEEN LIBRARIAN 106		600			1	1	20/1	27	+	28	20/1					1260	200000	TECH 200 C RIGHT TABLE			
	STAFF LOUNGE 121 - GARBAGE DISPOSAL	3333333		1176				20/1	29	 		20/1						1260	TECH 200C RIGHT TABLE			
	STAFF LOUNGE 121 - FRIDGE	720			:			20/1	31	 	32	20/1		4		720			ADULT SEATING			\top
9	STAFF LOUNGE 121 - COUNTERT OP RECEPTS	900000000	360			2	9	20/1	33		34	20/1		4			720		ADULT SEATING			3.
1.	TEEN BOOKS			1260		7	1.	20/1	35		36	20/1		6				108	STUDY 1 RM 204			
	CIRCULATION DESK 100A	840			:				4.5		38	20/1		6		1080			STUDY2 RM 205			
9	CIRCULATION DESK 100A	133333333	840			- \$.	9	20/1				20/1		3		********	540		ADULT STACKS IPADS			-
-	CIRCULATION DESK 100A			840		*	*:	1-11/11	. 77.50		0.000	20/1						600	2ND FLOOR DRINKING FOUNTAIN	V		G
-	CLP 109	780			:	2	1	20/1	43			20/1				840			INFO DESK 200A	-		
-	TECH 1 101D COMPUTERS	222222	1200			1		20/1	45			20/1					1		SPARE			+
	TECH 1 101D COMPUTERS	1000000000		1200		*	1.	20/1	47		10.00	20/1		_			1	840				
	IST FLOOR DRINKING FOUNTAIN	600		1,200	:	+	4:	20/1				20/1			-	840			STAFF WORK AREA 210			-
	TEEN BOOK STACKS	555555555	380	1	:	2	Ė	20/1				76	1	5	- 7		900		STAFF WORK AREA 210			-
	VR GAMING 104			380		2	-		100		1 2 3			4	-		-	720				-
	VR GAMING 104	540			•	3	+	2071	55		5B	20/4	<u> </u>	3		540			TECHNOLOGY STAIR SEATING RE	CEPTACI	EC	+
10	RECORDING STUDIO 105	2000000	540	1	:	3		2071	57		50	20/1			(c	U-10	420		TECHNOLOGY STAIR SEATING PR		Lo	+
	RECORDING STUDIO 105	100000000000000000000000000000000000000	WTW.	380		2	9	2071	50		80	20/1					720	300		VIENTEIX		+-
	MAKER SPACE 103 RECEPTS	900		10000	•	5	-	2071	84		82	20/4	-	-	-	420		200	STAIR 1 SELF CHECKOUT			_
11	MAKER SPACE 103 RECEPTS	0000000	900			5	Si .	20/1							G //	720			SPARE			-
9	MAKER SPACE 103 RECEPTS	200000000	300	*		-	-	20/1						-			() (1000-000-000	0	SPARE			
	UNUSEABLE SPACE	00000000		: : ::::::::::::::::::::::::::::::::::		-	4	20/1	00							13380		ii Varanaa	SPANEL J1			
10		300000000				2	3		5		FTL	1 /	:::::	:::::	::::::	12200	# 75 # # F		WITHINEL JI			
	UNUSEABLE SPACE UNUSEABLE SPACE	(0.000000000000000000000000000000000000	:			- S.	9		9								13410		<u> </u>			
	O SECONO A PARTICIO CON ESCUENTE SERVICIO DE CONTROL DE	100000000	1	1						∐∤	100						<u> </u>	1054	CALLET STUDES		of the state of	
	PANEL CALCULATION				Large and the same					Q	ð AN	I .				ØBN			Ø CN	ØA+ØB	+ Ø C	
	CONNECTED LOAD			COL	NNEC	TED I	LOAD:			32,	080	VA				29,470	VA		28,458 VA	88,006	VA	
	CONNECTED LOAD				CON	NECT	ED BA	LANC	CED I	LINEC	URF	RENT	= 244	.5 A					HIGH LINE CURRENT (ØA)	= 267.3 /	A	
			L	IGHTING	LOA	ND @	125%:				5	VA				5	VA		- VA	· 1	V.A.	
						CL@						VA					VA		- VA	- 1		
		CO	NNECTE	ED REC	EPTA	CLE	OAD:					VA				8,280			5,940 VA	23,040 \		
				RST 10,								VA				3,594			2,578 VA	10,000		
						ER @						VA				2,343			1,681 VA	6,520 \		
	DEMANDLOAD	CC	DNNECT									VA					VA		- VA	- 1		
	DEMAND LOAD		TC. LOA									VA				-			- VA	- 1		
			THER N									VA				21,190	- 27 - 7		20,516 VA	64,966 \	(Infine)	
		1		RGEST.								VA				-			- VA	04,500		
		-	100		- No	A SAME OF STREET					art per contract					ENVIOLE DESCRIPTION			CONTROL CONTROL OF THE CONTROL OF TH			
		1			DEM	AND I	JUAU:			23,	204	VA				27,127	VA		24,775 VA	81,486	VA	
		1			127.75	THE PERSON NAMED IN	23545	2 2 2 2 2 2 2	431 70	NE CUI	III MADE O		12247119	42					HIGH LINE CURRENT (ØA)	A PART THE		

	MOUNTING : FLUSH					PAN	ΙEΙ	- <u>E</u>								MAIN: MLO	
	277 V, 1PH, 2W								A	A.I.C	RAT	INC	3:_	14	000	BUS:	
NOTE	DESCRIPTION	VA	LTG	REC	MISC	BRK	CIRC		,	CIRC	BRK	MISC	REC	LTG	VA	DESCRIPTION	
	2ND FLR ADULT STACKS EM LIGHTING	4 40	Х			20/1	1	F	+	2	20/1			χ	123	1ST FLR CHILDREN'S EM LIGHTING	1
	2ND FLR ADULT SEATING EM LIGHTING	292	Х			20/1	3	Ī	+	4	20/1			X	220	1ST FLR RESTROOM AND ENTRY EM LIGHTING	1
	2ND FLR STAFF WORK AREA EM LIGHTING	760	Х	K		20/1	5	1	-	6	20/1			Х	163	1ST FLR STAFF AREA EM LIGHTING	1
	2ND FLR AIRC STACKS EM LIGHTING	480	Х			20/1	7		+	8	20/1			X	153	1 ST FLR TEEN AREA EM LIGHTING	1
						20/1	9	1	+-	10	20/1		T				1
						20/1	1	I —	+	12	20/1						
						20/1	13	3	+	14	20/1						1
						20/1	14	5 —	+	16	20/1			П			1
						20/1	17	7	•	18	20/1						1
	TOTAL VA =	2,631		•	•		1	MI	PS =		9.5					·	

MOUNTING: FLUSH						NEW	F	PANE	L	L						BUS:	400A	=:		
A.I.C. RATING: 35,000 AMPS (minimum)					480	/ 277		VOLT	rs, ;	3 PH	ASE, 4 W	/IRE				MAIN:	MLO			
LOCATION: BASEMENT															F	eeder OCPD:	225A	Fed From:	MS	
DESCRIPTION	N.	/olt-Amp	5	122	1.60	Ckt	Ckt	4 D C	Ckt	Ckt Brkr	B. K	1 4-4		Volt-Am	05		DEC	COURTION		μ
DESCRIPTION	ØAN	ØBN	ØCN	Ltg	Misc	Brkr	No	ABC	No	Brkr	Misc	Ltg	ØAN	ØBN	ØCN	1	DES	CRIPTION		PON
EM LIGHTING INVERTER (PANEL E)	2631			X		30/1	1	∓ □	- 2	20/1						SPARE				
LIGHTING CONTROL PANEL	(686666)	400				20/1	3 -	+	4	20/1						SPARE				
SPARE	3333333			1		20/1	5	╁┼	- 6	20/1						SPARE				\top
SPARE						20/1	7	+	- 8	20/1			1			SPARE				
SPARE						20/1	9	+	10	20/1						SPARE				
SPARE						20/1	11	┼┼╈	12	20/1						SPARE				\top
SPARE						20/1	13	+	14	20/1						SPARE				\top
SPARE	(0.000000000000000000000000000000000000					20/1	15	++	16	20/1						SPARE				\top
SPARE						20/1	17		18	20/1		İ			:	SPARE				\top
SPARE						20/1	19	+ +	- 20	20/1						SPARE				\top
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	5555555			: 		1			SFB			1	1	27127	T	(PANEL J)				
	0000000			1		†	1	∐	2.00	1 2		1::::	:		24775	Committee of the Commit				
PANEL CALCULATION									Ø AN				ØBN			ØCN		Ø A + Ø	3 + Ø C	_
			CO	NNECT	ED LOAD:			178/78/	,215	1111			27,527	111		24,775 \	VA	84,517	Name of the Party	
CONNECTED LOAD				CONN	ECTED BA	LANC	ED L				= 101.7 A							T (ØA) = 118.2		
		LI	GHTING	3 LOAD	@ 125%:			3	,289	VA			¥ i	VA		- 1	VA	3,289	VA	
			OTH	ER LCI	@ 125%:				-	VA			22	V.A.			V.A.		VA	
	CO	NNECTE	DREC	EPTAC	LE LOAD:				н	VA			+	VA		- 1	VA	=	VA	
		FIF	RST 10,	000 VA	A @ 100%:				μ.	VA				VA			VA		VA	
					R @ 50%:					VA				VA.			VA.		VA	
DEMAND LOAD	CC	NNECT			D @ Q'TY:					VA				V.A.		- 1			VA	
DEMINIO DONO					FACTOR:					WA			н	VA			VA.		VA	
			Total Control		@ 100%:			29	,584				27,527			24,775 \		81,886		
					R @ 25%:					VA						- 1		-		
				The state of the s	ND LOAD:			32	,873				27,527			24,775 \		85,175	HI III	
				DEN				UCA-Miller	• 0.00000000000000000000000000000000000	11010000							*Patrolit	50, 11 0	A	

PANEL SCHEDULE NOTES

- E EXISTING CIRCUIT TO REMAIN. INDICATED LOAD PER AVAILABLE RECORD DRAWINGS.
- PROVIDE GFI TYPE CIRCUIT BREAKER.
- L PROVIDE CIRCUIT BREAKER CAPABLE OF BEING LOCKED IN THE "OFF POSITION".
- N PROVIDE NEW CIRCUIT BREAKER IN EXISTING PANEL. UPDATE CIRCUIT DIRECTORY TO REFLECT NEW LOAD.
- X REMOVE EXISTING LOAD FROM INDICATE CIRCUIT AND RELABEL CIRCUIT AS SPARE IN CIRCUIT DIRECTORY. 1 PROVIDE LOCK-ON TYPE CIRCUIT BREAKER, RED IN COLOR FOR FIRE ALARM POWER SUPPLY.
- 2 EXISTING CIRCUIT TO BE REMOVED. REUSE EXISTING CIRCUIT BREAKER FOR NEW LOAD. UPDATE CIRCUIT DIRECTORY TO REFLECT NEW LOAD.

DOCUMEN. CONSTRUCTION

REVISIONS



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HUNTINGTON PARK, CA

ADDITIONAL SCOPE

SHEET NOTES

REMOVE LIGHTING CONTACTOR CONTROL FROM SPLIT BUS PANEL. PROVIDE JUMPER CABLE CONNECTION BETWEEN SPLIT BUS SECTIONS. LIGHTING CONTACTOR TO BE REMOVED FROM ENCLOSURE.

2 INDICATED LOADS PER AVAILABLE RECORD DRAWINGS.

3 EXISTING BRANCH CIRCUIT LOAD UNKNOWN, 80% LOAD USED AS WORST CASE SCENARIO.

4 INDICATED LOADS PER AVAILABLE RECORD DRAWINGS PLUS ADDED LOADS.

1. DURING CONSTRUCTION, DE-ENERGIZE AND TORQUE ALL EXISTING TO REMAIN BRANCH CIRCUIT BREAKERS AND FEEDER BREAKERS FOR ALL EXISTING PANELS.

GENERAL NOTES

- . WHERE PANEL IS INDICATED TO INCLUDE FEED THRU LUGS, PROVIDE FEED THROUGH LUGS AT THE OPPOSITE END OF THE PANELBOARD FROM THE PANELBOARD MAIN LUGS.
- 2. WHERE PANEL IS INDICATED TO INCLUDE DOUBLE LUGS, PROVIDE A DOUBLE LUG KIT AT THE SAME END OF THE PANELBOARD AS THE PANELBOARD MAIN LUGS.
- WHERE PANEL IS INDICATED AS RECESSED OR FLUSH MOUNTED, PROVIDE SPARE CONDUITS STUBBED UP INTO THE ACCESSIBLE CEILING SPACE. PROVIDE ONE (1) 3/4" CONDUIT ONLY FOR EACH THREE (3) SPARES OR SPACES, MINIMÙM ÓF TWO (2). EACH CONDUIT SHALL BE TAGGED, CAPPED AND MARKED FOR FUTURE USE.
- . PROVIDE BREAKER INTERLOCK WITH ADJACENT BREAKER(S) FOR ANY MULTI-WIRE BRANCH CIRCUIT. BREAKER INTERLOCK GROUPING SHALL BE BY BRANCH CIRCUIT GROUP (i.e. MULTIPLE CIRCUITS SHARING A COMMON NEUTRAL NEC 210.4(B), COMMON YOKE NEC 210.7(B).
- 5. PROVIDE BREAKER LOCK OFF DEVICE ON ANY CIRCUIT BREAKER FEEDING A TRANSFORMER AS REQUIRED, PER NEC 450.14. WHERE AN EXISTING PANEL IS BEING ALTERED OR MODIFIED IN ANY WAY, CONTRACTOR SHALL INCLUDE ALL COSTS IN BASE BID TO ADD BREAKER LOCK-OFF DEVICES TO EXISTING TRANSFORMER CIRCUIT BREAKERS BASED ON CONTRACTOR'S INVESTIGATION OF EXISTING CONDITIONS.
- 6. ALL CIRCUIT BREAKERS SHALL BE BOLT-ON TYPE AND SHALL BE SUITABLE FOR 75 DEGREE AMPACITY CONDUCTORS.
- 7. ELECTRICAL PANELS SHALL BE DEAD FRONT SAFETY TYPE. PANELS SHALL BE MINIMUM 20" WIDE AND 5-3/4" DEEP UNLESS OTHERWISE
- 8. ALL ELECTRICAL PANEL BUSSING SHALL BE TIN PLATED COPPER.
- 9. ELECTRICAL PANELS SHALL BE PROVIDED WITH PROVISIONS FOR FUTURE CT RAILS FOR LOAD DISAGGREGATION IN COMPLIANCE WITH CALIFORNIA ENERGY CODE, TITLE 24 2023, SECTION 130.5.
- 10. PANELBOARDS SHALL BE FULLY RATED, SERIES RATING IS NOT

G1

ACCEPTABLE. 11. ALL NEW CIRCUIT BREAKERS INSTALLED IN EXISTING PANELS SHALL MATCH THE HIGHEST EXISTING AIC RATED CIRCUIT BREAKER WITHIN THAT BOARD. INSPECTOR TO VERIFY HIGHEST AIC RATING AT THE SITE.



NAC NO 161-23025 DRAWN Author CHECKED Checker DATE 07/15/2025

PANEL SCHEDULES

PANEL	INDEX	
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	MOUNTING: FLUSH								П	ANE		J1							BUS	400A			
																				12/2/2/2/2/2	7 %		
Α	I.C. RATING: 10,000 AMPS (minimum)						208	/ 120		VOL	rs,	3 PH	ASE,	4 W	IRE				MA IN:	MLO			
10	LOCATION: 2ND FLOOR COORIDOR																	F	eeder OCPD:	400A	Fed From:	J	
D.J	PERCENTION	1	Volt-Amp)S	10.20%	1-23700		Ckt	Ck t		Ck	t Ckt		_	10.30%		Volt-Am	06		5-	CORPTO		in.
NOTE	DESCRIPTION	ØAN	ØBN	ØCN	Ltg	Rec	MISC	Brkr	No	ABO	No	Brkr	MISC	Rec	Ltg	ØAN	ØBN	ØCN		DE	SCRIPTION		NOTE
	RESTROOM DOOR RELEASE	600						20/1	1	+ 1	- 2	20/1		2	10	360			MCR RECEP	TACLES			
	INTRUSION DECTION PANEL		600					20/1	3		4	20/1					360		MASTER CL	OCK			T
	ACCESS CONTROL PANEL			600				20/1	5	+++	- 6	20/1						:	SPARE				
	PA SYSTEM	600						20/1	7	╞ ┼┤	- 8	30 /	111111		:::::	2880			MCR RACK	1			
	FIRE ALARM PANEL		600					20/1	9		10	7	• . • . • .	• 7 (• 3 (• 3	(* 1 (*) * 1 (* 1 (* 1 (* 1 (* 1 (* 1 (* 1 (* 1 (* 1 (* 1 (*) * 1 (* 1 (* 1 (* 1 (* 1 (* 1 (* 1 (* 1 (* 1 (* 1 (*) * 1 (* 1 (* 1 (* 1 (* 1 (* 1 (* 1 (* 1 (* 1 (* 1 (*) * 1 (* 1 (* 1 (* 1 (* 1 (* 1 (* 1 (* 1 (* 1 (* 1 (*) * 1 (* 1 (* 1 (* 1 (* 1 (* 1 (* 1 (* 1 (* 1 (* 1 (*) * 1 (* 1 (* 1 (* 1 (* 1 (* 1 (* 1 (* 1 (* 1 (* 1 (*) * 1 (* 1 (* 1 (* 1 (* 1 (* 1 (* 1 (* 1 (* 1 (* 1 (*) * 1 (* 1 (* 1 (* 1 (* 1 (*) * 1 (* 1 (* 1 (* 1 (*) * 1 (* 1 (* 1 (*) * 1 (* 1 (*) * 1 (* 1 (* 1 (* 1 (*) * 1 (* 1 (*) * 1 (* 1 (*) * 1 (* 1 (*) * 1 (* 1 (*) * 1 (2880		3				
	MASTER CLOCK			600				20/1	11	-	- 12	2 / 3						2880	•				
	MCR RACK 2	2880	:::::::::::::::::::::::::::::::::::::::		::::::	:::::	:::::	30 /	13	+	14	4 25/	LM			1768	:::::::::::::::::::::::::::::::::::::::		IT ROOM HE	AT PUMP [H	P-1]		\top
			2880		:	• • • • •		71	15	+	16	3 / 2					1768						
				2880	1:::::	::::::	:::::;	/ 3	17	-	18	2.00						100	EXHAUST FA	AN [EF-1]			1
	COMMUNITYMEETING ROOM RECEPTS	900				5		20/1	19	╅┤┤	- 20					800			TEEN HUB E		VER		\top
	COMMUNITYMEETING ROOM RECEPTS		540			3		20/1	21		22									1000			\top
	COMMUNITYMEETING ROOM RECEPTS	1		1080		6		20/1	23		2					1		1					\top
-	COMMUNITYMEETING ROOM KITCHENETTE RECEPTS	380	1		:	2		20/1	25	$\downarrow \downarrow \downarrow$	- 26					600			MAIN ENTRY	DISPLAYC	ASE		\top
	COMMUNITYMEETING ROOM GARBAGE DISPOSAL		1200					20/1	27	141	- 28	The second second			10		800		AUTOMATIC	DOOR OPE	NER		+
7	COMMUNITYMEETING ROOM FRIDGE			800	1			20/1	29		30				-			200	1ST FLOOR	RESTROOM	EXHAUST FANS		7
-1	COMMUNITYMEETING ROOM EXHAUST FAN	300						15/1	31	\downarrow	32					240			STAFF RESTR	OOM, BREAK	ROOM, & JAN. CLST	EXHAUST FAIN	S
_	STORAGE RM 120 RECEPTS		540			3		20/1	33	-	34						500		1ST FLOOR			M 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	-
1	1ST FLOOR RESTROOM ROLL-UP GATE			600		- Marie		20/1	35		36	NAME AND ADDRESS OF THE OWNER, TH			-			800	2ND FLOOR	FIRE SMOK	E DAMPERS		=
	1ST FLOOR SYNCHRONIZED CLOCKS	650						20/1	37		38			Ï	17								+
	2ND FLOOR SYNCHRONIZED CLOCKS	33333333	300		1			20/1	39		4()			10	100000000000000000000000000000000000000							+
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	PANEL CALCULATION										ØAI	1 1 1 1				ØBN		1	Ø CN	1	Ø A + Ø	B+ØC	_
	THE STEUDENTON			COL	NNECT	EDIA	AD:					VA				12,968			10,540		All and the state of the state	Mercalle Company Co.	
	CONNECTED LOAD							NA DESCRIPTION OF THE PROPERTY					12/2/10/	12 12 V		12, 500	VA				36,446		
					CONN	the property of the pro-	CONTRACTOR OF THE PARTY OF THE	LANC	ED L	INE	CUR	RENT	= 101.	2 A					HIGH I	LINE CURRE	ENT (ØB) = 108.1	A	
			Ц	GHTING							-	VA				-	VA		-	VA	4207	VA	
				1111-111111	ER LCI	-					72	VA					VA		74	VA	##W	VA	
		CO	NNECTE	D REC	EPTAC	CLE LO	DAD:			1	,620	VA				1,080	VA		1,080	VA	3,780	VA	
			FI	RST 10,	000 VA	4@10	00%:				-	VA.				-	VA		-	VA	4207	VA	
				REN	IAINDE	R @ 5	50%:				1/22	VA				-	VA		(Vian)	VA	3 0	VA	
	DEMAND LOAD	CC	DNNECT	ED KIT	C. LOA	D @ C	2TY:					VA					VA		(e)	VA	H(VA	
			TC. LOA								-	VA				-	VA			VA	4 0	VA	
		C	THER N	ION LC	LOAD	@ 10	00%:			11	,318	VA.				11,888	VA		9,460	VA	32,666	VA	
			LA	RGEST	MOTO)R @ 2	25%:				442	VA				442	VA		2.50	VA	884	VA	
					DEMA	ND LO	DAD:			13	3,380	VA.				13,410	VA		10,540	VA	37,330	VA	
					DEN	MAND	RALA	NCE) I IK				103.7	Λ							ENT (ØB) = 111.8		

MOUNTING: FLUSH		R	EPLA	CED	PAN	EL	G							BUS:	100A	<u></u> 24		
A.I.C. RATING: 10,000 AMPS (minimum)			208 /	120	VOL	.TS,	3 PH	ASE,	4 WIF	RE.				MAIN:	MLO			
LOCATION: 3RD FLOOR CORRIDOR													F	eeder OCPD:	100A	Fed From:	DPB	Č
DESCRIPTION	Volt-Amps			Ckt C	ct	Ck	t Ckt		D		ν	olt-Amp	s		DEC.	CRIPTION		்ய
DESCRIPTION	ØAN ØBN ØCN LIG	Rec I	IVISC	Ckt Ck Brkr N	0 4 5	No	t Ckt Brkr	IVIISC	Rec	Ø	AN	ØBN	ØCN		DES	CRIP HON		NOT
E REG. WORK AREA STAFF TO IL	900			20/1 1	1	+ 2	20/1			9	00			WORK RM				E
REG WORK AREA	720			20/1 3	⊺ ++	4	20/1			300		1260		WORKRM				E
E REG WORK AREA	1080			20/1 5	74+	6	20/1			888			1080	OFFICE CONF.				E
E D.F.	750			20/1 7	_ + +	8				10	080			OFFICE CONF.				E
E DUCT HEATER RM 315	1000		5 5 5	20/1 9	<u> </u>	10						1000		DUCT HEATER I				E
E DUCT HEATER RM 314	1000			20/1 1	1	12							1000	DUCT HEATER I	RM 310			E
E DUCT HEATER RM 313	1000			20/1 1		14			,	10	000			DUCT HEATER I	THE PROPERTY OF THE PARTY OF TH			E
E ATTIC LTS	1080 X			20/1 1	223		20/1		Ĭ			1000		DUCT HEATER I				E
E ATTIC LTS	1260 X			20/1 1		18							1000	BATT. (EMERG L	.TS)			Е
E JAN BOOK STOR.	540			NATIONAL DESIGNATION OF THE PARTY OF THE PAR	9 +	20	The second second							SPARE				Х
E STAFF TOIL	1260		0.00	20/1 2	- 22	0.0	20/1			<u> </u>				SPARE				
SPARE		1 4		20/1 2			20/1			200				SPARE				
SPARE	***************************************			20/1 2	5	28								SPARE				\perp
SPARE				20/1 2	<u>7</u> + +	28				1000				SPARE				_
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					1	•		ļ	ļ.		-1.40-3			FEEDER SHARE	D WII H P	en a fail Neathar I seven	ALL STATE OF THE S	
PANEL CALCULATION						ØAt	2711			900	BN			Ø CN		ØA+Ø	Service Resolution	
CONNECTED LOAD	CONNEC	TED LO	DAD:			6,170	VA			7,	320	VA		6,420 VA	·	19,910	VA	
CONNECTED LOAD	CON	NECTE	D BA	LANCE	DLINE	CUR	RENT	= 55.3	A					HIGH L	INE CURF	RENT (ØB) = 61	Α	
	LIGHTING LOA	D @ 12	25%:			-	VA			1.	350	VA		1,575 VA		2,925	VA	
	OTHER LO	L@ 12	25%:			2	VA				12	VA.		- VA		=	VA	
	CONNECTED RECEPTA	CLE LC	DAD:				VA					VA		- VA	V	-	VA	
	FIRST 10,000 V	A @ 10	00%:			ш	VA				μ.	VA		- VA		=	VA	
	REMAIND					w.	VA.				¥	V.A.		- VA	V	100	VA	
DEMAND LOAD	CONNECTED KITC. LO	AD@C	YTY:				VA					V.A.		- VA		=	VA	
	KITC, LOAD @ DEMAN						VA					VA.		- VA	10	-	VA	
	OTHER NON LCL LOA						VA				240	16 letter		5,160 VA		17,570		
	LARGEST MOT	OR @ 2	25%:				VΑ				m	VA		- VA	¥	-	VA	
	DEM	AND LO	DAD:			6,170	VA			7,	590	VA		6,735 VA		20,495	VA	
	l ne	MAND	PAL A	ANCED	LINE	TIPP	FNT =	56 9 /	1					HIGHLIN	E CLIBBE	NT(ØB) = 63.3	Δ	

	MOUNTING: FLUSH			EXISTIN	IG	PANE	EL B						BU	S: 225A			
	A.I.C. RATING:			208 / 1	20	VOL	TS, 3 P	HASE	E, 4 WIF	RE			MAI	N: MLO			
	LOCATION: 1ST FLR												Feeder OCP	D:125A	_ Fed From:	DPB	
þ	별 DESCRIPTION	Volt-Amps	Doo	Mis c	t Ckt	A D	Ckt C	kt	isc Rec	1 +	ν	olt-Amp)S	DEC	CRIPTION		μ
60.3	DESCRIPTION	ØAN ØBN ØCN LIG	Rec	Br	kr No	AB	C Ckt C	kr	ISC REC	Lig -	ØAN	ØBN	Ø CN	DES	CRIPTION		LON
	E BK RETN & STOR	835		20			2 20			7	1260		VEST, REC	CEPT DESK, CH	ILD'D LIBRN		E
2)	E BATTERYRECETPACLE RM 117	500		20	/1 3	┧┼┢╌	4 20			:		750	0.F.				E
10	E STAFF LOUNGE VEST JAN EXIT LTS	1180		20	/1 5	144	6 20	V1					1080 JAN, LIB'R	N WORK RM, R	ECEPT DESK		I
~ <u> </u>	E PUBL.TOILETS	1800		20	/1 7	┪	8 20	V1			750		D.F.				1
1)[E STAFF TOILETS, ADULT FIC, LOUNGE	1440		20			10 20					1260	WORK RM	CHILD'N AREA			
	E ADULT FICTION, STOR., EXT	900		20	/1 11	144	12 20	V1					1260 CHILD'N A	REAMTG RM			
1)	E ADULT FICTION, LOUNGE	1620		20	/1 13	1+1	14 20	V1			500		MTGRM				
	E STAFF TOILETS	1260		20	/1 15		16 20					1440	ARCADE				
	E CANOPYNORTHENTR. SOUTH	1080		20		\mathbb{H}	18 20	V1					1200 EXTR FLD				
	E AREA WAY	720		20		} +₩	20 20	V1			1200		EXTR FLD	(RECESSED G	RD)		
	E FLOODLT	600		20	/1 21	│ ╁	22 20	V1				600	EXTR FLD	(RECESSED G	RD)		
1	E EXIT LTS, 1ST, 2ND, 3RED FLR	725		20	/1 23	\mathbb{H}	24 20	V1					600 EXTR FLD	(RECESSED G	RD)		1
. 12.00	E SPARE			20	/1 25	} ♦┼	26 20	V1					SPARE				
1.5	E SPARE	3333333		20			28 20	V1					SPARE				
, il	E SPARE			20	/1 29	НЬ:	30 20	V1					SPARE				
	PANEL CALCULATION						ØAN				ØBN		ØC	CN CN	Ø A + Ø	B+ØC	
	CONNECTED LOAD	CONNEC	TED L	.OAD:		1	8,685 VA	٧			7,850	VA	8,02	5 VA	24,560	VA	
	CONNECTED LOAD	COI	NNECT	ED BALA	NCED	LINE	CURRE	NT = E	68.2 A				HIG	H LINE CURRI	$ENT(\emptyset A) = 72.4$	A	
		LIGHTING LOA	AD @ 1	125%:			- V/	4			m	VA		VA		VA	
		OTHER L	CL@	125%:			- V/	A			H	VA	¥	VA		VA	
		CONNECTED RECEPTA	ACLE L	.OAD:			- V/	4			W	VA	W	VA	120	VA	
		FIRST 10,000 \	/A @ '	100%:			- V/	Α.				VA		VA	-	VA	
	DEMAND LOAD	REMAIND	ER @	50%:			- V/	A			¥	VA	H	VA	∞	VA	
		OTHER NON LCL LOA	-				- VA	A.			w	V,A	W	VA	121	VA	
		LARGEST MOT	TOR @	25%:			- V/	Α				VA		VA	-	VA	
		DEN	IAND L	OAD:			8,685 VA	1			7,850	VΔ	8.02	5 VA	24,560	VA	

DEMAND BALANCED LINE CURRENT = 68.2 A

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HIGH LINE CURRENT (ØA) = 72.4 A

PANEL SCHEDULE NOTES

- E EXISTING CIRCUIT TO REMAIN. INDICATED LOAD PER AVAILABLE RECORD DRAWINGS.
 - PROVIDE GFI TYPE CIRCUIT BREAKER.
 - PROVIDE CIRCUIT BREAKER CAPABLE OF BEING LOCKED IN THE "OFF POSITION".
- N PROVIDE NEW CIRCUIT BREAKER IN EXISTING PANEL. UPDATE CIRCUIT DIRECTORY TO REFLECT NEW LOAD.
- X REMOVE EXISTING LOAD FROM INDICATE CIRCUIT AND RELABEL CIRCUIT AS SPARE IN CIRCUIT DIRECTORY.

 1 PROVIDE LOCK-ON TYPE CIRCUIT BREAKER, RED IN COLOR FOR FIRE ALARM POWER SUPPLY.
- 2 EXISTING CIRCUIT TO BE REMOVED. REUSE EXISTING CIRCUIT BREAKER FOR NEW LOAD. UPDATE CIRCUIT DIRECTORY TO REFLECT NEW LOAD.

CONSTRUCTION

DOCUMEN

REVISIONS

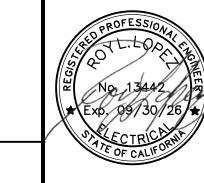
SHEET NOTES

REMOVE LIGHTING CONTACTOR CONTROL FROM SPLIT BUS PANEL. PROVIDE JUMPER CABLE CONNECTION BETWEEN SPLIT BUS SECTIONS. LIGHTING CONTACTOR TO BE REMOVED FROM ENCLOSURE.

2 INDICATED LOADS PER AVAILABLE RECORD DRAWINGS.

3 EXISTING BRANCH CIRCUIT LOAD UNKNOWN, 80% LOAD USED AS WORST CASE SCENARIO.

4 INDICATED LOADS PER AVAILABLE RECORD DRAWINGS PLUS ADDED LOADS.



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ADDITIONAL SCOPE

1. DURING CONSTRUCTION, DE-ENERGIZE AND TORQUE ALL EXISTING TO REMAIN BRANCH CIRCUIT BREAKERS AND FEEDER BREAKERS FOR ALL EXISTING PANELS.

GENERAL NOTES

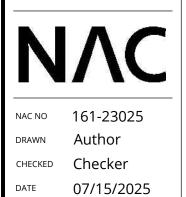
- . WHERE PANEL IS INDICATED TO INCLUDE FEED THRU LUGS, PROVIDE FEED THROUGH LUGS AT THE OPPOSITE END OF THE PANELBOARD FROM THE PANELBOARD MAIN LUGS.
- 2. WHERE PANEL IS INDICATED TO INCLUDE DOUBLE LUGS, PROVIDE A DOUBLE LUG KIT AT THE SAME END OF THE PANELBOARD AS THE PANELBOARD MAIN LUGS.
- 3. WHERE PANEL IS INDICATED AS RECESSED OR FLUSH MOUNTED, PROVIDE SPARE CONDUITS STUBBED UP INTO THE ACCESSIBLE CEILING SPACE. PROVIDE ONE (1) 3/4" CONDUIT ONLY FOR EACH THREE (3) SPARES OR SPACES, MINIMUM OF TWO (2). EACH CONDUIT SHALL BE TAGGED,
- PROVIDE BREAKER INTERLOCK WITH ADJACENT BREAKER(S) FOR ANY MULTI-WIRE BRANCH CIRCUIT. BREAKER INTERLOCK GROUPING SHALL BE BY BRANCH CIRCUIT GROUP (i.e. MULTIPLE CIRCUITS SHARING A COMMON NEUTRAL NEC 210.4(B), COMMON YOKE NEC 210.7(B).
- 5. PROVIDE BREAKER LOCK OFF DEVICE ON ANY CIRCUIT BREAKER FEEDING A TRANSFORMER AS REQUIRED, PER NEC 450.14. WHERE AN EXISTING PANEL IS BEING ALTERED OR MODIFIED IN ANY WAY, CONTRACTOR SHALL INCLUDE ALL COSTS IN BASE BID TO ADD BREAKER LOCK—OFF DEVICES TO EXISTING TRANSFORMER CIRCUIT BREAKERS BASED ON CONTRACTOR'S INVESTIGATION OF EXISTING CONDITIONS.
- 6. ALL CIRCUIT BREAKERS SHALL BE BOLT—ON TYPE AND SHALL BE SUITABLE FOR 75 DEGREE AMPACITY CONDUCTORS.

CAPPED AND MARKED FOR FUTURE USE.

- 7. ELECTRICAL PANELS SHALL BE DEAD FRONT SAFETY TYPE. PANELS SHALL BE MINIMUM 20" WIDE AND 5-3/4" DEEP UNLESS OTHERWISE NOTED.
- 8. ALL ELECTRICAL PANEL BUSSING SHALL BE TIN PLATED COPPER.
- 9. ELECTRICAL PANELS SHALL BE PROVIDED WITH PROVISIONS FOR FUTURE CT RAILS FOR LOAD DISAGGREGATION IN COMPLIANCE WITH CALIFORNIA ENERGY CODE, TITLE 24 2023, SECTION 130.5.
- 10. PANELBOARDS SHALL BE FULLY RATED, SERIES RATING IS NOT
- ACCEPTABLE.

 11. ALL NEW CIRCUIT BREAKERS INSTALLED IN EXISTING PANELS SHALL MATCH THE HIGHEST EXISTING AIC RATED CIRCUIT BREAKER WITHIN THAT BOARD. INSPECTOR TO VERIFY HIGHEST AIC RATING AT THE SITE.





PANEL	INDEX
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PANEL SCHEDULES

ELECTRICAL CONTRACTOR TO CONFIRM FEEDER CIRCUIT BREAKER DEVICE SIZE WITH INSTALLED EQUIPMENT MANUFACTURER PRIOR TO PLACING ORDER.

					MEC	CHANIC	CAL E	QUIPM	IENT CONNEC	CTION SCHEDULE		
NOTE: ALL MECHA	NICAL AND PLUMBING INFORMATION SHO	WN IS FOR REFEREN	CE ONLY AND	MUST BE VE	RIFIED WITH	LATEST MECH	IANICAL OR I	PLUMBING DRA	AWINGS AND ACTUAL PURCHAS	SED EQUIPMENT PRIOR TO ANY ROUGH-IN, MAT	ERIALS ORDERING, AND FINAL CONNECTIONS	
TAG	DESCRIPTION			EQUIPME	NT RATING				CON	NNECTION DATA		NOTES
TAG	DESCRIPTION	VOLTS	PHASE	FLA	MCA	MOCP	HP	WATT	STARTER SIZE	MINIMUM WIRE SIZE	LOCAL DISCONNECT SWITCH	NOTES
HP 1	HEAT PUMP	208	1	-	17	25	-	-	W/ UNIT	3/4"C-2#10+1#10GND	30AS/25AF/3P	
FC 1	FAN COIL	-	-	-	-	-	-	-	W/ UNIT	-	-	POWERED BY OUTDOOR UNIT
EF 1	EXHAUST FAN	120	1	0.2	-	15	-	-	\$ M	3/4"C"-2#12+1#12GND	MOTOR RATED SWITCH	
EF 2	EXHAUST FAN	120	1	1.9	-	15	-	-	\$ M	3/4"C"-2#12+1#12GND	MOTOR RATED SWITCH	
EF 3	EXHAUST FAN	120	1	1.9	-	15	-	-	\$ M	3/4"C"-2#12+1#12GND	MOTOR RATED SWITCH	
EF 4	EXHAUST FAN	120	1	0.2	-	15	-	-	\$ M	3/4"C"-2#12+1#12GND	MOTOR RATED SWITCH	
EF 5	EXHAUST FAN	120	1	0.2	-	15	-	-	\$ M	3/4"C"-2#12+1#12GND	MOTOR RATED SWITCH	
E F 6	EXHAUST FAN	120	1	0.2	-	15	-	-	\$ M	3/4"C"-2#12+1#12GND	MOTOR RATED SWITCH	
EF 7	EXHAUST FAN	120	1	0.2	-	15	-	-	\$ M	3/4"C"-2#12+1#12GND	MOTOR RATED SWITCH	
E F 8	EXHAUST FAN	120	1	1.9	-	15	-	-	\$ ^M	3/4"C"-2#12+1#12GND	MOTOR RATED SWITCH	

ELECTRICAL CONTRACTOR TO CONFIRM FEEDER CIRCUIT BREAKER DEVICE SIZE WITH INSTALLED EQUIPMENT MANUFACTURER PRIOR TO PLACING ORDER.

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	PLUMBING EQUIPMENT CONNECTION SCHEDULE											
NOTE: ALL MECHANICAL AND PLUMBING INFORMATION SHOWN IS FOR REFERENCE ONLY AND MUST BE VERIFIED WITH LATEST MECHANICAL OR PLUMBING DRAWINGS AND ACTUAL PURCHASED EQUIPMENT PRIOR TO ANY ROUGH-IN, MATERIALS ORDERING, AND FINAL CONNECTIONS.												
TAG	DECORPORTOR			EQUIPME	NT RATING				CO	NNECTION DATA		NOTES
TAG	DESCRIPTION	VOLTS	PHASE	FLA	MCA	MOCP	HP	WATT	STARTER SIZE	MINIMUM WIRE SIZE	LOCAL DISCONNECT SWITCH	NOTES
EWH 1	ELECTRIC WATER HEATER	277	1	-	-	-	-	10K	-	3/4"C-2#8+1#10GND	-	
EWH 2	ELECTRIC WATER HEATER	277	1	-	-	-	-	4.1K	-	3/4"C-2#12+1#12GND	-	
DF 1	DRINKING FOUNTAIN	120	1	-	-	-	-	-	-	3/4"C-2#12+1#12GND	-	
GD 1	GARBAGE DISPOSAL	120	1	-	-	-	-	-	-	3/4"C-2#12+1#12GND	-	

KEY NOTES

1 NOT USED.

CONSTRUCTION DOCUMEN

REVISIONS

Salas O'Brien., alasobrien.com 949.753.1553 vine 825 Research Drive vine, CA 92618

REFER TO MECHANICAL/PLUMBING CONNECTION NOTES FOR ADDITIONAL INFORMATION. ALSO REFER TO, AND INSTALL PER MECHANICAL AND PLUMBING DETAILS/DIAGRAMS INCLUDING CONTROL CONDUIT, WIRING, AND INTER LOCKING.

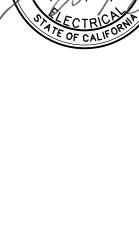
GENERAL NOTES

2. WRE SIZES SHOWN ON THE EQUIPMENT SCHEDULES ARE CODE MINIMUM CONDUCTOR SIZES, WRE SIZE SHOWN ON THE PANEL SCHEDULES ARE TO ACCOMMODATE VOLTAGE DROP AND SHALL SUPERSEDE THE CONDUCTOR SIZES SHOWN ON THE EQUIPMENT SCHEDULE. CONDUITS SHALL BE SIZED ACCORDINGLY.

EQUIPMENT CONNECTION NOTES

- 1. ALL ELECTRICAL EQUIPMENT ON ROOF OR EXPOSED TO DAMP/WET CONDITIONS SHALL BE PROVIDED WITH WEATHERPROOF HARDWARE/ACCESSORIES AND/OR NEMA 3R RATED ENCLOSURES.
- 2. FINAL CONNECTION TO MECHANICAL/PLUMBING EQUIPMENT SHALL BE MADE WITH FLEXIBLE METAL CONDUIT OR LIQUID TIGHT FLEX WHERE REQUIRED.
- 3. ALL OVER CURRENT AND OVERLOAD PROTECTIVE DEVICES SHALL BE SIZED PER MECHANICAL EQUIPMENT MANUFACTURER'S NAMEPLATE INCLUDING FUSES AND CIRCUIT BREAKERS.
- 4. ALL OVER CURRENT PROTECTIVE DEVICES SHALL BE RATED 300V OR 600V, AS REQUIRED, HEAVY-DUTY TYPE.
- 5. PROVIDE ALL REQUIRED 120V (AND ABOVE VOLTAGES) WIRING AND RACEWAY FOR MECHANICAL EQUIPMENT INTERLOCK, CONTROLS, FIRE ALARM, ENERGY MANAGEMENT AND TEMPERATURE CONTROL SYSTEMS AS DEEMED NECESSARY FOR A COMPLETE AND OPERABLE SYSTEM. COORDINATE ALL REQUIREMENTS WITH MECHANICAL SYSTEM DOCUMENTS AND DIVISION 15 SPECIFICATIONS PRIOR TO START OF WORK.
- REFER TO MECHANICAL CONSTRUCTION DRAWINGS FOR LOCATION OF ALL MECHANICAL EQUIPMENT. COORDINATE LOCATION IN FIELD PRIOR TO ROUGH—IN.
- ALL BRANCH CIRCUIT PENETRATIONS THROUGH RATED WALLS, FLOORS OR CEILINGS SHALL BE SEALED WITH UL LISTED AND APPROVED RATED SEALANTS/ASSEMBLIES. PERFORM PENETRATIONS SUCH THAT FIRE RATING OF ROOF AND/OR WALLS IS MAINTAINED.
 ELECTRICAL CONTRACTOR SHALL VERIFY MECHANICAL EQUIPMENT
- VOLTAGES AND PHASE, AND COORDINATE WITH MECHANICAL CONSTRUCTION DRAWINGS AND EQUIPMENT SHOP DRAWINGS.
- 9. MOUNT DISCONNECT SWITCHES SUCH THAT CEC REQUIRED WORKING CLEARANCE IS MAINTAINED.
- 10. PROVIDE 120V CONNECTIONS TO ALL DUCT/SMOKE DETECTORS UNLESS OTHERWISE NOTED OR INDICATED BY EQUIPMENT MANUFACTURER IF DEVICE IS MANUFACTURER INSTALLED AND WIRED INTERNALLY.
- 11. PROVIDE 20A 125V GFCI RECEPTACLE WEATHER PROOF/WEATHER RESISTANT EXTRA DUTY, WITHIN 25FT OF HVAC EQUIPMENT AS REQUIRED BY MECHANICAL AND ELECTRICAL CODE.

NOTE: ALL MECHANICAL AND PLUMBING INFORMATION SHOWN IS FOR REFERENCE ONLY AND MUST BE VERIFIED WITH LATEST MECHANICAL OR PLUMBING DRAWINGS AND ACTUAL PURCHASED EQUIPMENT PRIOR TO ANY ROUGH—IN, MATERIALS ORDERING, AND FINAL CONNECTIONS.









DRAWN Author
CHECKED Checker
DATE 07/15/2025

MECHANICAL +

PLUMBING
EQUIPMENT
ELECTRICAL
CONNECTION
SCHEDULE

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	HUNTINGTON LIBRARY							
			TONTINGTON LII	OKAK I				
TYPE	DESCRIPTION	FINISH	LED	DRIVER	WATTAG		REMARKS	
	2X4 EDGELITE FLAT PANEL	WHITE	1 - 45W LED 35K	0 - 10V DIMMING		COLUMBIA - SRP24-35-ML-G-ED-U	RECESSED	
	2X4 EDGELITE FLAT PANEL	WHITE	1 - 54W LED 35K	0 - 10V DIMMING		COLUMBIA - SRP24-35-HL-G-ED-U COLUMBIA - SRP22-35-MW-G-ED-U	RECESSED	
	2X2 EDGELITE FLAT PANEL 2X2 EDGELITE FLAT PANEL	WHITE	1 - 18W LED 35K 1 - 23W LED 35K	0 - 10V DIMMING 0 - 10V DIMMING		COLUMBIA - SRP22-35-MW-G-ED-U COLUMBIA - SRP22-35-LW-G-ED-U	RECESSED RECESSED	
				0 - 10V DIMMING				
	4IN LED DOWNLIGHT XTRAWIDE OPTIC	SEMI SPECULAR WHITE TRIM	1 - 18.6W LED 35K	0 - 10V DIMMING	18.6	PRESCOLITE - LTR-4RD-H-SL-15L-DM1-LTR-4RD-T-SL-35K-XW-SS-WT	RECESSED	
L03B	4IN LED DOWNLIGHT WIDE OPTIC	SEMI SPECULAR WHITE TRIM	1 - 12W LED 35K	0.01 0 - 10V DIMMING	12	PRESCOLITE - LTR-4RD-H-SL-10L-DM1-LTR-4RD-T-SL-35K-WD-SS-WT	RECESSED	
L03C	4IN LED DOWNLIGHT WIDE OPTIC	SEMI SPECULAR WHITE TRIM	1 - 18.6W LED 35K	0.01 0 - 10V DIMMING	18.6	PRESCOLITE - LTR-4RD-H-SL-15L-DM1-LTR-4RD-T-SL-35K-WD-SS-WT	RECESSED	
L03D	4IN LED DOWNLIGHT WIDE OPTIC	SEMI SPECULAR WHITE TRIM	1 - 7.8W LED 35K	0.01 0 - 10V DIMMING	7.8	PRESCOLITE - LTR-4RD-H-SL-06L-DM1-LTR-4RD-T-SL-35K-WD-SS-WT	RECESSED	
L03F	4IN LED DOWNLIGHT WIDE OPTIC	SEMI SPECULAR WHITE TRIM	1 - 27.8W LED 35K	0.01	27.8	PRESCOLITE - LTR-4RD-H-SL-25L-DM1-LTR-4RD-T-SL-35K-XW-SS-WT	RECESSED	
L04A	6FT LED LINEAR WITH 2.5IN APERTURE SATIN LENS SURFCE MOUNT	PREMIUM COLOR	1 - 33.6W LED 35K		33.6	PRUDENTIAL - BPRO3-LIN-FLSH-LED35-MO-6-Y(XX)-SAL-NU-SC-UNV-SUR-DM01	SURFACE	
L04B	6FT LED LINEAR WITH 2.5IN APERTURE SATIN LENS SURFCE MOUNT	PREMIUM COLOR	1 -46.8W LED 35K	0 - 10V DIMMING 0.01	46.8	PRUDENTIAL - BPRO3-LIN-FLSH-LED35-SO-6-Y(XX)-SAL-NU-SC-UNV-SUR-DM01	SURFACE	
L05	4FT LED STRIP LIGHT WITH CURVED LENS NARROW OPTIC ADJUSTABLE CABLE	WHITE	1 - 56.4W LED 35K	0 - 10V DIMMING	56.4	COLUMBIA - MPS-4-35-XL-CN-ED-U-MPSCE-CM48	PENDANT	
L05A	4FT LED STRIP LIGHT WITH CURVED LENS NARROW OPTIC	WHITE	1 - 56.4W LED 35K	0 - 10V DIMMING	56.4	COLUMBIA - MPS-4-35-XL-CN-ED-U-MPSCE	SURFACE	
	26IN LONG LED VANITY LIGHT DAMP LISTED	FINISH	1 - 16W LED 35K	0 - 10V DIMMING	16	BROWNLEE - 5260-26-FINISH-H16-35K	SURFACE	
	6FT LED PENDANT WITH CENTER OPEN SEMI -INDIRECT WITH DECORATIVE COLORED END CAPS	FINISH STANDARD INSERT FINISH ENDS TBD	1 - 50.4W LED 35K		50.4	LITECONTROL - AIRA-P-SD-LPA-6-6-SOF-FINISH-INSERT FINISH-35K9-SD100-D01-1C-UNV-FA1	PENDANT	
L07A	6FT LED PENDANT WITH CENTER OPEN SEMI -INDIRECT WITH DECORATIVE COLORED END CAPS	FINISH STANDARD INSERT FINISH ENDS TBD	1 - 61.2W LED 35K	0 - 10V DIMMING 0.01	61.2W	LITECONTROL - AIRA-P-SD-LPA-6-6-SOF-FINISH-INSERT FINISH-35K9-SD120-D01-1C-UNV-FA1	PENDANT	
L08	6FT LED LINEAR PENDANT 4IN APERTURE WITH SATIN LENS CABLE MOUNTED	WHITE	1 - 27.6W LED 35K	0 - 10V DIMMING 0.01	27.6	LITE CONTROL - 4L-P-D-6FT-06-SOF-C1-35K9-D055-D01-IC-UNV-FA1-	PENDANT	
L09	15.5' DECORATIVE PENDANT BARREL WITH OPTION FINISHES FOR INSIDEAND EXTERIOR	TBD	1 - 11W LED 35K	0 - 10V DIMMING		BROWNEE - 2670-16-FINISH-R11-FINISH-CORD-35K	PENDANT	
L10	WALL SCONCE WITH PERFORATED METAL LENS 11 1/2IN TALL BY 10 1/2IN WIDE	STANDARD FINISHES	1 - 21W LED 35K	0 - 10V DIMMING	21	BROWNLEE - CB250-L35KH-MVOLT-FINISH	WALL	
I 11	PERIMETER TROUGH SYSTEM 2 1/2IN APERTURE WITH WALL GRAZING OPTICS WALL TO WALL COVERAGE	WHITE	1 - 3.8W/FT LED 35K	0 - 10V DIMMING 0.01	3.8W/FT	PRUDENTIAL - BPRO3-PER-FLSH-LED35-LO-R-TMW-MGZ-WTW-SC-UNV-X(TBD)-DM01CONTRACTOR TO VERIFY FINAL WALL MEASUREMENTS PRIOR TO ORDERING	RECESSED	
L12A	10FT DIAMETER RING 2.5IN APERTURE WITH DIRECT OPTIC	WHITE	1 - 236.8W LED 35K	0 - 10V DIMMING 0.01	236.8	BASO-CIRCLE 2.5-PDT-WH-OP-35K-C80-UNV-010V-0750LF-SC-DM120	PENDANT	
				0 - 10V DIMMING				
L12B	4FT DIAMETER RING 2.5IN APERTURE SURFACE MOUNT	WHITE	1 - 97.7W LED 35K	0.01 0 - 10V DIMMING	97.7	BASO - CIRCLE-2.5-SUR-WH-OP-35K-C80-UNV-010V-0750LF-SC-DM48	SURFACE	
L12C	3FT DIAMETER RING 2.5IN APERTURE SURFACE MOUNT	WHITE	1 - 74W LED 35K	0.01 0 - 10V DIMMING	74	BASO-CIRCLE 2.5-SUR-WH-OP-35K-C80-UNV-010V-0750LF-SC-DM36	SURFACE	
L13A	4FT DIAMETER ROUND PENDANT WITH OFF CENTER HOLE WITH SATIN LENS	PREMIUM COLOR	1 -97W LED 35K	0.01 0 - 10V DIMMING	97	PRUDENTIAL - OLV-40-LED35-MO-FWA-Y(TBD)-D1-SC-UNV-CA48-X(TBD)-DM01	PENDANT	
L13B	3FT DIAMETER ROUND PENDANT WITH SATIN LENS	PREMIUM COLOR	1 - 56W LED 35K	0.01	56	PRUDENTIAL - P4030-LED35-LO-FWA-Y(XX)-D1-SC-UNV-CA48-X(TBD)-DM01	PENDANT	
L13C	2FT DIAMETER ROUND PENDANT WITH SATIN LENS	PREMIUM COLOR	1 - 35W LED 35K	0 - 10V DIMMING 0.01	35	PRUDENTIAL - P4020-LED35-LO-FWA-Y(XX)-D1-SC-UNV-CA48-X(TBD)-DM01	PENDANT	
L13D	18IN DIAMETER ROUND PENDANT WITH SATIN LENS	PREMIUM COLOR	1 - 19W LED 35K	0 - 10V DIMMING 0.01	19	PRUDENTIAL - P4018-LED35-LO-FWA-Y(XX)-D1-SC-UNV-CA48-X(TBD)-DM01	PENDANT	
L13F	2FT DIAMETER ROUND SURFACE WITH SATIN LENS	PREMIUM COLOR	1 - 76.2W LED 35K	0 - 10V DIMMING 0.01	76.2	PRUDENTIAL - P4020-LED35-PROG5500LUMENS -FWA-Y(XX)-D1-SC-UNV-SUR-X(TBD)-DM01	SURFACE	
	2 1/4IN DIAMETER STACK LIGHT WITH CUSTOM ARMS MOUNTED INTOLIBRARY STACKS	STANDAR FINISH	1 - 4W/FT LED 35K	0 - 10V DIMMING	4WFT	BARTCO - BSS510-35-D-PROG 450LUMENS/FT-CF-FINISHLIGHTING TO BE PROVIDED BY STACK MANUFACTUREF		
				0 - 10V DIMMING				
L15	LINEAR LED 1.38IN WIDE BY .75 TALL WITH REMOTE DRIVERS	WHITE	1 - 6.6W/FT LED 35K	0.01 0 - 10V DIMMING	6.6W/FT	VODE-707-Z2-SL-ROW-ROW-TBD-0-AEO-2-ZZ-Z-SO-35-F5-0-WH-0-	SURFACE	
L16	2IN LED RECESSED DOWNLIGHT WITH MICROFLANGE	STANDARD FINISHES	1 - 25W LED 35K	0.01 0 - 10V DIMMING	25	KURT VERSEN - NOR-2.5R-DL-NHN-25-935K-WD-DM1-N-U-RMB-NOR-2.5R-DS-TRM-FINISH-FINISH-SOL	RECESSED	
L17A	LINEAR RECESSED LED WITH 4IN APERTURE WITH SATIN LENS	WHITE	1 - 9.5W/FT LED 35K	0.01	9.5W/FT	LITE CONTROL - 4L-TBD-D-ROW-SOF-C1-35K9-D115-D01-IC-UNV-	RECESSED	
L18	UNDERCABINET LIGHTING IN 1FT, 2FT, 3FT AND 4FT LENGTHS	WHITE	1 - 5W/FT LED 3K	0-10V DIMMING 0 - 10V DIMMING	5W/FT	CORE LIGHTING -USB-ROW-30K-SI-24PROVIDE ALL NECESSARY ACCESSORIES FOR INSTALL AND DRIVERS	SURFACE	
L19	LINEAR CURVE DIRECT PENDANT 44FT LONG CUSTOM CURVE	FINISH	1 - 189.2W/FT LED 35K	0.01	189.2	BASO-CURVE-2.5-PDT-XX-OP-35K-C80-UNV-010V-0500LF-SC-44FT	PENDANT	
L20	COVE IN A BOX PERIMETER	WHITE	1 - 6.5W/FT LED 35K	0 - 10V DIMMING 0.01	6.5W/FT	PRUDENTIAL - P59-A6-LED35-MO-R-W-SC-UNV-X(TBD)-DM01	RECESSED	
L21A	16IN LED DECORATIVE ROUND PENDANT WITH RECESSED LENSWITH OPTIONAL FINISHES INTERIOR AND EXTERIOR	FINISH TBD	1 - 11W LED 35K	0 - 10V DIMMING 0.01	11	BROWNLEE - 2680-16-FINISH-R11-FINISH-CC1-CORD-35K	PENDANT	
L21B	20IN LED DECORATIVE ROUND PENDANT WITH RECESSED LENSWITH OPTIONAL FINISHES INTERIOR AND EXTERIOR	FINISH TBD	1 - 34W LED 35K	0 - 10V DIMMING 0.01	34	BROWNLEE - 2680-20-FINISH-R34-FINISH-CC1-CORD-35K	PENDANT	
	30IN LED DECORATIVE ROUND PENDANT WITH RECESSED LENSWITH OPTIONAL FINISHES INTERIOR AND EXTERIOR	FINISH TBD	1 - 49W LED 35K	0 - 10V DIMMING 0.01	49	BROWNLEE - 2680-30-FINISH-S49-FINISH-CC1-CORD-35K	PENDANT	
	DECORATIVE SURFACE MOUNT BARREL 16IN OPTIONAL FINISH FOR INTERIOR AND							
	DECORATIVE SURFACE MOUNT BARREL 19IN OPTIONAL FINISH FOR INTERIOR AND	FINISH TBD	1 - 23W LED 3K	0 - 10V DIMMING		BROWNLEE - 2470-16-FINISH-R22-FINISH-35K	SURFACE	
L24B	DECORATIVE PENDANT MOUNT BARREL 16IN OPTIONAL FINISH FOR INTERIOR AND	FINISH TBD	1 - 32W LED 3K	0 - 10V DIMMING	32	BROWNLEE - 2472-19-FINISH-L32-FINISH-35K	SURFACE	
L24C	EXTERIOR DECORATIVE PENDANT MOUNT BARREL 24IN OPTIONAL FINISH FOR INTERIOR AND	FINISH TBD	1 - 18W LED 3K	0 - 10V DIMMING	18	BROWNLEE - 2670-16-FINISH-18-FINISH-35K-CE2	PENDANT	
L24D	EXTERIOR	FINISH TBD	1 - 49W LED 3K	0 - 10V DIMMING	49	BROWNLEE - 2672-24-FINISH-R49-FINISH-35K-CE2	PENDANT	
L24F	DECORATIVE PENDANT MOUNT BARREL 19IN OPTIONAL FINISH FOR INTERIOR AND EXTERIOR	FINISH TBD	1 - 32W LED 3K	0 - 10V DIMMING	32	BROWNLEE - 2672-19-FINISH-L32-FINISH-35K-CE2	PENDANT	
L25	4IN LED CYLINDER SUSPENDED	STANDARD FINISH	1 -18.6W LED 35K	0 - 10V DIMMING	18.6	PRESCOLITE - LTC-4RD-P(TBD)-15L-35K-8-XW-DM1-SS-FINISH-, FINISH ESTIMATED AT 2FT CONTRACTOR TO CONFIRM LEVEL TO BLADES	PENDANT	
L28	6FT CABLE MOUNTED CURVED 1.38' WIDE .06" TALL	BLACK	1 - 22.8 LED 35K	0 - 10V DIMMING	22.8	VODE - 707-Z2-S-72-72-CC-ZZ-AE-2-Z-LO-35-S4-0FIXTURE MOUNTED 10.5FT AFF ESTMATED LENGTH AROUND 10FT CONTRACTOR TO CONFIRM EXACT LENGTH	PENDANT	
	GROUP OF 6 LINEAR TRANGLE GLOW PENDANTS	WHITE	1 - 91.8W LED 35K	0 - 10V DIMMING		VIBIA - 2342-03	PENDANT	
L30	17.5IN DOME PENDANT LIGHT OPTIONAL INTERIOR AND EXTERIOR FINISH	FINISH TBD	1 - 23W LED 35K	0 - 10V DIMMING		DELRAY - IL793-FINISH-W35-L-TBD-D-XP	PENDANT	
L31A	SMALL LINEAR WRAP CURVED LENS WITH LIBRARY STACK OPTICS	WHITE	1 - 5.1W/FT LED 35K	0 - 10V DIMMING	5.1W/FT	PRUDENTIAL - R1-PRO-LED35-PROG 720LUMENS/FT-ROW-LLP-TMW-CA48-(X)-DM01	PENDANT	
L31B	SMALL LINEAR WRAP CURVED LENS WITH LIBRARY SATIN LENS	WHITE	1 - 5.1W/FT LED 35K	0 - 10V DIMMING	5.1W/FT	PRUDENTIAL - R1-PRO-LED35-PROG 720LUMENS/FT-ROW-SAL-TMW-CA48-(X)-DM01	PENDANT	
L32	17.5IN DOME PENDANT LIGHT OPTIONAL INTERIOR AND EXTERIOR FINISH	FINISH TBD	1 -32W LED 35K	0 - 10V DIMMING	32	DELRAY - IL793-FINISH-FINISH-W35-L-TBD-D-	PENDANT	
L33A	CIRCUAR PENDANTS GROUP OF 2 TO MATCH L29 SERIES	WHITE	1 - 4W LED 3K	0 - 10V DIMMING	46	VIBIA - 2331-03	PENDANT	
L33B	CIRCUAR PENDANTS GROUP OF 3 TO MATCH L29 SERIES	WHITE	1 - 69W LED 3K	0 - 10V DIMMING INTEGRAL	69	VIBIA - 2332-03	PENDANT	
				DAYLIGHT OCCPANCY				

STANDARD FINISH

1 - 36.9W LED 4K

SENSOR

BEACON - RWL1-48L-35-4K7-4W-FINISH-SCP

LIGHTING FIXTURE SCHEDULE

<u>LIGHTING FIXTURE GENERAL NOTES:</u>

- 1. FIXTURES SHALL HAVE APPROPRIATE UL LABEL, DAMP, OR WET AS REQUIRED BY CODES AND ORDINANCES. 2. LIGHTING FIXTURE CATALOG NUMBERS ARE SERIES TYPE ONLY. PROVIDE ALL NECESSARY HARDWARE AS REQUIRED BY THE SPECIFICATIONS, DRAWINGS, AND PROJECT CONDITIONS FOR A COMPLETE AND OPERABLE
- PRIOR TO ORDERING ANY LIGHTING EQUIPMENT, THE CONTRACTOR SHALL COORDINATE ALL FIXTURE LOCATIONS WITH ARCHITECTURAL REFLECTED CEILING PLANS AND CEILING CAVITY DEPTHS.
- CONTRACTOR SHALL COORDINATE ALL FIXTURE TYPE(S), LOCATION(S), LENGTHS, AND QUANTITY WITH ARCHITECTURAL DRAWINGS PRIOR TO PURCHASE OF FIXTURES. IF THERE IS A DISCREPANCY BETWEEN EACH DISCIPLINES DRAWINGS CONTRACTOR TO CONTACT ARCHITECT AND/OR ENGINEERING PRIOR TO PURCHASE OF
- CONTRACTOR SHALL VERIFY FIXTURE VOLTAGES AND CEILING TRIM COMPATIBILITY PRIOR TO ORDERING FIXTURE INCLUDING SLOPED CEILING ADAPTERS SUCH THAT RECESSED DOWN LIGHT FIXTURE LENSES ARE INSTALLED FLUSH WITH CEILING.
- 6. PROVIDE APPROVED FIRE-RATED ENCLOSURES FOR ALL LIGHTING FIXTURES LOCATED IN FIRE-RATED
- 7. ENSURE COMPATIBILITY OF ALL LIGHTING SYSTEM COMPONENTS SUCH AS DIMMING SYSTEMS. FIXTURES, LAMPS, BALLAST(S)/ DRIVER(S), DIMMING PROTOCOL, AND DIMMING SYSTEMS/INDIVIDUAL CONTROLS MUST BE FACTORY CERTIFIED COMPATIBLE FOR FULL RANGE OF DIMMING COMPATIBILITY.
- PROVIDE CLEARANCES FROM COMBUSTIBLES A MINIMUM OF 1/2" (OTHER THAN AT POINTS OF SUPPORT) AND 3" FROM INSULATION FOR RECESSED LIGHTING FIXTURES WHICH MUST BE NON-IC RATED.
- 9. PROVIDE A MINIMUM OF TWO (2) #12 SUPPORT WIRES ATTACHED TO BUILDING FRAME IN ADDITION TO
- T-BAR CLIPS FOR FIXTURES RECESSED IN SUSPENDED T-BAR CEILING. 10. PROVIDE (4) SHEET METAL SCREWS, ONE INSTALLED IN EACH CORNER OF THE FIXTURE ATTACHING THE
- FIXTURE TO THE GRID. SCREWS SHALL NOT BE VISIBLE NOR IMPEDE INSTALLATION OF GRID PANELS.
- 11. PROVIDE DOOR-TO-FRAME AND LENS-TO-DOOR CASKETING, INVERTED LENS, AND FOOD SERVICE RATING FOR ALL FIXTURES LOCATED IN FOOD SERVICE AREAS.
- 12. FIXTURES SHALL BE ORDERED WITH APPROPRIATE BALLAST(S)/ DRIVER THAT HAVE UL AND CBM LABELS. ALL BALLASTS/ DRIVER MUST CONFORM TO TITLE 24 REQUIREMENTS FOR PERFORMANCE AND EFFICIENCY.
- 13. ALL FIXTURES, TRIMS, REFLECTORS, AND LAMPS SHALL BE CLEANED FREE FROM DIRT, DUST, LABEL
- 14. ALL LIGHT FIXTURES SHALL BE MOUNTED AND SUPPORTED IN ACCORDANCE WITH OSHA STANDARDS AND ALL LOCAL, STATE, AND NATIONAL ELECTRICAL CODES. PROVIDE ALL REQUIRED SEISMIC BRACING FOR SUSPENDED LIGHT FIXTURES.
- 15. PROVIDE LIGHT FIXTURE MOUNTING KITS AS REQUIRED TO SUIT THE EXACT TYPE OF CEILING TO WHICH THEY
- 16. COORDINATE FIXTURE AND TRIM FINISHES WITH ARCHITECT PRIOR TO ORDERING.
- 17. EACH DIMMED CIRCUIT SHALL CARRY A SEPARATE NEUTRAL CONDUCTOR WITH TRACER COLOR TO MATCH PHASE CONDUCTOR.
- 18. ALL NECESSARY EQUIPMENT/ COMPONENTS ARE TO BE PROVIDED BY CONTRACTOR FOR A COMPLETE OPERATING CONTROL SYSTEM. INCLUDING BUT NOT LIMITED TO EMERGENCY LIGHTING, OCCUPANCY SENSOR, DAYLIGHT CONTROLS, AND DIMMING TO MEET ALL REQUIREMENTS OF 2016 CALIFORNIA TITLE 24.
- 19. ALL LIGHTING FIXTURES INSTALLED SHALL BE COMPATIBLE WITH THE LIGHTING CONTROL DEVICES, INCLUDING BUT NOT LIMITED TO ELV DIMMERS, MLV DIMMERS, 0-10V DIMMERS AND SHALL BE INCLUDED IN THE BID
- 20. NONRESIDENTIAL, HIGH-RISE RESIDENTIAL AND HOTEL/ MOTEL BUILDINGS SHALL COMPLY WITH THE APPLICABLE REQUIREMENTS OF CALIFORNIA TITLE 24 SECTIONS 130.4(a) THROUGH 130.4(c). A CERTIFICATE OF ACCEPTANCE SHALL BE SUBMITTED TO THE ENFORCEMENT AGENCY UNDER SECTION 10-103(a) OF PART 1 FOR AUTOMATIC DAY LIGHT CONTROLS AND LIGHTING CONTROLS.
- ELECTRICAL CONTRACTOR SHALL INCLUDE IN THE BASE BID AND CONTRACT INSTALLATION AND COMMISSIONING OF ALL LIGHTING CONTROLS INCLUDING BUT NOT LIMITED TO OCCUPANCY SENSORS, TIMERS, DIMMING CONTROLS, AND DAY-LIT ZONE CONTROLS. CONTRACTOR IS ALSO REQUIRED TO VERIFY THAT THE LIGHTING CONTROLS ARE ADJUSTED, PROGRAMMED AND FUNCTIONING IN ACCORDANCE WITH THE DESIGN AND
- 22. CONTRACTOR IS RESPONSIBLE FOR SUBMITTING DOCUMENTATION (INSTALLATION FORMS [NRCI]) CERTIFYING THAT THE LIGHTING SYSTEMS ARE IN COMPLIANCE WITH OR EXCEED THE PERFORMANCE REQUIREMENTS. CONTRACTOR SHALL ALSO FURNISH CEC T24 REQUIRED FUNCTIONAL PERFORMANCE TESTING BY A CERTIFIED LIGHTING CONTROLS TEST TECHNICIAN (CALCATT) AND/ OR SUBMIT DOCUMENTATION (ACCEPTANCE FORMS
- 23. ALL LIGHTING CONTROLS AND EQUIPMENT SHALL COMPLY WITH THE APPLICABLE REQUIREMENTS IN CALIFORNIA ENERGY CODE 110.9 AND STALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTION IN ACCORDANCE WITH SECTION 130.1.
- 24. FOR LED FIXTURES, THE DRIVER, LED AND FIXTURE SHALL BE FULLY UL CERTIFIED AS A SYSTEM, INCLUDING ANY OPTIONAL EMERGENCY BATTERY PACKS, SPECIAL DRIVERS (DIMMING). COMPONENTS LISTED DISCRETELY
- 25. PHOTOMETRIC TESTING FOR ALL LED FIXTURES SHALL BE FOR IES LM-70-80 AND TEST REPORTS SHALL BE INCLUDED WITH ALL FIXTURES SUBMITTALS.
- 26. LUMEN MAINTENANCE REPORTS (IES LM-80) REPORTS ARE ALSO REQUIRED WITH ALL LED FIXTURE SUBMITTALS. LM-80 RESULTS ARE TO INCLUDE A MINIMUM OF 10,000 HOURS TESTING AND REFERENCED TO
- TM-21 FOR TOTAL LUMEN MAINTENANCE. NO EXTRAPOLATED L-70 ESTIMATES WILL BE ACCEPTED. 27. PROVIDE A MINIMUM 5 YEAR WARRANTY ON AN LED FIXTURES.
- 28. PROVIDE STANDARD DEVIATION OF COLOR MATCHING (SDCM) BASED ON THE MAC ADAM ELLIPSE, AND NUMBER'S OR QUANTITIES OF ELLIPSE VARIATIONS FOR LED COLOR ACCURACY.
- 29. ALL LED FIXTURES SUBMITTALS SHALL INCLUDE DATA ON LED CHIP MANUFACTURER AND CHIP DATA, AS WELL AS DRIVER MANUFACTURER, DATA AND CUT SHEETS.
- 30. LAMPS SHALL BE PROVIDED AND INSTALLED ACCORDING TO THIS FIXTURE SCHEDULE AND PROJECT
- SPECIFICATIONS. ENSURE COMPATIBILITY BETWEEN FIXTURE, LAMP AND BALLAST(S).
- 31. FLUORESCENT FIXTURES TO BE SUPPLIED WITH "QUICK DISCONNECT" SAFETY BALLAST HARDWARE WHICH ARE UL AND CSA CERTIFIED IN ACCORDANCE WITH CEC 410.130(G).
- 32. FLUORESCENT AND HIGH INTENSITY DISCHARGE BALLASTS SHALL BE ELECTRONIC TYPE. PROVIDE END OF LIFE (EOL) SHUT-DOWN PROTECTION FOR COMPACT FLUORESCENT LAMPS.

EMERGENCY LIGHTING NOTES:

LIGHTING IN THAT AREA.

- PROVIDE EMERGENCY REFLECTORS OR HOUSING WHEN OPTION IS AVAILABLE FROM MANUFACTURE TO ALLOW FOR INSTALLATION OF BATTERY PACKS, TEST SWITCHES, PILOT LIGHTS, ETC. WITHIN FIXTURES. WHEN OPTIONAL EMERGENCY REFLECTORS OR HOUSINGS ARE NOT AVAILABLE, REMOTE BATTERY PACKS, TEST SWITCHES, PILOT LIGHTS, ETC. ARE TO BE INSTALLED IN THE MOST CONSPICUOUS LOCATION AS ALLOWED BY CODE AND LOCAL AHJ REQUIREMENTS. COORDINATE LOCATION WITH ARCHITECT AND/OR ELECTRICAL ENGINEER PRIOR TO ANY ROUGH-IN.
- ALL NIGHT LIGHTS, BATTERY PACKS AND EXIT SIGNS SHALL CONTAIN AN UNSWITCHED, UNDIMMED, HOT CONDUCTOR AND BE IN COMPLIANCE WITH CEC ARTICLE 700
- SHALL BE INSPECTED AND TESTED AS DESCRIBED IN THE 2016 CEC SECTION 604.6 AND 604.7. THE BRANCH CIRCUIT FEEDING EMERGENCY EQUIPMENT (EMERGENCY LIGHT WITH SELF-CONTAINED RECHARGEABLE BATTERY) SHALL BE THE SAME BRANCH CIRCUIT AS THAT SERVING THE NORMAL
- LIGHTING SYSTEMS WITH SELF-CONTAINED RECHARGEABLE BATTERY SHALL MEET CEC TITLE 20 REQUIREMENTS.

SUBSTITUTION NOTES:

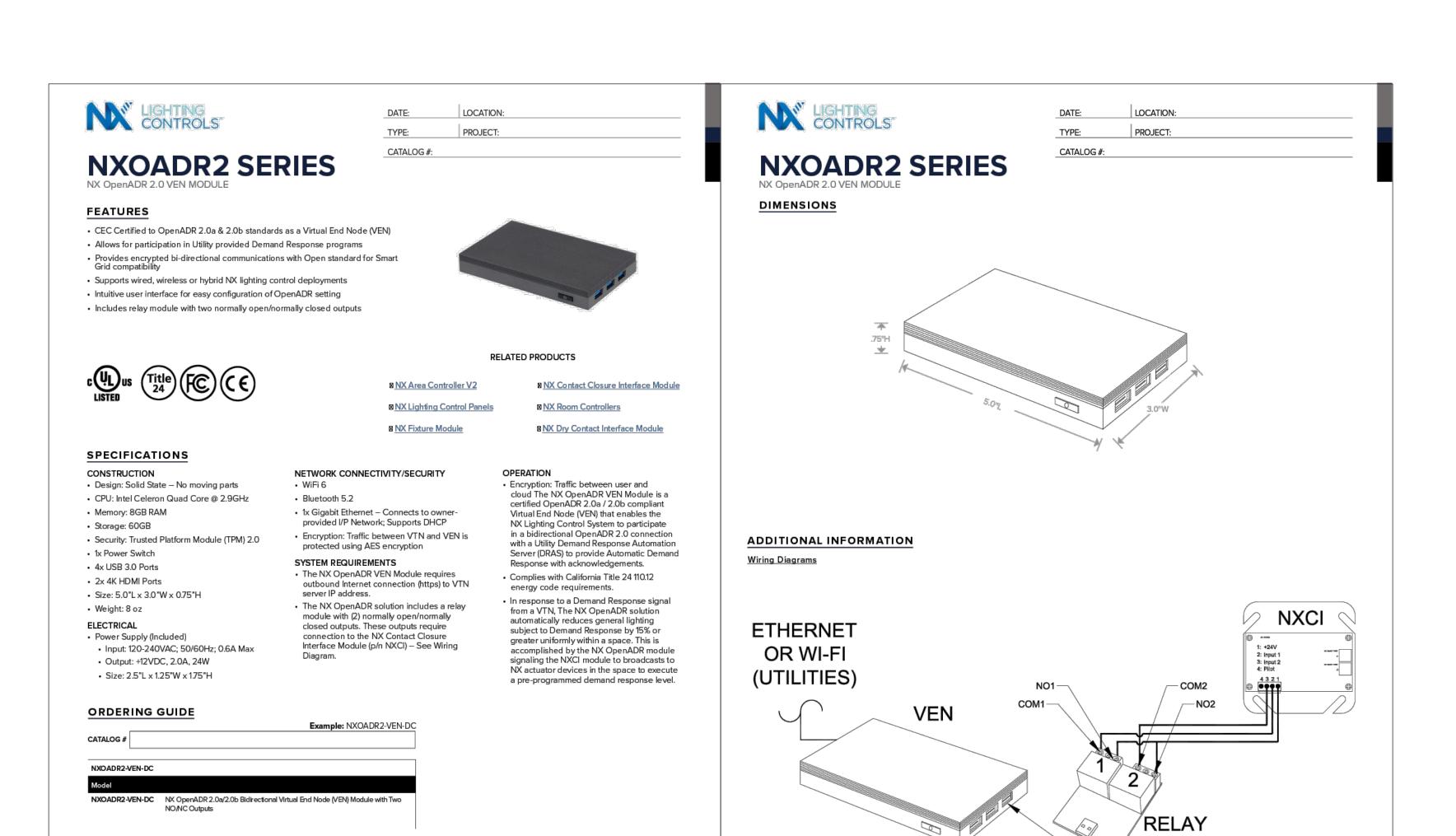
- ALL SUBSTITUTIONS MUST BE APPROVED BY THE ARCHITECT AND ELECTRICAL ENGINEER, PRIOR TO SUBSTITUTIONS, THE FOLLOWING MUST BE PROVIDED (15) DAYS PRIOR TO BID TIME:
 - COMPLETE AND OPERABLE SAMPLES OF SUBSTITUTIONS CONTAINING 120V CORD AND PLUG CONNECTIONS, ALONG WITH CURRENT MANUFACTURE'S DATA SHEETS.

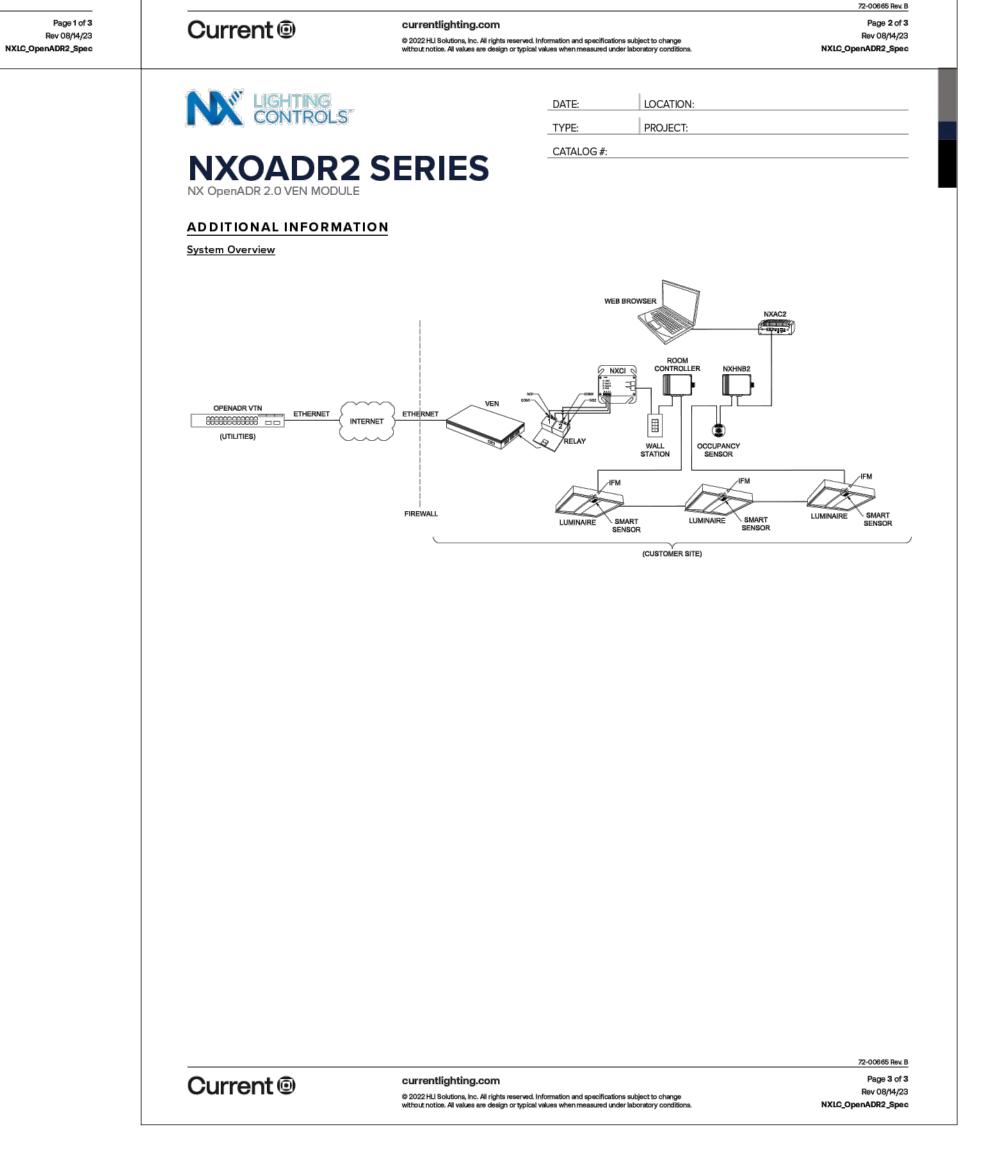
OUTPUT AND LIGHT LOSS FACTOR VALUES TO BE DICTATED BY EEOR FOR THIS STUDY.

- PHOTOMETRIC STUDIES UTILIZING IES STANDARD PHOTOMETRIC DATA AND SOFTWARE FOR THIS PROJECT USING PROPOSED SUBSTITUTIONS FIXTURES TO ENSURE DESIGN INTENT IS MET. LUMEN
- WHEN APPLICABLE, PHOTOMETRIC STUDIES OF EMERGENCY LIGHTING APPLICATIONS FOR ALL REQUIRED AREAS IN THIS PROJECT UTILIZING PROPOSED SUBSTITUTIONS. BATTERY LUMEN OUTPUT VALUES TO BE BASED ON EMERGENCY LIGHTING NOTES CONTAINED HERE WITHIN.

FULL CUTOFF WALL SCONCE

LIGHTING CONTROL







LIGHTING CONTROL PANEL DIAGRAM CIRCUIT PER PLANS ----- TO NEXT "DRC " (1) MASTER LIGHTING CONTROL PANEL LCF **DIAGRAM NOTES:**

- 1) MASTER LIGHTING CONTROL PANEL. 18-RELAY WITH INTEGRAL ASTRONOMICAL TIMECLOCK, MODEM, AND DEMAND RESPONSE CAPABILITY. SEE ELECTRICAL PLANS FOR PANEL AND PUSHBUTTON LOCATIONS. SEE PUSHBUTTON AND RELAY SCHEDULES FOR CIRCUITS ROUTED VIA THIS RELAY PANEL. PROVIDE WITH PROPER NEC APPROVED AND UL 924 ETL LISTED RELAY RATINGS AND BARRIERS TO SEPARATE LIFE SAFETY EMERGENCY LOADS FROM NORMAL.
- (3) PROVIDE VOICE/DATA OUTLET ADJACENT TO LIGHTING CONTROL PANEL WITH 3/4" CONDUIT [INCLUDING PULLROPE] TO NEAREST VOICE/DATA NETWORK HEAD-END EQUIPMENT ROOM.
- CONNECTION TO NEAREST VOICE/DATA NETWORK HEAD-END EQUIPMENT LOCATION. COORDINATE WITH OWNER'S IT DEPARTMENT PRIOR TO START OF WORK.

- WHEN SELECTED MANUFACTURER / MAKE DOES NOT OFFER APPROPRIATE BARRIERS FOR SEPARATION INDICATED, FURNISH SEPARATE ÉMERGENCY LIGHTING CONTROL PANEL BY SAME MANUFACTURER WITH NUMBER OF RELAYS REQUIRED TO ACCOMMODATE EMERGENCY RELAYS SHOWN IN SCHEDULE. LOCATE EMERGENCY LCP ABOVE NORMAL LCP AND PROVIDE MANUFACTURER REQUIRED CABLING BETWEEN THE TWO.
- ALL DEVICES AND COMPONENTS PROVIDED MUST BE COMPATIBLE WITH SELECTED

TYPICAL ROOM CONTROLLER WIRING DIAGRAM _______ - REQUIRED SCOPE WHEN INTERLOCKING TO BUILDING LIGHTING CONTROL _.._.. LIGHTING CONTROL PANEL ------120V OR 277V 🔪 (LIGHTING) TO NEXT DRC OR TO LCP DIGITAL ROOM CONTROLLER) (RECEPTACLE)

- 1. IT IS ACCEPTABLE FOR LOW VOLTAGE WIRING TO BE INSTALLED WITHIN THE SAME RACEWAY AS THE LINE VOLTAGE WHERE ALLOWED BY CODE AND THE SYSTEM MANUFACTURE AS LONG AS THE LOW-VOLTAGE CABLING IS RATED FOR 600V CLASS
- RELAYS PROVIDED FOR CONTROLLED RECEPTACLES MUST BE RATED FOR 20A AND 1-HP
- DRC FOR SELECTED MANUFACTURER MUST CONTAIN CONTACT RELAY FOR INTERFACING WITH LIGHTING CONTROL PANEL, BUILDING MANAGEMENT SYSTEM, OR DEMAND RESPONSE.
- 4. THE DIAGRAM ABOVE SHOWS POSSIBLE WIRING CONFIGURATIONS NOT ALL THAT IS / ARE
- REQUIRED. FURNISH AND INSTALL WIRING IN ACCORDANCE WITH THE SELECTED MANUFACTURER'S SYSTEM REQUIREMENTS FOR A COMPLETE AND OPERABLE SYSTEM.
- 5. THE ROOM CONTROLLER(S) ASSOCIATED WITH THIS PROJECT:
- ☑ IS/ARE NOT REQUIRED TO BE INTERLOCKED WITH A BUILDING LIGHTING CONTROL PANEL.

- 2 NOT USED.
- COORDINATE WITH OWNER'S IT DEPARTMENT PRIOR TO START OF WORK.
- (4) 3/4"C WITH CATEGORY-5, 4-TWISTED PAIR CABLES.
- (5) OUTDOOR PHOTOCELL LOCATE ON ROOF FACING NORTH.
- (6) PROVIDE 3/4" CONDUIT [INCLUDING PULLROPE] FROM LIGHTING CONTROL PANEL "DR SIGNAL"

NOTES:

- OUTDOOR PHOTOCELL.
- DIGITAL CEILING MOUNT OCCUPANCY SENSOR CONNECTED TO LOCAL ROOM CONTROLLER

- TYPICAL PUSHBUTTON STATION. SEE PUSHBUTTON STATION DETAIL FOR SPECIFICATIONS AND
- WALL MOUNTED DUAL TECHNOLOGY OCCUPANCY SENSOR MOUNTED AT +45" AFF. PROVIDE WATTSTOPPER #DW-100 OR EQUAL.
- ------ PLENUM RATED LOW-VOLTAGE WIRE PER SELECTED MANUFACTURER SPECIFICATIONS AND
- LINE-VOLTAGE WRING REFER TO ELECTRICAL SYMBOLS LIST FOR SPECIFICATIONS.

PURCHASED / INSTALLED DEVICES MUST BE COMPATIBLE WITH SELECTED LIGHTING CONTROL SYSTEM

- GENERAL: PROVIDE INDIVIDUAL CONTROL ZONES FOR EACH MAJOR AREA, AND FOR EACH FIXTURE TYPE. INTERIOR DAYLIGHT HARVESTING: LIGHTING WITHIN DAYLIGHT ZONES [SKYLIT, PRIMARY, AND SECONDARY] SHALL BE PROGRAMMED SUCH THAT ARTIFICIAL DAYLIGHT AUTOMATICALLY DIMS AS NEEDED WHÊN AVAILABLE NATURAL DAYLIGHT CONTRIBUTION RESULTS IN LIGHT LEVELS WITHIN SPACE EXCEEDING 50-FOOTCANDLES AT 30-INCHES AFF. ARTIFICIAL LIGHTING POWER SHALL AUTOMATICALLY
- TIME SCHEDULES: PRIOR TO PROJECT COMPLETION, PROGRAM AND COMMISSION THIS SYSTEM IN ACCORDANCE WITH THE OWNER'S FURNISHED SCHEDULE FOR ALL INTERIOR AND EXTERIOR LIGHTING ZONES. LIGHTS CONTROLLED BY TIMECLOCK SHALL BE PROGRAMMED SO THAT AN OVERRIDE SWITCH IS CAPABLE OF TURNING THE LIGHTS ON FOR 2-HOURS DURING TIMES THAT THE LIGHTS ARE SCHEDULED TO BE OFF. ALL LIGHTING CONTROL STATIONS CONTROLLING TIME CLOCK CONTROLLED LIGHTS SHALL ACT AS OVERRIDE SWITCHES. OVERRIDE ZONES SHALL BE LIMITED TO A MAXIMUM OF 5000SQFT. CONTROL ZONES SHALL BE GROUPED BY AREA USEAGE; CHILDRENS, CIRCULATION, TEENS, ADULT STACKS, ADULT TECH, AIRC RESEARCH, READING AREA.
- CORRIDOR LIGHTING: SYSTEM SHALL BE PROGRAMMED SUCH THAT CORRIDOR LIGHTS ARE DIMMED DOWN 50% WHEN NO ACTIVITY IS DETECTED BY THE CORRIDOR OCCUPANCY SENSOR(S). LIGHTS SHALL RETURN TO 100% UPON OCCUPANCY BEING DETECTED.
- PRIVATE OFFICES: SYSTEM SHALL BE PROGRAMMED SUCH THAT LIGHTS ARE TURNED OFF WHEN NO ACTIVITY IS DETECTED BY THE OCCUPANCY SENSOR(S). LIGHTS SHALL TURN ON TO 70% BRIGHTNESS UPON OCCUPANCY BEING DETECTED.
- MEETING ROOMS: SYSTEM SHALL BE PROGRAMMED SUCH THAT LIGHTS ARE TURNED OFF WHEN NO ACTIVITY IS DETECTED BY THE OCCUPANCY SENSOR(S). LIGHTS SHALL TURN ON TO 70% BRIGHTNESS UPON OCCUPANCY BEING DETECTED.
- STAFF AREAS: SYSTEM SHALL BE PROGRAMMED SUCH THAT LIGHTS ARE TURNED OFF WHEN NO ACTIVITY IS DETECTED BY THE OCCUPANCY SENSOR(S). LIGHTS SHALL TURN ON TO 70% BRIGHTNESS UPON OCCUPANCY BEING DETECTED.
- PUBLIC LIBRARY (OPEN AREA); LIGHTS SHALL BE PROGRAMMED TO DIM PER AVAILABLE NATURAL LIGHTING. LIGHTS SHALL BE PROGRAMMED TO TURN ON/OFF PER TIME BASED SCHEDULING. PROVIDE INDIVIDUAL CONTROL ZONES FOR EACH MAJOR AREA, AND FOR EACH FIXTURE TYPE.
- EXTERIOR LIGHTING: LIGHTS SHALL BE CONTROLLED BY ASTRONOMICAL TIMECLOCK. LIGHTS CONTROLLED BY MOTION SENSORS SHALL DIM DOWN TO 50% WHEN NO MOTION IS DETECTED. LIGHTS SHALL RETURN TO FULL BRIGHTNESS WHEN MOTION IS DETECTED.
- 10. <u>DEMAND RESPONSE</u>: LIGHTING CONTROL PANEL SHALL BE PROGRAMMED SO THAT IN RESPONSE TO A DEMAND RESPONSE SIGNAL THE LIGHTS SHALL REDUCE BY 15% POWER USEAGE IN COMPLIANCE WITH

LIGHTING CONTROL SYSTEM SPECIFICATIONS ELECTRICAL CONTRACTOR SHALL PROVIDE ALL REQUIRED LOW-VOLTAGE CABLING, HARDWARE,

ACCESSORIES, MODULES, DEVICES, CONTROLLERS, ETC. (SHOWN OR NOT SHOWN) FOR A COMPLETE AND OPERABLE SYSTEM TO ACCOMMODATE THE TOTAL NUMBER OF CONTROL POINTS AND MEET THE DESIGN INTENT IDENTIFIED IN THESE CONSTRUCTION DOCUMENTS, INCLUDING THE SEQUENCE OF OPERATIONS.

ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR FURNISHING ALL PLANS ASSOCIATED WITH THE LIGHTING AND CONTROLS SYSTEMS (FIXTURE SCHEDULE, PLANS, DETAILS, ETC.) TO THE REQUIRED PARTIES

- CONTROLS SYSTEM LAYOUT: THE FLOOR/CEILING PLANS IDENTIFIED IN THIS DETAIL SHEET ARE TYPICAL ONLY. ELECTRICAL CONTRACTOR AND SELECTED MANUFACTURER ARE RESPONSIBLE FOR ADAPTING THE ACTUAL LIGHTING AND CONTROLS SYSTEM TO THE ACTUAL CONDITIONS OF THIS PROJECT.
- SYSTEM CONTROLLING MULTIPLE SPACES: A SYSTEM CONTROLLING MULTIPLE SPACES (I.E., ONE CONTROLLER FOR TWO OFFICES, CLASSROOMS, ETC.) IS ACCEPTABLE HOWEVER A MAXIMUM OF TWO SPACES PER CONTROLLER SHALL NOT BE EXCEEDED. IN ALL CASES, PROPER SIGNAGE SHALL BE PROVIDED WITHIN THE SPACE TO IDENTIFY LOCATION OF IT'S CONTROLLER.

(DISTRIBUTORS, VENDORS, ETC.) FOR AN ACCURATE ALL-INCLUSIVE BID.

ACCEPTABLE MANUFACTURER'S AND SYSTEMS: a.CURRENT LIGHTING - NX CONTROL b.OR APPROVED EQUAL

FOLLOWING INFORMATION:

- SUBMITTALS: SUBMITTALS FOR THE LIGHTING CONTROL PACKAGE MUST BE PROVIDED TO INCLUDE THE
 - a.PROPOSED MANUFACTURER AND SYSTEM IN ACCORDANCE WITH THESE SPECIFICATIONS.
- b.PROPOSED CONTROLS SYSTEM LAYOUT SHOWING TYPES AND LOCATIONS FOR ALL DEVICES, LOW-VOLTAGE CABLING, ETC. ASSOCIATED WITH AND SPECIFIC TO THIS PROJECT.
- c. RISER/SINGLE LINE DIAGRAMS SHOWING COMPLETE SYSTEM LAYOUT AND CONNECTIVITY.
- d.OWNER'S DESIRED ON / OFF TIME SCHEDULES FOR ALL INTERIOR AND EXTERIOR CONTROL ZONES.
- WARRANTY, SUPPORT. AND COMMISSIONING: IN ADDITION TO MINIMUM 1-YEAR MANUFACTURER'S WARRANTY, INCLUDE IN BID ALL REQUIRED TECHNICAL SUPPORT AND COMMISSIONING BY THE MANUFACTURER TO SUCCESSFULLY EXECUTE AND MEET THE DESIGN INTENT OF THIS COMPLETE CONSTRUCTION DOCUMENT PACKAGE.
- ALTERNATES: APPROVAL FOR ALTERNATE SYSTEMS IS REQUIRED PRIOR TO BID. SUBMIT PRIOR (15) DAYS PRIOR TO BID DEADLINE FOR PROPOSED ALTERNATE SYSTEM ALL INFORMATION IDENTIFIED IN ITEM #7
- EMERGENCY LIGHTING: FURNISH AND INSTALL COMPONENTS AND WIRING NECESSARY TO PROVIDE A COMPLETE AND OPERABLE EMERGENCY LIGHTING SYSTEM IN ACCORDANCE WITH THE SELECTED MANUFACTURER'S REQUIREMENTS TO ACCOMMODATE THE BACKUP POWER SOURCE(S) PROVIDED IN THIS PROJECT [GENERATOR VS. BATTERY PACKS VS. INVERTER]. INCLUDE SHUNT RELAY DEVICES AND/OR SEPARATE DRC DEVICES AS NEEDED. INSTALLED LIGHTING CONTROL SYSTEM SHALL BE WIRED, CONFIGURED, PROGRAMMED, AND PROVIDED SUCH THAT DESIGNATED EMERGENCY LIGHTS RETURN TO FULL-BRIGHTNESS AUTOMATICALLY IN THE EVENT OF A POWER LOSS.
- DEMAND RESPONSE: LIGHTING CONTROL PANEL SHALL BE DEMAND RESPONSE ADR COMPATIBLE.

LIGHTING CONTROL SYSTEM LEGEND

- DIGITAL ROOM CONTROLLER. MINIMUM 2-RELAY POWER PACK TYPE ROOM CONTROLLER (1 RELAY FOR LIGHTING, 1 RELAY FOR POWER MINIMUM). TO BE MOUNTED ABOVE DOOR SERVING AS ENTRANCE TO SPACE IN WHICH LIGHTING IS CONTROLLED BY THIS DRC. LOCATE IN ACCESSIBLE T-BAR SPACE ABOVE DOOR. WHERE CEILING IS HARD-LID, INSTALL IN CEILING AND PROVIDE ACCESS PANEL.
- EMERGENCY DIGITAL ROOM CONTROLLER. RELAY POWER PACK TYPE ROOM CONTROLLER WITH INTEGRAL UL924 RELAY FOR LIFE SAFETY LIGHTING. TO BE MOUNTED ABOVE DOOR SERVING AS ENTRANCE TO SPACE IN WHICH LIGHTING IS CONTROLLED BY THIS DRC. LOCATE IN ACCESSIBLE T-BAR SPACE ABOVE DOOR. WHERE CEILING IS HARD-LID, INSTALL IN CEILING AND PROVIDE ACCESS
- CEILING MOUNTED INDOOR PHOTOCELL.

- WALL-MOUNTED LOW VOLTAGE DIMMER STATION.
- WALL-MOUNTED LOW VOLTAGE KEYED SWITCH.
- PUSHBUTTON SCHEDULE FOR PROGRAMMING INFORMATION. ELECTRICAL CONTRACTOR TO INCLUDE PUSHBUTTON CONTROL WIRE ROUTING IN AS-BUILT DOCUMENTATION.
- REQUIREMENTS. CABLING TO BE FURNISHED AND INSTALLED BY THIS CONTRACTOR.

LIGHTING CONTROL SYSTEM SEQUENCE OF OPERATIONS

- INCREASE AS NATURAL DAYLIGHT DECREASES AND LIGHT LEVELS FALL BELOW 50-FOOTCANDLES.

- CALIFORNIA BUILDING ENERGY EFFICIENCY STANDARDS (TITLE 24) SECTION 110.12(c).

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Current @

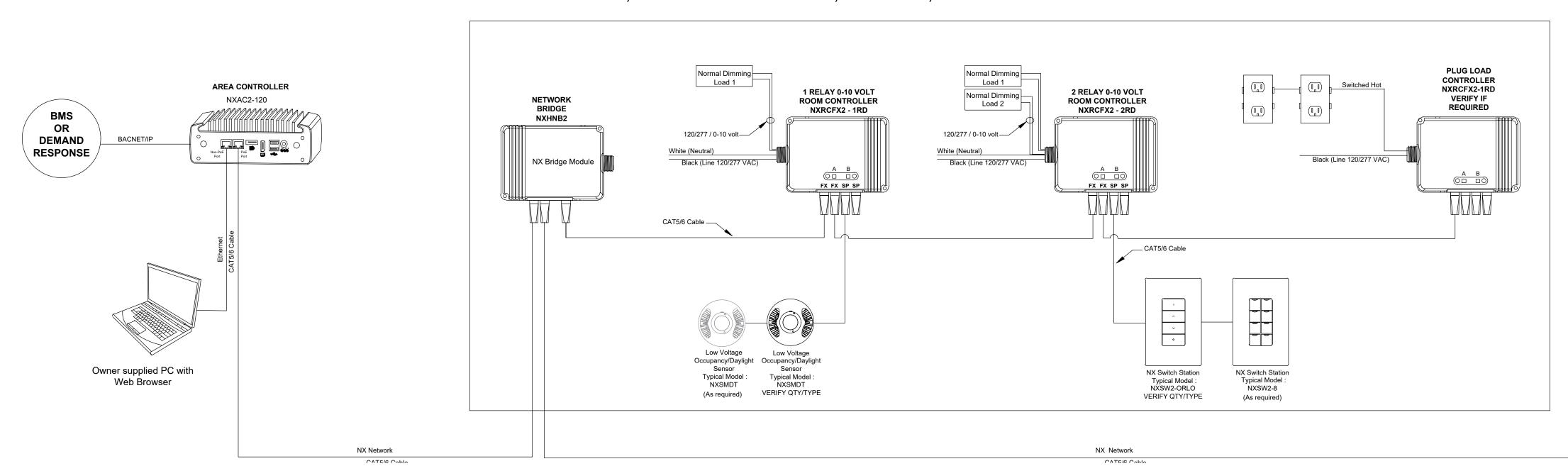
LCP FOR EXTERIOR LOADS

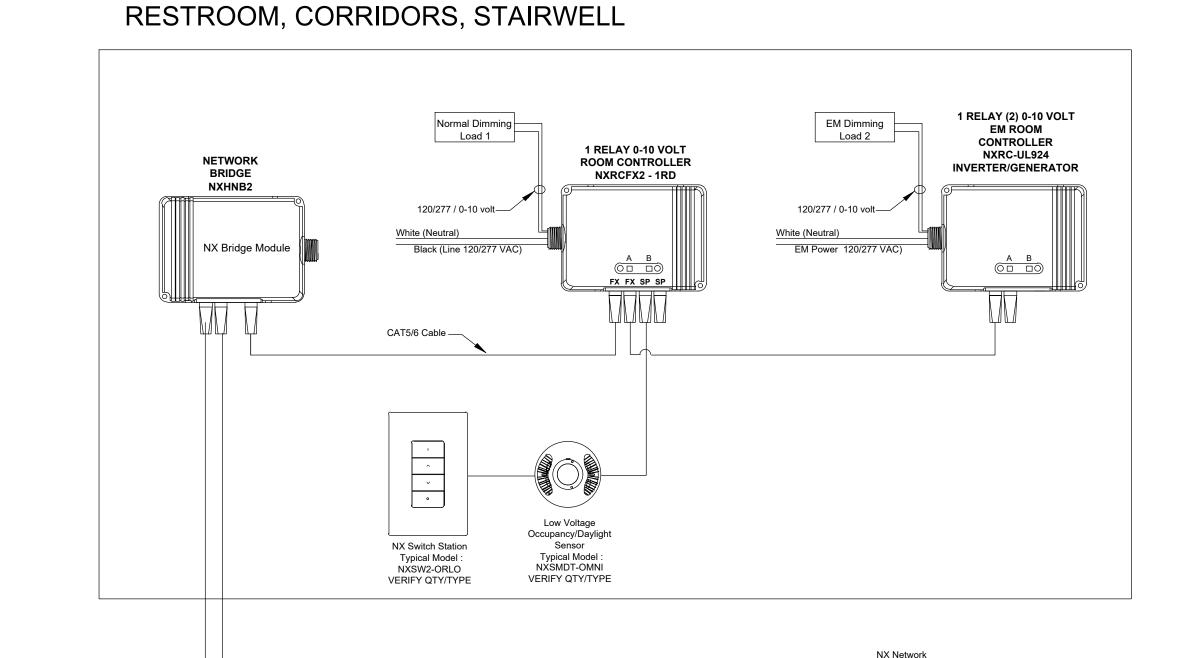
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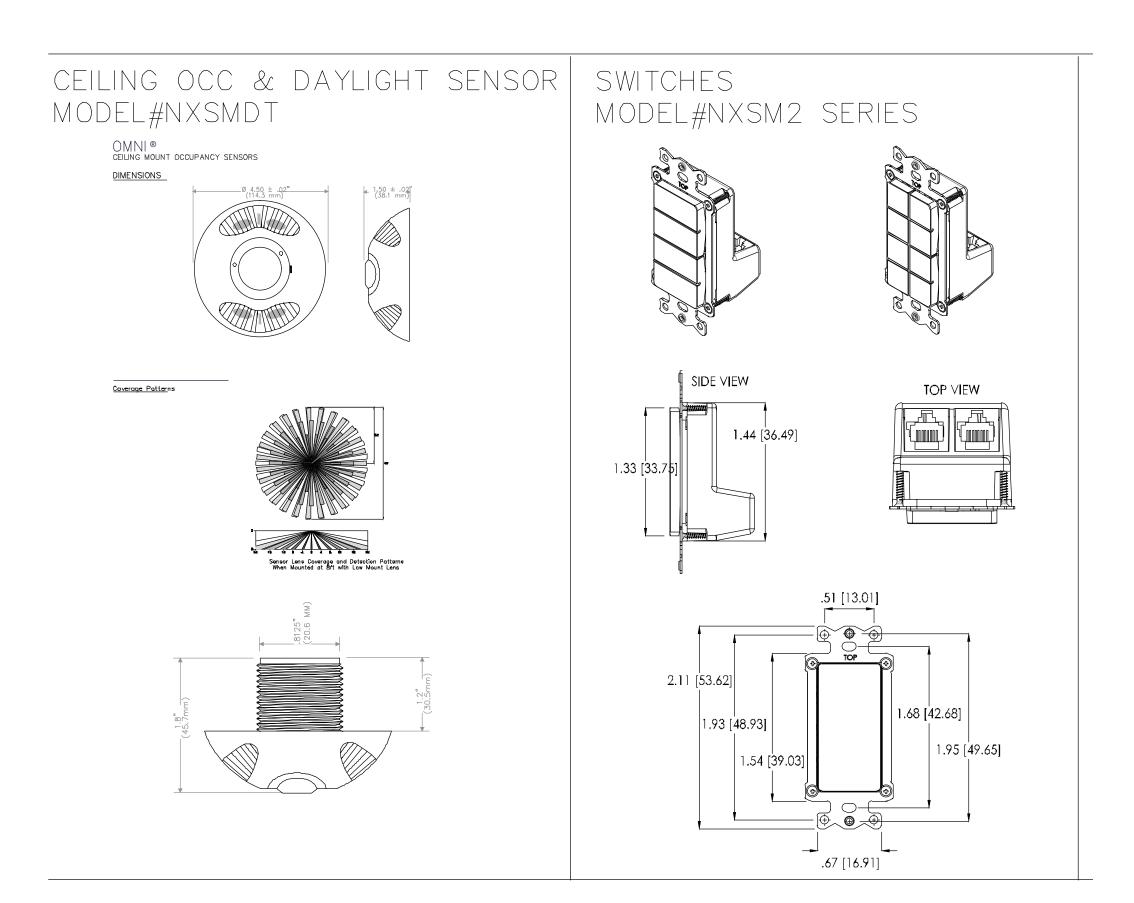
LIGHTING CONTROL

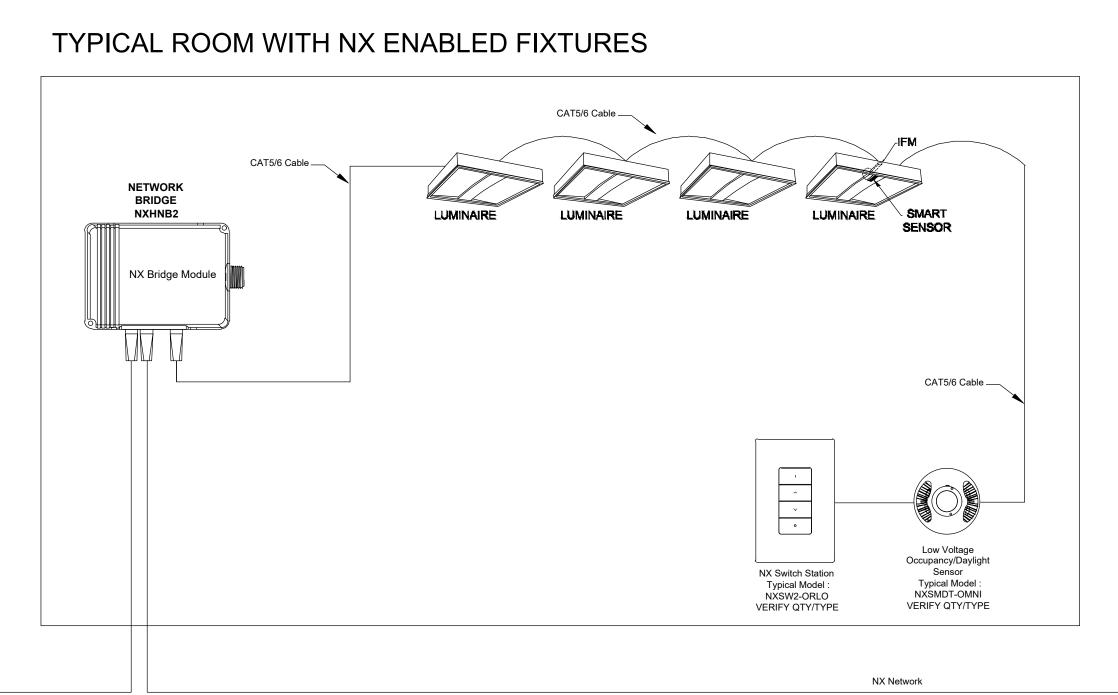


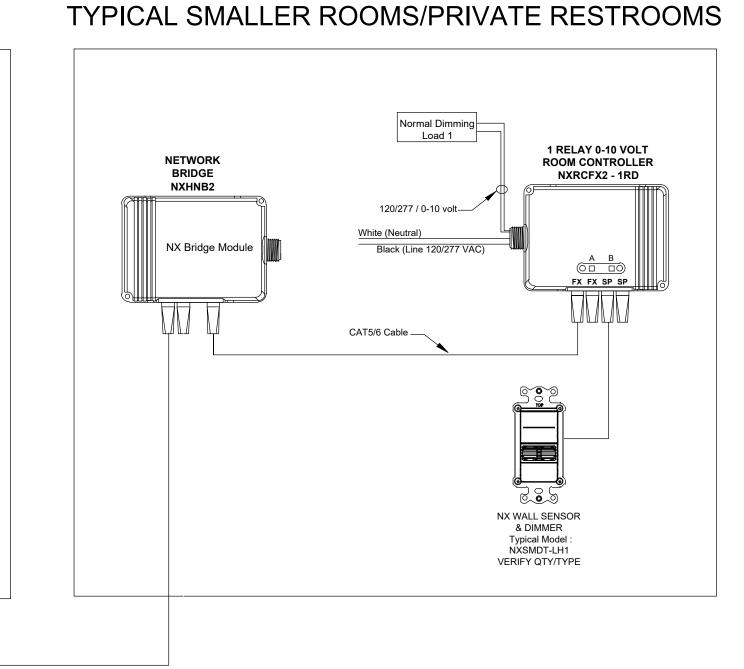
NX CONTROLS LIGHTING CONTROL DIAGRAM (NETWORKED)

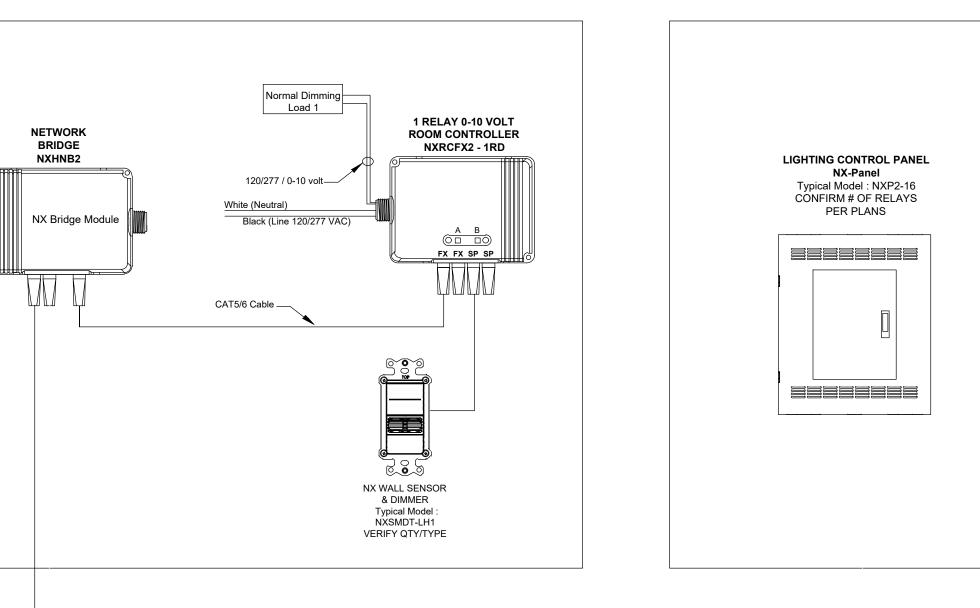


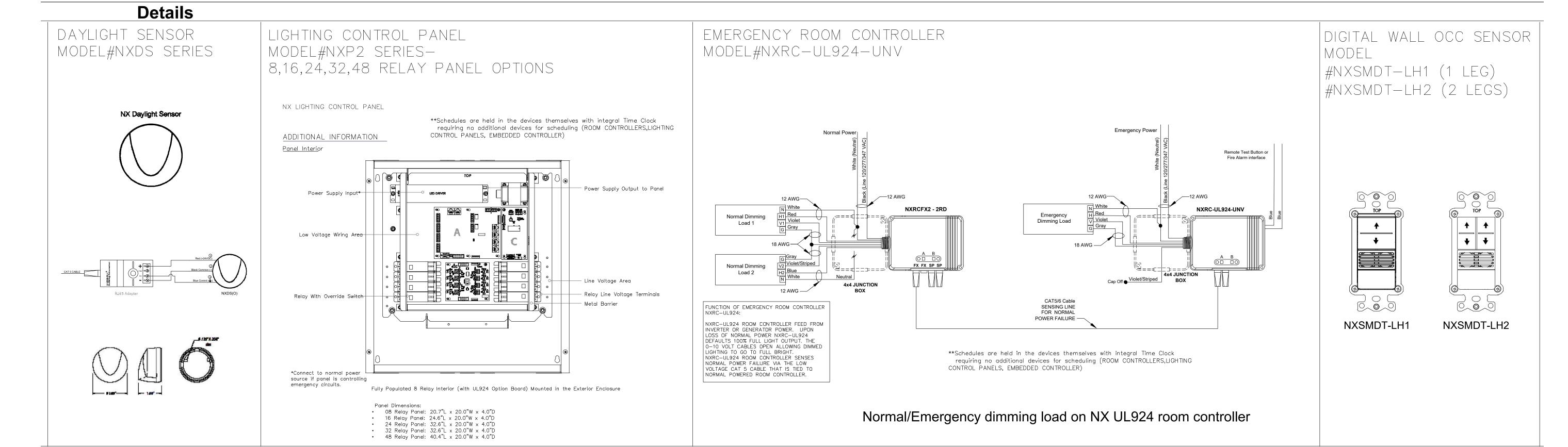














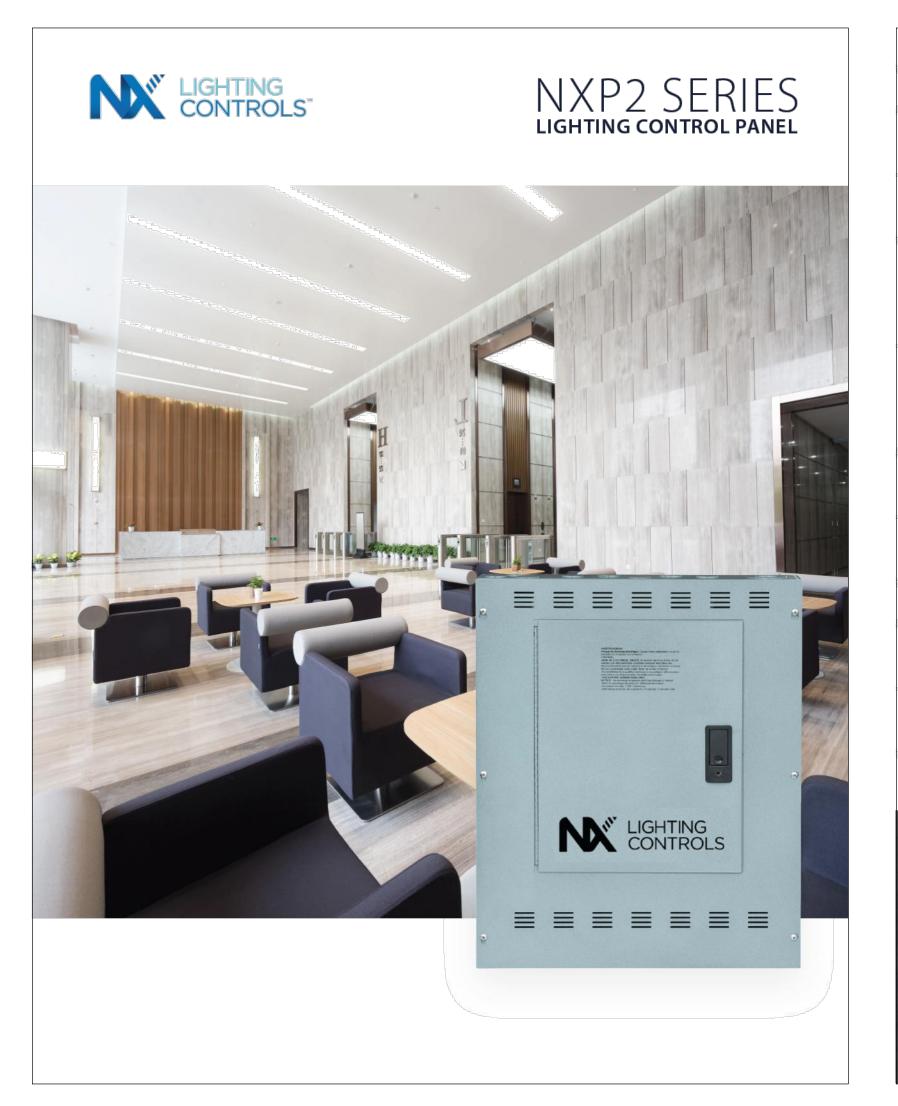




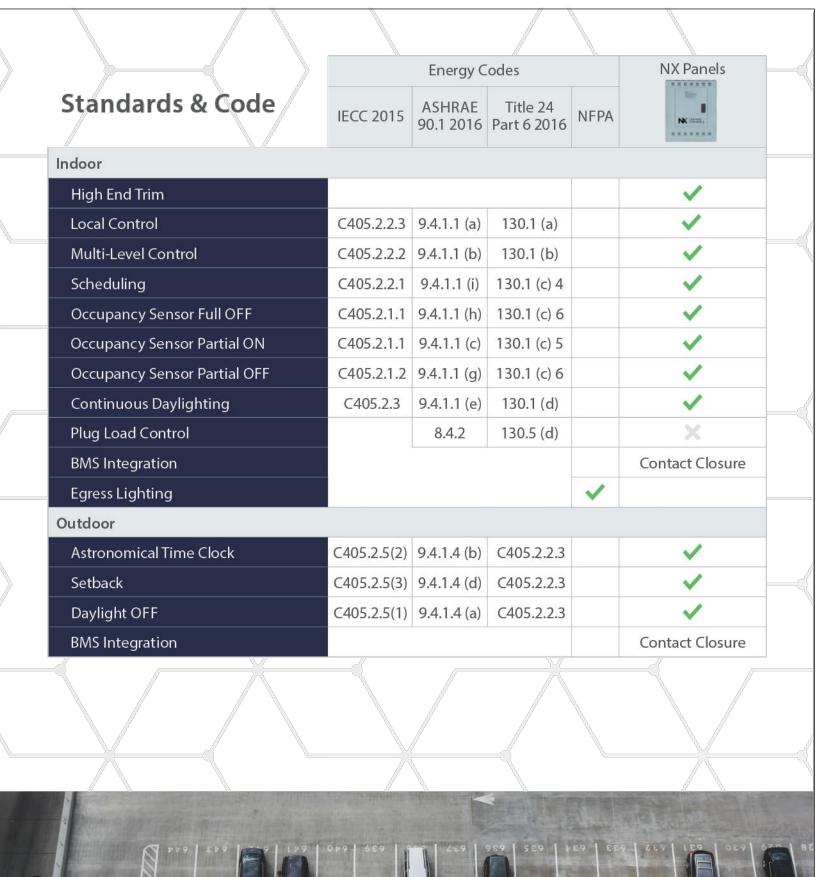
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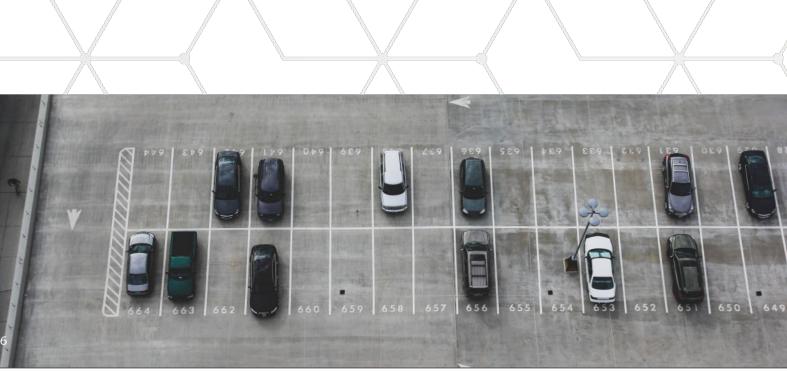
LIGHTING CONTROL DETAILS

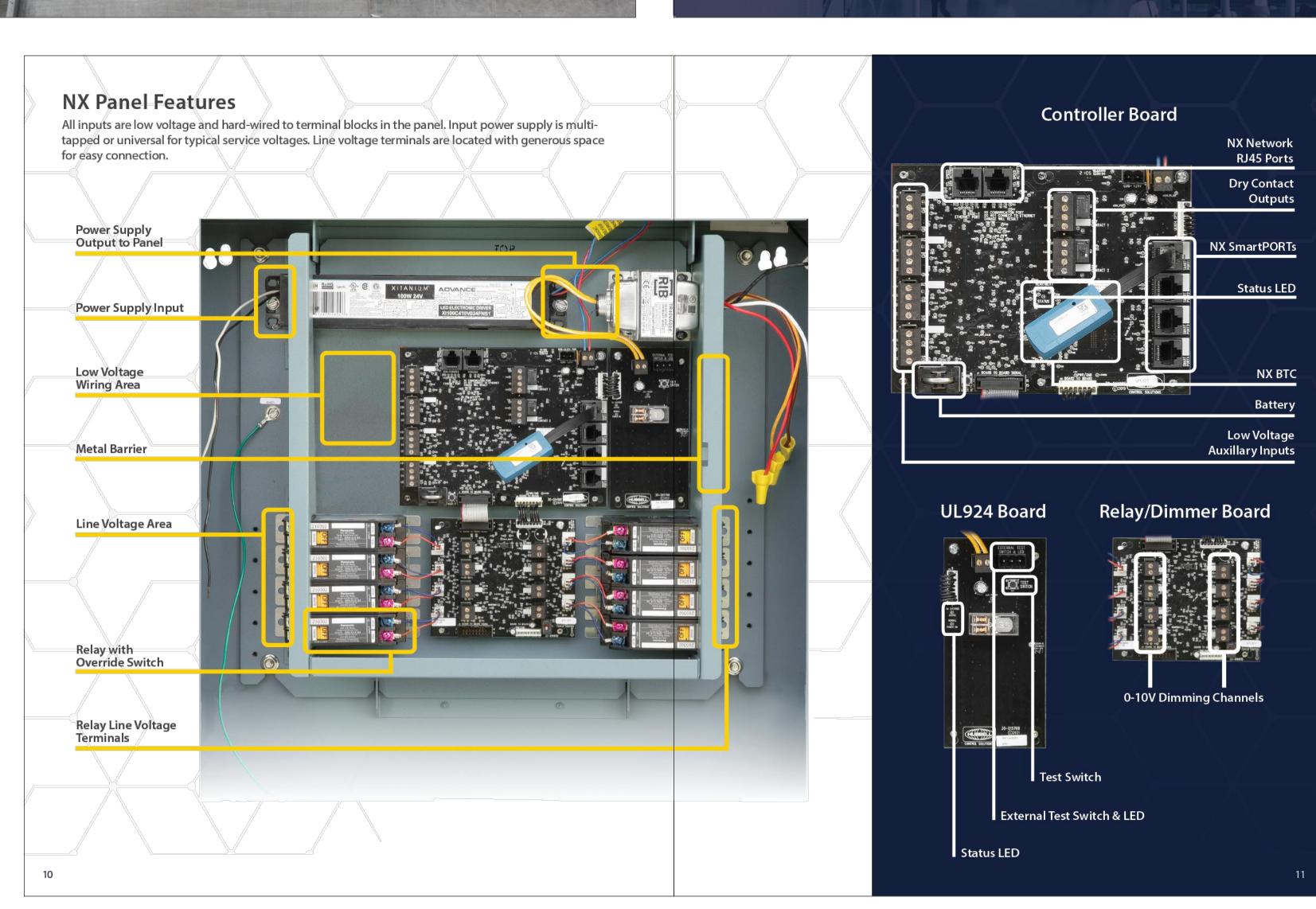
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Meet Code and Save Energy

High End Trim - An artificial maximum light output set below actual maximum light output for each space

Local Control - Manual lighting controls that control all the

lights in that space and requires

Multi-Level Control - Providing

additional light levels in a space beyond Full ON and Full OFF

Plug Load Control - Automatically turns off designated receptacles in response to all occupants leaving the

Scheduling - Controls light levels based on facility schedule

Astronomical Time Clock - Controls light levels based on sunrise/sunset and project location

Occupancy Sensor Full OFF -Automatically turns the lights off within a set period of time after all occupants leave the space

Occupancy Sensor Partial ON -Automatically turns lights on to a reduced level between full on and full

off when occupants enter the space

Occupancy Sensor Partial OFF -Automatically turns lights down to a reduced level between full on and full off after all occupants leave the space

human intervention

space or time of day

NX Panels can maximize energy savings and meet or exceed today's energy code requirements.

Continuous Daylighting -Automatically turns lights down to a reduced level or off based on the amount of daylight present in a space

Daylight OFF - Automatically turns the lights off based on the amount of daylight

BMS Integration - Integrated low voltage inputs and dry contact outputs provide an interface for BMS systems to control lighting and other building systems based on schedule or

Egress Lighting - The code establishes minimum criteria for the design of egress facilities so as to allow prompt escape of occupants from buildings, or where desirable, into safe areas within buildings

Setback - Automatically turns lights down to a reduced level after all occupants leave the area

input control

NEW	OUTLET	ΑТ	EXISTING	WALL

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1/4" X 2 X LENGTH AS REQUIRED, COPPER GROUND BUS IN BASEMENT ELECTRICAL ROOM, DRILLED AND TAPPED AS REQUIRED. REFER TO SHEET E200 FOR LOCATION.

GENERAL NOTES:

ELEVATION

---STRUCTURAL WALL

HOLES FOR SPARES

- COMPRESSION LUGS (TYPICAL)

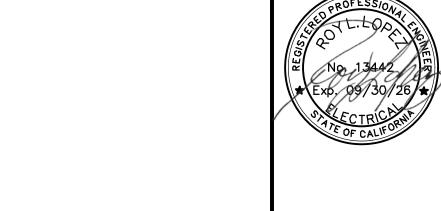
8" ENCLOSED IN CONDUIT

- SEE PLAN FOR TYPE AND SIZE

- SEE PLAN FOR TYPE AND SIZE

N.T.S.

 THE GROUNDING ELECTRODE CONDUCTOR SHALL BE INSTALLED IN ONE CONTINUOUS LENGTH WITHOUT A SPLICE OR JOINT, UNLESS SPLICED ONLY BY IRREVERSIBLE COMPRESSION-TYPE CONNECTORS LISTED FOR THE PURPOSE OR BY EXOTHERMIC WELDING PROCESS.



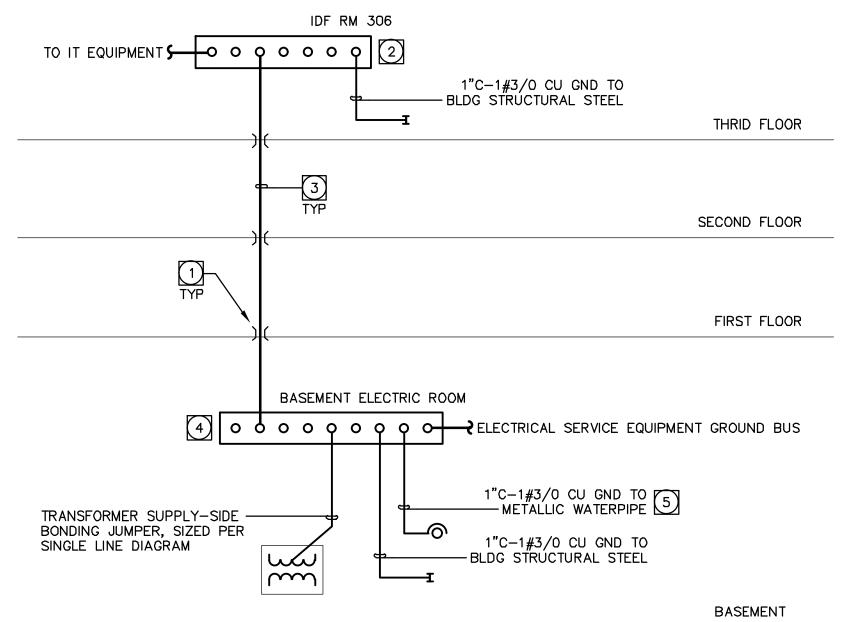
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LIBRARY

HUNTINGTON FULS STREET OF FILES AVE



RED LAMICOID NAMEPLATE WITH WHITE ENGRAVED LETTERS "BUILDING GROUND"

GROUNDING BUS BAR DETAIL

PLAN VIEW

ALL CONDUCTORS EXPOSED ABOVE FINISHED FLOOR TERMINATING ON GROUND BUS SHALL BE INSTALLED IN CONDUIT.

ANCHOR TO WALL

INSULATED SPACERS

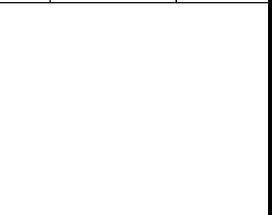
EXPOSED GND. COPPER BUS 4"X1/2"X(LENGTH AS REQ'D)

BLACK LAMOCOID NAME— PLATE W/WHITE ENGRAVED LETTERS ATTACHED TO

EACH GROUND W/I.D. AS TO SIZE & SYSTEM.

12" O.C. MIN.

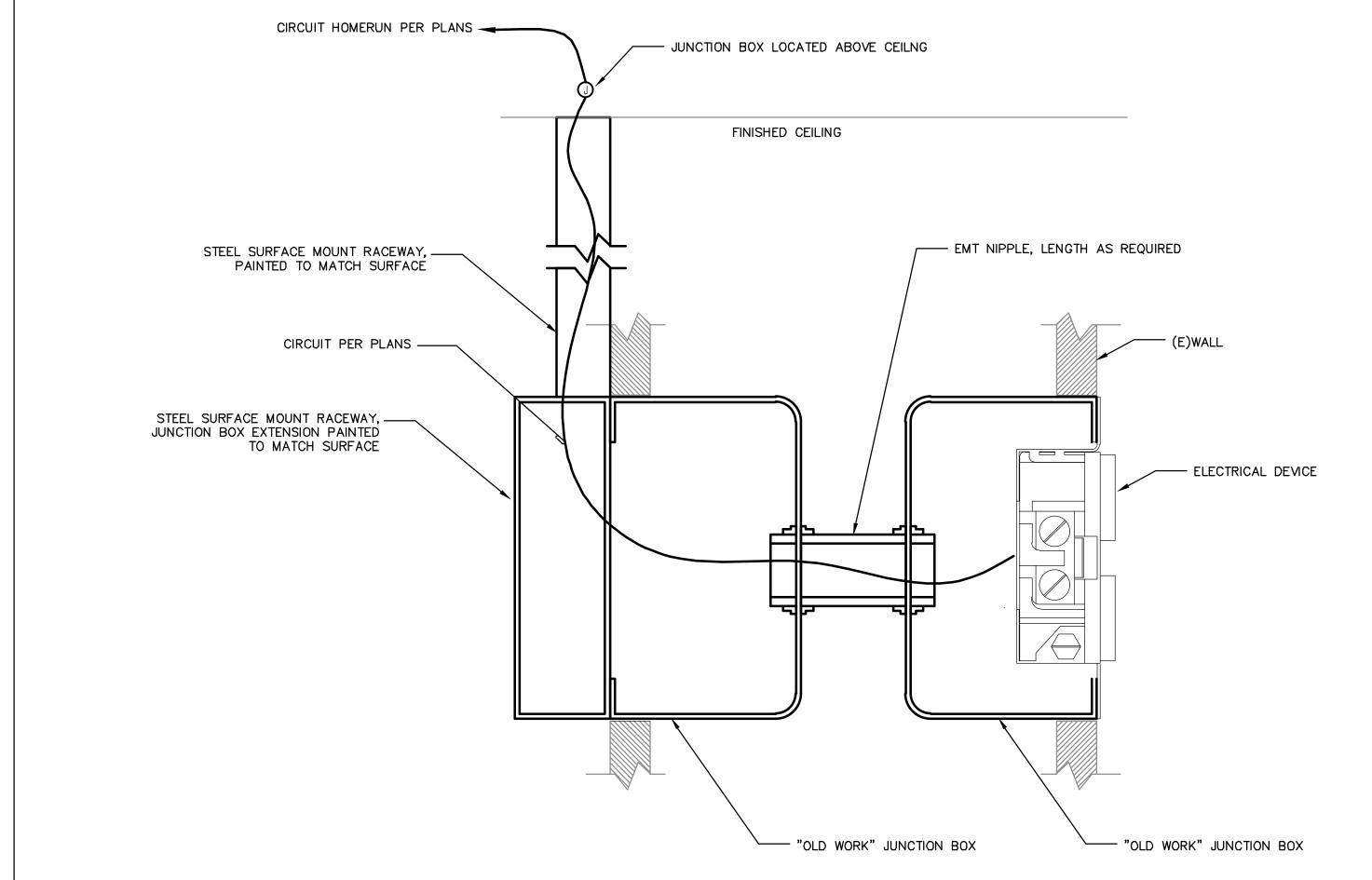
DRILL & TAP — (TYPICAL)



DATE 07/15/2025

SCALE N.T.S. TELECOMMUNICATIONS GROUNDING BUSBAR

ELECTRICAL DETAILS



N.T.S.

NOTES:

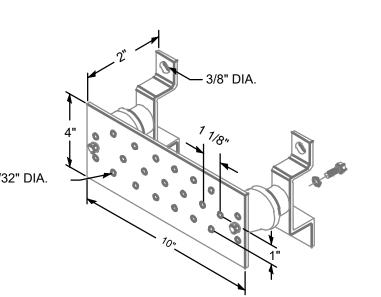
PROVIDE APPROPRIATE SIZED SLEEVING FOR ALL CONDUITS PASSING THROUGH WALLS OR FLOOR, INCLUDING FIRESTOP AND SEALING OF ALL PENETRATIONS TO A RATING EQUIVALENT TO THE RATING OF THE WALL OR FLOOR WHICH IS BEING PENETRATED. PROVIDE FIRESTOP LABELING FOR ALL PENETRATIONS.

2 2-1/2" X 18" X 1/4" COPPER GROUND BAR, MOUNTED ON STAND-OFF INSULATORS
3 1#3/0 CU GND.

CONNECTION TO METAL UNDERGROUND PIPE SHALL BE MADE WITHIN 5FT FROM THE POINT OF ENTRANCE TO THE BUILDING PER NEC REQUIREMENTS.

GROUNDING RISER DIAGRAM

N.T.S.



BASEMENT ELECTRICAL PLAN

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KEY NOTES

PROVIDE NEW GROUND BUS. CONNECT TO BUILDING STEEL, AND COLD WATER PIPE. REFER TO DETAIL #1 AND #2, SHEET E0.91 FOR ADDITIONAL DETAILS.

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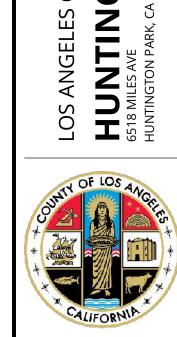
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GENERAL NOTES

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- 4. NOTIFY THE ENGINEER IMMEDIATELY WHEREVER EXISTING EQUIPMENT IS ENCOUNTERED WHICH MUST BE RELOCATED DUE TO THE NEW CONSTRUCTION, OR NOT INDICATED ON "AS-BUILT" DRAWINGS OR WAS BURIED UNDERGROUND OR EMBEDDED IN STRUCTURE
- 5. CAREFULLY PROTECT ALL WALLS, TRIM, FLOORS, EQUIPMENT, UTILITY LINES AND MATERIALS. WHEN WORKING ON FINISHED SURFACES, LIMIT DAMAGE TO THE SMALLER AREA IF POSSIBLE AND RESTORE TO THE ORIGINAL CONDITION ALL SURFACES WHICH ARE DAMAGED BECAUSE OF THE INSTALLATION OF THIS WORK.
- 6. EQUIPMENT, MATERIALS AND SUPPLIES TEMPORARILY REMOVED FOR PROTECTION SHALL BE REPLACED IN ORIGINAL LOCATIONS. ANY MATERIALS DAMAGED SHALL BE REPLACED WITH NEW MATERIALS OF LIKE KIND AND QUALITY.
- 7. DEMOLITION WORK SHALL BE DONE IN A MANNER WHICH WILL NOT CAUSE UNNECESSARY INCONVENIENCE OR DANGER TO USERS OF THE PREMISES AND ADJACENT SITE, AND NOT INTERFERE WITH ITS OPERATION. ANY DEMOLITION WORK TO BE PERFORMED MUST BE PLANNED IN ADVANCE.
- 8. DO ALL DRILLING, CUTTING, ETC. REQUIRED TO DEMOLISH ELECTRICAL WORK AS INDICATED OR PROVIDE BLANK COVER PLATE ON ALL OUTLETS EXPOSED BY REMOVAL OF FIXTURE OF DEVICES.
- 9. RESEAL ALL PENETRATIONS OR OPENING THROUGH WALLS, CEILING, FLOORS, ETC., TO MAINTAIN THE RATING OF STRUCTURE.
- 10. ALL REMOVED MATERIALS AND EQUIPMENT WHICH IS SALVAGED MATERIALS SHALL REMAIN IN THE PROPERTY OF THE OWNER. DELIVER SUCH SALVAGED MATERIALS AND EQUIPMENT ON THE PREMISES AS DIRECTED BY OWNER AND NEATLY PILE OR STORE THEM AND PROTECT FROM DAMAGED. DISPOSE OF ALL HAZARDOUS MATERIAL PER GUIDELINE OF THE STATE OF CALIFORNIA, DEPARTMENT OF HEALTH SERVICES AND OTHER AGENCIES HAVING JURISDICTION.
- 11. CONTRACTOR SHALL FIELD VERIFY EXISTING CONDUIT/WRING RUNS, REUSE AS REQUIRE AND REMOVED ALL UNUSED CONDUIT/WRING. UNUSED CONDUIT IN INACCESSIBLE LOCATIONS (WALLS TO REMAIN) CAN BE ABANDONED IN PLACE. REMOVE UNUSED WIRING.





NAC NO 161-23025
DRAWN Author
CHECKED Checker

DATE 07/15/2025

BASEMENT ELECTRICAL PLAN

E2.00



KEY NOTES

1 NOT USED.

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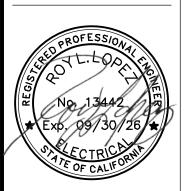
OTHER AGENCIES HAVING JURISDICTION.



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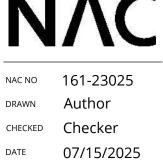
REVISIONS











OVERALL FIRST FLOOR ELECTRICAL PLAN

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1 FIRST FLOOR ELECTRICAL PLAN

#RFBA4R300G-(2) RFBADP20TR-RFBADEC

D/	OKE-THRU FLOOR		
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SYMBOL	MODEL	DESCRIPTION	MODEL #
Z	EVOLUTION SERIES 4AT	4" FLOOR BOX WITH DUPLEX OUTLET	#4ATCP2RXX WITH #4B BLANK DEVICE PLATE 3
Y	EVOLUTION SERIES 4AT	4" FLOOR BOX WITH QUAD OUTLET	#4ATCP4RXX 3
X	EVOLUTION SERIES 4AT	4" FLOOR BOX WITH DUPLEX OUTLET AND LOW VOLTAGE OUTLET	#4ATCP2RBK 32
W	EVOLUTION SERIES 6AT	6" FLOOR BOX WITH QUAD OUTLET AND LOW VOLTAGE OUTLET	#6ATCP2RXX 32
\vee	EVOLUTION SERIES 6AT	6" FURNITURE FEED WITH LOW VOLTAGE COMPARTMENT	#6ATCPFFXX 32

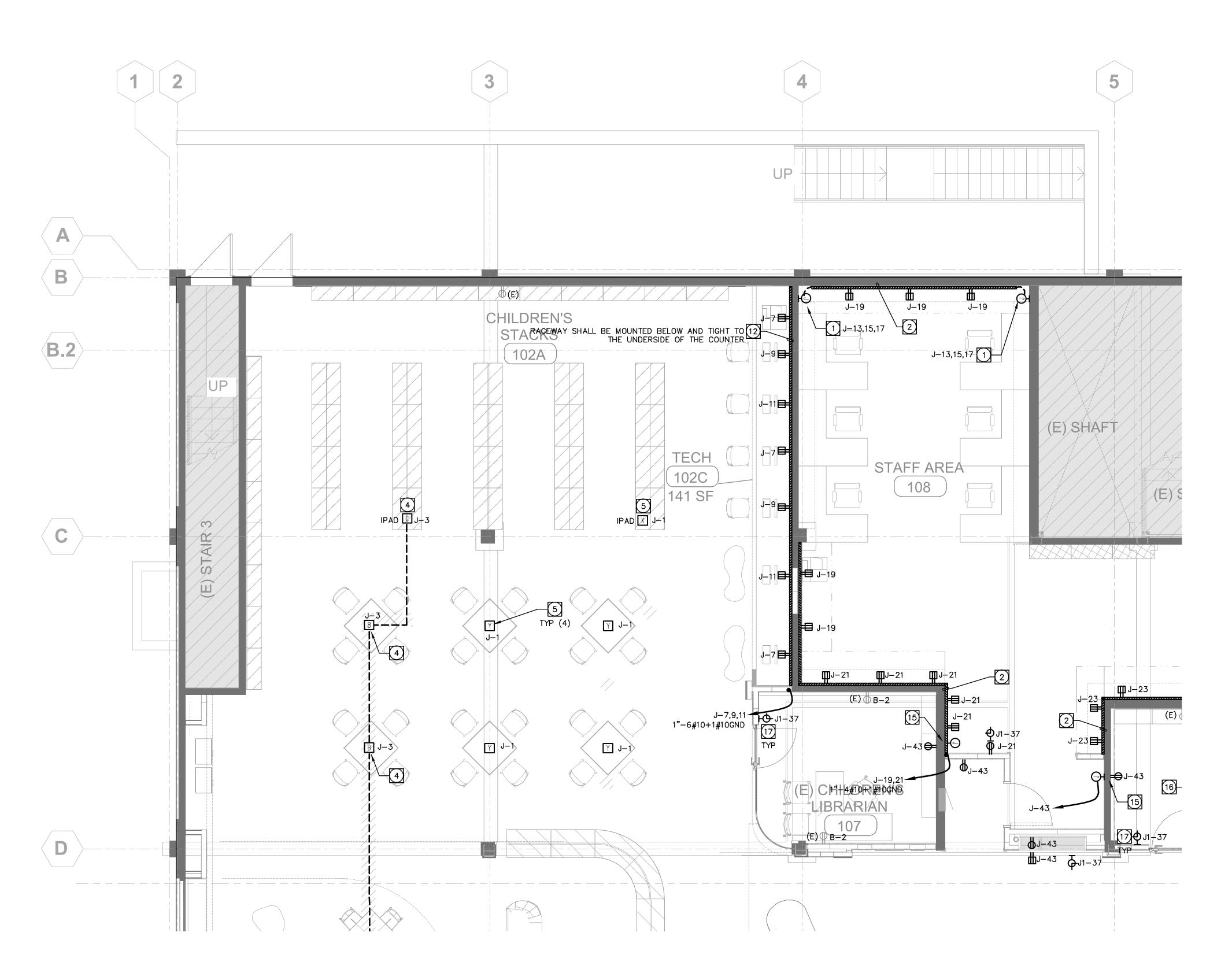
QUAD OUTLET WITH LOW VOLTAGE COMPARTMENT

FLOOR BOX SCHEDULE NOTES

(1) COORDINATE FLOOR BOX DEPTH PRIOR TO ORDERING.

D RFBA SERIES 6-GANG W/

- (2) COORDINATE LOW VOLTAGE REQUIREMENTS WITH LOW VOLTAGE DRAWINGS.
- (3) ALL EVOLUTION SERIES POKE-THRU DEVICES SHALL BE "RECESSED" TYPE. COORDINATE FLOOR BOX COVERS/FINISHES TO MATCH AS BEST AS POSSIBLE.





KEY NOTES

KEYNOTES ARE TYPICAL FOR ALL ENLARED POWER PLAN SHEETS. INDIVIDUAL KEYNOTES MAY NOT APPEAR ON EACH SHEET.

- (1) PROVIDE A 4-CIRCUIT, 8-WIRE FEED TO SYSTEM FURNITURE PRE-WIRED WHIP.
- PROVIDE WIREMOLD S-4000 STAINLESS STEEL, TWO-PIECE DUAL SYSTEM RACEWAY WITH DIVIDER. PROVIDE NEMA 5-20R DEVICES AT 36" OVER COUNTER. COORDINATE WITH LOW VOLTAGE DRAWINGS FOR ADDITIONAL REQUIREMENTS.
- (3) INTERCEPT AND EXTEND EXISTING CIRCUIT TO NEW OUTLET.
- PROVIDE FLOOR BOX, WIREMOLD RATCHET—PRO SERIES OR EQUAL WITH BRUSHED ALUMINUM COVER PLATE, REFER TO "AT GRADE FLOOR BOX SCHEDULE" FOR DETAILS. COORDINATE EXACT LOCATION WITH STRUCTURAL ENGINEER, ARCHITECT, AND FURNITURE LAYOUT. COORDINATE TRENCH ROUTING WITH ARCHITECT AND STRUCTURAL ENGINEER. CONTRACTOR TO SUBMIT SPECIFICS ON DEVICE QUANTITY AND COVER PLATES.
- PROVIDE EVOLUTION POKE—THRU FLOOR BOX OR EQUAL WITH BRUSHED ALUMINUM COVER PLATE. REFER TO "POKE—THRU FLOOR BOX SCHEDULE" FOR DETAILS. COORDINATE EXACT LOCATION WITH STRUCTURAL ENGINEER, ARCHITECT, AND FURNITURE LAYOUT. CONTRACTOR TO SUBMIT SPECIFICS ON DEVICE QUANTITY AND COVER PLATES.
- 6 PROVIDE OUTLET AT 54"AFF FOR DIGITAL DISPLAY. COORDINATE EXACT HEIGHT AND LOCATION WITH ARCHITECT PRIOR TO ROUGH-IN.
- PROVIDE POWER FOR UNDERSINK INSTAHOT HOT WATER HEATER. REFER TO PLUMBING EQUIPMENT SCHEDULE ON SHEET E051 FOR ADDITIONAL INFORMATION INCLUDING LOCAL DISCONNECT REQUIREMENTS AND FEEDER SIZE.
- PROVIDE SURFACE MOUNT RACEWAY RISER ON EXISTING PLASTER WALL. RACEWAY SHALL BE PAINTED TO MATCH.
- (9) PROVIDE POWER AT POWERED STOREFRONT DOOR.
- (10) PROVIDE POWER FOR BOOK DETECTION GATES.
- [11] PROVIDE POWER FOR CHILLED WATER FOUNTAIN/BOTTLE FILLER.
- (12) PROVIDE WIREMOLD S-4000 STAINLESS STEEL, TWO-PIECE DUAL SYSTEM RACEWAY WITH DIVIDER. PROVIDE 5-20R DEVICES UNDER COUNTER.
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- PROVIDE PENETRATION THROUGH EXISTING PLASTER WALL TO BACK OF HOUSE AREA FOR NEW OUTLET ON EXISTING PLASTER WALL. PROVIDE SURFACE MOUNT RACEWAY IN BACK OF HOUSE AREA. REFER TO DETAIL #4, SHEET E0.91.
- LOW VOLTAGE CONDUIT ALSO REQUIRED. COORDINATE WITH LOW VOLTAGE DRAWINGS FOR ADDITIONAL REQUIREMENTS.
- PROVIDE 120V POWER FOR SYCHRONIZED CLOCK AT 8FT ABOVE FINISHED FLOOR. COORDINATE EXACT LOCATION WITH ARCHITECT PRIOR TO ROUGH—IN.



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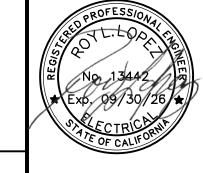
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GENERAL NOTES

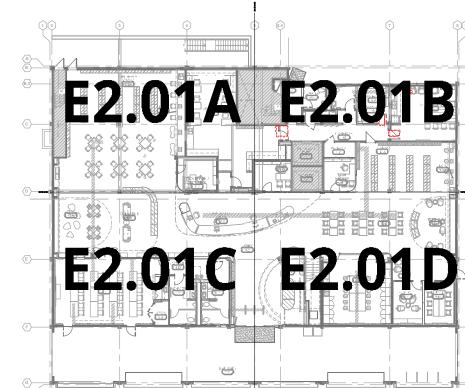
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- 12. REFER TO SHEET E051 FOR MECHANICAL AND PLUMBING EQUIPMENT ELECTRICAL CONNECTION SCHEDULE FOR FEEDER SIZE, DISCONNECT SIZE, AND ADDITIONAL INFORMATION.

KEYPLAN



FIRST FLOOR ELECTRICAL PLAN

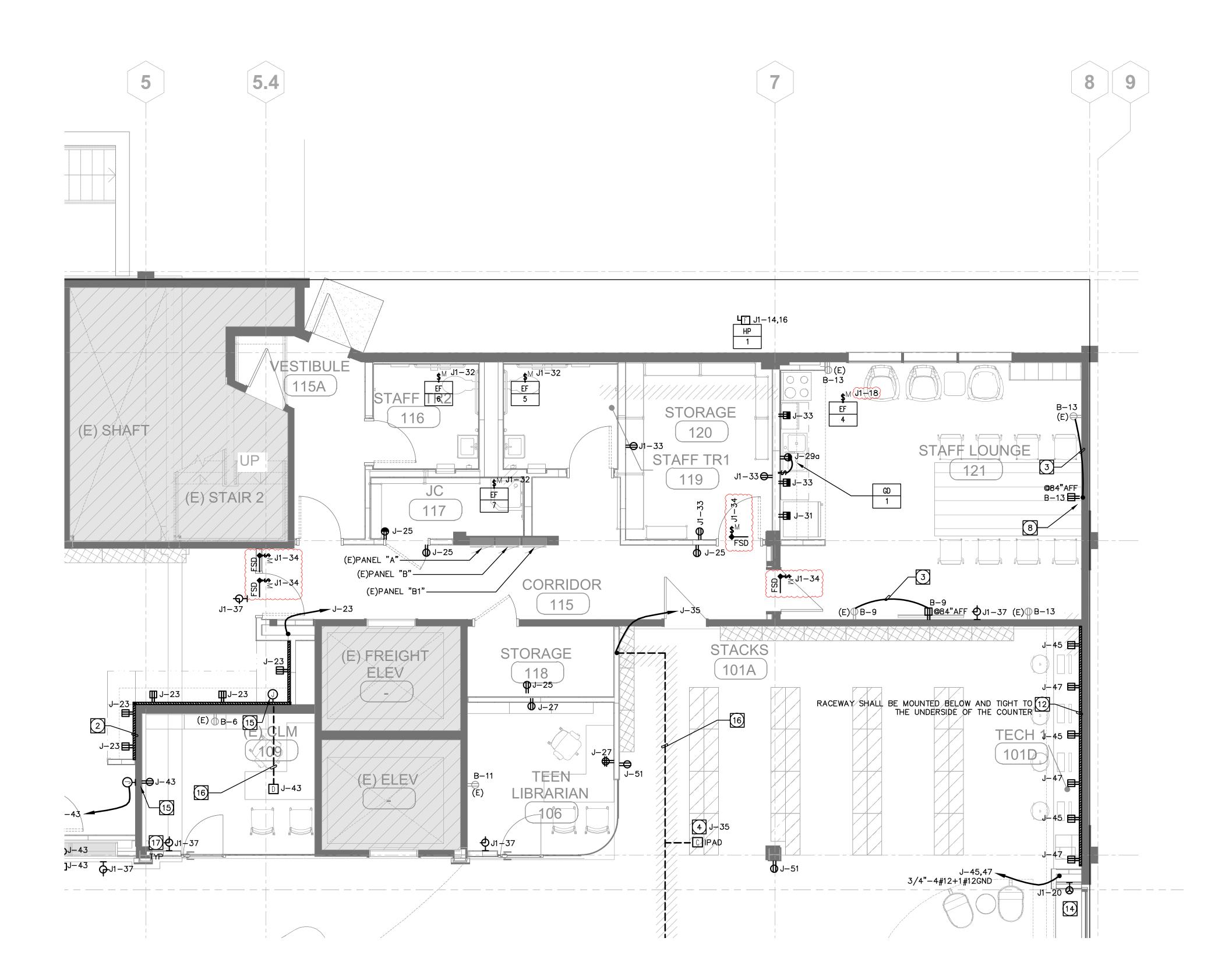
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NAC NO 161-23025 DRAWN Author CHECKED Checker DATE 07/15/2025

SYMBOL	MODEL	DESCRIPTION	MODEL #
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V	EVOLUTION SERIES 6AT	6" FURNITURE FEED WITH LOW VOLTAGE COMPARTMENT	#6ATCPFFXX 32

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- PROVIDE 120V POWER FOR SYCHRONIZED CLOCK AT 8FT ABOVE FINISHED FLOOR. COORDINATE EXACT LOCATION WITH ARCHITECT PRIOR TO ROUGH—IN.



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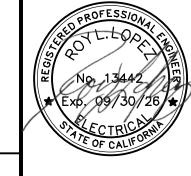
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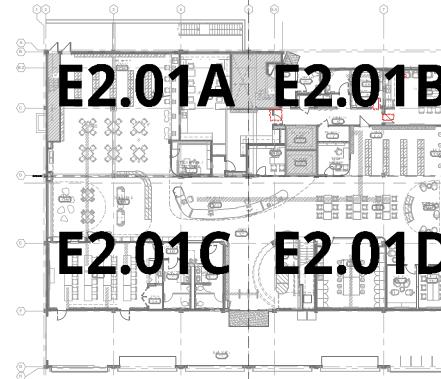
GENERAL NOTES

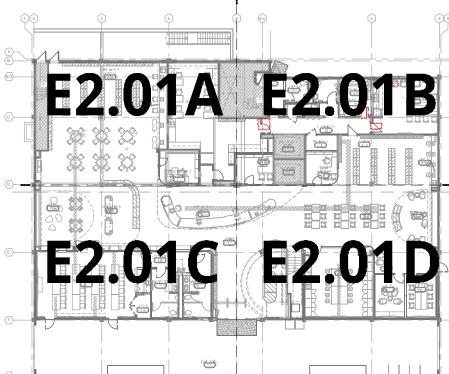
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- NOTIFY THE ENGINEER IMMEDIATELY WHEREVER EXISTING EQUIPMENT IS ENCOUNTERED WHICH MUST BE RELOCATED DUE TO THE NEW CONSTRUCTION, OR NOT INDICATED ON "AS-BUILT" DRAWINGS OR WAS BURIED UNDERGROUND OR EMBEDDED IN STRUCTURE

ETC. SCHEDULED TO REMAIN.

- 5. CAREFULLY PROTECT ALL WALLS, TRIM, FLOORS, EQUIPMENT, UTILITY LINES AND MATERIALS. WHEN WORKING ON FINISHED SURFACES, LIMIT DAMAGE TO THE SMALLER AREA IF POSSIBLE AND RESTORE TO THE ORIGINAL CONDITION ALL SURFACES WHICH ARE DAMAGED BECAUSE OF THE INSTALLATION OF THIS WORK.
- 6. EQUIPMENT, MATERIALS AND SUPPLIES TEMPORARILY REMOVED FOR PROTECTION SHALL BE REPLACED IN ORIGINAL LOCATIONS. ANY MATERIALS DAMAGED SHALL BE REPLACED WITH NEW MATERIALS OF LIKE KIND AND QUALITY.
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- B. DO ALL DRILLING, CUTTING, ETC. REQUIRED TO DEMOLISH ELECTRICAL WORK AS INDICATED OR PROVIDE BLANK COVER PLATE ON ALL OUTLETS EXPOSED BY REMOVAL OF FIXTURE OF DEVICES.
- 9. RESEAL ALL PENETRATIONS OR OPENING THROUGH WALLS, CEILING, FLOORS, ETC., TO MAINTAIN THE RATING OF STRUCTURE.
- 10. ALL REMOVED MATERIALS AND EQUIPMENT WHICH IS SALVAGED MATERIALS SHALL REMAIN IN THE PROPERTY OF THE OWNER. DELIVER SUCH SALVAGED MATERIALS AND EQUIPMENT ON THE PREMISES AS DIRECTED BY OWNER AND NEATLY PILE OR STORE THEM AND PROTECT FROM DAMAGED. DISPOSE OF ALL HAZARDOUS MATERIAL PER GUIDELINE OF THE STATE OF CALIFORNIA, DEPARTMENT OF HEALTH SERVICES AND OTHER AGENCIES HAVING JURISDICTION.
- 11. CONTRACTOR SHALL FIELD VERIFY EXISTING CONDUIT/WIRING RUNS, REUSE AS REQUIRE AND REMOVED ALL UNUSED CONDUIT/WIRING. UNUSED CONDUIT IN INACCESSIBLE LOCATIONS (WALLS TO REMAIN) CAN BE ABANDONED IN PLACE. REMOVE UNUSED
- 12. REFER TO SHEET E051 FOR MECHANICAL AND PLUMBING EQUIPMENT ELECTRICAL CONNECTION SCHEDULE FOR FEEDER SIZE, DISCONNECT SIZE, AND ADDITIONAL

KEYPLAN





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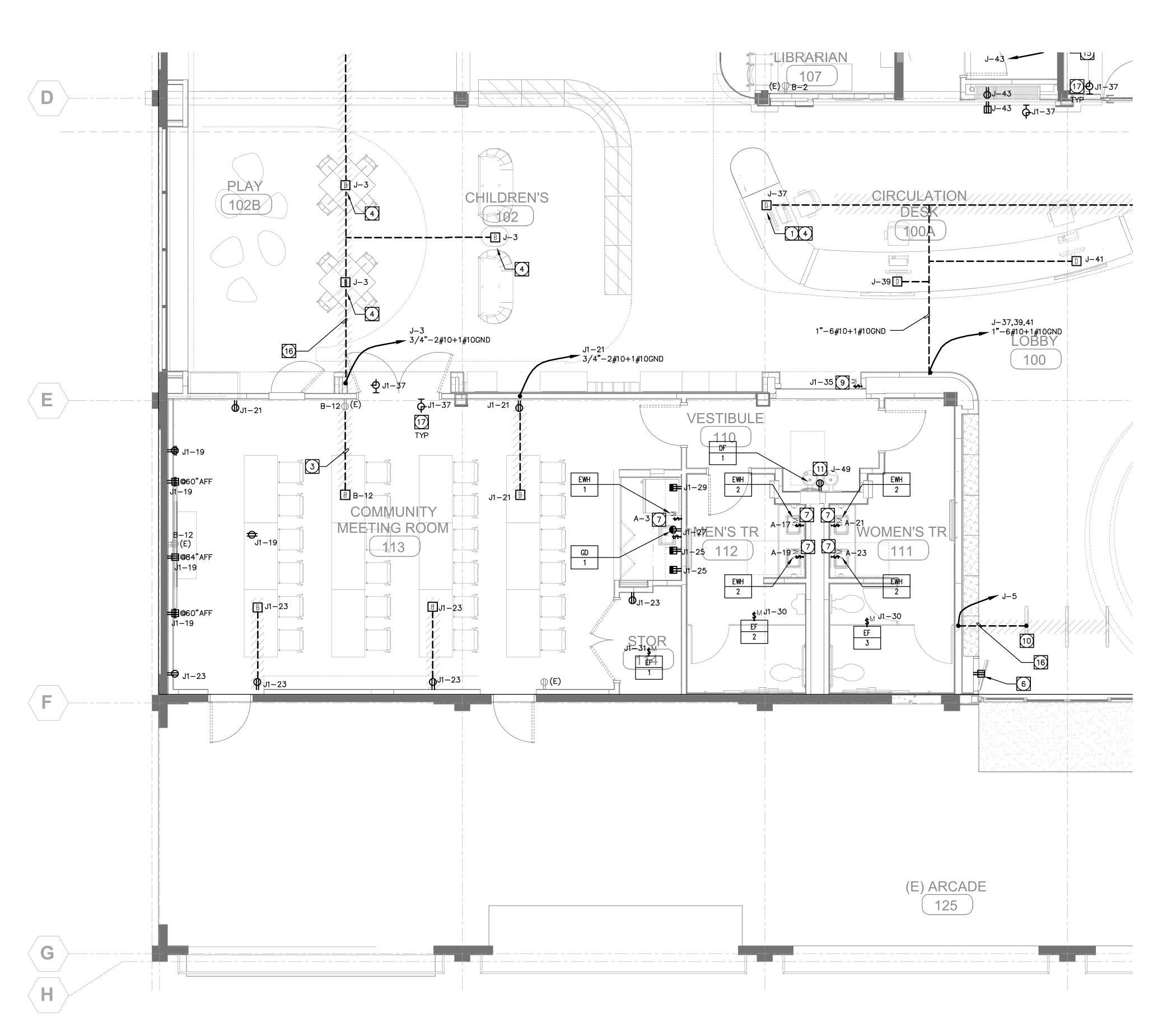
> FIRST FLOOR ELECTRICAL PLAN

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	SYMBOL	MODEL	DESCRIPTION	MODEL #
	Z	EVOLUTION SERIES 4AT	4" FLOOR BOX WITH DUPLEX OUTLET	#4ATCP2RXX WITH #4B BLANK DEVICE PLATE 3
	\prec	EVOLUTION SERIES 4AT	4" FLOOR BOX WITH QUAD OUTLET	#4ATCP4RXX 3
	X	EVOLUTION SERIES 4AT	4" FLOOR BOX WITH DUPLEX OUTLET AND LOW VOLTAGE OUTLET	#4ATCP2RBK 32
	W	EVOLUTION SERIES 6AT	6" FLOOR BOX WITH QUAD OUTLET AND LOW VOLTAGE OUTLET	#6ATCP2RXX 32
	٧	EVOLUTION SERIES 6AT	6" FURNITURE FEED WITH LOW VOLTAGE COMPARTMENT	#6ATCPFFXX 3(2)

- 1) COORDINATE FLOOR BOX DEPTH PRIOR TO ORDERING.
- 2 COORDINATE LOW VOLTAGE REQUIREMENTS WITH LOW VOLTAGE DRAWINGS.
- 3 ALL EVOLUTION SERIES POKE-THRU DEVICES SHALL BE "RECESSED" TYPE.

 COORDINATE FLOOR BOX COVERS/FINISHES TO MATCH AS BEST AS POSSIBLE





KEY NOTES

KEYNOTES ARE TYPICAL FOR ALL ENLARED POWER PLAN SHEETS. INDIVIDUAL KEYNOTES MAY NOT

APPEAR ON EACH SHEET.

1 PROVIDE A 4-CIRCUIT, 8-WIRE FEED TO SYSTEM FURNITURE PRE-WIRED WHIP.

PROVIDE WIREMOLD S-4000 STAINLESS STEEL, TWO-PIECE DUAL SYSTEM RACEWAY WITH DIVIDER. PROVIDE NEMA 5-20R DEVICES AT 36" OVER COUNTER. COORDINATE WITH LOW VOLTAGE DRAWINGS FOR ADDITIONAL REQUIREMENTS.

3 INTERCEPT AND EXTEND EXISTING CIRCUIT TO NEW OUTLET.

PROVIDE FLOOR BOX, WIREMOLD RATCHET—PRO SERIES OR EQUAL WITH BRUSHED ALUMINUM COVER PLATE, REFER TO "AT GRADE FLOOR BOX SCHEDULE" FOR DETAILS. COORDINATE EXACT LOCATION WITH STRUCTURAL ENGINEER, ARCHITECT, AND FURNITURE LAYOUT. COORDINATE TRENCH ROUTING WITH ARCHITECT AND STRUCTURAL ENGINEER. CONTRACTOR TO SUBMIT SPECIFICS ON DEVICE QUANTITY AND COVER PLATES.

PROVIDE EVOLUTION POKE—THRU FLOOR BOX OR EQUAL WITH BRUSHED ALUMINUM COVER PLATE. REFER TO "POKE—THRU FLOOR BOX SCHEDULE" FOR DETAILS. COORDINATE EXACT LOCATION WITH STRUCTURAL ENGINEER, ARCHITECT, AND FURNITURE LAYOUT. CONTRACTOR TO SUBMIT SPECIFICS ON DEVICE QUANTITY AND COVER PLATES.

6 PROVIDE OUTLET AT 54"AFF FOR DIGITAL DISPLAY. COORDINATE EXACT HEIGHT AND LOCATION WITH ARCHITECT PRIOR TO ROUGH-IN.

PROVIDE POWER FOR UNDERSINK INSTAHOT HOT WATER HEATER, REFER TO PLUMBING EQUIPMENT SCHEDULE ON SHEET E051 FOR ADDITIONAL INFORMATION INCLUDING LOCAL DISCONNECT REQUIREMENTS AND FEEDER SIZE.

PROVIDE SURFACE MOUNT RACEWAY RISER ON EXISTING PLASTER WALL. RACEWAY SHALL BE PAINTED TO MATCH.

(9) PROVIDE POWER AT POWERED STOREFRONT DOOR.

PROVIDE POWER FOR BOOK DETECTION GATES.

PROVIDE POWER FOR CHILLED WATER FOUNTAIN/BOTTLE FILLER.

PROVIDE WIREMOLD S-4000 STAINLESS STEEL, TWO-PIECE DUAL SYSTEM RACEWAY WITH DIVIDER. PROVIDE 5-20R DEVICES UNDER COUNTER.

PROVIDE POWER FOR ILLLUMINATED DISPLAY CABINET. COORDINATE EXACT LOCATION WITH ARCHITECT PRIOR TO ROUGH-IN.

PROVIDE CIRCUIT AS INDICATED FOR SEATING BENCH. COORDINATE EXACT LOCATION WITH ARCHITECT PRIOR TO ROUGH—IN. PROVIDE NEMA 5—20L RECEPTACLE. COORDINATE OUTLET CONFIGURATION WITH SYSTEMS FURNITURE MANUFACTURER PRIOR TO ROUGH—IN.

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LOW VOLTAGE CONDUIT ALSO REQUIRED. COORDINATE WITH LOW VOLTAGE DRAWINGS FOR ADDITIONAL REQUIREMENTS.

[17] PROVIDE 120V POWER FOR SYCHRONIZED CLOCK AT 8FT ABOVE FINISHED FLOOR.

COORDINATE EXACT LOCATION WITH ARCHITECT PRIOR TO ROUGH-IN.

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5. CAREFULLY PROTECT ALL WALLS, TRIM, FLOORS, EQUIPMENT, UTILITY LINES AND MATERIALS. WHEN WORKING ON FINISHED SURFACES, LIMIT DAMAGE TO THE SMALLER AREA IF POSSIBLE AND RESTORE TO THE ORIGINAL CONDITION ALL SURFACES WHICH ARE DAMAGED BECAUSE OF THE INSTALLATION OF THIS WORK.

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8. DO ALL DRILLING, CUTTING, ETC. REQUIRED TO DEMOLISH ELECTRICAL WORK AS INDICATED OR PROVIDE BLANK COVER PLATE ON ALL OUTLETS EXPOSED BY REMOVAL OF FIXTURE OF DEVICES.

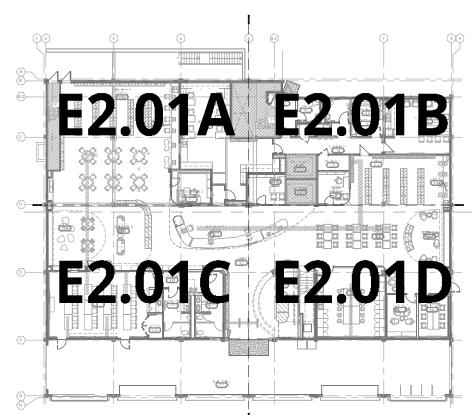
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12. REFER TO SHEET E051 FOR MECHANICAL AND PLUMBING EQUIPMENT ELECTRICAL CONNECTION SCHEDULE FOR FEEDER SIZE, DISCONNECT SIZE, AND ADDITIONAL INFORMATION.

KEYPLAN





NAC NO 161-23025
DRAWN Author
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DATE 07/15/2025

FIRST FLOOR ELECTRICAL PLAN SEGMENT C

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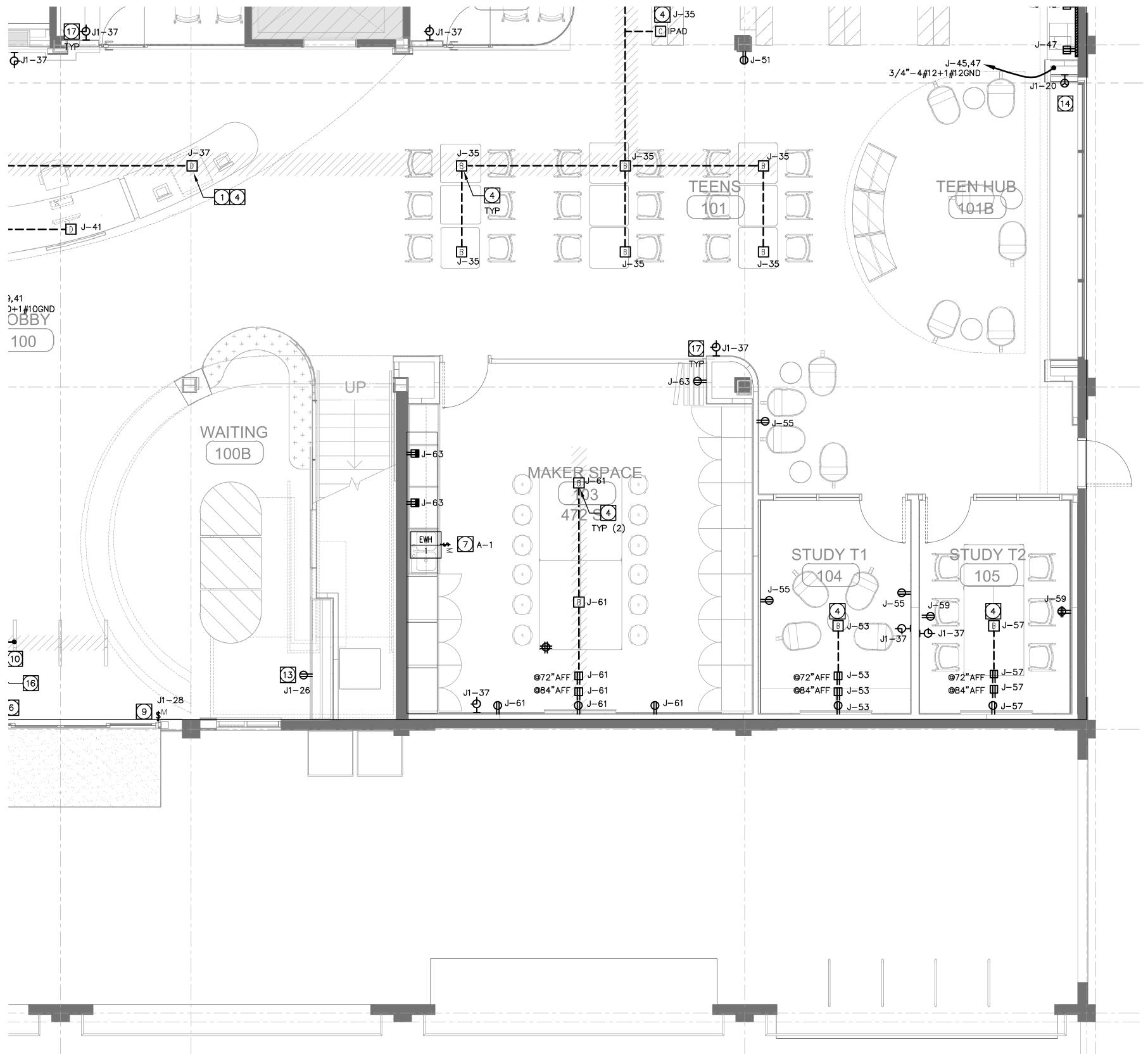
FIRST FLOOR ELECTRICAL PLAN - SEGMENT C

SCALE: 1/4" = 1'-0"

POKE-THRU	FLOOR	BOX	SCHEDUL
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	SYMBOL	MODEL	DESCRIPTION	MODEL #
	Z	EVOLUTION SERIES 4AT	4" FLOOR BOX WITH DUPLEX OUTLET	#4ATCP2RXX WITH #4B BLANK DEVICE PLATE 3
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- (1) COORDINATE FLOOR BOX DEPTH PRIOR TO ORDERING.
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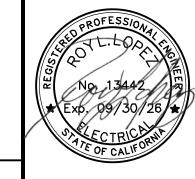
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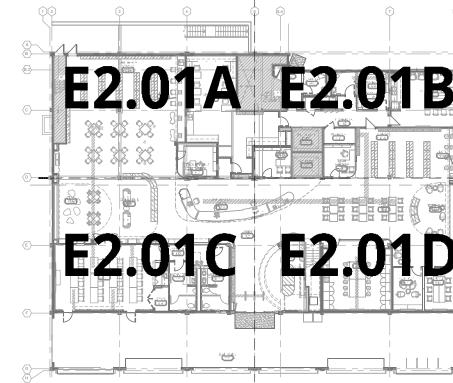
GENERAL NOTES

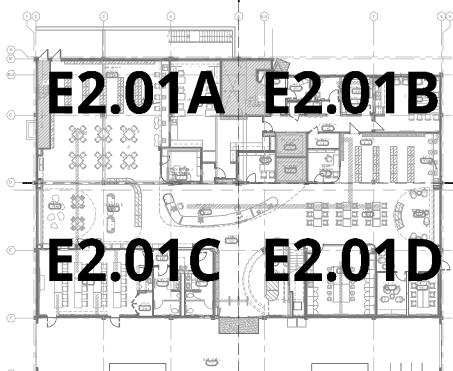
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KEYPLAN





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> FIRST FLOOR ELECTRICAL PLAN

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KEY NOTES

1) NOT USED.

CONSTRUCTION DOCUMEN

REVISIONS

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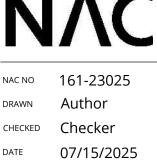












OVERALL SECOND FLOOR ELECTRICAL PLAN

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SECOND FLOOR ELECTRICAL PLAN

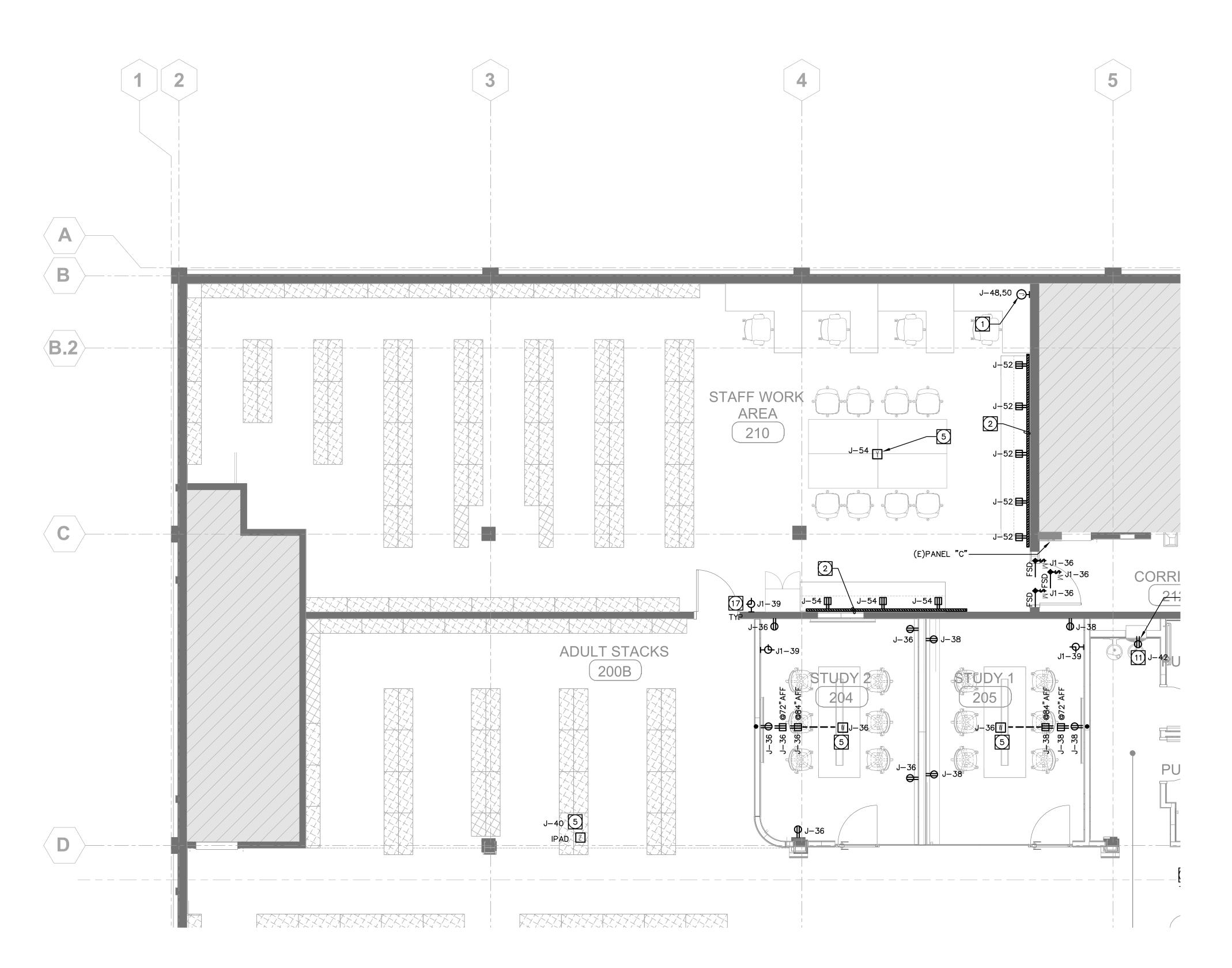
SCALE: 1/8" - 1'-0"

POKE-THRU	FLOOR	BOX	SCHEDUL

SYMBOL	MODEL	DESCRIPTION	MODEL #
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Y	EVOLUTION SERIES 4AT	4" FLOOR BOX WITH QUAD OUTLET	#4ATCP4RXX 3
X	EVOLUTION SERIES 4AT	4" FLOOR BOX WITH DUPLEX OUTLET AND LOW VOLTAGE OUTLET	#4ATCP2RBK 3 2
W	EVOLUTION SERIES 6AT	6" FLOOR BOX WITH QUAD OUTLET AND LOW VOLTAGE OUTLET	#6ATCP2RXX 3 2
V	EVOLUTION SERIES 6AT	6" FURNITURE FEED WITH LOW VOLTAGE COMPARTMENT	#6ATCPFFXX 32

- (1) COORDINATE FLOOR BOX DEPTH PRIOR TO ORDERING.
- 2 COORDINATE LOW VOLTAGE REQUIREMENTS WITH LOW VOLTAGE DRAWINGS.
- 3 ALL EVOLUTION SERIES POKE-THRU DEVICES SHALL BE "RECESSED" TYPE.

 COORDINATE FLOOR BOX COVERS/FINISHES TO MATCH AS BEST AS POSSIBLE.





KEY NOTES

KEYNOTES ARE TYPICAL FOR ALL ENLARED POWER PLAN SHEETS. INDIVIDUAL KEYNOTES MAY NOT APPEAR ON EACH SHEET.

- 1) PROVIDE A 4-CIRCUIT, 8-WIRE FEED TO SYSTEM FURNITURE PRE-WIRED WHIP.
- PROVIDE WIREMOLD S-4000 STAINLESS STEEL, TWO-PIECE DUAL SYSTEM RACEWAY WITH DIVIDER. PROVIDE NEMA 5-20R DEVICES AT 36" OVER COUNTER. COORDINATE WITH LOW VOLTAGE DRAWINGS FOR ADDITIONAL REQUIREMENTS.
- 3 INTERCEPT AND EXTEND EXISTING CIRCUIT TO NEW OUTLET.
- PROVIDE FLOOR BOX, WIREMOLD RATCHET-PRO SERIES OR EQUAL WITH BRUSHED ALUMINUM COVER PLATE, REFER TO "AT GRADE FLOOR BOX SCHEDULE" FOR DETAILS. COORDINATE EXACT LOCATION WITH STRUCTURAL ENGINEER, ARCHITECT, AND FURNITURE LAYOUT. COORDINATE TRENCH ROUTING WITH ARCHITECT AND STRUCTURAL ENGINEER. CONTRACTOR TO SUBMIT SPECIFICS ON DEVICE QUANTITY AND COVER PLATES.
- PROVIDE EVOLUTION POKE—THRU FLOOR BOX OR EQUAL WITH BRUSHED ALUMINUM COVER PLATE. REFER TO "POKE—THRU FLOOR BOX SCHEDULE" FOR DETAILS. COORDINATE EXACT LOCATION WITH STRUCTURAL ENGINEER, ARCHITECT, AND FURNITURE LAYOUT. CONTRACTOR TO SUBMIT SPECIFICS ON DEVICE QUANTITY AND COVER PLATES.
- PROVIDE OUTLET AT 54"AFF FOR DIGITAL DISPLAY. COORDINATE EXACT HEIGHT AND LOCATION WITH ARCHITECT PRIOR TO ROUGH—IN.
- PROVIDE POWER FOR UNDERSINK INSTAHOT HOT WATER HEATER. REFER TO PLUMBING EQUIPMENT SCHEDULE ON SHEET E051 FOR ADDITIONAL INFORMATION INCLUDING LOCAL DISCONNECT REQUIREMENTS AND FEEDER SIZE.
- PROVIDE SURFACE MOUNT RACEWAY RISER ON EXISTING PLASTER WALL. RACEWAY SHALL BE PAINTED TO MATCH.
- (9) PROVIDE POWER AT POWERED STOREFRONT DOOR.
- 10 PROVIDE POWER FOR BOOK DETECTION GATES.
- 11) PROVIDE POWER FOR CHILLED WATER FOUNTAIN/BOTTLE FILLER.
- PROVIDE WIREMOLD S-4000 STAINLESS STEEL, TWO-PIECE DUAL SYSTEM RACEWAY WITH DIVIDER. PROVIDE 5-20R DEVICES UNDER COUNTER.
- PROVIDE POWER FOR ILLLUMINATED DISPLAY CABINET. COORDINATE EXACT LOCATION WITH ARCHITECT PRIOR TO ROUGH-IN.
- PROVIDE CIRCUIT AS INDICATED FOR SEATING BENCH. COORDINATE EXACT LOCATION WITH ARCHITECT PRIOR TO ROUGH—IN. PROVIDE NEMA 5—20L RECEPTACLE. COORDINATE OUTLET CONFIGURATION WITH SYSTEMS FURNITURE MANUFACTURER PRIOR TO ROUGH—IN.
- PROVIDE PENETRATION THROUGH EXISTING PLASTER WALL TO BACK OF HOUSE AREA FOR NEW OUTLET ON EXISTING PLASTER WALL. PROVIDE SURFACE MOUNT RACEWAY IN BACK OF HOUSE AREA, REFER TO DETAIL #4, SHEET E0.91.
- LOW VOLTAGE CONDUIT ALSO REQUIRED. COORDINATE WITH LOW VOLTAGE DRAWINGS FOR ADDITIONAL REQUIREMENTS.
- PROVIDE 120V POWER FOR SYCHRONIZED CLOCK AT 8FT ABOVE FINISHED FLOOR. COORDINATE EXACT LOCATION WITH ARCHITECT PRIOR TO ROUGH-IN.



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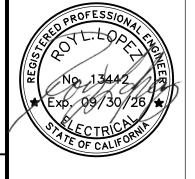
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GENERAL NOTES

- 1. THE ELECTRICAL DRAWINGS ARE DIAGRAMMATIC ONLY. DO NOT SCALE THE ELECTRICAL DRAWINGS TO DETERMINE THE LOCATION OF EQUIPMENT OR OUTLETS.
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- S. CONTRACTOR IS RESPONSIBLE TO RELOCATE OR REMOVE FROM WALLS, CEILINGS, FLOOR SPACES, ETC. ANY EXISTING CONDUITS, WIRES, BOXES, FITTINGS, FIXTURES OR OTHER ELECTRICAL EQUIPMENT WHICH INTERFERES WITH PLANNED REMODEL WORK. PROVIDE CIRCUIT CONTINUATION REQUIRED FOR ALL EXISTING OUTLETS, FIXTURES, EQUIPMENT,
- 4. NOTIFY THE ENGINEER IMMEDIATELY WHEREVER EXISTING EQUIPMENT IS ENCOUNTERED WHICH MUST BE RELOCATED DUE TO THE NEW CONSTRUCTION, OR NOT INDICATED ON "AS-BUILT" DRAWINGS OR WAS BURIED UNDERGROUND OR EMBEDDED IN STRUCTURE WALLS.

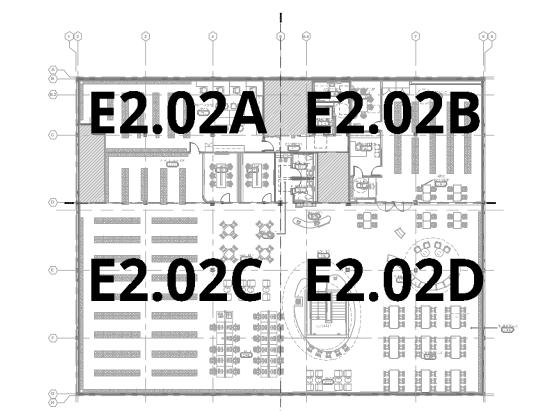
ETC. SCHEDULED TO REMAIN.

- 5. CAREFULLY PROTECT ALL WALLS, TRIM, FLOORS, EQUIPMENT, UTILITY LINES AND MATERIALS. WHEN WORKING ON FINISHED SURFACES, LIMIT DAMAGE TO THE SMALLER AREA IF POSSIBLE AND RESTORE TO THE ORIGINAL CONDITION ALL SURFACES WHICH ARE DAMAGED BECAUSE OF THE INSTALLATION OF THIS WORK.
- 6. EQUIPMENT, MATERIALS AND SUPPLIES TEMPORARILY REMOVED FOR PROTECTION SHALL BE REPLACED IN ORIGINAL LOCATIONS. ANY MATERIALS DAMAGED SHALL BE REPLACED WITH NEW MATERIALS OF LIKE KIND AND QUALITY.

. DEMOLITION WORK SHALL BE DONE IN A MANNER WHICH WILL NOT CAUSE UNNECESSARY

- INCONVENIENCE OR DANGER TO USERS OF THE PREMISES AND ADJACENT SITE, AND NOT INTERFERE WITH ITS OPERATION. ANY DEMOLITION WORK TO BE PERFORMED MUST BE PLANNED IN ADVANCE.
- 8. DO ALL DRILLING, CUTTING, ETC. REQUIRED TO DEMOLISH ELECTRICAL WORK AS INDICATED OR PROVIDE BLANK COVER PLATE ON ALL OUTLETS EXPOSED BY REMOVAL OF FIXTURE OF DEVICES.
- 9. RESEAL ALL PENETRATIONS OR OPENING THROUGH WALLS, CEILING, FLOORS, ETC., TO MAINTAIN THE RATING OF STRUCTURE.
- 10. ALL REMOVED MATERIALS AND EQUIPMENT WHICH IS SALVAGED MATERIALS SHALL REMAIN IN THE PROPERTY OF THE OWNER. DELIVER SUCH SALVAGED MATERIALS AND EQUIPMENT ON THE PREMISES AS DIRECTED BY OWNER AND NEATLY PILE OR STORE THEM AND PROTECT FROM DAMAGED. DISPOSE OF ALL HAZARDOUS MATERIAL PER GUIDELINE OF THE STATE OF CALIFORNIA, DEPARTMENT OF HEALTH SERVICES AND OTHER AGENCIES HAVING JURISDICTION.
- 11. CONTRACTOR SHALL FIELD VERIFY EXISTING CONDUIT/WRING RUNS, REUSE AS REQUIRE AND REMOVED ALL UNUSED CONDUIT/WRING. UNUSED CONDUIT IN INACCESSIBLE LOCATIONS (WALLS TO REMAIN) CAN BE ABANDONED IN PLACE. REMOVE UNUSED
- 12. REFER TO SHEET E051 FOR MECHANICAL AND PLUMBING EQUIPMENT ELECTRICAL CONNECTION SCHEDULE FOR FEEDER SIZE, DISCONNECT SIZE, AND ADDITIONAL INFORMATION.







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DRAWN Author
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DATE 07/15/2025

SECOND FLOOR ELECTRICAL PLAN SEGMENT A

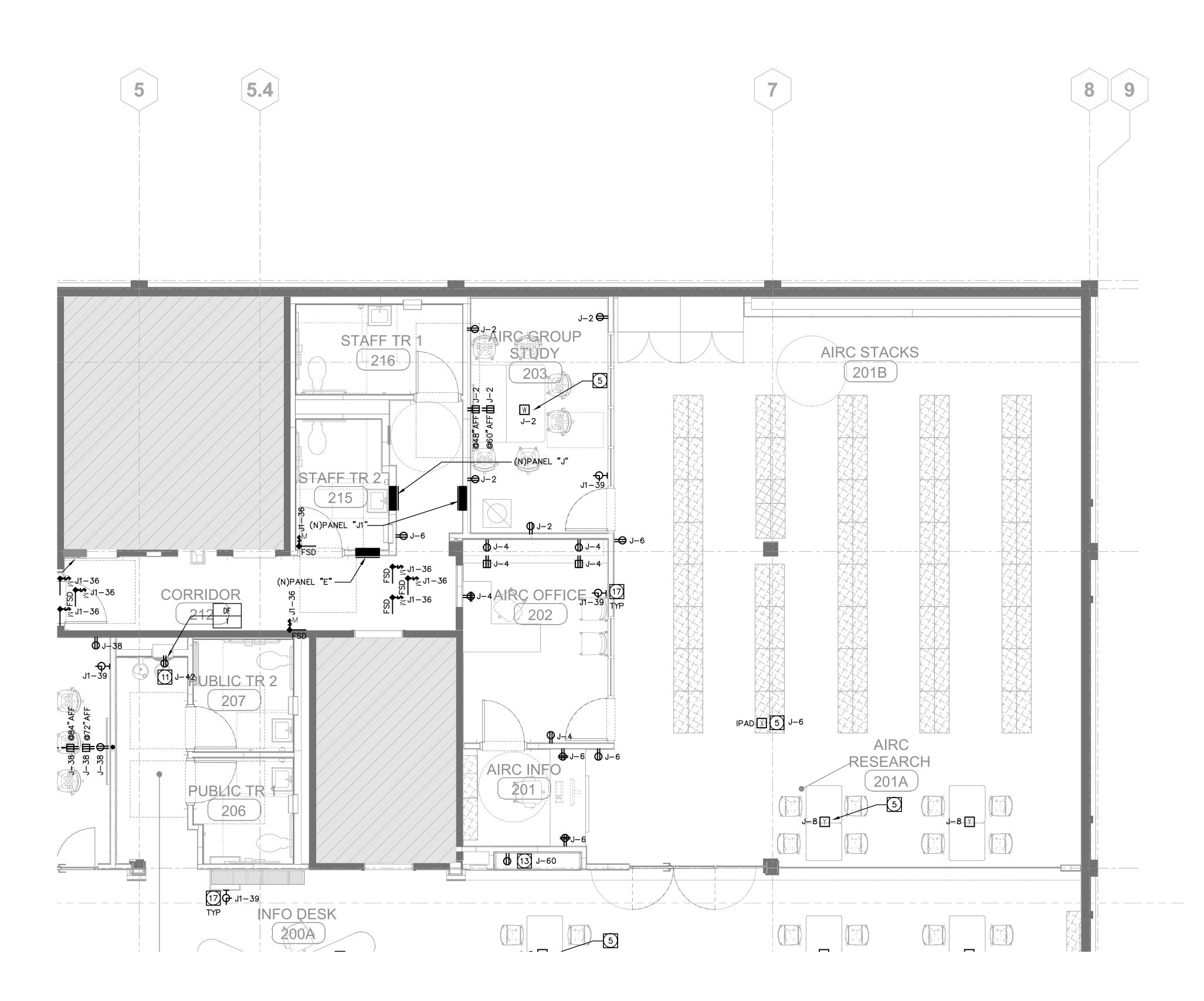
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SECOND FLOOR ELECTRICAL PLAN - SEGMENT A

SCALE: 1/4" = 1'-0"

SY	YMBOL	MODEL	DESCRIPTION	MODEL #)
	Z	EVOLUTION SERIES 4AT	4" FLOOR BOX WITH DUPLEX OUTLET	#4ATCP2RXX WITH #4B BLANK DEVICE PLATE 3)
	Y	EVOLUTION SERIES 4AT	4" FLOOR BOX WITH QUAD OUTLET	#4ATCP4RXX 3)
	X	EVOLUTION SERIES 4AT	4" FLOOR BOX WITH DUPLEX OUTLET AND LOW VOLTAGE OUTLET	#4ATCP2RBK 3	2
	W	EVOLUTION SERIES 6AT	6" FLOOR BOX WITH QUAD OUTLET AND LOW VOLTAGE OUTLET	#6ATCP2RXX	2
	٧	EVOLUTION SERIES 6AT	6" FURNITURE FEED WITH LOW VOLTAGE COMPARTMENT	#6ATCPFFXX 3	(2)

- (1) COORDINATE FLOOR BOX DEPTH PRIOR TO ORDERING.
- (2) COORDINATE LOW VOLTAGE REQUIREMENTS WITH LOW VOLTAGE DRAWINGS.
- (3) ALL EVOLUTION SERIES POKE-THRU DEVICES SHALL BE "RECESSED" TYPE. COORDINATE FLOOR BOX COVERS/FINISHES TO MATCH AS BEST AS POSSIBLE.





KEY NOTES

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- PROVIDE WIREMOLD S-4000 STAINLESS STEEL, TWO-PIECE DUAL SYSTEM RACEWAY WITH DIVIDER. PROVIDE NEMA 5-20R DEVICES AT 36" OVER COUNTER. COORDINATE WITH LOW VOLTAGE DRAWINGS FOR ADDITIONAL REQUIREMENTS.
- (3) INTERCEPT AND EXTEND EXISTING CIRCUIT TO NEW OUTLET.
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- PROVIDE POWER FOR UNDERSINK INSTAHOT HOT WATER HEATER. REFER TO PLUMBING EQUIPMENT SCHEDULE ON SHEET E051 FOR ADDITIONAL INFORMATION INCLUDING LOCAL DISCONNECT REQUIREMENTS AND FEEDER SIZE.
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- (9) PROVIDE POWER AT POWERED STOREFRONT DOOR.
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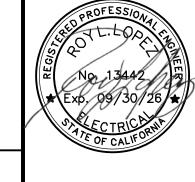
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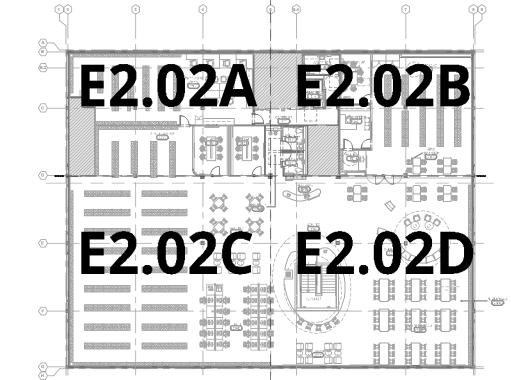
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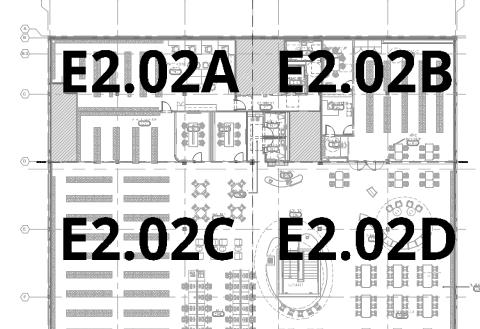
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- 5. CAREFULLY PROTECT ALL WALLS, TRIM, FLOORS, EQUIPMENT, UTILITY LINES AND MATERIALS. WHEN WORKING ON FINISHED SURFACES, LIMIT DAMAGE TO THE SMALLER AREA IF POSSIBLE AND RESTORE TO THE ORIGINAL CONDITION ALL SURFACES WHICH ARE DAMAGED BECAUSE OF THE INSTALLATION OF THIS WORK.
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KEYPLAN





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SECOND FLOOR

ELECTRICAL PLAN

SEGMENT B

E2.02B

#RFBA4R300G-(2) RFBADP20TR-RFBADEC

QUAD OUTLET WITH LOW VOLTAGE COMPARTMENT

	SYMBOL	MODEL	DESCRIPTION	MODEL #	
Z		EVOLUTION SERIES 4AT	4" FLOOR BOX WITH DUPLEX OUTLET	#4ATCP2RXX WITH #4B BLANK DEVICE PLATE 3	
	Y	EVOLUTION SERIES 4AT	4" FLOOR BOX WITH QUAD OUTLET	#4ATCP4RXX 3	
	X	EVOLUTION SERIES 4AT	4" FLOOR BOX WITH DUPLEX OUTLET AND LOW VOLTAGE OUTLET	#4ATCP2RBK 32	\sum
	W	EVOLUTION SERIES 6AT	6" FLOOR BOX WITH QUAD OUTLET AND LOW VOLTAGE OUTLET	#6ATCP2RXX 32	$\overline{)}$
	V	EVOLUTION SERIES 6AT	6" FURNITURE FEED WITH LOW VOLTAGE COMPARTMENT	#6ATCPFFXX 32	\int

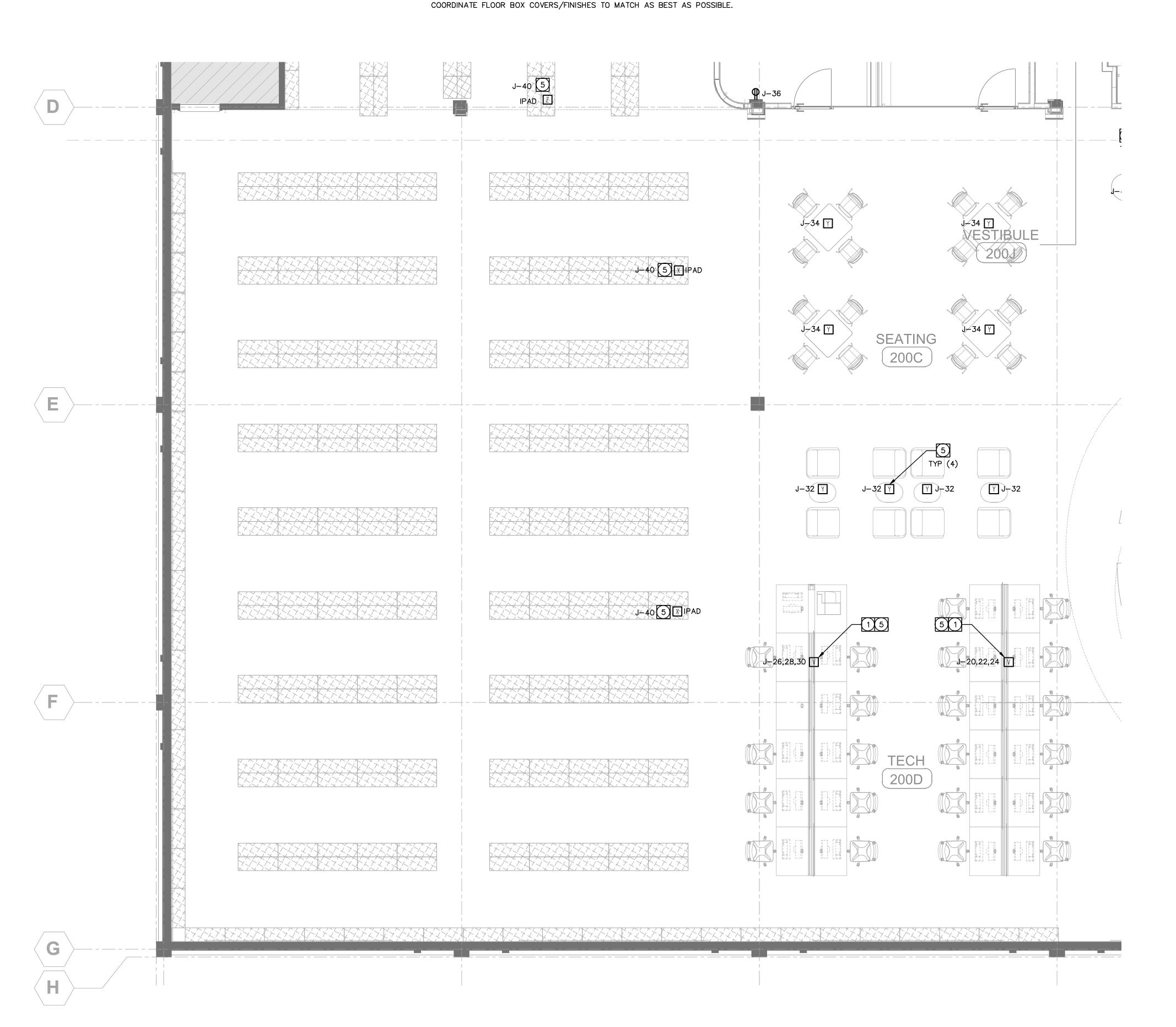
FLOOR BOX SCHEDULE NOTES

(1) COORDINATE FLOOR BOX DEPTH PRIOR TO ORDERING.

SYMBOL MODEL

RFBA SERIES 6-GANG W/

- (2) COORDINATE LOW VOLTAGE REQUIREMENTS WITH LOW VOLTAGE DRAWINGS.
- (3) ALL EVOLUTION SERIES POKE-THRU DEVICES SHALL BE "RECESSED" TYPE.



KEY NOTES

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(3) INTERCEPT AND EXTEND EXISTING CIRCUIT TO NEW OUTLET.

PROVIDE FLOOR BOX, WIREMOLD RATCHET—PRO SERIES OR EQUAL WITH BRUSHED ALUMINUM COVER PLATE, REFER TO "AT GRADE FLOOR BOX SCHEDULE" FOR DETAILS. COORDINATE EXACT LOCATION WITH STRUCTURAL ENGINEER, ARCHITECT, AND FURNITURE LAYOUT. COORDINATE TRENCH ROUTING WITH ARCHITECT AND STRUCTURAL ENGINEER. CONTRACTOR TO SUBMIT SPECIFICS ON DEVICE QUANTITY AND COVER PLATES.

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PROVIDE POWER FOR UNDERSINK INSTAHOT HOT WATER HEATER. REFER TO PLUMBING EQUIPMENT SCHEDULE ON SHEET E051 FOR ADDITIONAL INFORMATION INCLUDING LOCAL DISCONNECT REQUIREMENTS AND FEEDER SIZE.

PROVIDE SURFACE MOUNT RACEWAY RISER ON EXISTING PLASTER WALL. RACEWAY SHALL BE PAINTED TO MATCH.

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PROVIDE CIRCUIT AS INDICATED FOR SEATING BENCH. COORDINATE EXACT LOCATION WITH ARCHITECT PRIOR TO ROUGH—IN. PROVIDE NEMA 5—20L RECEPTACLE. COORDINATE OUTLET CONFIGURATION WITH SYSTEMS FURNITURE MANUFACTURER PRIOR TO ROUGH-IN.

PROVIDE PENETRATION THROUGH EXISTING PLASTER WALL TO BACK OF HOUSE AREA FOR NEW OUTLET ON EXISTING PLASTER WALL. PROVIDE SURFACE MOUNT RACEWAY IN BACK OF HOUSE AREA. REFER TO DETAIL #4, SHEET E0.91. LOW VOLTAGE CONDUIT ALSO REQUIRED. COORDINATE WITH LOW VOLTAGE DRAWINGS FOR ADDITIONAL REQUIREMENTS.

(17) PROVIDE 120V POWER FOR SYCHRONIZED CLOCK AT 8FT ABOVE FINISHED FLOOR. ∠ COORDINATE EXACT LOCATION WITH ARCHITECT PRIOR TO ROUGH—IN.

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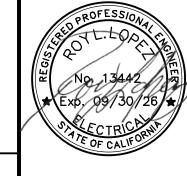
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GENERAL NOTES

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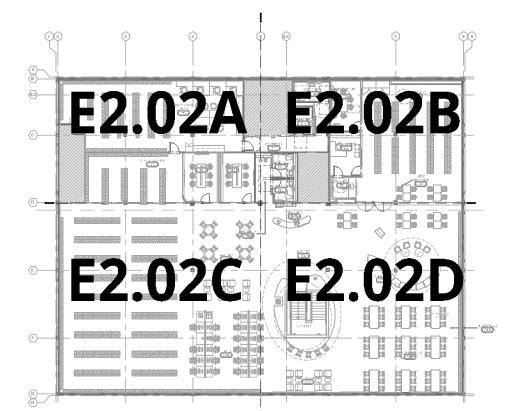
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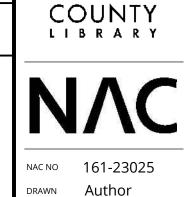
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KEYPLAN





CHECKED Checker DATE 07/15/2025

> SECOND FLOOR ELECTRICAL PLAN SEGMENT C

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SECOND FLOOR ELECTRICAL PLAN - SEGMENT C SCALE: 1/4" = 1'-0"

PROVIDE WIREMOLD S-4000 STAINLESS STEEL, TWO-PIECE DUAL SYSTEM RACEWAY WITH DIVIDER. PROVIDE NEMA 5-20R DEVICES AT 36" OVER COUNTER. COORDINATE WITH LOW VOLTAGE DRAWINGS FOR ADDITIONAL REQUIREMENTS.

(3) INTERCEPT AND EXTEND EXISTING CIRCUIT TO NEW OUTLET.

PROVIDE FLOOR BOX, WIREMOLD RATCHET—PRO SERIES OR EQUAL WITH BRUSHED ALUMINUM COVER PLATE, REFER TO "AT GRADE FLOOR BOX SCHEDULE" FOR DETAILS. COORDINATE EXACT LOCATION WITH STRUCTURAL ENGINEER, ARCHITECT, AND FURNITURE LAYOUT. COORDINATE TRENCH ROUTING WITH ARCHITECT AND STRUCTURAL ENGINEER. CONTRACTOR TO SUBMIT SPECIFICS ON DEVICE QUANTITY AND COVER PLATES.

PROVIDE EVOLUTION POKE—THRU FLOOR BOX OR EQUAL WITH BRUSHED ALUMINUM COVER PLATE. REFER TO "POKE—THRU FLOOR BOX SCHEDULE" FOR DETAILS. COORDINATE EXACT LOCATION WITH STRUCTURAL ENGINEER, ARCHITECT, AND FURNITURE LAYOUT. CONTRACTOR TO SUBMIT SPECIFICS ON DEVICE QUANTITY AND COVER PLATES.

PROVIDE OUTLET AT 54"AFF FOR DIGITAL DISPLAY. COORDINATE EXACT HEIGHT AND LOCATION WITH ARCHITECT PRIOR TO ROUGH—IN.

PROVIDE POWER FOR UNDERSINK INSTAHOT HOT WATER HEATER. REFER TO PLUMBING EQUIPMENT SCHEDULE ON SHEET E051 FOR ADDITIONAL INFORMATION INCLUDING LOCAL DISCONNECT REQUIREMENTS AND FEEDER SIZE.

PROVIDE SURFACE MOUNT RACEWAY RISER ON EXISTING PLASTER WALL. RACEWAY SHALL BE PAINTED TO MATCH.

(9) PROVIDE POWER AT POWERED STOREFRONT DOOR.

[10] PROVIDE POWER FOR BOOK DETECTION GATES.

(11) PROVIDE POWER FOR CHILLED WATER FOUNTAIN/BOTTLE FILLER.

PROVIDE WIREMOLD S-4000 STAINLESS STEEL, TWO-PIECE DUAL SYSTEM RACEWAY WITH DIVIDER. PROVIDE 5-20R DEVICES UNDER COUNTER.

PROVIDE POWER FOR ILLLUMINATED DISPLAY CABINET. COORDINATE EXACT LOCATION WITH ARCHITECT PRIOR TO ROUGH—IN.

PROVIDE CIRCUIT AS INDICATED FOR SEATING BENCH. COORDINATE EXACT LOCATION WITH ARCHITECT PRIOR TO ROUGH-IN. PROVIDE NEMA 5-20L RECEPTACLE. COORDINATE OUTLET CONFIGURATION WITH SYSTEMS FURNITURE MANUFACTURER PRIOR TO ROUGH-IN.

PROVIDE PENETRATION THROUGH EXISTING PLASTER WALL TO BACK OF HOUSE AREA FOR NEW OUTLET ON EXISTING PLASTER WALL. PROVIDE SURFACE MOUNT RACEWAY IN BACK OF HOUSE AREA. REFER TO DETAIL #4, SHEET E0.91. LOW VOLTAGE CONDUIT ALSO REQUIRED. COORDINATE WITH LOW VOLTAGE DRAWINGS FOR ADDITIONAL REQUIREMENTS.

PROVIDE 120V POWER FOR SYCHRONIZED CLOCK AT 8FT ABOVE FINISHED FLOOR. COORDINATE EXACT LOCATION WITH ARCHITECT PRIOR TO ROUGH—IN.

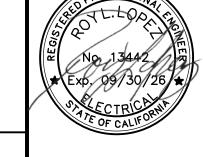


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GENERAL NOTES

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NOTIFY THE ENGINEER IMMEDIATELY WHEREVER EXISTING EQUIPMENT IS ENCOUNTERED WHICH MUST BE RELOCATED DUE TO THE NEW CONSTRUCTION, OR NOT INDICATED ON "AS-BUILT" DRAWINGS OR WAS BURIED UNDERGROUND OR EMBEDDED IN STRUCTURE

. CAREFULLY PROTECT ALL WALLS, TRIM, FLOORS, EQUIPMENT, UTILITY LINES AND MATERIALS. WHEN WORKING ON FINISHED SURFACES, LIMIT DAMAGE TO THE SMALLER AREA IF POSSIBLE AND RESTORE TO THE ORIGINAL CONDITION ALL SURFACES WHICH ARE DAMAGED BECAUSE OF THE INSTALLATION OF THIS WORK.

6. EQUIPMENT, MATERIALS AND SUPPLIES TEMPORARILY REMOVED FOR PROTECTION SHALL BE REPLACED IN ORIGINAL LOCATIONS. ANY MATERIALS DAMAGED SHALL BE REPLACED WITH NEW MATERIALS OF LIKE KIND AND QUALITY.

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8. DO ALL DRILLING, CUTTING, ETC. REQUIRED TO DEMOLISH ELECTRICAL WORK AS INDICATED OR PROVIDE BLANK COVER PLATE ON ALL OUTLETS EXPOSED BY REMOVAL OF FIXTURE OF DEVICES.

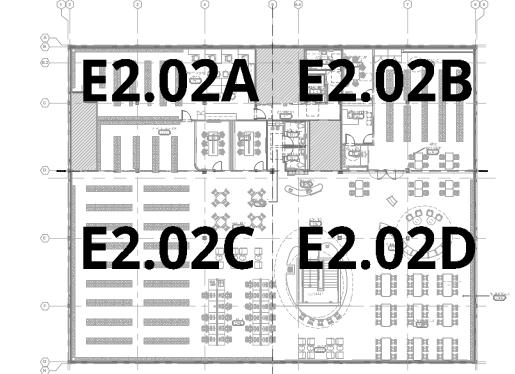
9. RESEAL ALL PENETRATIONS OR OPENING THROUGH WALLS, CEILING, FLOORS, ETC., TO MAINTAIN THE RATING OF STRUCTURE.

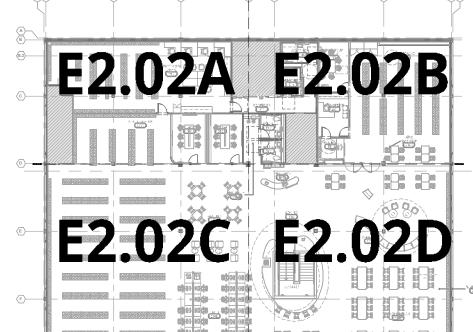
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11. CONTRACTOR SHALL FIELD VERIFY EXISTING CONDUIT/WIRING RUNS, REUSE AS REQUIRE AND REMOVED ALL UNUSED CONDUIT/WIRING. UNUSED CONDUIT IN INACCESSIBLE LOCATIONS (WALLS TO REMAIN) CAN BE ABANDONED IN PLACE. REMOVE UNUSED

12. REFER TO SHEET E051 FOR MECHANICAL AND PLUMBING EQUIPMENT ELECTRICAL CONNECTION SCHEDULE FOR FEEDER SIZE, DISCONNECT SIZE, AND ADDITIONAL

KEYPLAN





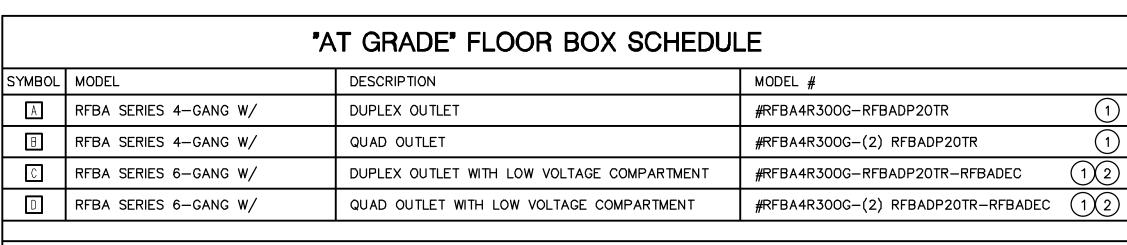
SECOND FLOOR ELECTRICAL PLAN SEGMENT D

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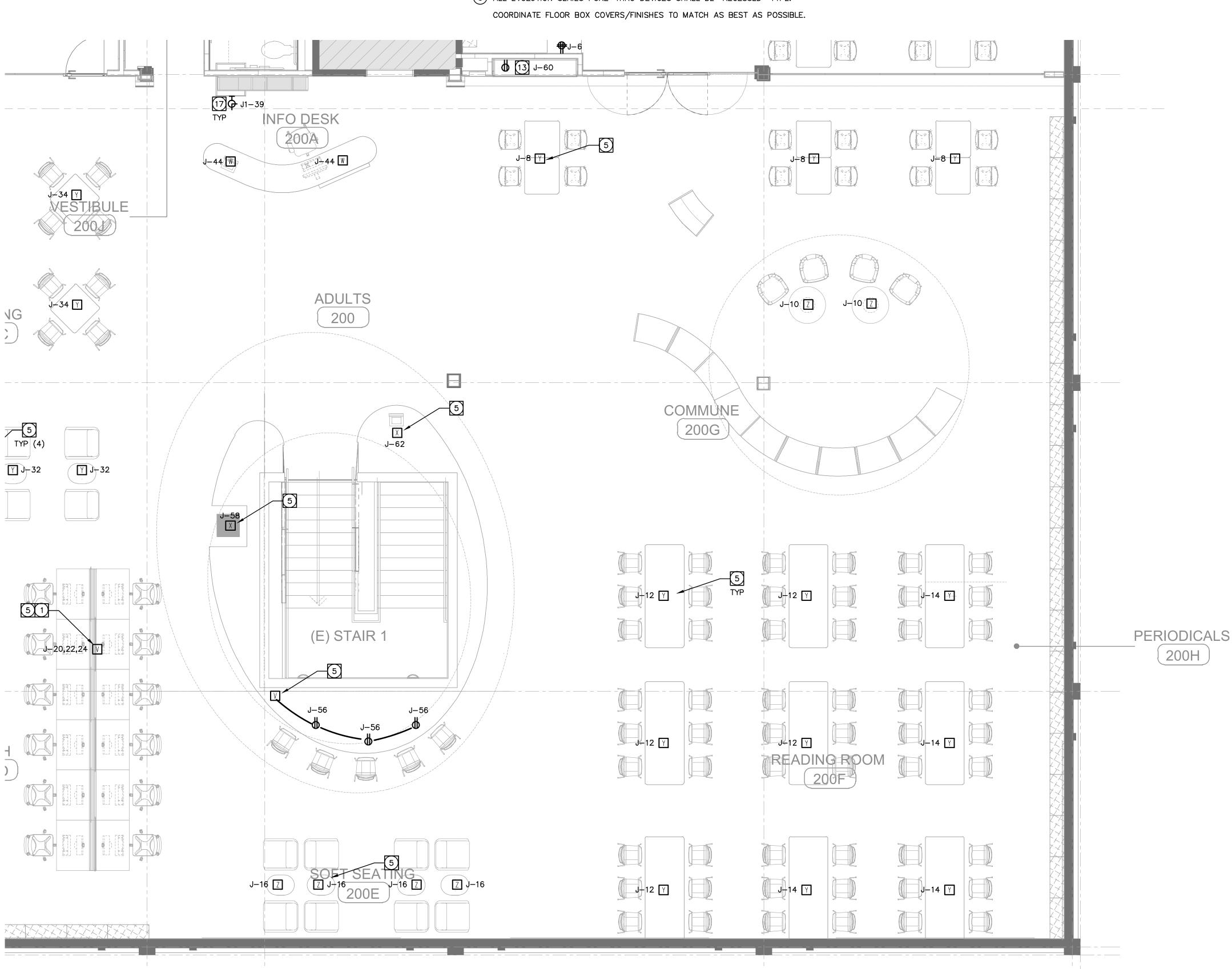


POKE-THRU FLOOR BOX SCHEDULE

SYMBOL	MODEL	DESCRIPTION	MODEL #
Z	EVOLUTION SERIES 4AT	4" FLOOR BOX WITH DUPLEX OUTLET	#4ATCP2RXX WITH #4B BLANK DEVICE PLATE 3
Υ	EVOLUTION SERIES 4AT	4" FLOOR BOX WITH QUAD OUTLET	#4ATCP4RXX 3
X	EVOLUTION SERIES 4AT	4" FLOOR BOX WITH DUPLEX OUTLET AND LOW VOLTAGE OUTLET	#4ATCP2RBK 32
W	EVOLUTION SERIES 6AT	6" FLOOR BOX WITH QUAD OUTLET AND LOW VOLTAGE OUTLET	#6ATCP2RXX 32
V	EVOLUTION SERIES 6AT	6" FURNITURE FEED WITH LOW VOLTAGE COMPARTMENT	#6ATCPFFXX 32

FLOOR BOX SCHEDULE NOTES

- (1) COORDINATE FLOOR BOX DEPTH PRIOR TO ORDERING.
- (2) COORDINATE LOW VOLTAGE REQUIREMENTS WITH LOW VOLTAGE DRAWINGS.
- (3) ALL EVOLUTION SERIES POKE-THRU DEVICES SHALL BE "RECESSED" TYPE.



SCALE: 1/4" = 1'-0"



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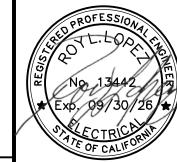
KEY NOTES

- 1) PROVIDE GROUND BUS. REFER TO DETAIL #3, SHEET E0.91.
- PROVIDE 208V, 3PH, 30A OUTLET FOR IT RACK UPS SYSTEM. COORDINATE WITH EQUIPMENT VENDER PRIOR TO ROUGH-IN. PROVIDE 3/4"C-4#10+1#10GND.
- REPLACE EXISTING PANEL WITH NEW LIKE KIND PANEL, REFER TO SINGLE LINE DIAGRAM SHEET E011 AND PANEL SCHEDULES SHEET E021 FOR ADDITIONAL INFORMATION.

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NAC NO 161-23025
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DATE 07/15/2025

THIRD FLOOR ELECTRICAL PLAN

CHECKED Checker DATE 07/15/2025

> FIRST FLOOR LIGHTING PLAN

FIRST FLOOR LIGHTING PLAN

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(B.2)

PRIMARY DAYLITE ZONE

SECONDARY DAYLITE ZONE -

BOOKSTACKS ARE ACCESSIBLE FROM BOTH ENDS AND LESS THAN 20FT,

108

SECONDARY DAYLITE ZONE

PRIMARY DAYLITE ZONE

E3.01

MOTION CONTROLS NOT REQUIRED

KEY NOTES

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PROVIDE LIGHTING CIRCUIT FOR STACK MOUNTED LIGHTS. COORDINATE EXACTION LOCATION WITH STACK PROVIDER. CIRCUITS TO BE ROUTED THROUGH STACKS TO LIGHTING WIRING

CHANNEL AT TOP OF THE STACK. (2) INDICATED DRC(S) SHALL BE LOCATED ADJACENT TO ELECTRICAL PANEL. DRC(S) SHOWN AT LOCATION FOR CONTROL REFERENCE ONLY. PROVIDE DETAILED LABEL ON JUNCTION BOX(ES)

HOUSING DRC(S) INDICATING THE AREA AND LIGHTS THAT THEY CONTROL PROVIDE MASTER LIGHTING CONTROL STATION, TOUCH SCREEN CONTROLLER/OVERRIDE STATION. COORDINATE EXACT LOCATION WITH OWNER PRIOR TO ROUGH—IN.

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- 14. VERIFY EXACT CEILING CONSTRUCTION WITH ARCHITECTURAL REFLECTED CEILING PLAN AND PROVIDE LIGHTING FIXTURES WITH ALL NECESSARY MOUNTING HARDWARE. 15. ALL RECESSED FIXTURES SHALL BE PROVIDED WITH ALL REQUIRED STRUCTURAL
- SUPPORTS AS REQUIRED BY THE CURRENTLY ADOPTED ISSUE OF THE UNIFORM BUILDING CODE, AS WELL AS ANY LOCAL CODES. 16. REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR EXIT SIGN CHEVRONS AND
- NUMBER OF FACES PER EXIT SIGN. ANY DISCREPANCIES BETWEEN EXIT SIGNS SHOWN ON THE ELECTRICAL AND ARCHITECTURAL PLANS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT PRIOR TO ORDERING EXIT SIGNS.
- 17. WHERE MULTIPLE HOMERUNS ARE SHOWN ON THE PLANS FOR THE SAME CIRCUIT, THEY SHALL BE COMBINED INTO A SINGLE HOMERUN.
- 18. HALF SHADED FIXTURES OR FIXTURES WITH "EM" INDICATE EMERGENCY LIGHTING FIXTURES. EMERGENCY LIGHTING FIXTURES SHALL BE POWERED BY EMERGENCY LIGHTING
- 19. ALL DIMMING BRANCH CIRCUITS SHALL BE PROVIDED WITH A DEDICATED NEUTRAL CONDUCTOR FOR EACH ZONE/CHANNEL.
- 20. ALL PENETRATIONS THROUGH FIRE RATED WALLS SHALL BE PROTECTED FROM THE SPREAD OF FIRE WITH AN APPROVED FIRE STOP SYSTEM EQUAL OR GREATER THAN THE FIRE RATING OF THE WALL.
- 21. REFER TO LIGHTING CONTROL DETAILS SHEET E075 FOR LIGHTING CONTROL REQUIREMENTS.
- 22. ALL EXPOSED LIGHTING CONTROL DEVICES SHALL BE INSTALLED IN LINE WITH THE ADJACENT LIGHT FIXTURES OR EXPOSED EQUIPMENT. COORDINATE WITH ARCHITECT FOR EXACT PLACEMENT.
- 23. FINAL LOCATION AND CALIBRATION OF PHOTO SENSORS AND OCCUPANCY SENSORS TO BE COORDINATED IN FIELD.
- 24. CONTRACTOR SHALL MEASURE WINDOW HEAD HEIGHT AND CONFIRM DAYLIT ZONES SHOWN PRIOR TO CIRCUITING LIGHTING FIXTURES IN ROOM(S) WITH DAYLIT ZONES.
- 25. WHERE ROOM CONTROLLER IS/ARE SHOWN TO BE LOCATED IN A ROOM WITH A HARD LID CEILING, THE ROOM CONTROLLER(S) SHALL BE PROVIDED WITH AN ACCESS PANEL OR SHALL BE LOCATED WITHIN NEAREST ACCESSIBLE CEILING SPACE. COORDINATE WITH
- 26. ALL NECESSARY EQUIPMENT/ COMPONENTS ARE TO BE PROVIDED BY THE CONTRACTOR FOR A COMPLETE AND OPERATING CONTROL SYSTEM. INCLUDING BUT NOT LIMITED TO COMMISSIONING, CABLING, EMERGENCY LIGHTING, OCCUPANCY SENSOR, DAYLIGHT CONTROLS, CONTROLLED RECEPTACLE RELAYS, DIMMING, AND DIMMING CONVERTERS TO MEET ALL IECC REQUIREMENTS AT TIME OF PERMIT SUBMITTAL AND INSPECTION. ALL COMPONENTS, EXCEPT FOR CONTROL STATIONS, SHALL BE ABOVE THE CEILING, CONCEALED FROM VIEW, OR INSTALLED IN NEMA 1 CABINETS IN CLOSETS OR UTILITY

PRIMARY DAYLITE ZONE

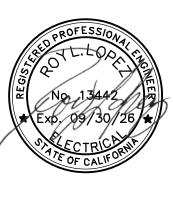
SECONDARY DAYLITE ZONE

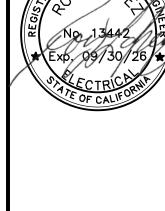
BOOKSTACKS ARE ACCESSIBLE FROM -

BOTH ENDS AND LESS THAN 20FT,

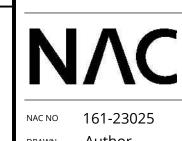
MOTION CONTROLS NOT REQUIRED

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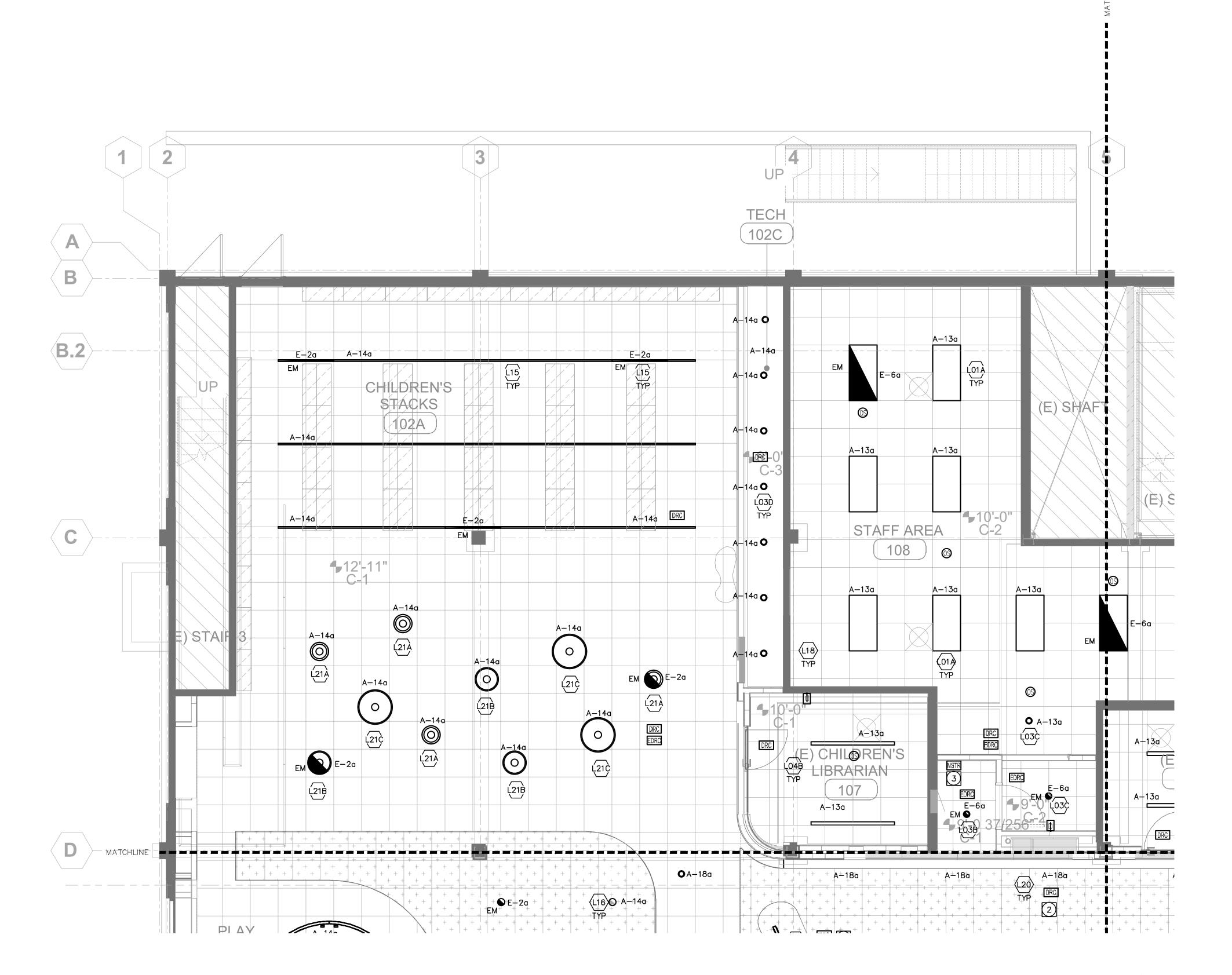




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> FIRST FLOOR LIGHTING PLAN SEGMENT A

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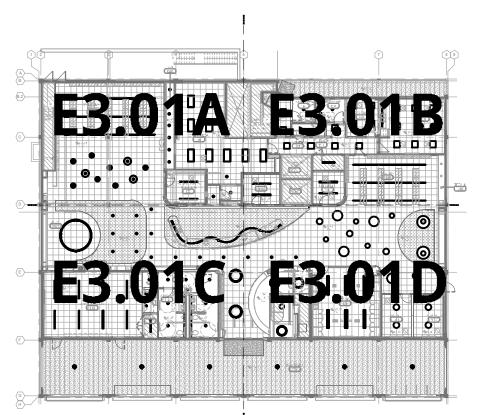
GENERAL NOTES

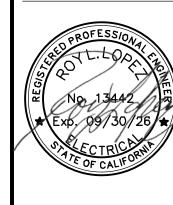
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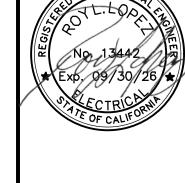
CODE, AS WELL AS ANY LOCAL CODES.

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- 14. VERIFY EXACT CEILING CONSTRUCTION WITH ARCHITECTURAL REFLECTED CEILING PLAN AND PROVIDE LIGHTING FIXTURES WITH ALL NECESSARY MOUNTING HARDWARE.
- 15. ALL RECESSED FIXTURES SHALL BE PROVIDED WITH ALL REQUIRED STRUCTURAL SUPPORTS AS REQUIRED BY THE CURRENTLY ADOPTED ISSUE OF THE UNIFORM BUILDING
- 16. REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR EXIT SIGN CHEVRONS AND NUMBER OF FACES PER EXIT SIGN. ANY DISCREPANCIES BETWEEN EXIT SIGNS SHOWN ON THE ELECTRICAL AND ARCHITECTURAL PLANS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT PRIOR TO ORDERING EXIT SIGNS.
- 17. WHERE MULTIPLE HOMERUNS ARE SHOWN ON THE PLANS FOR THE SAME CIRCUIT, THEY SHALL BE COMBINED INTO A SINGLE HOMERUN.
- 18. HALF SHADED FIXTURES OR FIXTURES WITH "EM" INDICATE EMERGENCY LIGHTING FIXTURES. EMERGENCY LIGHTING FIXTURES SHALL BE POWERED BY EMERGENCY LIGHTING
- 19. ALL DIMMING BRANCH CIRCUITS SHALL BE PROVIDED WITH A DEDICATED NEUTRAL CONDUCTOR FOR EACH ZONE/CHANNEL.
- 20. ALL PENETRATIONS THROUGH FIRE RATED WALLS SHALL BE PROTECTED FROM THE SPREAD OF FIRE WITH AN APPROVED FIRE STOP SYSTEM EQUAL OR GREATER THAN THE FIRE RATING OF THE WALL.
- 21. REFER TO LIGHTING CONTROL DETAILS SHEET E075 FOR LIGHTING CONTROL REQUIREMENTS.
- 22. ALL EXPOSED LIGHTING CONTROL DEVICES SHALL BE INSTALLED IN LINE WITH THE ADJACENT LIGHT FIXTURES OR EXPOSED EQUIPMENT. COORDINATE WITH ARCHITECT FOR EXACT PLACEMENT.
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- 24. CONTRACTOR SHALL MEASURE WINDOW HEAD HEIGHT AND CONFIRM DAYLIT ZONES SHOWN PRIOR TO CIRCUITING LIGHTING FIXTURES IN ROOM(S) WITH DAYLIT ZONES.
- 25. WHERE ROOM CONTROLLER IS/ARE SHOWN TO BE LOCATED IN A ROOM WITH A HARD LID CEILING, THE ROOM CONTROLLER(S) SHALL BE PROVIDED WITH AN ACCESS PANEL OR SHALL BE LOCATED WITHIN NEAREST ACCESSIBLE CEILING SPACE. COORDINATE WITH
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KEYPLAN







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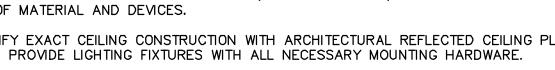
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15. ALL RECESSED FIXTURES SHALL BE PROVIDED WITH ALL REQUIRED STRUCTURAL

CODE, AS WELL AS ANY LOCAL CODES. 16. REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR EXIT SIGN CHEVRONS AND

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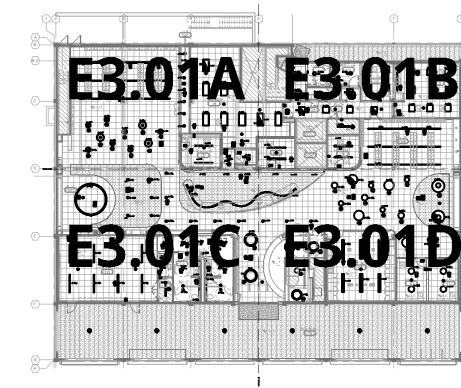
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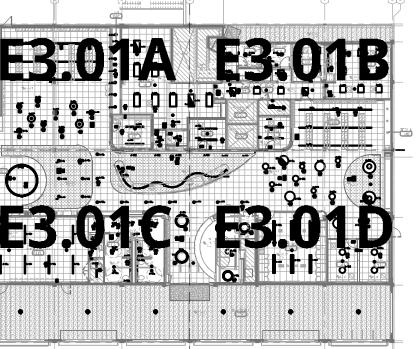
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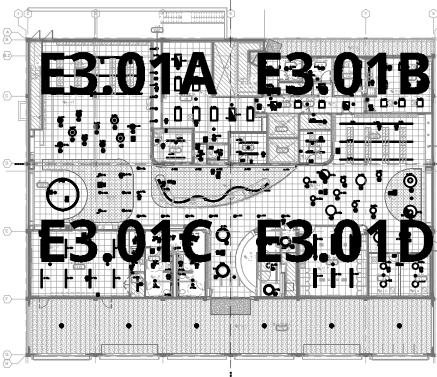
PROVIDE MASTER LIGHTING CONTROL STATION, TOUCH SCREEN CONTROLLER/OVERRIDE STATION. COORDINATE EXACT LOCATION WITH OWNER PRIOR TO ROUGH—IN.

(4) PROVIDE LIGHTING SCENE CONTROLLER TO CONTROL LIGHTS WITHIN THE ROOM. COORDINATE WITH OWNER FOR DESIRED SCENE PRESETS.

GENERAL NOTES

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- 2. THE EXISTING CONDITIONS SHOWN ARE FROM AVAILABLE RECORD DRAWINGS AND SHOWN FOR REFERENCE ONLY. CONTRACTOR SHALL VERIFY ACTUAL EXISTING CONDITIONS AT SITE PRIOR TO SUBMITTING BID. ALL DEMOLITION, ALTERATION, EXTENSION, RELOCATION, REHABILITATION WORK SHALL BE INCLUDED IN CONTRACT. NO ADDITIONAL ALLOWANCE OR CHANGE ORDERS WILL BE ACCEPTED.
- 3. CONTRACTOR IS RESPONSIBLE TO RELOCATE OR REMOVE FROM WALLS, CEILINGS, FLOOR SPACES, ETC. ANY EXISTING CONDUITS, WIRES, BOXES, FITTINGS, FIXTURES OR OTHER ELECTRICAL EQUIPMENT WHICH INTERFÉRES WITH PLANNED REMODEL WORK, PROVIDE CIRCUIT CONTINUATION REQUIRED FOR ALL EXISTING OUTLETS, FIXTURES, EQUIPMENT, ETC. SCHEDULED TO REMAIN.
- 4. NOTIFY THE ENGINEER IMMEDIATELY WHEREVER EXISTING EQUIPMENT IS ENCOUNTERED WHICH MUST BE RELOCATED DUE TO THE NEW CONSTRUCTION, OR NOT INDICATED ON "AS-BUILT" DRAWINGS OR WAS BURIED UNDERGROUND OR EMBEDDED IN STRUCTURE
- 5. CAREFULLY PROTECT ALL WALLS, TRIM, FLOORS, EQUIPMENT, UTILITY LINES AND MATERIALS. WHEN WORKING ON FINISHED SURFACES, LIMIT DAMAGE TO THE SMALLER AREA IF POSSIBLE AND RESTORE TO THE ORIGINAL CONDITION ALL SURFACES WHICH ARE DAMAGED BECAUSE OF THE INSTALLATION OF THIS WORK.
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KEYPLAN





DRC

(E) SHAFT

DRC

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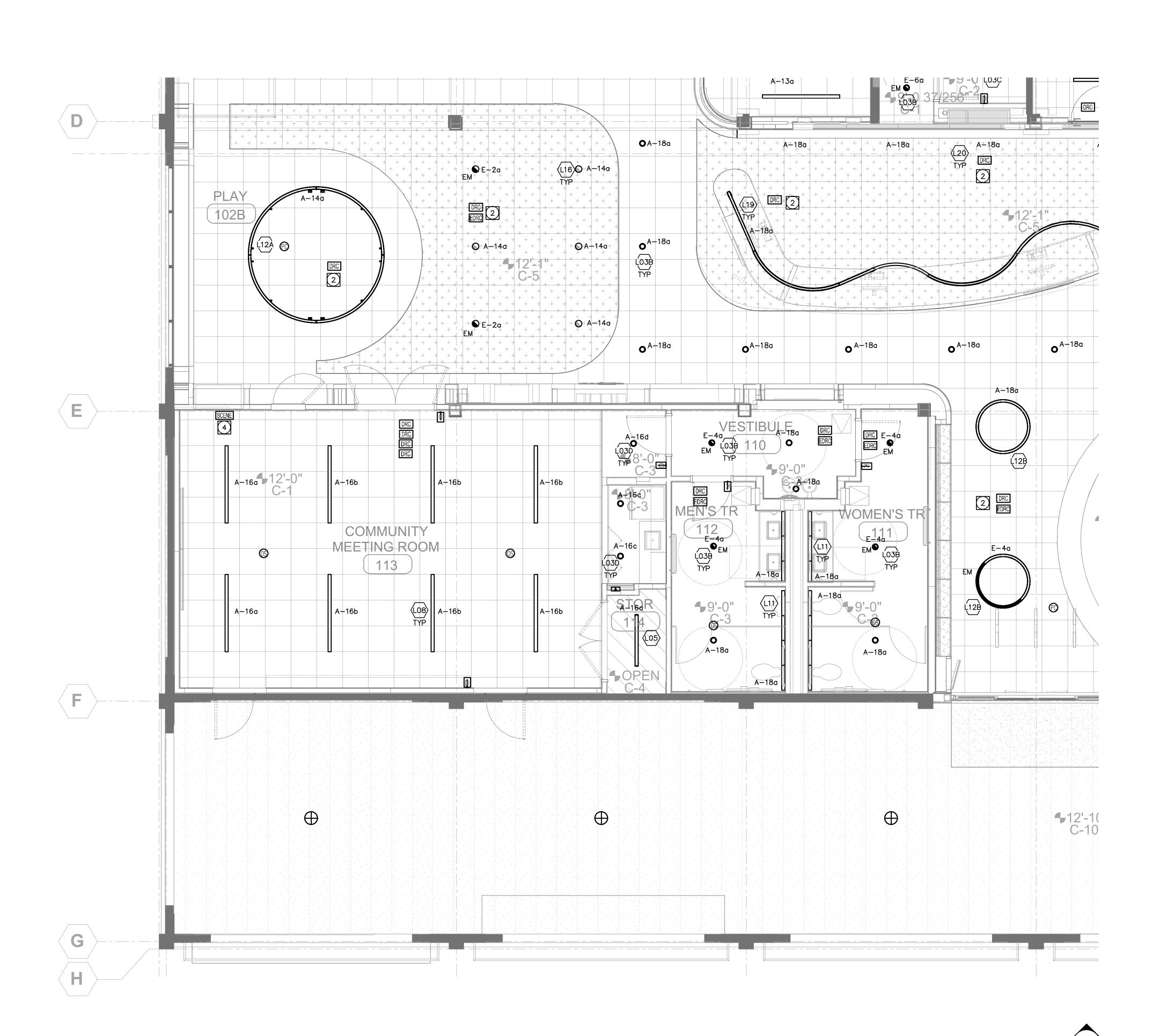
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FIRST FLOOR LIGHTING PLAN SEGMENT B

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FIRST FLOOR LIGHTING PLAN - SEGMENT C

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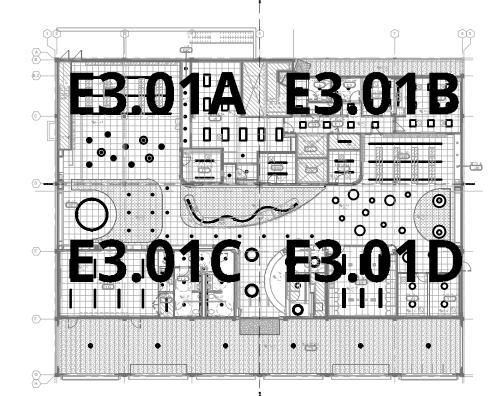
HOUSING DRC(S) INDICATING THE AREA AND LIGHTS THAT THEY CONTROL

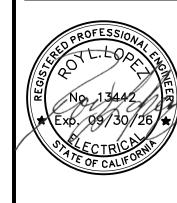
CHANNEL AT TOP OF THE STACK.

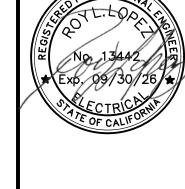
WITH OWNER FOR DESIRED SCENE PRESETS.

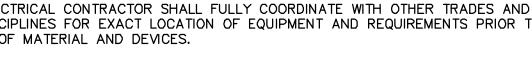
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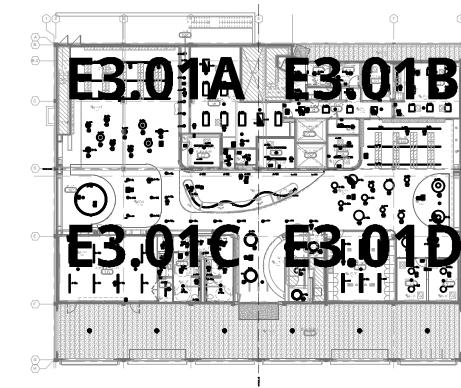
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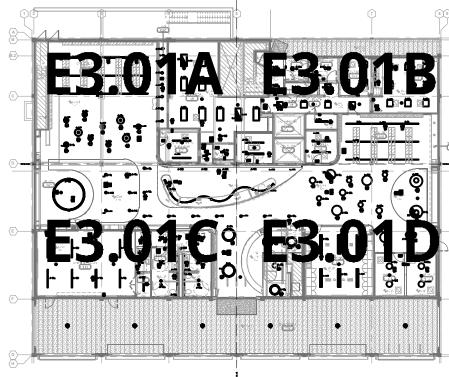
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- 13. ELECTRICAL CONTRACTOR SHALL FULLY COORDINATE WITH OTHER TRADES AND DISCIPLINES FOR EXACT LOCATION OF EQUIPMENT AND REQUIREMENTS PRIOR TO ROUGH IN OF MATERIAL AND DEVICES.
- 14. VERIFY EXACT CEILING CONSTRUCTION WITH ARCHITECTURAL REFLECTED CEILING PLAN
- 18. HALF SHADED FIXTURES OR FIXTURES WITH "EM" INDICATE EMERGENCY LIGHTING FIXTURES. EMERGENCY LIGHTING FIXTURES SHALL BE POWERED BY EMERGENCY LIGHTING
- 19. ALL DIMMING BRANCH CIRCUITS SHALL BE PROVIDED WITH A DEDICATED NEUTRAL
- 20. ALL PENETRATIONS THROUGH FIRE RATED WALLS SHALL BE PROTECTED FROM THE SPREAD OF FIRE WITH AN APPROVED FIRE STOP SYSTEM EQUAL OR GREATER THAN THE FIRE RATING OF THE WALL.
- 22. ALL EXPOSED LIGHTING CONTROL DEVICES SHALL BE INSTALLED IN LINE WITH THE ADJACENT LIGHT FIXTURES OR EXPOSED EQUIPMENT. COORDINATE WITH ARCHITECT FOR
- 23. FINAL LOCATION AND CALIBRATION OF PHOTO SENSORS AND OCCUPANCY SENSORS TO
- 24. CONTRACTOR SHALL MEASURE WINDOW HEAD HEIGHT AND CONFIRM DAYLIT ZONES
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KEYPLAN





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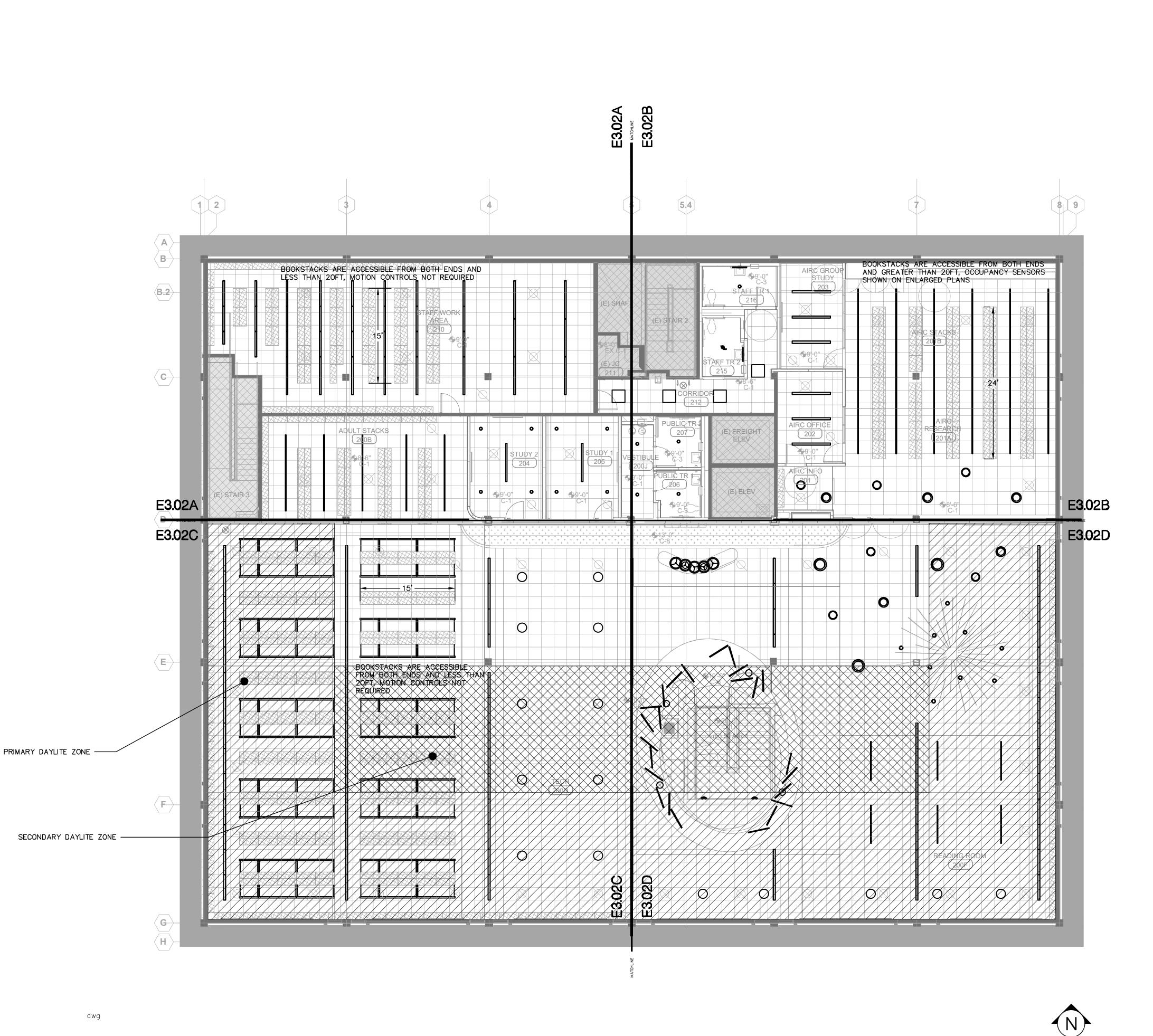
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SECOND FLOOR LIGHTING PLAN



SECOND FLOOR LIGHTING PLAN

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(2) INDICATED DRC(S) SHALL BE LOCATED ADJACENT TO ELECTRICAL PANEL. DRC(S) SHOWN AT LOCATION FOR CONTROL REFERENCE ONLY. PROVIDE DETAILED LABEL ON JUNCTION BOX(ES) HOUSING DRC(S) INDICATING THE AREA AND LIGHTS THAT THEY CONTROL

PROVIDE MASTER LIGHTING CONTROL STATION, TOUCH SCREEN CONTROLLER/OVERRIDE STATION. COORDINATE EXACT LOCATION WITH OWNER PRIOR TO ROUGH—IN.

(4) PROVIDE LIGHTING SCENE CONTROLLER TO CONTROL LIGHTS WITHIN THE ROOM. COORDINATE WITH OWNER FOR DESIRED SCENE PRESETS.

GENERAL NOTES

- 1. THE ELECTRICAL DRAWINGS ARE DIAGRAMMATIC ONLY. DO NOT SCALE THE ELECTRICAL DRAWINGS TO DETERMINE THE LOCATION OF EQUIPMENT OR OUTLETS.
- 2. THE EXISTING CONDITIONS SHOWN ARE FROM AVAILABLE RECORD DRAWINGS AND SHOWN FOR REFERENCE ONLY. CONTRACTOR SHALL VERIFY ACTUAL EXISTING CONDITIONS AT SITE PRIOR TO SUBMITTING BID. ALL DEMOLITION, ALTERATION, EXTENSION, RELOCATION, REHABILITATION WORK SHALL BE INCLUDED IN CONTRACT. NO ADDITIONAL ALLOWANCE OR CHANGE ORDERS WILL BE ACCEPTED.
- 3. CONTRACTOR IS RESPONSIBLE TO RELOCATE OR REMOVE FROM WALLS, CEILINGS, FLOOR SPACES, ETC. ANY EXISTING CONDUITS, WIRES, BOXES, FITTINGS, FIXTURES OR OTHER ELECTRICAL EQUIPMENT WHICH INTERFÉRES WITH PLANNED REMODEL WORK, PROVIDE CIRCUIT CONTINUATION REQUIRED FOR ALL EXISTING OUTLETS, FIXTURES, EQUIPMENT, ETC. SCHEDULED TO REMAIN.
- 4. NOTIFY THE ENGINEER IMMEDIATELY WHEREVER EXISTING EQUIPMENT IS ENCOUNTERED WHICH MUST BE RELOCATED DUE TO THE NEW CONSTRUCTION, OR NOT INDICATED ON "AS-BUILT" DRAWINGS OR WAS BURIED UNDERGROUND OR EMBEDDED IN STRUCTURE
- 5. CAREFULLY PROTECT ALL WALLS, TRIM, FLOORS, EQUIPMENT, UTILITY LINES AND MATERIALS. WHEN WORKING ON FINISHED SURFACES, LIMIT DAMAGE TO THE SMALLER AREA IF POSSIBLE AND RESTORE TO THE ORIGINAL CONDITION ALL SURFACES WHICH ARE DAMAGED BECAUSE OF THE INSTALLATION OF THIS WORK.
- 6. EQUIPMENT, MATERIALS AND SUPPLIES TEMPORARILY REMOVED FOR PROTECTION SHALL BE REPLACED IN ORIGINAL LOCATIONS. ANY MATERIALS DAMAGED SHALL BE REPLACED WITH NEW MATERIALS OF LIKE KIND AND QUALITY.
- 7. DEMOLITION WORK SHALL BE DONE IN A MANNER WHICH WILL NOT CAUSE UNNECESSARY INCONVENIENCE OR DANGER TO USERS OF THE PREMISES AND ADJACENT SITE, AND NOT INTERFERE WITH ITS OPERATION. ANY DEMOLITION WORK TO BE PERFORMED MUST BE PLANNED IN ADVANCE.
- 8. DO ALL DRILLING, CUTTING, ETC. REQUIRED TO DEMOLISH ELECTRICAL WORK AS INDICATED OR PROVIDE BLANK COVER PLATE ON ALL OUTLETS EXPOSED BY REMOVAL OF FIXTURE OF DEVICES.
- 9. RESEAL ALL PENETRATIONS OR OPENING THROUGH WALLS, CEILING, FLOORS, ETC., TO MAINTAIN THE RATING OF STRUCTURE.
- 10. ALL REMOVED MATERIALS AND EQUIPMENT WHICH IS SALVAGED MATERIALS SHALL REMAIN IN THE PROPERTY OF THE OWNER. DELIVER SUCH SALVAGED MATERIALS AND EQUIPMENT ON THE PREMISES AS DIRECTED BY OWNER AND NEATLY PILE OR STORE THEM AND PROTECT FROM DAMAGED, DISPOSE OF ALL HAZARDOUS MATERIAL PER GUIDELINE OF THE STATE OF CALIFORNIA, DEPARTMENT OF HEALTH SERVICES AND OTHER AGENCIES HAVING JURISDICTION.
- 11. CONTRACTOR SHALL FIELD VERIFY EXISTING CONDUIT/WIRING RUNS, REUSE AS REQUIRE AND REMOVED ALL UNUSED CONDUIT/WIRING. UNUSED CONDUIT IN INACCESSIBLE LOCATIONS (WALLS TO REMAIN) CAN BE ABANDONED IN PLACE. REMOVE UNUSED
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- 15. ALL RECESSED FIXTURES SHALL BE PROVIDED WITH ALL REQUIRED STRUCTURAL SUPPORTS AS REQUIRED BY THE CURRENTLY ADOPTED ISSUE OF THE UNIFORM BUILDING CODE, AS WELL AS ANY LOCAL CODES.
- 16. REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR EXIT SIGN CHEVRONS AND NUMBER OF FACES PER EXIT SIGN. ANY DISCREPANCIES BETWEEN EXIT SIGNS SHOWN ON THE ELECTRICAL AND ARCHITECTURAL PLANS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT PRIOR TO ORDERING EXIT SIGNS.
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- 20. ALL PENETRATIONS THROUGH FIRE RATED WALLS SHALL BE PROTECTED FROM THE SPREAD OF FIRE WITH AN APPROVED FIRE STOP SYSTEM EQUAL OR GREATER THAN THE FIRE RATING OF THE WALL.
- 21. REFER TO LIGHTING CONTROL DETAILS SHEET E075 FOR LIGHTING CONTROL REQUIREMENTS.
- 22. ALL EXPOSED LIGHTING CONTROL DEVICES SHALL BE INSTALLED IN LINE WITH THE ADJACENT LIGHT FIXTURES OR EXPOSED EQUIPMENT. COORDINATE WITH ARCHITECT FOR EXACT PLACEMENT.
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- 25. WHERE ROOM CONTROLLER IS/ARE SHOWN TO BE LOCATED IN A ROOM WITH A HARD LID CEILING, THE ROOM CONTROLLER(S) SHALL BE PROVIDED WITH AN ACCESS PANEL OR SHALL BE LOCATED WITHIN NEAREST ACCESSIBLE CEILING SPACE. COORDINATE WITH
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KEYPLAN

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OR CHANGE ORDERS WILL BE ACCEPTED.

ETC. SCHEDULED TO REMAIN.

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OF FIXTURE OF DEVICES.

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IN OF MATERIAL AND DEVICES.

CODE, AS WELL AS ANY LOCAL CODES.

THE ARCHITECT PRIOR TO ORDERING EXIT SIGNS.

SHALL BE COMBINED INTO A SINGLE HOMERUN.

CONDUCTOR FOR EACH ZONE/CHANNEL.

FIRE RATING OF THE WALL.

BE COORDINATED IN FIELD.

REQUIREMENTS.

EXACT PLACEMENT.

12. ALL EQUIPMENT SHOWN IS NEW UNLESS OTHERWISE NOTED.



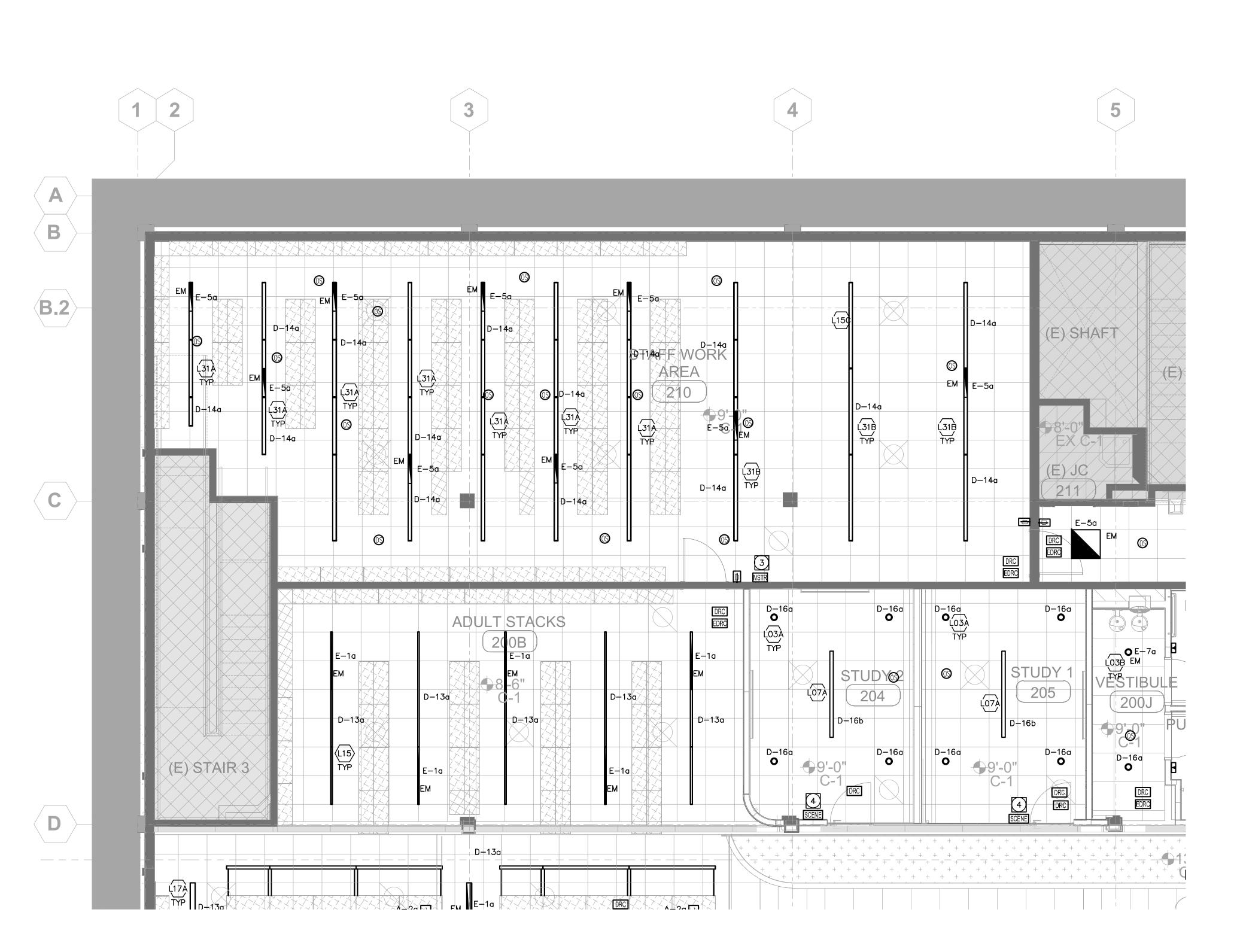
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SECOND FLOOR

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LIGHTING PLAN SEGMENT A

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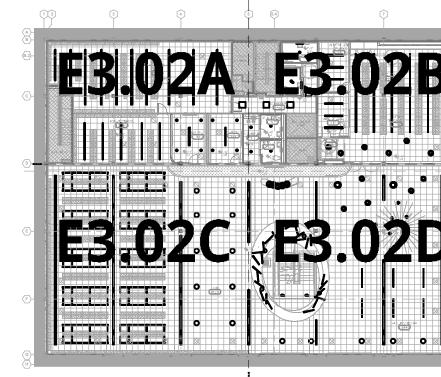
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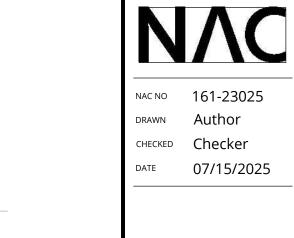
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KEYPLAN





SECOND FLOOR LIGHTING PLAN SEGMENT B

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SECOND FLOOR ELECTRICAL PLAN - SEGMENT B SCALE: 1/4" = 1'-0"

(E) FREIGHT

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(E) STAIR 2

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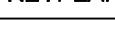
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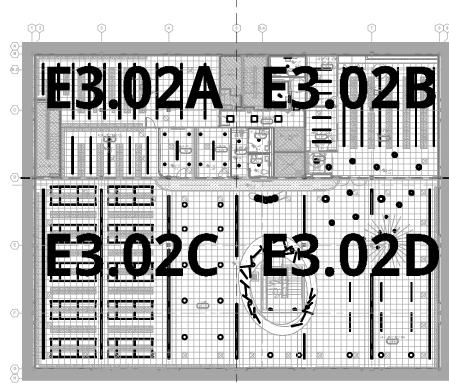
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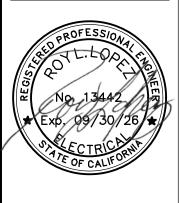
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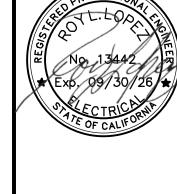


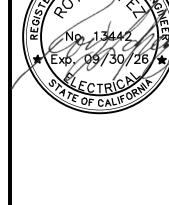
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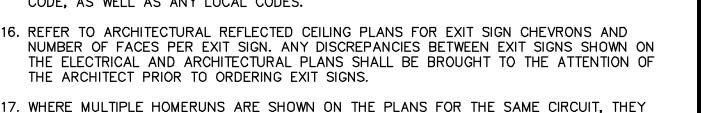
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17. WHERE MULTIPLE HOMERUNS ARE SHOWN ON THE PLANS FOR THE SAME CIRCUIT, THEY SHALL BE COMBINED INTO A SINGLE HOMERUN.

18. HALF SHADED FIXTURES OR FIXTURES WITH "EM" INDICATE EMERGENCY LIGHTING FIXTURES. EMERGENCY LIGHTING FIXTURES SHALL BE POWERED BY EMERGENCY LIGHTING

KEY NOTES

KEYNOTES ARE TYPICAL FOR ALL LIGHTING SHEETS. INDIVIDUAL KEYNOTES MAY NOT APPEAR ON

PROVIDE LIGHTING CIRCUIT FOR STACK MOUNTED LIGHTS. COORDINATE EXACTION LOCATION WITH STACK PROVIDER, CIRCUITS TO BE ROUTED THROUGH STACKS TO LIGHTING WIRING

2 INDICATED DRC(S) SHALL BE LOCATED ADJACENT TO ELECTRICAL PANEL. DRC(S) SHOWN AT LOCATION FOR CONTROL REFERENCE ONLY. PROVIDE DETAILED LABEL ON JUNCTION BOX(ES)

PROVIDE MASTER LIGHTING CONTROL STATION, TOUCH SCREEN CONTROLLER/OVERRIDE STATION. COORDINATE EXACT LOCATION WITH OWNER PRIOR TO ROUGH—IN.

(4) PROVIDE LIGHTING SCENE CONTROLLER TO CONTROL LIGHTS WITHIN THE ROOM. COORDINATE

GENERAL NOTES

1. THE ELECTRICAL DRAWINGS ARE DIAGRAMMATIC ONLY. DO NOT SCALE THE ELECTRICAL

2. THE EXISTING CONDITIONS SHOWN ARE FROM AVAILABLE RECORD DRAWINGS AND SHOWN FOR REFERENCE ONLY. CONTRACTOR SHALL VERIFY ACTUAL EXISTING CONDITIONS AT SITE PRIOR TO SUBMITTING BID. ALL DEMOLITION, ALTERATION, EXTENSION, RELOCATION, REHABILITATION WORK SHALL BE INCLUDED IN CONTRACT. NO ADDITIONAL ALLOWANCE

6. CONTRACTOR IS RESPONSIBLE TO RELOCATE OR REMOVE FROM WALLS, CEILINGS, FLOOR SPACES, ETC. ANY EXISTING CONDUITS, WIRES, BOXES, FITTINGS, FIXTURES OR OTHER ELECTRICAL EQUIPMENT WHICH INTERFÉRES WITH PLANNED REMODEL WORK, PROVIDE CIRCUIT CONTINUATION REQUIRED FOR ALL EXISTING OUTLETS, FIXTURES, EQUIPMENT,

. NOTIFY THE ENGINEER IMMEDIATELY WHEREVER EXISTING EQUIPMENT IS ENCOUNTERED WHICH MUST BE RELOCATED DUE TO THE NEW CONSTRUCTION, OR NOT INDICATED ON "AS-BUILT" DRAWINGS OR WAS BURIED UNDERGROUND OR EMBEDDED IN STRUCTURE

MATERIALS. WHEN WORKING ON FINISHED SURFACES, LIMIT DAMAGE TO THE SMALLER AREA IF POSSIBLE AND RESTORE TO THE ORIGINAL CONDITION ALL SURFACES WHICH

5. EQUIPMENT, MATERIALS AND SUPPLIES TEMPORARILY REMOVED FOR PROTECTION SHALL BE REPLACED IN ORIGINAL LOCATIONS. ANY MATERIALS DAMAGED SHALL BE REPLACED

. DEMOLITION WORK SHALL BE DONE IN A MANNER WHICH WILL NOT CAUSE UNNECESSARY INCONVENIENCE OR DANGER TO USERS OF THE PREMISES AND ADJACENT SITE, AND NOT INTERFERE WITH ITS OPERATION. ANY DEMOLITION WORK TO BE PERFORMED MUST BE

INDICATED OR PROVIDE BLANK COVER PLATE ON ALL OUTLETS EXPOSED BY REMOVAL

9. RESEAL ALL PENETRATIONS OR OPENING THROUGH WALLS, CEILING, FLOORS, ETC., TO

REMAIN IN THE PROPERTY OF THE OWNER. DELIVER SUCH SALVAGED MATERIALS AND EQUIPMENT ON THE PREMISES AS DIRECTED BY OWNER AND NEATLY PILE OR STORE THEM AND PROTECT FROM DAMAGED, DISPOSE OF ALL HAZARDOUS MATERIAL PER GUIDELINE OF THE STATE OF CALIFORNIA, DEPARTMENT OF HEALTH SERVICES AND

11. CONTRACTOR SHALL FIELD VERIFY EXISTING CONDUIT/WRING RUNS, REUSE AS REQUIRE AND REMOVED ALL UNUSED CONDUIT/WIRING. UNUSED CONDUIT IN INACCESSIBLE LOCATIONS (WALLS TO REMAIN) CAN BE ABANDONED IN PLACE. REMOVE UNUSED

DISCIPLINES FOR EXACT LOCATION OF EQUIPMENT AND REQUIREMENTS PRIOR TO ROUGH

SUPPORTS AS REQUIRED BY THE CURRENTLY ADOPTED ISSUE OF THE UNIFORM BUILDING

14. VERIFY EXACT CEILING CONSTRUCTION WITH ARCHITECTURAL REFLECTED CEILING PLAN AND PROVIDE LIGHTING FIXTURES WITH ALL NECESSARY MOUNTING HARDWARE.

13. ELECTRICAL CONTRACTOR SHALL FULLY COORDINATE WITH OTHER TRADES AND

15. ALL RECESSED FIXTURES SHALL BE PROVIDED WITH ALL REQUIRED STRUCTURAL

10. ALL REMOVED MATERIALS AND EQUIPMENT WHICH IS SALVAGED MATERIALS SHALL

5. CAREFULLY PROTECT ALL WALLS, TRIM, FLOORS, EQUIPMENT, UTILITY LINES AND

8. DO ALL DRILLING, CUTTING, ETC. REQUIRED TO DEMOLISH ELECTRICAL WORK AS

ARE DAMAGED BECAUSE OF THE INSTALLATION OF THIS WORK.

WITH NEW MATERIALS OF LIKE KIND AND QUALITY.

DRAWINGS TO DETERMINE THE LOCATION OF EQUIPMENT OR OUTLETS.

HOUSING DRC(S) INDICATING THE AREA AND LIGHTS THAT THEY CONTROL

CHANNEL AT TOP OF THE STACK.

WITH OWNER FOR DESIRED SCENE PRESETS.

OR CHANGE ORDERS WILL BE ACCEPTED.

ETC. SCHEDULED TO REMAIN.

PLANNED IN ADVANCE.

OF FIXTURE OF DEVICES.

MAINTAIN THE RATING OF STRUCTURE.

OTHER AGENCIES HAVING JURISDICTION.

IN OF MATERIAL AND DEVICES.

CODE, AS WELL AS ANY LOCAL CODES.

THE ARCHITECT PRIOR TO ORDERING EXIT SIGNS.

12. ALL EQUIPMENT SHOWN IS NEW UNLESS OTHERWISE NOTED.

19. ALL DIMMING BRANCH CIRCUITS SHALL BE PROVIDED WITH A DEDICATED NEUTRAL

CONDUCTOR FOR EACH ZONE/CHANNEL. 20. ALL PENETRATIONS THROUGH FIRE RATED WALLS SHALL BE PROTECTED FROM THE

SPREAD OF FIRE WITH AN APPROVED FIRE STOP SYSTEM EQUAL OR GREATER THAN THE FIRE RATING OF THE WALL. 21. REFER TO LIGHTING CONTROL DETAILS SHEET E075 FOR LIGHTING CONTROL

REQUIREMENTS. 22. ALL EXPOSED LIGHTING CONTROL DEVICES SHALL BE INSTALLED IN LINE WITH THE

EXACT PLACEMENT. 23. FINAL LOCATION AND CALIBRATION OF PHOTO SENSORS AND OCCUPANCY SENSORS TO BE COORDINATED IN FIELD.

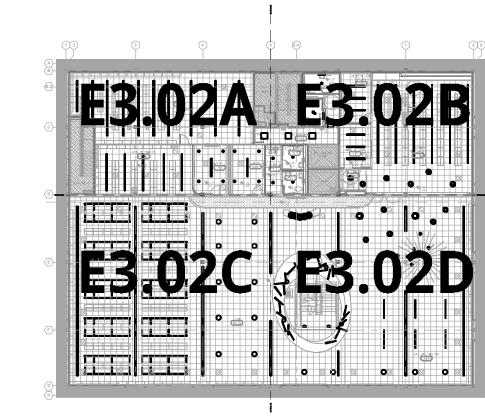
ADJACENT LIGHT FIXTURES OR EXPOSED EQUIPMENT. COORDINATE WITH ARCHITECT FOR

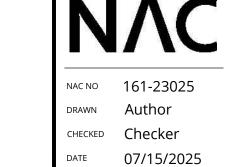
24. CONTRACTOR SHALL MEASURE WINDOW HEAD HEIGHT AND CONFIRM DAYLIT ZONES SHOWN PRIOR TO CIRCUITING LIGHTING FIXTURES IN ROOM(S) WITH DAYLIT ZONES.

25. WHERE ROOM CONTROLLER IS/ARE SHOWN TO BE LOCATED IN A ROOM WITH A HARD LID CEILING, THE ROOM CONTROLLER(S) SHALL BE PROVIDED WITH AN ACCESS PANEL OR SHALL BE LOCATED WITHIN NEAREST ACCESSIBLE CEILING SPACE. COORDINATE WITH

26. ALL NECESSARY EQUIPMENT/ COMPONENTS ARE TO BE PROVIDED BY THE CONTRACTOR FOR A COMPLETE AND OPERATING CONTROL SYSTEM. INCLUDING BUT NOT LIMITED TO COMMISSIONING, CABLING, EMERGENCY LIGHTING, OCCUPANCY SENSOR, DAYLIGHT CONTROLS, CONTROLLED RECEPTACLE RELAYS, DIMMING, AND DIMMING CONVERTERS TO MEET ALL IECC REQUIREMENTS AT TIME OF PERMIT SUBMITTAL AND INSPECTION. ALL COMPONENTS, EXCEPT FOR CONTROL STATIONS, SHALL BE ABOVE THE CEILING, CONCEALED FROM VIEW, OR INSTALLED IN NEMA 1 CABINETS IN CLOSETS OR UTILITY

KEYPLAN

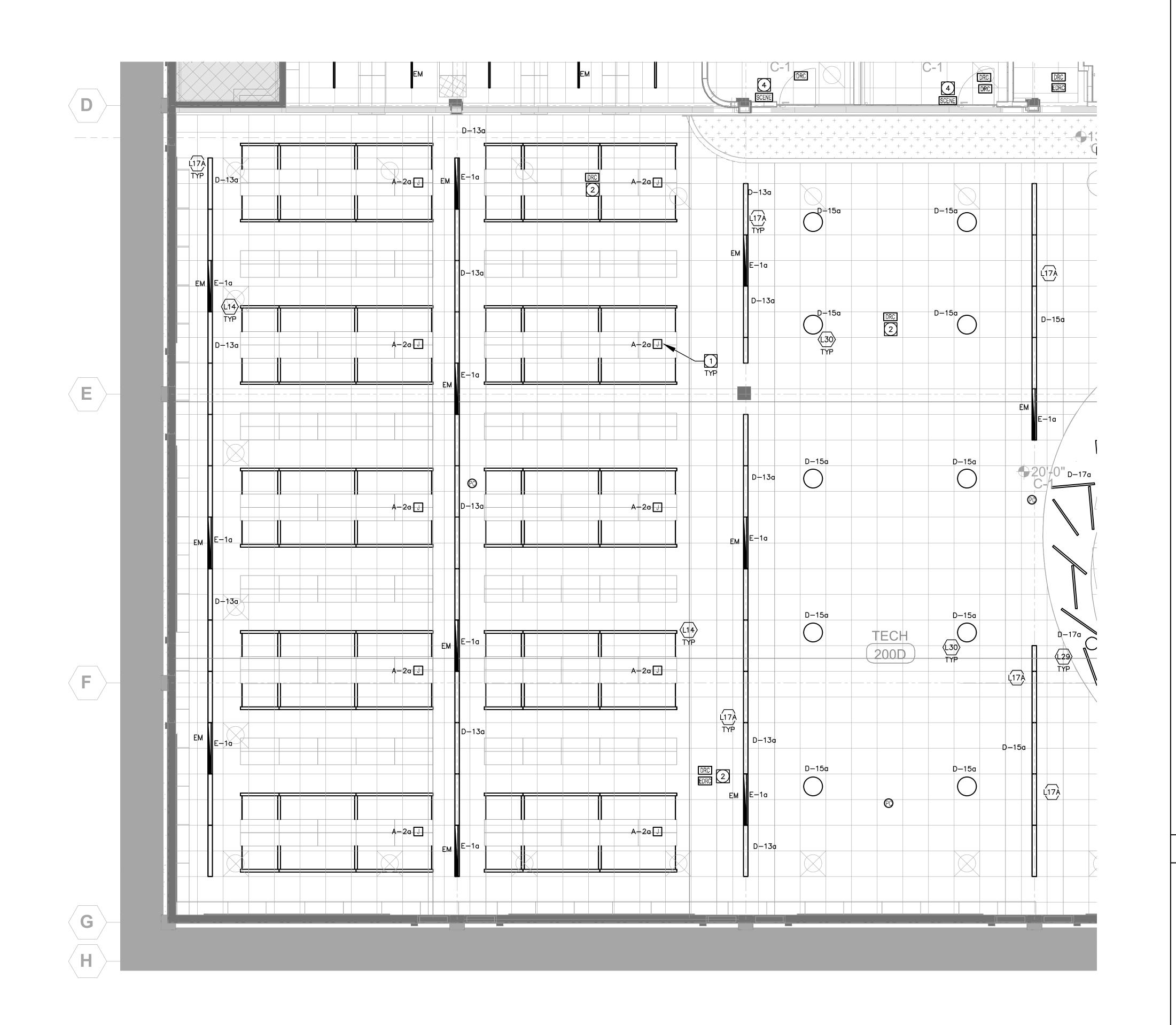




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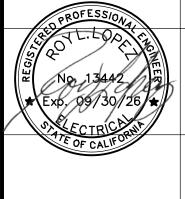
SECOND FLOOR LIGHTING PLAN -SEGMENT C

E3.02C



SECOND FLOOR LIGHTING PLAN - SEGMENT C





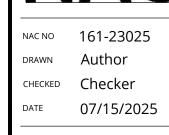












SECOND FLOOR LIGHTING PLAN SEGMENT D

E3.02D

KEY NOTES KEYNOTES ARE TYPICAL FOR ALL LIGHTING SHEETS. INDIVIDUAL KEYNOTES MAY NOT APPEAR ON PROVIDE LIGHTING CIRCUIT FOR STACK MOUNTED LIGHTS. COORDINATE EXACTION LOCATION WITH STACK PROVIDER. CIRCUITS TO BE ROUTED THROUGH STACKS TO LIGHTING WRING CHANNEL AT TOP OF THE STACK. 2 INDICATED DRC(S) SHALL BE LOCATED ADJACENT TO ELECTRICAL PANEL. DRC(S) SHOWN AT LOCATION FOR CONTROL REFERENCE ONLY. PROVIDE DETAILED LABEL ON JUNCTION BOX(ES) HOUSING DRC(S) INDICATING THE AREA AND LIGHTS THAT THEY CONTROL PROVIDE MASTER LIGHTING CONTROL STATION, TOUCH SCREEN CONTROLLER/OVERRIDE STATION. COORDINATE EXACT LOCATION WITH OWNER PRIOR TO ROUGH—IN. (4) PROVIDE LIGHTING SCENE CONTROLLER TO CONTROL LIGHTS WITHIN THE ROOM. COORDINATE WITH OWNER FOR DESIRED SCENE PRESETS.

GENERAL NOTES

THE ELECTRICAL DRAWINGS ARE DIAGRAMMATIC ONLY, DO NOT SCALE THE ELECTRICAL DRAWINGS TO DETERMINE THE LOCATION OF EQUIPMENT OR OUTLETS.

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READING ROOM

- THE EXISTING CONDITIONS SHOWN ARE FROM AVAILABLE RECORD DRAWINGS AND SHOWN FOR REFERENCE ONLY. CONTRACTOR SHALL VERIFY ACTUAL EXISTING CONDITIONS AT SITE PRIOR TO SUBMITTING BID. ALL DEMOLITION, ALTERATION, EXTENSION, RELOCATION, REHABILITATION WORK SHALL BE INCLUDED IN CONTRACT. NO ADDITIONAL ALLOWANCE OR CHANGE ORDERS WILL BE ACCEPTED.
- . CONTRACTOR IS RESPONSIBLE TO RELOCATE OR REMOVE FROM WALLS, CEILINGS, FLOOR SPACES, ETC. ANY EXISTING CONDUITS, WIRES, BOXES, FITTINGS, FIXTURES OR OTHER ELECTRICAL EQUIPMENT WHICH INTERFERES WITH PLANNED REMODEL WORK. PROVIDE CIRCUIT CONTINUATION REQUIRED FOR ALL EXISTING OUTLETS, FIXTURES, EQUIPMENT, ETC. SCHEDULED TO REMAIN.
- . NOTIFY THE ENGINEER IMMEDIATELY WHEREVER EXISTING EQUIPMENT IS ENCOUNTERED WHICH MUST BE RELOCATED DUE TO THE NEW CONSTRUCTION, OR NOT INDICATED ON "AS-BUILT" DRAWINGS OR WAS BURIED UNDERGROUND OR EMBEDDED IN STRUCTURE
- 5. CAREFULLY PROTECT ALL WALLS, TRIM, FLOORS, EQUIPMENT, UTILITY LINES AND MATERIALS. WHEN WORKING ON FINISHED SURFACES, LIMIT DAMAGE TO THE SMALLER AREA IF POSSIBLE AND RESTORE TO THE ORIGINAL CONDITION ALL SURFACES WHICH ARE DAMAGED BECAUSE OF THE INSTALLATION OF THIS WORK.
- BE REPLACED IN ORIGINAL LOCATIONS. ANY MATERIALS DAMAGED SHALL BE REPLACED WITH NEW MATERIALS OF LIKE KIND AND QUALITY. . DEMOLITION WORK SHALL BE DONE IN A MANNER WHICH WILL NOT CAUSE UNNECESSARY INCONVENIENCE OR DANGER TO USERS OF THE PREMISES AND ADJACENT SITE, AND NOT

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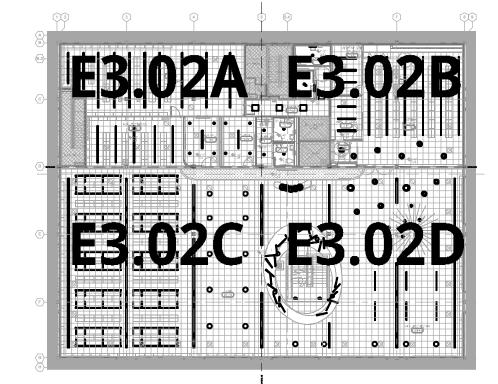
6. EQUIPMENT, MATERIALS AND SUPPLIES TEMPORARILY REMOVED FOR PROTECTION SHALL

- 8. DO ALL DRILLING, CUTTING, ETC. REQUIRED TO DEMOLISH ELECTRICAL WORK AS INDICATED OR PROVIDE BLANK COVER PLATE ON ALL OUTLETS EXPOSED BY REMOVAL OF FIXTURE OF DEVICES.
- 9. RESEAL ALL PENETRATIONS OR OPENING THROUGH WALLS, CEILING, FLOORS, ETC., TO MAINTAIN THE RATING OF STRUCTURE.
- 10. ALL REMOVED MATERIALS AND EQUIPMENT WHICH IS SALVAGED MATERIALS SHALL REMAIN IN THE PROPERTY OF THE OWNER. DELIVER SUCH SALVAGED MATERIALS AND EQUIPMENT ON THE PREMISES AS DIRECTED BY OWNER AND NEATLY PILE OR STORE THEM AND PROTECT FROM DAMAGED. DISPOSE OF ALL HAZARDOUS MATERIAL PER GUIDELINE OF THE STATE OF CALIFORNIA, DEPARTMENT OF HEALTH SERVICES AND OTHER AGENCIES HAVING JURISDICTION.
- 11. CONTRACTOR SHALL FIELD VERIFY EXISTING CONDUIT/WIRING RUNS, REUSE AS REQUIRE AND REMOVED ALL UNUSED CONDUIT/WIRING. UNUSED CONDUIT IN INACCESSIBLE LOCATIONS (WALLS TO REMAIN) CAN BE ABANDONED IN PLACE. REMOVE UNUSED
- 12. ALL EQUIPMENT SHOWN IS NEW UNLESS OTHERWISE NOTED.

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- 13. ELECTRICAL CONTRACTOR SHALL FULLY COORDINATE WITH OTHER TRADES AND DISCIPLINES FOR EXACT LOCATION OF EQUIPMENT AND REQUIREMENTS PRIOR TO ROUGH IN OF MATERIAL AND DEVICES.
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- 15. ALL RECESSED FIXTURES SHALL BE PROVIDED WITH ALL REQUIRED STRUCTURAL SUPPORTS AS REQUIRED BY THE CURRENTLY ADOPTED ISSUE OF THE UNIFORM BUILDING CODE, AS WELL AS ANY LOCAL CODES.
- 16. REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR EXIT SIGN CHEVRONS AND NUMBER OF FACES PER EXIT SIGN. ANY DISCREPANCIES BETWEEN EXIT SIGNS SHOWN ON THE ELECTRICAL AND ARCHITECTURAL PLANS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT PRIOR TO ORDERING EXIT SIGNS.
- 17. WHERE MULTIPLE HOMERUNS ARE SHOWN ON THE PLANS FOR THE SAME CIRCUIT, THEY SHALL BE COMBINED INTO A SINGLE HOMERUN.
- 18. HALF SHADED FIXTURES OR FIXTURES WITH "EM" INDICATE EMERGENCY LIGHTING FIXTURES. EMERGENCY LIGHTING FIXTURES SHALL BE POWERED BY EMERGENCY LIGHTING
- 19. ALL DIMMING BRANCH CIRCUITS SHALL BE PROVIDED WITH A DEDICATED NEUTRAL CONDUCTOR FOR EACH ZONE/CHANNEL.
- 20. ALL PENETRATIONS THROUGH FIRE RATED WALLS SHALL BE PROTECTED FROM THE SPREAD OF FIRE WITH AN APPROVED FIRE STOP SYSTEM EQUAL OR GREATER THAN THE FIRE RATING OF THE WALL.
- 21. REFER TO LIGHTING CONTROL DETAILS SHEET E075 FOR LIGHTING CONTROL REQUIREMENTS.
- 22. ALL EXPOSED LIGHTING CONTROL DEVICES SHALL BE INSTALLED IN LINE WITH THE ADJACENT LIGHT FIXTURES OR EXPOSED EQUIPMENT. COORDINATE WITH ARCHITECT FOR EXACT PLACEMENT.
- 23. FINAL LOCATION AND CALIBRATION OF PHOTO SENSORS AND OCCUPANCY SENSORS TO BE COORDINATED IN FIELD.
- 24. CONTRACTOR SHALL MEASURE WINDOW HEAD HEIGHT AND CONFIRM DAYLIT ZONES SHOWN PRIOR TO CIRCUITING LIGHTING FIXTURES IN ROOM(S) WITH DAYLIT ZONES.
- 25. WHERE ROOM CONTROLLER IS/ARE SHOWN TO BE LOCATED IN A ROOM WITH A HARD LID CEILING, THE ROOM CONTROLLER(S) SHALL BE PROVIDED WITH AN ACCESS PANEL OR SHALL BE LOCATED WITHIN NEAREST ACCESSIBLE CEILING SPACE. COORDINATE WITH
- 26. ALL NECESSARY EQUIPMENT/ COMPONENTS ARE TO BE PROVIDED BY THE CONTRACTOR FOR A COMPLETE AND OPERATING CONTROL SYSTEM. INCLUDING BUT NOT LIMITED TO COMMISSIONING, CABLING, EMERGENCY LIGHTING, OCCUPANCY SENSOR, DAYLIGHT CONTROLS, CONTROLLED RECEPTACLE RELAYS, DIMMING, AND DIMMING CONVERTERS TO MEET ALL IECC REQUIREMENTS AT TIME OF PERMIT SUBMITTAL AND INSPECTION. ALL COMPONENTS, EXCEPT FOR CONTROL STATIONS, SHALL BE ABOVE THE CEILING, CONCEALED FROM VIEW, OR INSTALLED IN NEMA 1 CABINETS IN CLOSETS OR UTILITY

KEYPLAN

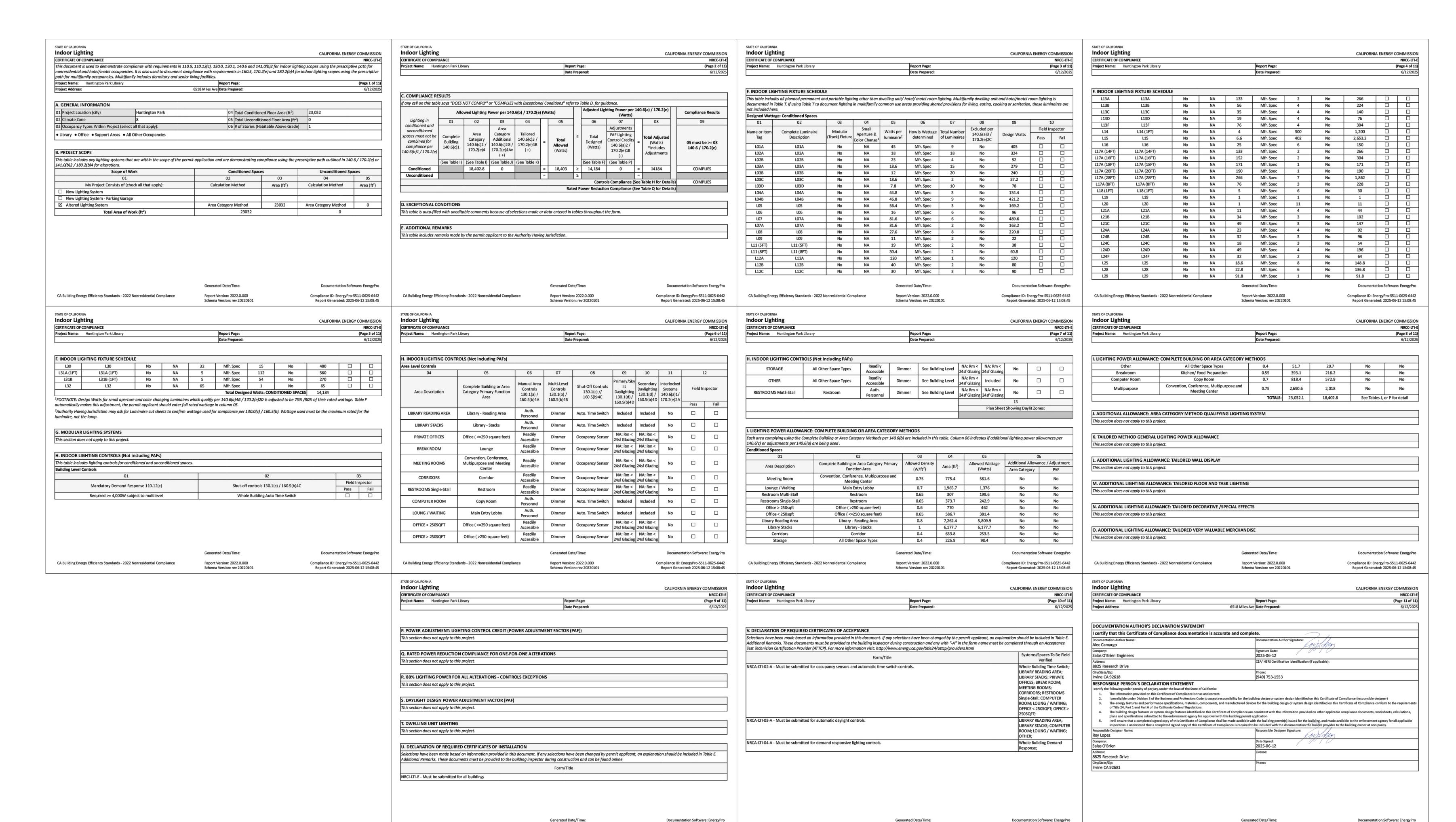


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DATE 07/15/2025

TITLE 24 COMPLIANCE



Compliance ID: EnergyPro-5511-0625-6442

Report Generated: 2025-06-12 15:08:45

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance

Report Version: 2022.0.000

Schema Version: rev 20220101

Compliance ID: EnergyPro-5511-0625-6442

Report Generated: 2025-06-12 15:08:45

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance

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Report Version: 2022.0.000

Schema Version: rev 2022010

Compliance ID: EnergyPro-5511-0625-6442

Report Generated: 2025-06-12 15:08:45

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance

Report Version: 2022.0.000

Schema Version: rev 20220101

SUPPRESSION

VOLT AMPS
VOLTAGE DROP
VERIFY LOCATION
WEATHERPROOF

TRANSFORMER

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UNLESS OTHERWISE NOTED

UNSHIELDED TWISTED PAIR

EXISTING TO BE DEMOLISHED

UNINTERRUPTABLE POWER SUPPLY

SYMBOLS

SYMBOLS

DRPS

H \bigvee I

SYMBOLS

DESCRIPTION

PEOPLE COUNTER SENSOR

DESCRIPTION

RESTROOM DOOR RELEASE SWITCH

RESTROOM DOOR RELEASE BUTTON

DOOR RELEASE POWER SUPPLY

VIDEO INTERCOM STATION

VIDEO INTERCOM BASE STATION

DESCRIPTION

WALL-MOUNTED AV AND DATA DEVICES

AV AND DATA DEVICES MOUNTED IN

RECESSED FLOOR BOX OR POKE-THRU

POLY TC10 CONTROL PANEL

BLUETOOTH IN-WALL RECEIVER

		TELECOMMUNICATIONS DEV	/ICE SYMBOLS	
SYMBOLS	DESCRIPTION	BACKBOX AND CONDUIT REQUIREMENTS	DEVICE REQUIREMENTS	CABLING REQUIREMENTS
S=SURFACE MOUNT INTERFACE DEVICE F=MODULAR FURNITURE SMR=SURFACE METAL RACEWAY XX=COLOR OF JACKS BL=BLUE OR=ORANGE #=QUANTITY OF CAT 6 RJ-45 JACKS	DATA OUTLET, WALL—MOUNTED (UON)	4"SQ x 2-1/8"D FLUSH-MOUNT BACKBOX AT +18" AFF, SINGLE-GANG MUD-RING AND MINIMUM 3/4" CONDUIT TO MAIN COMPUTER ROOM, NEAREST ACCESSIBLE CEILING SPACE OR AS INDICATED ON DRAWINGS.	SINGLE-GANG FACEPLATE WITH INDICATED QUANTITY OF CAT 6 RJ-45 JACKS. PROVIDE BLANKS TO FILL SPARE SPACES.	ROUTE CAT 6 4—PAIR UTP CABLES IN QUANTITY DENOTED TO MAIN COMPUTER ROOM AND TERMINATE ON RACK—MOUNTED PATCH PANELS.
#/XX XX=COLOR OF JACKS BL=BLUE OR=ORANGE #=QUANTITY OF CAT 6 RJ-45 JACKS	DATA OUTLET MOUNTED IN RECESSED MULTI-SERVICE FLOOR BOX	MINIMUM 1" CONDUIT FROM FLOOR BOX TO MAIN COMPUTER ROOM, NEAREST ACCESSIBLE CEILING SPACE OR AS INDICATED ON DRAWINGS.	SINGLE-GANG FACEPLATE WITH INDICATED QUANTITY OF CAT 6 RJ-45 JACKS. PROVIDE BLANKS TO FILL SPARE SPACES.	ROUTE CAT 6 4-PAIR INDOOR/OUTDOOR-RATED UTP CABLES IN QUANTITY DENOTED TO MAIN COMPUTER ROOM AND TERMINATE ON RACK-MOUNTED PATCH PANELS.
⊚ ^F	MODULAR FURNITURE FEED POKE-THRU	CABLING PASS-THROUGH ONLY	CABLING PASS-THROUGH ONLY	CABLING PASS-THROUGH ONLY
WAP	DATA OUTLET FOR CEILING—MOUNTED WIRELESS ACCESS POINT	4"SQ x 2-1/8"D FLUSH-MOUNT CEILING-MOUNTED BACKBOX, SINGLE-GANG MUD-RING AND MINIMUM 3/4" CONDUIT TO MAIN COMPUTER ROOM, NEAREST ACCESSIBLE CEILING SPACE OR AS INDICATED ON DRAWINGS.	SINGLE-GANG FACEPLATE WITH (2) CAT 6 RJ-45 JACKS IN COLOR ORANGE. PROVIDE BLANKS TO FILL SPARE SPACES.	ROUTE CAT 6 4-PAIR UTP CABLES IN QUANTITY DENOTED TO MAIN COMPUTER ROOM AND TERMINATE ON RACK-MOUNTED PATCH PANELS.
WAP V	DATA OUTLET FOR WALL-MOUNTED WIRELESS ACCESS POINT. CONFIRM HEIGHT WITH OWNER/ARCHITECT.	4"SQ x 2-1/8"D FLUSH-MOUNT CEILING-MOUNTED BACKBOX, SINGLE-GANG MUD-RING AND MINIMUM 3/4" CONDUIT TO MAIN COMPUTER ROOM, NEAREST ACCESSIBLE CEILING SPACE OR AS INDICATED ON DRAWINGS.	4"SQ x 2-1/8"D RECESSED BACKBOX, SINGLE-GANG MUD-RING AND 1" CONDUIT TO ACCESSIBLE CEILING SPACE. CONFIRM HEIGHT WITH OWNER/ARCHITECT PRIOR TO INSTALLATION.	ROUTE CAT 6 4—PAIR UTP CABLES IN QUANTITY DENOTED TO MAIN COMPUTER ROOM AND TERMINATE ON RACK—MOUNTED PATCH PANELS.
	ACCI	ESS CONTROL SYSTEM (OWNER-FUR	NISHED OWNER-INSTALLED)	
SYMBOLS	DESCRIPTION	RUGH-IN REQUIREMENTS	DEVICE REQUIREMENTS	CABLING REQUIREMENTS
HCR	CARD READER	REFERENCE SHEET TO.05	PER OWNER	REFERENCE SHEET TO.07
EL	ELECTRONIC LOCK	REFERENCE SHEET TO.05	_	REFERENCE SHEET TO.07
H <u>RE</u>	REQUEST-TO-EXIT SENSOR	REFERENCE SHEET TO.05	PER OWNER	REFERENCE SHEET TO.07
DC	DOOR CONTACT (SEPARATE FROM INTRUSION DETECTION)	REFERENCE SHEET TO.05	PER OWNER	REFERENCE SHEET TO.07
ACCP	CONTROL PANEL		_	_
ACPS	POWER SUPPLY	-	_	_
	INTRUSION D	ETECTION AND ALARM SYSTEM (OWI	NER-FURNISHED OWNER-INSTALL	FD)
SYMBOLS	DESCRIPTION	ROUGH-IN REQUIREMENTS	DEVICE REQUIREMENTS	CABLING REQUIREMENTS
	MOTION DETECTOR, CEILING-MOUNTED	REFERENCE SHEET TO.06	PER OWNER	REFERENCE SHEET TO.07
HD -	MOTION DETECTOR, WALL-MOUNTED	REFERENCE SHEET TO.06	PER OWNER	REFERENCE SHEET TO.07
DC	DOOR CONTACT (SEPARATE FROM ACCESS CONTROL SYSTEM)	REFERENCE SHEET TO.06	PER OWNER	REFERENCE SHEET TO.07
H <u>KP</u>	KEYPAD	REFERENCE SHEET TO.06	BOSCH MODEL D56	REFERENCE SHEET TO.07
	GLASS BREAK SENSOR	REFERENCE SHEET TO.06	PER OWNER	REFERENCE SHEET TO.07
AS	INTRUSION ALARM SIREN/SPEAKER,	REFERENCE SHEET TO.06	PER OWNER	REFERENCE SHEET TO.07
EA	CEILING-MOUNTÉD EXIT ALARM		DETEX EXIT ALARM	
<u> </u>	CONTROL PANEL		PER OWNER	-
[IDPS]	POWER SUPPLY		PER OWNER	_
[IDF3]				
	CC	CTV SYSTEM SYSTEM (OWNER-FURNIS	SHED OWNER-INSTALLED)	
SYMBOLS	DESCRIPTION	ROUGH-IN REQUIREMENTS	DEVICE REQUIREMENTS	CABLING REQUIREMENTS
HC\<	IP CAMERA SINGLE-LENS, WALL-MOUNTED	SEE ROUGH-IN NOTE 1 ON THIS SHEET	PER OWNER	REFERENCE SHEET TO.07
[C] 4	IP CAMERA SINGLE-LENS, CEILING-MOUNTED	SEE ROUGH-IN NOTE 1 ON THIS SHEET	PER OWNER	REFERENCE SHEET TO.07
NZN	IP CAMERA 360-DEGREE, CEILING-MOUNTED	SEE ROUGH-IN NOTE 1 ON THIS SHEET	PER OWNER	REFERENCE SHEET TO.07
	PUB	LIC ADDRESS SYSTEM (OWNER-FURN	NISHED OWNER-INSTALLED)	
SYMBOLS	DESCRIPTION	ROUGH-IN REQUIREMENTS	DEVICE REQUIREMENTS	CABLING REQUIREMENTS
(S) _{PA}	PA SPEAKER, CEILING-MOUNTED	SEE ROUGH-IN NOTE 1 ON THIS SHEET	PER OWNER	REFERENCE SHEET TO.07
PATC	PA TERMINAL CABINET WITH WIRING TERMINATION BLOCKS AND HEAD—END EQUIPMENT	_	PER OWNER	REFERENCE SHEET TO.07
PAPS	PA POWER SUPPLY	_	PER OWNER	REFERENCE SHEET TO.07
	SYNCH	RONIZED CLOCK SYSTEM (OWNER-F	URNISHED OWNER-INSTALLED)	
SYMBOLS	DESCRIPTION	ROUGH-IN REQUIREMENTS	DEVICE REQUIREMENTS	CABLING REQUIREMENTS
ф	SYNCHRONIZED WIRED ANALOG CLOCK	SEE ROUGH-IN NOTE 1 ON THIS SHEET. INSTALL CLOCK AT +8'-0" AFF (UON)	PYRAMID TIMETRAX SYNC MODEL 5200	SEE FLOOR PLAN
MCC	MASTER CLOCK CONTROLLER & POWER SUPPLY	-	PYRAMID TIMETRAX SYNC 7000	_
		DEODIE COLINTED SYSTE	M CVMPOLC	

PEOPLE COUNTER SYSTEM SYMBOLS

DOOR RELEASE AND DOOR VIDEO INTERCOM SYSTEM SYMBOLS

AUDIO VIDEO SYSTEM

DEVICE REQUIREMENTS

EXISTING SYSTEM TO BE RE-USED. COORDINATE WORK

DEVICE REQUIREMENTS

PER OWNER

PER OWNER

PER OWNER

PER OWNER

PER OWNER

DEVICE REQUIREMENTS

SEE SHEETS TO.9 AND TO.10

CABLING REQUIREMENTS

SEE FLOOR PLAN

CABLING REQUIREMENTS

REFERENCE SHEET TO.07

REFERENCE SHEET TO.07

TBD

REFERENCE SHEET TO.07

REFERENCE SHEET TO.07

CABLING REQUIREMENTS

SEE SHEETS TO.9 AND TO.10

ROUGH-IN REQUIREMENTS

SEE ROUGH-IN NOTE 1 ON THIS SHEET

ROUGH-IN REQUIREMENTS

SEE FLOOR PLAN

SEE ROUGH-IN NOTE 1 ON THIS SHEET

SEE ROUGH-IN NOTE 2 ON THIS SHEET

SEE ROUGH-IN NOTE 2 ON THIS SHEET

ROUGH-IN REQUIREMENTS

SEE SHEETS TO.9 AND TO.10

DRAWING INDEX

- TO.01 TECHNOLOGY COVER SHEET
- TO.02 TECHNOLOGY GENERAL NOTES AND SPECIFICATIONS
- TO.03 TECHNOLOGY DETAILS
- TO.04 TECHNOLOGY DETAILS
- TO.05 ACCESS CONTROL DETAILS AND NOTES
- TO.06 INTRUSION DETECTION DETAILS AND NOTES
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- TO.08 LOW VOLTAGE CABLE SCHEDULES

 TO.09 AUDIO VISUAL SYSTEM NOTES AND DETAILS
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- T2.01 BASEMENT AND LEVEL 1 LOW VOLTAGE DEMOLITION PLANS

T4.00 TECHNOLOGY ENLARGED MCR PLANS & RACK ELEVATION

- T2.02 LEVEL 2 AND LEVEL 3 LOW VOLTAGE DEMOLITION PLANS
- T3.11 TECHNOLOGY BASEMENT AND LEVEL 1 PLANS
 T3.12 TECHNOLOGY LEVEL 2 AND LEVEL 3 PLANS

ROUGH-IN NOTES:

DRAWINGS.

- 1. PROVIDE 4" SQUARE x 2-1/8"D RECESSED BACKBOX, SINGLE-GANG MUD-RING AND 3/4" CONDUIT TO MAIN COMPUTER ROOM, NEAREST ACCESSIBLE CEILING SPACE OR AS SHOWN ON
- 2. PROVIDE MANUFACTURER-RECOMMENDED BACKBOX WITH 3/4" MINIMUM CONDUIT TO MAIN COMPUTER, ROOM, NEAREST ACCESSIBLE CEILING SPACE OR AS SHOWN ON DRAWINGS.

	RACEWAY SYMBOLS			
SYMBOLS	DESCRIPTION			
	HOMERUN TO DESTINATION AS INDICATED			
—	INDICATES CONDUIT DROP			
	INDICATES CONDUIT RISER			
	INDICATES CONDUIT STUB			
<u></u>	INDICATES CONDUIT CONTINUATION			
	CONDUIT ROUTED UNDERGROUND			
	SURFACE METAL RACEWAYS			
0	4"SQ x 2-1/8"D JUNCTION BOX			
PULL BOX				

TEL	ECOMMUNICATIONS EQUIPMENT SYMBOLS
SYMBOL	DESCRIPTION
	19"W x 7'-0"H 2-POST EQUIPMENT RACK
В	6"W DOUBLE-SIDED VERTICAL CABLE MANAGER (VCM)
	110 WIRING BLOCK
0 0	10" TELECOM GROUNDING BUSBAR (TGB)
Į_	#6 AWG BONDING STRAP OR EQUIVALENT
Ţ	EQUIPMENT GROUND PER NEC, EIA/TIA STANDARDS
	LADDER-TYPE CABLE TRAY (IN MDF ROOM ONLY). SEE DRAWINGS FOR SIZE AND LAYOUT.
	MESH-TYPE CABLE TRAY. SEE DRAWINGS FOR SIZE AND LAYOUT.

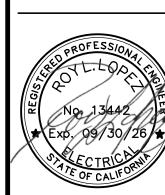
	MATV SYSTEM					
SYMBOLS	DESCRIPTION	ROUGH-IN REQUIREMENTS	DEVICE REQUIREMENTS	CABLING REQUIREMENTS		
MATV	MATV SYSTEM EQUIPMENT	N/A	SEE DETAIL 2 ON SHEET TOO8	SEE DETAIL 2 ON SHEET TOO8		
4	TV OUTLET (SINGLE-GANG PLATE WITH COAX F-CONNECTOR MODULE)	4"SQ BACKBOX WITH 1"C TO CEILING	SEE DETAIL 2 ON SHEET TO08	SEE DETAIL 2 ON SHEET TOO8		

NSTRUCTION DOCUMENTS

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DRAWN AC

CHECKED BS

DATE 07/15/2025

TECHNOLOGY

COVER SHEET

- 2. COORDINATE AND OBTAIN APPROVALS FROM ALL RESPECTIVE UTILITY COMPANIES AS REQUIRED FOR A COMPLETE AND FUNCTIONAL INSTALLATION.
- 3. INSTALL RACEWAY SYSTEMS AS FOLLOWS:
- A. USE RIGID GALVANIZED STEEL IN ALL AREAS EXPOSED TO WEATHER OR PHYSICAL DAMAGE.

 B. USE FLEXIBLE METALLIC CONDUIT ONLY IN AREAS AS PERMITTED BY LOCAL CODE AUTHORITY. USE SEAL—TITE IN AREAS EXPOSED TO WEATHER.
- C. USE COMPRESSION TYPE FITTINGS FOR ELECTRICAL METALLIC TUBING WHERE UTILIZED.

 D. USE P.V.C. CONDUIT UNDERGROUND WITH CODE SIZED GROUND. CONDUIT RISERS AND STUBS ABOVE GRADE SHALL BE I.M.C. WITH HALF-LAPPED TAPE COVERING OR P.V.C.
- 4. CONDUIT FOR ROOF MOUNTED EQUIPMENT SHALL BE ROUTED BELOW THE ROOF WITHIN THE BUILDING.
- 5. ALL DEVICE LOCATIONS SHALL BE VERIFIED WITH ARCHITECTURAL DRAWINGS, AS WELL AS EQUIPMENT SUPPLIER REQUIREMENTS, PRIOR TO ANY ROUGH—IN WORK.
- 6. ALL DEVICES SHALL BE MOUNTED AND SUPPORTED IN ACCORDANCE WITH OSHA STANDARDS AND ALL LOCAL, STATE, AND NATIONAL ELECTRICAL CODES.
- 7. CONTRACTOR SHALL PROVIDE DEVICE MOUNTING KITS AS REQUIRED TO SUIT THE EXACT TYPE OF CEILING OR SURFACE TO WHICH THEY ARE MOUNTED.
- THESE DRAWINGS ARE DIAGRAMMATIC AND REPRESENT THE INTENT OF EQUIPMENT, DEVICES, ETC. TO BE CONNECTED AND THE CIRCUITS TO WHICH THEY ARE TO BE CONNECTED TO. CONTRACTOR SHALL INSTALL ALL CONDUIT, J—BOXES, ETC. AS REQUIRED FOR A COMPLETE AND OPERATIONAL SYSTEM.
- 9. ALL EXTERIOR EQUIPMENT SHALL BE WEATHERPROOF.

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- 10. CONTRACTOR SHALL PERFORM ALL WORK IN STRICT ACCORDANCE WITH ALL LOCAL, STATE, AND NATIONAL GOVERNING CODES.
- 11. ALL EQUIPMENT SHALL BE NEW AND BEAR A NRTL ("UL" OR "ETL) LABEL, UON.
- 12. CONTRACTOR SHALL SECURE AND PAY FOR ALL NECESSARY BUILDING PERMITS.
- 13. COMPLETE SYSTEM INSTALLATION SHALL BE GUARANTEED IN WRITING FOR A PERIOD OF (1) YEAR, UON.
- 14. CONTRACTOR SHALL VISIT SITE PRIOR TO BID DATE, TO VERIFY ALL EXISTING CONDITIONS TO BE ENCOUNTERED IN THE INSTALLATION OF ALL NEW EQUIPMENT AND DEVICES. EXACT INSTALLATION METHOD AND REQUIREMENTS SHALL BE VERIFIED AND DETERMINED PRIOR TO BID DATE. CONTRACTORS SHALL IMMEDIATELY NOTIFY THIS ENGINEER OF ANY REQUIRED MODIFICATIONS WHICH ARE NOT SHOWN ON THESE DRAWINGS. SUBMITTAL OF BID INDICATES CONTRACTOR IS AWARE OF ALL JOB SITE CONDITIONS AND WORK TO BE PERFORMED.
- 15. ALL EQUIPMENT CHARACTERISTICS, LOCATIONS, AND CONNECTION REQUIREMENTS SHALL BE VERIFIED PRIOR TO ANY ROUGH—IN WORK.
- 16. CONTRACTOR SHALL FURNISH SHOP DRAWINGS FOR APPROVAL. SEE "SUBMITTALS" REQUIREMENTS UNDER "SECURITY SYSTEM DESIGN—BUILD CRITERIA" ON THIS SHEET. THESE ITEMS SHALL BE APPROVED BY THIS OFFICE PRIOR TO ANY COMMENCEMENT OF PLACING ORDERS OR PERFORMING ANY ROUGH—IN WORK.
- 17. PENETRATIONS OF ALL FIRE—RATED WALLS OR CEILINGS SHALL BE FIRE—RATED IN ACCORDANCE WITH ALL LOCAL, STATE, AND NATIONAL CODES.
- 18. PROVIDE THE OWNER AND ENGINEER ONE (1) SET OF ELECTRICAL "AS-BUILTS" AT THE COMPLETION OF JOB.

ALL GENERAL NOTES AND SPECIFICATIONS CONTAINED HEREIN APPLY TO THE GENERAL CONTRACTOR AND AWARDED DESIGN—BUILD CONTRACTOR(S) BIDDING THESE PLANS. THE GENERAL CONTRACTOR (GC) AND OWNER ARE RESPONSIBLE FOR PROVIDING THIS SET OF PLANS TO ALL RELEVANT PARTIES (ELECTRICAL CONTRACTOR, DESIGN—BUILD LOW—VOLTAGE CONTRACTOR(S), SYSTEM INTEGRATORS, ETC.) IN ORDER TO DEVELOP AN ACCURATE, ALL—INCLUSIVE BID, AND TO ENSURE A COMPLETE AND FULLY—OPERATIONAL SYSTEM IS DELIVERED, INCLUDING ALL REQUIRED CONDUIT PATHWAYS. POWER SUPPLIES. CONNECTIONS, ETC.

- SCOPE OF WORK: THE SCOPE OF WORK FOR THIS CONTRACTOR SHALL CONSIST OF DELIVERING A COMPLETE DESIGN—BUILD INSTALLATION BASED ON THIS SET OF PLANS FOR TECHNOLOGY, AUDIO VISUAL, CCTV, INTRUSION DETECTION AND ACCESS CONTROL SYSTEMS.

 SELECTED DESIGN—BUILD CONTRACTOR(S) SHALL UTILIZE THIS SET OF PLANS AS A BASIS—OF—DESIGN TO BE USED BY AWARDED CONTRACTOR(S) IN DEVELOPING A FINAL SET OF CONSTRUCTION DOCUMENTS AND SPECIFICATIONS FOR THE SYSTEMS IDENTIFIED ABOVE.
- 3. CONTRACTOR SHALL PROVIDE ALL REQUIRED MATERIAL, INCLUDING BUT NOT LIMITED TO, LOW-VOLTAGE CABLING, HARDWARE, PATHWAYS, ACCESSORIES, MODULES, DEVICES, CONTROLLERS, POWER SUPPLIES, ETC. WHETHER INDICATED HEREIN OR NOT, AND LABOR FOR A COMPLETE AND OPERATIONAL SYSTEM. FINAL SYSTEM SHALL ACCOMMODATE THE TOTAL NUMBER OF DEVICE LOCATIONS AND/OR CONTROL POINTS IDENTIFIED AS A MINIMUM AND MEET THE SYSTEM DESIGN INTENT OF THESE DOCUMENTS.
- 4. THE SYSTEM(S) PLANS CONTAINED IN THESE SHEETS ARE CONCEPTUAL ONLY AND ARE BASED ON INITIAL OWNER INPUT RECEIVED TO DATE AND DESIGN TEAM INFORMATION COORDINATED THUS FAR. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ADAPTING THE SYSTEMS AND DESIGN INTENT ILLUSTRATED WITHIN THIS DESIGN—BUILD CRITERIA TO THE ACTUAL CONDITIONS OF THIS PROJECT AND THE OWNER'S NEEDS. THE CONTRACTOR SHALL COORDINATE, CONFIRM, AND FINALIZE SYSTEM COVERAGE, FEATURES AND PROGRAMMING WITH OWNER, OWNER'S SUPPORT STAFF (IT, SECURITY, ETC.), DESIGN TEAM, AND OTHER TRADES/DISCIPLINES PRIOR TO BID AND PRIOR TO COMPLETING FINAL CONSTRUCTION DOCUMENTS FOR THE SYSTEMS IDENTIFIED ABOVE. COORDINATE DEVICE LOCATIONS, HEIGHTS, ETC. WITH ARCHITECT AND OTHER TRADES PRIOR TO ROUGH—IN.
- COORDINATION AND QUALITY ASSURANCE: ALL DESIGN, MATERIALS AND INSTALLATION METHODS EMPLOYED FOR THESE SYSTEM(S) SHALL BE COMPLIANT WITH THE MOST CURRENT VERSIONS OF ALL NATIONAL AND LOCALLY RECOGNIZED CODES AND REGULATIONS, INCLUDING REQUIREMENTS AS COORDINATED WITH, AND IDENTIFIED BY, THE OWNER. ITEM COORDINATION SHALL INCLUDE, BUT NOT BE LIMITED TO, SOFTWARE/PROGRAMMING PACKAGES, FINAL HEAD END EQUIPMENT AND DEVICE LOCATIONS (INCLUDING MOUNTING TYPES AND HEIGHTS), MANUFACTURER POWER REQUIREMENTS, INTEGRATION AND REQUIREMENTS WITH OTHER SYSTEMS (FIRE LIFE SAFETY), ETC. VERIFY WITH OWNER LEVEL OF INTEGRATION AND COMPARABILITY BETWEEN THESE SYSTEMS AND MANUFACTURES AS WELL AS ANY OTHER SPECIAL SYSTEMS NOT PART OF THIS SCOPE.
- 6. QUALIFICATIONS: CONTRACTOR(S) SHALL HOLD A VALID STATE OF CALIFORNIA C10 AND C7 LICENSE AND SHALL HAVE BEEN IN THE BUSINESS OF FURNISHING AND INSTALLING SIMILAR SYSTEMS OF SCOPE AND SIZE FOR A MINIMUM OF FIVE (5) YEARS. CONTRACTOR SHALL BE CAPABLE OF BEING BONDED TO ASSURE THE OWNER PERFORMANCE AND SATISFACTORY SERVICE DURING THE WARRANTY PERIOD.
- 7. INSTALLING CONTRACTOR SHALL BE A FACTORY AUTHORIZED DISTRIBUTOR, INSTALLER AND WARRANTY STATION FOR THE BRAND OF EQUIPMENT BEING OFFERED. IN ADDITION, CONTRACTOR SHALL FURNISH CERTIFICATES OF TRAINING FOR PERSONNEL PERFORMING WORK AND A LETTER FROM THE MANUFACTURER ADDRESSED TO THE OWNER (OR OWNER'S REPRESENTATIVE) CERTIFYING THAT THE CONTRACTOR IS AN AUTHORIZED DISTRIBUTOR AND INSTALLER OF SAID EQUIPMENT AND EQUIPMENT SHALL BE INSTALLED ACCORDING TO INTENDED MANUFACTURER'S PRACTICES. CONTRACTOR SHALL MAINTAIN A FULLY EQUIPPED SERVICE ORGANIZATION CAPABLE OF FURNISHING ADEQUATE REPAIR SERVICE TO WARRANTED EQUIPMENT WITH RESPONSE TIMES TO PROJECT SITE WITHIN 4 HOURS TIME.
- <u>WIRELESS</u>: WIRELESS DEVICES AND/OR COMPONENTS ARE NOT ALLOWED AS PART OF CONTRACTOR'S BASE BID UNLESS OTHERWISE NOTED. APPROVAL OF WIRELESS SYSTEMS SHALL BE AT THE DISCRETION OF THE ENGINEER OF RECORD AND OWNER. ANY PROPOSED WIRELESS SYSTEM COMPONENTS SHALL CONTAIN A PRE-BID SUBMITTAL PACKAGE FOR A BID-ALTERNATE PACKAGE CONSIDERATION. SUBMITTAL SHALL INCLUDE ALL DATA AND DOCUMENTS IDENTIFIED WITHIN THE SUBMITTAL REQUIREMENTS OF THIS SECTION.
- 9. <u>SOFTWARE</u>; ALL SYSTEM DESIRED SOFTWARE PLATFORMS AND QUANTITY OF LICENSES SHALL BE PROVIDED FOR ALL FURNISHED EQUIPMENT AS PART OF THE COMPLETE AND OPERATIONAL SYSTEM. ALL SYSTEM SOFTWARE PLATFORMS INSTALLED SHALL BE THE FULL AND COMPLETE VERSION OF THE MOST RECENT SOFTWARE PACKAGE AVAILABLE AT THE TIME OF INSTALLATION. OWNER SHALL BE PROVIDED FORMAL COPIES OF ALL LICENSES AND FURNISHED WITH ALL USER NAMES AND PASSWORDS TO SYSTEMS AS PART OF CLOSE—OUT DOCUMENTATION.
- 10. <u>SUBMITTALS:</u> FURNISH VIA SUBMITTAL PROCESS COMPLETED CONSTRUCTION DOCUMENTS, SPECIFICATIONS, AND PRODUCT DATA CUT SHEETS FOR THE SYSTEMS IDENTIFIED ABOVE AND HEREIN. SUBMITTALS FOR THESE SYSTEMS MUST INCLUDE, <u>AT A MINIMUM</u>, THE FOLLOWING INFORMATION:
- A. COPY OF CONTRACTOR'S VALID AND CURRENT CALIFORNIA STATE LICENSE (C7 AND C10)
- B. COPY OF PROJECT LIST WITH (10) COMPLETED PROJECTS WITHIN THE LAST (5) YEARS.
 C. COPY OF MANUFACTURER'S AUTHORIZATION LETTERS IDENTIFYING THE CONTRACTOR AS AN AUTHORIZED DISTRIBUTOR AND INSTALLER.
- D. PROOF OF CONTRACTOR'S TRAINED PERSONNEL, AND PERSONNEL ARE LOCATED IN THE LOCAL FACILITY.

 E. MANUFACTURER'S WARRANTY (STANDARD AND EXTENDED WARRANTIES).
- F. PROPOSED MANUFACTURER AND SYSTEM IN ACCORDANCE WITH THIS CRITERIA INCLUDING DATA CUT SHEETS FOR ALL PRODUCT
- G. PROPOSED COMPLETE SYSTEM LAYOUT INDICATING LOCATIONS FOR ALL DEVICES, CONTROL POINTS, POWER-SUPPLIES, TERMINAL CABINETS, CABLING, ETC. ASSOCIATED WITH THIS PROJECT, INCLUDING WIRING DIAGRAMS, WIRE LEGENDS, DEVICE AND BACK BOX MOUNTING HEIGHTS, ZONING SCHEDULE/LEGEND, ETC. PLANS SUBMITTED SHALL INCLUDE PROPOSED CABLING AND CONDUIT ROUTING ON
- 1/8" SCALE PLANS.

 H. RISER/SINGLE LINE DIAGRAMS AND CALCULATIONS SHOWING COMPLETE SYSTEM LAYOUT, INCLUDING BUT NOT LIMITED TO, CONNECTION DIAGRAMS FOR SYSTEMS AS WELL AS INTERFACE WITH OTHER SYSTEMS WHERE APPLICABLE, AND CONNECTIVITY, INCLUDING ANY BATTERY AND VOLTACE DROP CALCULATIONS.
- BATTERY AND VOLTAGE DROP CALCULATIONS.

 I. HEAD—END EQUIPMENT LOCATIONS AND ELEVATIONS.
- J. INCLUDE TESTING AND COMMISSIONING PROCEDURES, COORDINATED WITH OWNER'S REQUIREMENTS AND MANUFACTURER'S STANDARDS, INCLUDING ANSI/TIA-568-C.0, ANSI/TIA-568-C.1, ANSI/TIA-568-C.2, ANSI/TIA-568-C.3.
 K. SUBMITTALS WITHOUT THE ABOVE INFORMATION SHALL BE DEEMED INCOMPLETE AND WILL BE REJECTED.
- 11. WARRANTY, SUPPORT, AND PROGRAMMING:
- A. CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR OBTAINING THE MANUFACTURER'S WARRANTY. ALL COMPONENTS, PARTS AND ASSEMBLIES SUPPLIED BY THE MANUFACTURER AND INSTALLED BY THE CONTRACTOR SHALL BE WARRANTED AGAINST DEFECTS IN MATERIAL AND WORKMANSHIP (PARTS AND LABOR) FOR A PERIOD OF ONE (1) YEAR MINIMUM. CONTRACTOR SHALL INCLUDE IN BID ALL REQUIRED TECHNICAL SUPPORT, PROGRAMMING, PARTS AND LABOR TO SUCCESSFULLY EXECUTE AND MEET THE INTENT OF THIS CRITERIA. WARRANTY PERIOD SHALL BEGIN FROM THE DATE OF FINAL WRITTEN ACCEPTANCE BY THE OWNER. PROVIDE TYPED IDENTIFICATION/INFORMATION CARD AT HEAD END EQUIPMENT LOCATION INDICATING WARRANTY PERIOD START DATE AND COMPANY CONTACT INFORMATION FOR WARRANTY SERVICE, INCLUDING COMPANY NAME, ADDRESS AND PHONE NUMBER.
- B. CONTRACTOR SHALL PROVIDE AND INCLUDE ALL PARTS & COMPONENTS OF THE VOICE/ TELECOM SYSTEM, AS PART OF A COMPLETE "END-TO-END" SOLUTION, IN ORDER TO ESTABLISH & MAINTAIN MANUFACTURE'S EXTENDED WARRANTIES. SYSTEM COMPONENTS (AND MANUFACTURE'S RECOGNIZED EXTENDED WARRANTY) SHALL BE INCLUDED WITH SUBMITTAL DOCUMENTATION FOR ALL PROPOSED SYSTEMS. SEE WARRANTY REQUIREMENTS FOR ADDITIONAL INFORMATION.
- 12. CONTRACTOR TO INCLUDE BID-ALTERNATE LINE ITEM AS PART OF HIS BID FOR AN EXTENDED SERVICE/MAINTENANCE AGREEMENT FOR THE DURATION OF THE WARRANTY PERIOD AND ONE (1) YEAR BEYOND WARRANTY EXPIRATION DATE.
- 13. <u>ALTERNATES</u>: APPROVAL FOR ALTERNATE SYSTEMS IS REQUIRED <u>PRIOR TO BID</u>, SUBMIT ALL ALTERNATE SYSTEM INFORMATION (15) DAYS PRIOR TO BID DEADLINE FOR ENGINEER REVIEW. PROPOSED ALTERNATE SYSTEM INFORMATION SHALL BE PROVIDED AS IDENTIFIED IN THE SUBMITTAL REQUIREMENTS ABOVE. IN ADDITION, INCLUDE LINE ITEM COST COMPARISON AND OVERALL SYSTEM COST SAVINGS. BIDDING CONTRACTOR SHALL INCLUDE A STATEMENT EXPLAINING THE POTENTIAL BENEFIT TO OWNER FOR THE ACCEPTANCE OF PROPOSED ALTERNATE.
- 14. INTERRUPTIONS OR SERVICE OUTAGES OF ANY EXISTING SYSTEM SHALL BE COORDINATED AND SCHEDULED WITH THE OWNER A MINIMUM OF TWO WEEKS ADVANCED NOTICE, AND WITH OWNER'S WRITTEN APPROVAL FOR SCHEDULE. OUTAGES SHALL TAKE PLACE OUTSIDE OF NORMAL BUSINESS, OR BUILDING'S OCCUPIED HOURS. ALL COSTS SHALL BE BORNE BY THE CONTRACTOR TO ACCOMMODATE OUTAGE SCHEDULING.
- 15. <u>BOOK SPECIFICATIONS:</u> IN THE EVENT OF CONFLICTS BETWEEN CONSTRUCTION BID DOCUMENT SPECIFICATIONS AND THE CRITERIA ABOVE, THE MOST STRINGENT OF REQUIREMENTS SHALL APPLY.
- 16. ACCEPTABLE MANUFACTURERS:
- <u>CABLING</u> A. GENERAL CABLE
- B. PANDUIT

 CONNECTING HARDWARE
- <u>RACKS</u>

A. CHATSWORTH

A. PANDUIT

- AUDIO VISUAL EQUIPMENT AND CABLING:
- A. HP POLY B. SAMSUNG

SECURITY SYSTEM DESIGN-BUILD CRITERIA, GENERAL NOTES & SPECIFICATIONS

- 1. ALL GENERAL NOTES AND SPECIFICATIONS CONTAINED HEREIN APPLY TO THE GENERAL CONTRACTOR AND AWARDED DESIGN—BUILD CONTRACTOR(S) BIDDING THESE PLANS. THE GENERAL CONTRACTOR AND OWNER ARE RESPONSIBLE FOR PROVIDING THIS SET OF PLANS TO ALL RELEVANT PARTIES (ELECTRICAL CONTRACTOR, DESIGN—BUILD LOW—VOLTAGE CONTRACTOR(S), SYSTEM INTEGRATORS, ETC.) IN ORDER TO DEVELOP AN ACCURATE ALL—INCLUSIVE BID, AND TO ENSURE A COMPLETE AND OPERABLE SYSTEM IS DELIVERED, INCLUDING ALL REQUIRED CONDUIT PATHWAYS, POWER SUPPLIES, CONNECTIONS, ETC.
- 2. SCOPE OF WORK: THE SCOPE OF WORK FOR THIS CONTRACTOR SHALL CONSIST OF DELIVERING A COMPLETE DESIGN—BUILD INSTALLATION BASED ON THIS SET OF PLANS FOR THE INTRUSION ALARM SYSTEM. SELECTED DESIGN—BUILD CONTRACTOR(S) SHALL UTILIZE THIS SET OF PLANS AS A BASIS—OF—DESIGN TO BE USED BY AWARDED CONTRACTOR(S) IN DEVELOPING A FINAL SET OF CONSTRUCTION DOCUMENTS AND SPECIFICATIONS FOR THE SYSTEMS IDENTIFIED ABOVE.
- 3. CONTRACTOR SHALL PROVIDE ALL REQUIRED MATERIAL (INCLUDING, BUT NOT LIMITED TO LOW-VOLTAGE CABLING, HARDWARE, PATHWAYS, ACCESSORIES, MODULES, DEVICES, CONTROLLERS, POWER SUPPLIES, ETC. WHETHER INDICATED HEREIN OR NOT), AND LABOR FOR A COMPLETE AND OPERABLE SYSTEM. FINAL SYSTEM SHALL ACCOMMODATE THE TOTAL NUMBER OF DEVICE LOCATIONS AND/OR CONTROL POINTS IDENTIFIED AS A MINIMUM AND MEET THE SYSTEM INTENT OF THESE DOCUMENTS.
- 4. THE SYSTEM(S) PLANS CONTAINED IN THESE SHEETS ARE CONCEPTUAL ONLY AND ARE BASED ON INITIAL OWNER INPUT RECEIVED TO DATE AND DESIGN TEAM INFORMATION COORDINATED THUS FAR. THE AWARDED CONTRACTOR(S) SHALL BE RESPONSIBLE FOR ADAPTING THE SYSTEM(S) AND DESIGN INTENT ILLUSTRATED WITHIN THIS DESIGN—BUILD CRITERIA TO THE ACTUAL CONDITIONS OF THIS PROJECT AND THE FINAL OWNER'S NEEDS. CONTRACTOR(S) SHALL COORDINATE, CONFIRM, AND FINALIZE DESIRED SYSTEM(S) COVERAGE, FEATURES AND PROGRAMMING WITH OWNER, OWNER'S SUPPORT STAFF (IT, SECURITY, ETC.) DESIGN TEAM, AND OTHER TRADES/DISCIPLINES PRIOR TO BID AND PRIOR TO COMPLETING FINAL CONSTRUCTION DOCUMENTS FOR THE SYSTEM(S) IDENTIFIED ABOVE. COORDINATE DEVICE LOCATIONS, HEIGHTS, ETC. WITH ARCHITECT AND OTHER TRADES PRIOR TO ROUGH—IN.
- 5. COORDINATION AND QUALITY ASSURANCE: ALL DESIGN, MATERIALS AND INSTALLATION METHODS EMPLOYED FOR THESE SYSTEM(S) SHALL BE COMPLIANT WITH THE MOST CURRENT VERSIONS OF ALL NATIONAL AND LOCALLY RECOGNIZED CODES AND REGULATIONS, INCLUDING REQUIREMENTS AS COORDINATED WITH, AND IDENTIFIED BY, THE OWNER. ITEM COORDINATION SHALL INCLUDE, BUT NOT BE LIMITED TO, SOFTWARE/PROGRAMMING PACKAGES, FIELD—OF—VIEW AND FOCAL POINTS (CCTV), FINAL HEAD END EQUIPMENT AND DEVICE LOCATIONS (INCLUDING MOUNTING TYPES AND HEIGHTS), SEQUENCE OF OPERATIONS, DOOR HOLD AND LOCK MECHANISMS, MANUFACTURER POWER REQUIREMENTS, INTEGRATION AND REQUIREMENTS WITH OTHER SYSTEMS (FIRE LIFE SAFETY), ETC. VERIFY WITH OWNER LEVEL OF INTEGRATION AND COMPARABILITY BETWEEN THESE SYSTEMS AND MANUFACTURES AS WELL AS ANY OTHER SPECIAL SYSTEMS NOT PART OF THIS SCOPE (AV, LIGHTING CONTROL, ENERGY MANAGEMENT, ETC.)
- 6. QUALIFICATIONS: CONTRACTOR(S) SHALL HOLD A VALID STATE OF CALIFORNIA C10 AND C7 LICENSE AND SHALL HAVE BEEN IN THE BUSINESS OF FURNISHING AND INSTALLING SIMILAR SYSTEMS OF SCOPE AND SIZE FOR A MINIMUM OF FIVE (5) YEARS. CONTRACTOR SHALL BE CAPABLE OF BEING BONDED TO ASSURE THE OWNER PERFORMANCE AND SATISFACTORY SERVICE DURING THE WARRANTY PERIOD.
- 7. INSTALLING CONTRACTOR SHALL BE A FACTORY AUTHORIZED DISTRIBUTOR, INSTALLER AND WARRANTY STATION FOR THE BRAND OF EQUIPMENT BEING OFFERED. IN ADDITION, CONTRACTOR SHALL FURNISH CERTIFICATES OF TRAINING FOR PERSONNEL PERFORMING WORK AND A LETTER FROM THE MANUFACTURER ADDRESSED TO THE OWNER (OR OWNER'S REPRESENTATIVE) CERTIFYING THAT THE CONTRACTOR IS THE AUTHORIZED DISTRIBUTOR AND INSTALLER OF SAID EQUIPMENT AND EQUIPMENT SHALL BE INSTALLED ACCORDING TO INTENDED MANUFACTURER'S PRACTICES. CONTRACTOR SHALL MAINTAIN A FULLY EQUIPPED SERVICE ORGANIZATION CAPABLE OF FURNISHING ADEQUATE REPAIR SERVICE TO WARRANTED EQUIPMENT WITH RESPONSE TIMES TO PROJECT SITE WITHIN 4 HOURS TIME.
- <u>WIRELESS:</u> WIRELESS DEVICES AND/OR COMPONENTS ARE NOT ALLOWED AS PART OF CONTRACTOR'S BASE BID UNLESS OTHERWISE NOTED, AND APPROVAL OF WIRELESS SYSTEMS SHALL BE AT THE DISCRETION OF THE ENGINEER OF RECORD AND OWNER. ANY PROPOSED WIRELESS SYSTEM COMPONENTS SHALL CONTAIN A PRE-BID SUBMITTAL PACKAGE FOR A BID-ALTERNATE PACKAGE CONSIDERATION. SUBMITTAL SHALL INCLUDE ALL DATA AND DOCUMENTS IDENTIFIED WITHIN THE SUBMITTAL REQUIREMENTS OF THIS SECTION.
- 9. <u>SOFTWARE:</u> ALL SYSTEM DESIRED SOFTWARE PLATFORMS AND QUANTITY OF LICENSES SHALL BE PROVIDED FOR ALL FURNISHED EQUIPMENT AS PART OF THE CONTRACTOR'S COMPLETE AND OPERABLE SYSTEM(S). ALL SYSTEM SOFTWARE PLATFORMS INSTALLED SHALL BE THE FULL AND COMPLETE VERSION OF THE MOST RECENT SOFTWARE PACKAGE AVAILABLE AT THE TIME OF INSTALLATION. OWNER SHALL BE PROVIDED FORMAL COPIES OF ALL LICENSES AND FURNISHED WITH ALL USER NAMES AND PASSWORDS TO SYSTEMS AS PART OF CLOSE—OUT DOCUMENTATION.
- 10. <u>SUBMITTALS:</u> FURNISH VIA SUBMITTAL PROCESS COMPLETED CONSTRUCTION DOCUMENTS, SPECIFICATIONS, AND PRODUCT DATA CUT SHEETS FOR THE SYSTEMS IDENTIFIED ABOVE AND HEREIN. SUBMITTALS FOR THESE SYSTEMS MUST INCLUDE, <u>AT A MINIMUM.</u> THE FOLLOWING INFORMATION:
- A. COPY OF CONTRACTOR'S VALID AND CURRENT CALIFORNIA STATE LICENSE (C7 AND C10)
- B. COPY OF PROJECT LIST WITH (10) COMPLETED PROJECTS WITHIN THE LAST (5) YEARS.
- C. COPY OF MANUFACTURER'S AUTHORIZATION LETTERS IDENTIFYING THE CONTRACTOR AS AN AUTHORIZED DISTRIBUTOR AND INSTALLER.
- D. PROOF OF CONTRACTOR'S TRAINED PERSONNEL, AND PERSONNEL ARE LOCATED IN THE LOCAL FACILITY E. MANUFACTURER'S WARRANTY.
- F. PROPOSED MANUFACTURER AND SYSTEM IN ACCORDANCE WITH THIS CRITERIA INCLUDING DATA CUT SHEETS FOR ALL PRODUCT
- EQUIPMENT AND DEVICES

 G. PROPOSED COMPLETE SYSTEM LAYOUT INDICATING LOCATIONS FOR ALL DEVICES, CONTROL POINTS, POWER—SUPPLIES, TERMINAL CABINETS CABLING, ETC. ASSOCIATED WITH THIS PROJECT, INCLUDING WIRING DIAGRAMS, WIRE LEGENDS, DEVICE AND BACK BOX MOUNTING HEIGHTS, ZONING SCHEDULE/LEGEND, ETC. PLANS SUBMITTED SHALL INCLUDE PROPOSED CABLING AND CONDUIT ROUTING ON 1/8" SCALE PLANS.
- H. RISER/SINGLE LINE DIAGRAMS AND CALCULATIONS SHOWING COMPLETE SYSTEM LAYOUT, INCLUDING BUT NOT LIMITED TO, CONNECTION DIAGRAMS FOR SYSTEMS AS WELL AS INTERFACE WITH OTHER SYSTEMS WHERE APPLICABLE, AND CONNECTIVITY, INCLUDING ANY BATTERY AND VOLTAGE DROP CALCULATIONS.

 I. HEAD-END EQUIPMENT LOCATIONS AND ELEVATIONS.
- J. TESTING AND COMMISSIONING PER OWNER'S REQUIREMENTS, INDUSTRY STANDARDS, AND MANUFACTURE STANDARDS.
 K. SUBMITTALS WITHOUT THE ABOVE INFORMATION SHALL BE DEEMED INCOMPLETE AND REJECTED.

INFORMATION FOR WARRANTY SERVICE, INCLUDING COMPANY NAME, ADDRESS AND PHONE NUMBER.

- 14. WARRANTY, SUPPORT, AND PROGRAMMING: CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR OBTAINING THE MANUFACTURER'S WARRANTY. ALL COMPONENTS, PARTS AND ASSEMBLIES SUPPLIED BY THE MANUFACTURER AND INSTALLED BY THE CONTRACTOR SHALL BE WARRANTED AGAINST DEFECTS IN MATERIAL AND WORKMANSHIP (PARTS AND LABOR) FOR A PERIOD OF ONE (1) YEAR MINIMUM. CONTRACTOR SHALL INCLUDE IN BID ALL REQUIRED TECHNICAL SUPPORT, PROGRAMMING, PARTS AND LABOR TO SUCCESSFULLY EXECUTE AND MEET THE INTENT OF THIS CRITERIA. WARRANTY PERIOD SHALL BEGIN FROM THE DATE OF FINAL WRITTEN ACCEPTANCE BY THE OWNER. PROVIDE TYPED IDENTIFICATION/INFORMATION CARD AT HEAD END EQUIPMENT LOCATION INDICATING WARRANTY PERIOD START DATE AND COMPANY CONTACT
- 15. CONTRACTOR SHALL INCLUDE BID-ALTERNATE LINE ITEM AS PART OF HIS BID FOR AN EXTENDED SERVICE/MAINTENANCE AGREEMENT FOR THE DURATION OF THE WARRANTY PERIOD AND ONE (1) YEAR BEYOND WARRANTY EXPIRATION DATE.
- 16. TRAINING: INCLUDE AS PART OF BASE BID ALLOWANCE FOR UP TO (2) 4 HOUR TRAINING SESSIONS WITH ACCOMMODATIONS FOR A MAXIMUM OF (6) END-USER TRAINEES AT EACH SESSION. TRAINING SESSIONS SHALL BE HELD ON DIFFERENT DAYS AT A LOCATION DETERMINED BY OWNER. TRAINING SHALL BE PROVIDED WITHIN 30-DAYS OF PROJECT COMPLETION AND SESSION TIMES COORDINATED WITH OWNER PRIOR TO PROJECT COMPLETION.
- 17. TRAINING BID—ALTERNATE: CONTRACTOR TO PROVIDE BID—ALTERNATE LINE ITEM FOR OWNER TRAINING CONSISTING OF ALL CHARGES (INCLUDING TRAVEL, LODGING, MEALS, ETC.) REQUIRED TO PROVIDE FACTORY CERTIFICATION, EQUAL TO THAT OF A FACTORY AUTHORIZED DISTRIBUTOR, FOR THE SYSTEMS INSTALLED, FOR (2) SELECTED OWNER'S REPRESENTATIVES. TRAINING SHALL OCCUR AT THE PRIMARY FACTORY OF THE MANUFACTURERS EQUIPMENT AND SHALL ALLOW THE SELECTED OWNER'S REPRESENTATIVES TO PROVIDE ANY AND ALL FACTORY/MANUFACTURERS APPROVED REPAIRS, SERVICES, SOFTWARE UPGRADES, ETC. WITHOUT AFFECTING ANY AVAILABLE OR APPLICABLE MANUFACTURERS WARRANTIES THAT ARE IN PLACE. TRAINING SHALL BE PROVIDED WITHIN TIMELINE INDICATED ABOVE.
- 18. <u>ALTERNATES:</u> APPROVAL FOR ALTERNATE SYSTEMS IS REQUIRED <u>PRIOR TO BID</u>. SUBMIT ALL ALTERNATE SYSTEM INFORMATION (15) DAYS PRIOR TO BID DEADLINE FOR ENGINEER REVIEW. PROPOSED ALTERNATE SYSTEM INFORMATION SHALL BE PROVIDED AS IDENTIFIED IN THE SUBMITTAL REQUIREMENTS ABOVE. IN ADDITION, INCLUDE LINE ITEM COST COMPARISON AND OVERALL SYSTEM COST SAVINGS. BIDDING CONTRACTOR SHALL INCLUDE A STATEMENT EXPLAINING THE POTENTIAL BENEFIT TO OWNER FOR THE ACCEPTANCE OF PROPOSED ALTERNATE.
- 19. EXTENSION OF EXISTING SYSTEMS: WHERE EXISTING SYSTEMS ARE PRESENT ON THE PREMISES OF THIS PROJECT, SYSTEM(S) PROPOSED HEREIN MUST BE EXTENSIONS OF EXISTING SYSTEM(S) WITH COMPONENTS COMPRISED OF MATCHING MANUFACTURERS AND PRODUCTS UNLESS OTHERWISE NOTED. EXISTING SYSTEM EXTENSIONS SHALL NOT VOID EXISTING WARRANTIES IN PLACE. IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONDUCT ALL SITE INVESTIGATIONS AND TO FAMILIARIZE HIMSELF WITH EXISTING SYSTEMS AND COMPONENTS REQUIRED FOR SAID EXTENSIONS, AND TO BRING TO THE OWNER/ARCHITECT'S ATTENTION ANY ITEMS REQUIRING CLARIFICATION PRIOR TO BID. CONTRACTOR SHALL FURNISH ALL DEVICES, PATHWAYS, BOXES, WIRING, PROGRAMMING AND ANCILLARY COMPONENTS REQUIRED FOR A COMPLETE AND OPERABLE EXPANSION OF EXISTING SYSTEM(S).
- 20. INTERRUPTIONS OR OUTAGE OF SERVICES OF ANY EXISTING SYSTEM SHALL BE COORDINATED AND SCHEDULED WITH OWNER AT A MINIMUM OF TWO WEEKS ADVANCED NOTICE, AND WITH OWNER'S WRITTEN APPROVAL FOR SCHEDULE. OUTAGES SHALL TAKE PLACE OUTSIDE OF NORMAL BUSINESS, OR BUILDING'S OCCUPIED HOURS. ALL COSTS SHALL BE BORNE BY THE CONTRACTOR TO ACCOMMODATE OUTAGE SCHEDULING.
- 21. <u>BOOK SPECIFICATIONS:</u> IN THE EVENT OF CONFLICTS BETWEEN CONSTRUCTION BID DOCUMENT SPECIFICATIONS AND THE CRITERIA ABOVE, THE MOST STRINGENT OF REQUIREMENTS SHALL APPLY.
- 22. ACCEPTABLE SYSTEM MANUFACTURERS:
- INTRUSION DETECTION
- A. BOSCH B. DMP
- C. HONEYWELL SECURITY (#128BP or #250BP)
- 23. ACCEPTABLE CABLING MANUFACTURERS:
- A. WEST PENN B. BELDEN
- C. GENERAL CABLE

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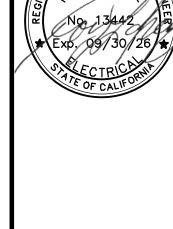
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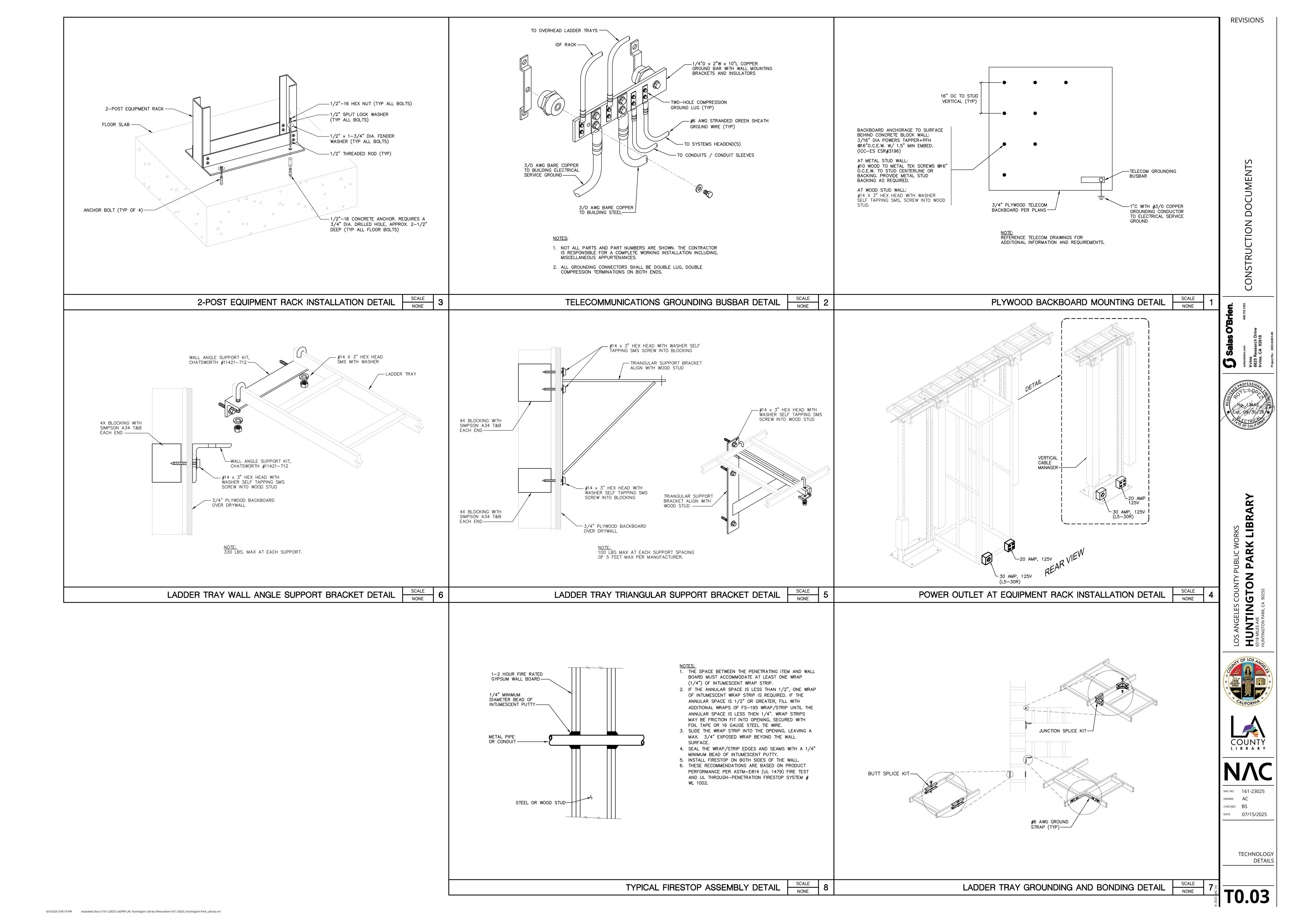


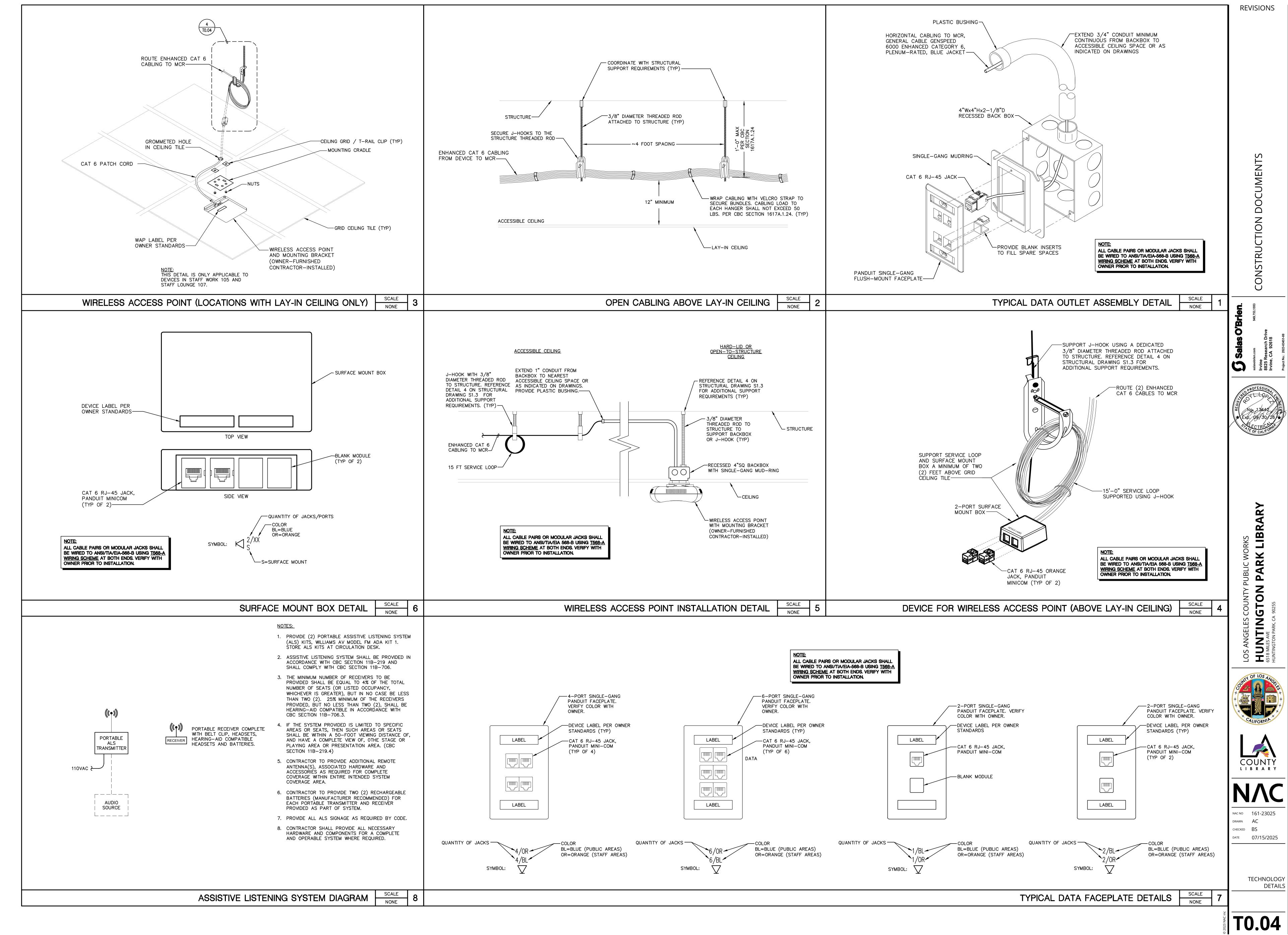
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TECHNOLOGY GENERAL NOTES & SPECIFICATIONS

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KEYNOTES

PRODUCTION OF SYSTEM SHOP DRAWINGS AND INSTALLATION OF ANY DEVICES.

GENERAL NOTES

COMPLETE AND FULLY-OPERATIONAL ACCESS CONTROL SYSTEM. CONTRACTOR

SHALL PROVIDE ALL LABOR, MATERIALS, ENGINEERING, DESIGN, TESTING AND

ACCESS CONTROL SYSTEM, AT A MINIMUM, SHALL INCLUDE A DIGITAL ALARM

COMMUNICATOR, BUILT-IN TELEPHONE LINE MONITOR, MEMORY LOGGER (500

EVENT MINIMUM), REAL TIME CLOCK, CALENDAR, TEST TIMER, BATTERY

DIAGNOSTICS, TIME/EVENT BASED SCHEDULING AND ALL MODULES AND

CHARGING/VOLTAGE SUPERVISION CIRCUITRY, BATTERY LEAD SUPERVISION,

A. BE SCALABLE TO SUPPORT INDEPENDENT DEVICE ZONES (SINGLE DEVICE

OR GROUP OF DEVICES GROUPED TOGETHER), EACH WITH INTERIOR AND

CONTRACTOR SHALL PROVIDE INSTALLATION AND PROGRAMMING OF A

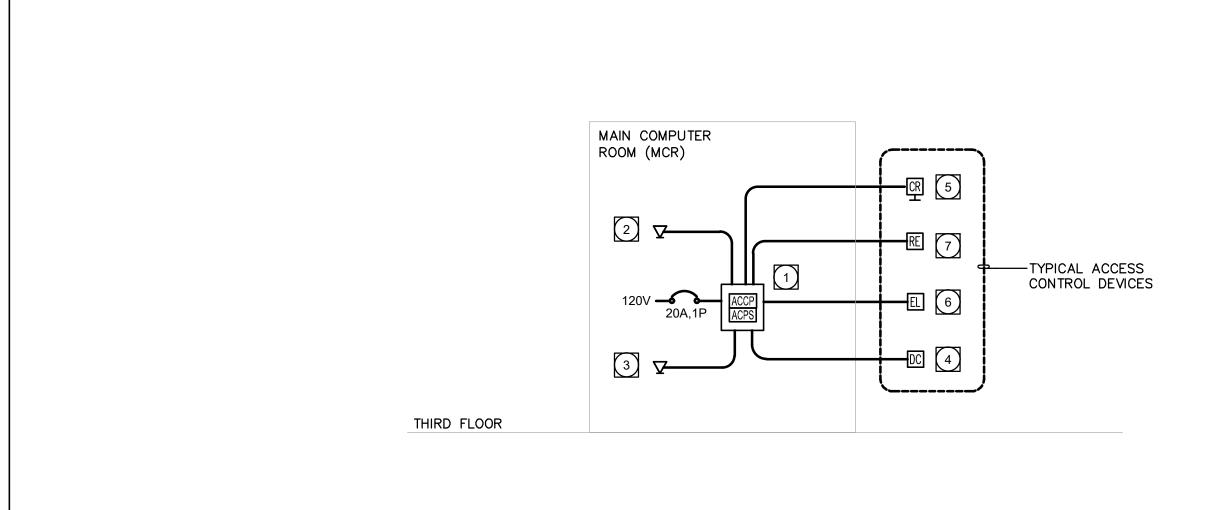
COMMISSIONING AS PART OF THE SCOPE OF WORK.

COMPONENTS FOR A COMPLETE AND OPERABLE SYSTEM.

3. SYSTEM SHALL:

BY USER NUMBER.

- (1) ACCESS CONTROL PANEL (ACCP). PROVIDE A KEYED LOCKABLE ENCLOSURE, DIGITAL ALARM COMMUNICATOR, 120 VOLT POWER SUPPLY AND TRANSFORMER, SECONDARY BATTERIES (OR CONNECTION TO SUPPLEMENTAL EMERGENCY POWER) AND CHARGER, OWNER'S MANUAL, WARRANTY STATEMENT. PROVIDE ALL MODULES AND ACCESSORIES AS REQUIRED FOR A COMPLETE AND OPERATIONAL SYSTEM.
- 2 TELEPHONE SYSTEM BACKUP INTERFACE. PROVIDE (1) CAT 6 4-PAIR UTP CABLE TO ACCESS CONTROL PANEL. COORDINATE PHONE LINE REQUIREMENTS WITH OWNER/ARCHITECT.
- (3) PRIMARY ETHERNET SYSTEM INTERFACE. PROVIDE (1) CAT 6 4-PAIR UTP CABLE TO ACCESS CONTROL PANEL. COORDINATE REQUIREMENTS WITH OWNER/ARCHITECT.
- (4) FLUSH-MOUNT DOOR CONTACT (SEPARATE FROM INTRUSION DETECTION).
- (5) CARD READER SHALL BE UNIVERSAL TYPE WITH HID KEYFOBS OR PROXIMITY CARDS PER OWNER'S SELECTION. SURFACE MOUNT OVER FLUSH BACKBOX.
- (6) ELECTRIFIED DOOR LOCK HARDWARE. PROVIDE CONDUIT AND CONDUCTORS TO DOOR HARDWARE INCLUDING CONNECTIONS TO ALL ELECTRIFIED EQUIPMENT AS IDENTIFIED ON PLAN AND COORDINATED WITH ARCHITECTURAL DOOR SCHEDULES. COORDINATE ROUTING OF CONDUIT/CONDUCTORS FOR CONNECTIONS WITH DOOR INSTALLER/CONTRACTOR PRIOR TO INSTALLATION.
- 7 REQUEST-TO-EXIT SWITCH BUILT-INTO DOOR HARDWARE. CONFIRM WITH DOOR HARDWARE CONSULTANT/VENDOR.



REFERENCE DOOR DETAIL ON THIS SHEET FOR ADDITIONAL REQUIREMENTS.

TYPICAL ACCESS CONTROL WIRING DIAGRAM

BASIS OF DESIGN

. THE INTENT AND PURPOSE OF THE ACCESS CONTROL SYSTEM IS TO

ROOMS OF THE BUILDING AS DEFINED BY THE OWNER. ACCESS TO

INDIVIDUAL UNITS SHALL BE THROUGH USE OF TRADITIONAL LOCKS AND KEYS, AND SHALL NOT BE PART OF THE ACCESS CONTROL

READERS SHALL BE INSTALLED AS INDICATED ON THE PLANS AND AS DEFINED BY THE OWNER. THE SYSTEM SHALL BE PROGRAMMABLE

LOCALLY AND/OR REMOTELY. GRAPHICAL AND CONTROL INTEGRATION

PROVIDE CONTROLLED ENTRY INTO THE BUILDING AND SPECIFIC

2. THE SYSTEM SHALL USE ACCESS READERS AND KEYFOBS. ACCESS

SOFTWARE SHALL BE PROVIDED INCLUDING REQUIRED SERVER,

3. THE ACCESS CONTROL SYSTEM SHALL CONSIST OF, BUT NOT LIMITED

A. ACCESS CONTROL PANEL WITH EXPANSION BOARDS AND REQUIRED

F. ELECTRIFIED DOOR HINGES AND STRIKES (COMPATIBLE WITH DOOR

I. CABLING (SHIELDED AND/OR PLENUM-RATED AS REQUIRED)

INTRUSION DETECTION SYSTEM. INTEGRATION WITH THE INTRUSION

SIGNAL FOR THE PROGRAMMED DISARMING OF THE SYSTEM AT

ACCESS-CONTROLLED DOORS, GATES OR MONITORED AREAS.

A. ASSOCIATED CAMERAS SHALL BE PROGRAMMED TO

7. ALL DOOR HARDWARE COMPONENTS SHALL BE PART OF AND

COMPLETE AND FULLY-OPERATIONAL SYSTEM.

GASKET FOR EXTERIOR DEVICE LOCATIONS.

POWER SUPPLIES: ALTRONIX AL600 SERIES F. <u>UPS:</u> APC SMART UPS (4-HOURS MINIMUM)

H. MAGNETIC DOOR CONTACTS: SENTROL 1078CT REQUEST-TO-EXIT SENSORS: BOSCH DS160

FULLY-OPERATIONAL SYSTEM.

ELECTRIFIED TRIM)

LOCK/POWER - 14AWG/2C

• PROXIMITY READER - 18AWG/6C

 DOOR CONTACT - 18AWG/2C • REQUEST-TO-EXIT - 18AWG/4C

REQUIRED):

SPECIFIC DOORS OR AREAS OF THE BUILDING.

DISPLAYED ON ONE SCREEN.

CONTRACTOR.

DETECTION SYSTEM SHALL PROVIDE A MOMENTARY CONTACT CLOSURE

. THE ACCESS CONTROL SYSTEM SHALL BE INTEGRATED WITH THE CCTV

SYSTEM. INTEGRATION WITH THE CCTV SYSTEM SHALL BE AS "ALARM MODE" WHERE ONE OR MORE CAMERAS MAY BE ASSOCIATED WITH

AUTOMATICALLY PRE-POSITION OR "CALLED" INTO ALARM MODE BY THE ACCESS CONTROL SYSTEM. VIDEO CAPTURED BY CAMERA SHALL BE DISPLAYED IN FULL-SCREEN VIEW ON THE CCTV WORKSTATION AND RECORDED AS "ALARM/EVENT MODE."

B. SYSTEM SHALL ALLOW CAMERAS TO INITIATE PRE-POSITIONING,

VIEWING AND RECORDING. WHEN TWO OR MORE CAMERAS ARE

SIMULTANEOUSLY DESIGNATED FOR EVENT RECORDING, THEY

SHALL EACH BE RECORDED IN "ALARM/EVENT" MODE AND BE

COORDINATED WITH PROJECT DOOR SCHEDULES AND DOOR INSTALLING

8. THE INTENT OF THE PLAN DRAWINGS IS TO GUIDE THE CONTRACTOR

IN THE INSTALLATION AND IMPLEMENTATION OF THE SYSTEM, AND

SHALL NOT BE CONSIDERED AS FINAL OR COMPLETE DESIGN. THE CONTRACTOR SHALL INCLUDE AS PART OF HIS BID ALL REQUIRED

MATERIALS AND LABOR. INCLUDING BUT NOT LIMITED TO ACCESS

9. THE LIST BELOW SHALL BE UTILIZED AS BASIS OF DESIGN FOR THE

PROVIDE ALL COMPONENTS NECESSARY FOR A COMPLETE AND

ACCESS CONTROL SYSTEM. IT IS NOT A COMPLETE LIST OF

CONTROL DEVICES, CABLING, CONNECTIONS, PATHWAYS, FIRESTOPPING,

HARDWARE, SOFTWARE, UPS/BATTERY BACKUP, PROGRAMMING AND

INTERFACE WITH OTHER SYSTEMS, LICENSES AND WARRANTIES, FOR A

PARTS/MATERIALS BUT A GUIDE. CONTRACTOR SHALL AUGMENT AND

A. APPROVED MANUFACTURERS: RS2 TECHNOLOGIES, ALLEGION AND

B. <u>SYSTEM CONTROLLER:</u> RS2 TECHNOLOGIES SYSTEM CONTROLLER WITH ENTERPRISE-WIDE "ACCESS IT!" SOFTWARE AND WEB LICENSE "ACCESS IT!" UNIVERSAL BROWSER INTERFACE C. PROXIMITY READERS: HID MULTI CLASS SE READER (13.56MHZ), HID RP10, RP15, RP40. PROVIDE WITH OPTIONAL IP65GSKT

. <u>CREDENTIALS (KEY FOBS)</u>: HID ICLASS KEY II (13.56MHZ)

G. PANIC HARDWARE: VON DUPRIN SERIES #99 OR #33 (WITH

J. ACCESS CONTROL CABLES (SHIELDED AND/OR PLENUM-RATED AS

4. THE ACCESS CONTROL SYSTEM SHALL BE INTEGRATED WITH THE

SYSTEM.

COMPUTER AND DISPLAY.

LICENSES

TO THE FOLLOWING COMPONENTS:

B. WORKSTATION AND/OR SERVER

C. PROXIMITY ACCESS READERS

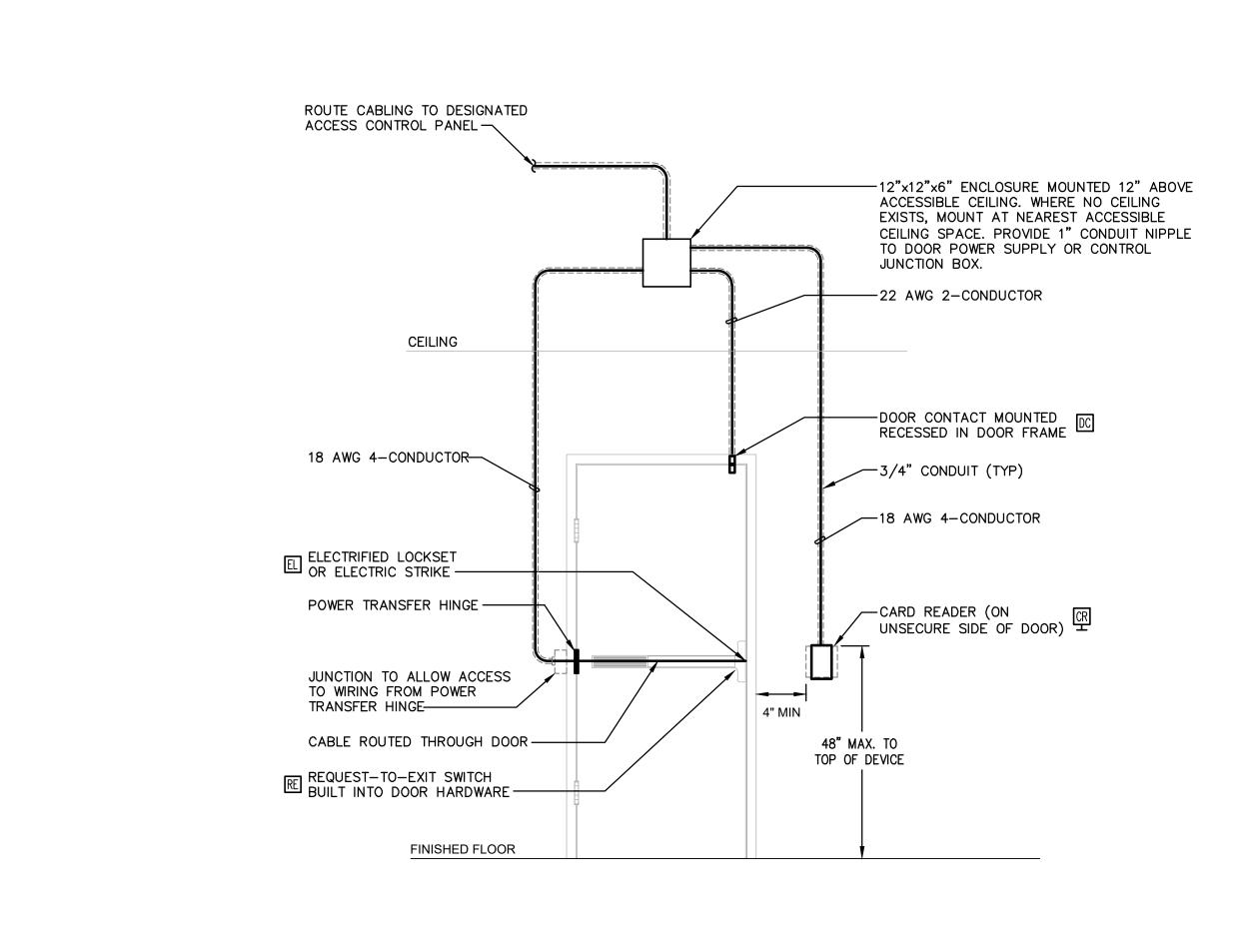
E. MAGNETIC DOOR CONTACTS

G. REQUEST-TO-EXIT SENSORS

D. CREDENTIALS (KEYFOBS)

PANIC HARDWARE)

H. POWER SUPPLIES

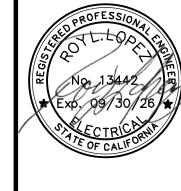


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SINGLE DOOR WITH CARD READER SCALE NTS 2

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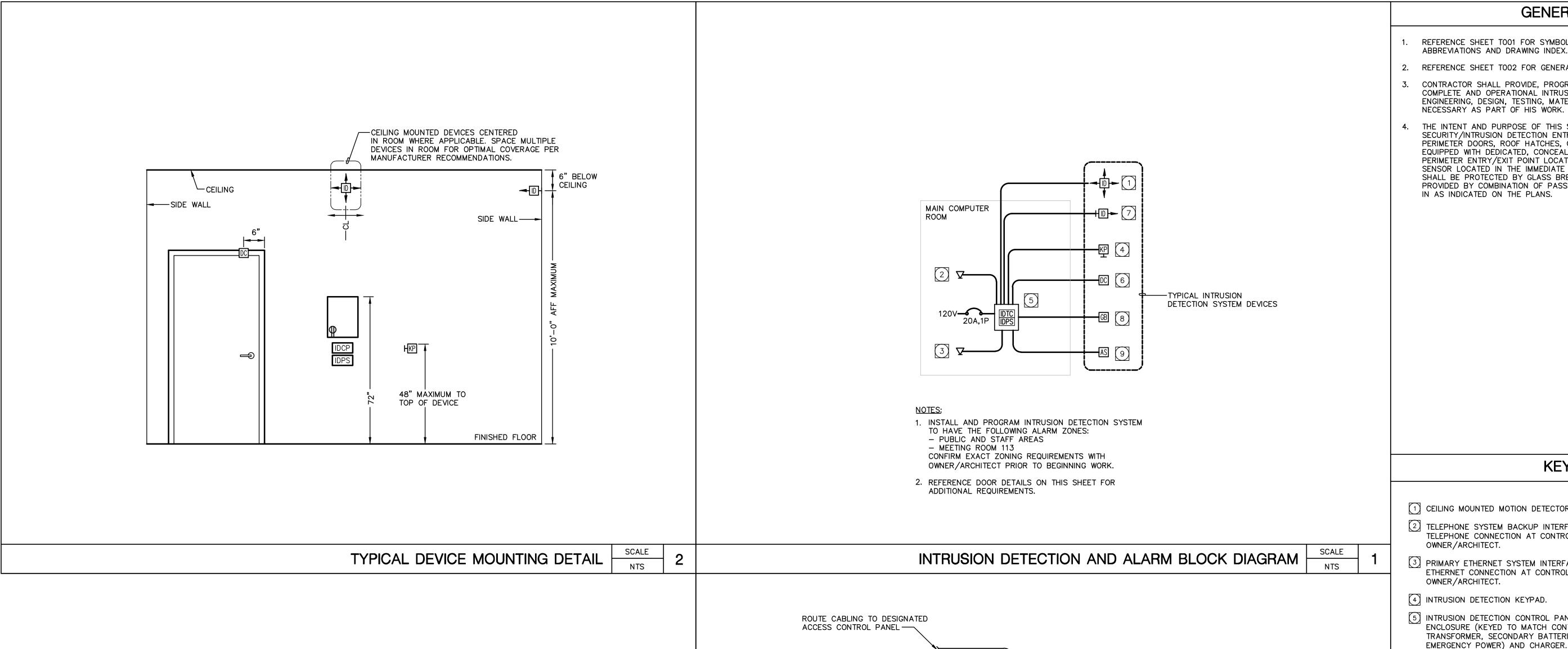




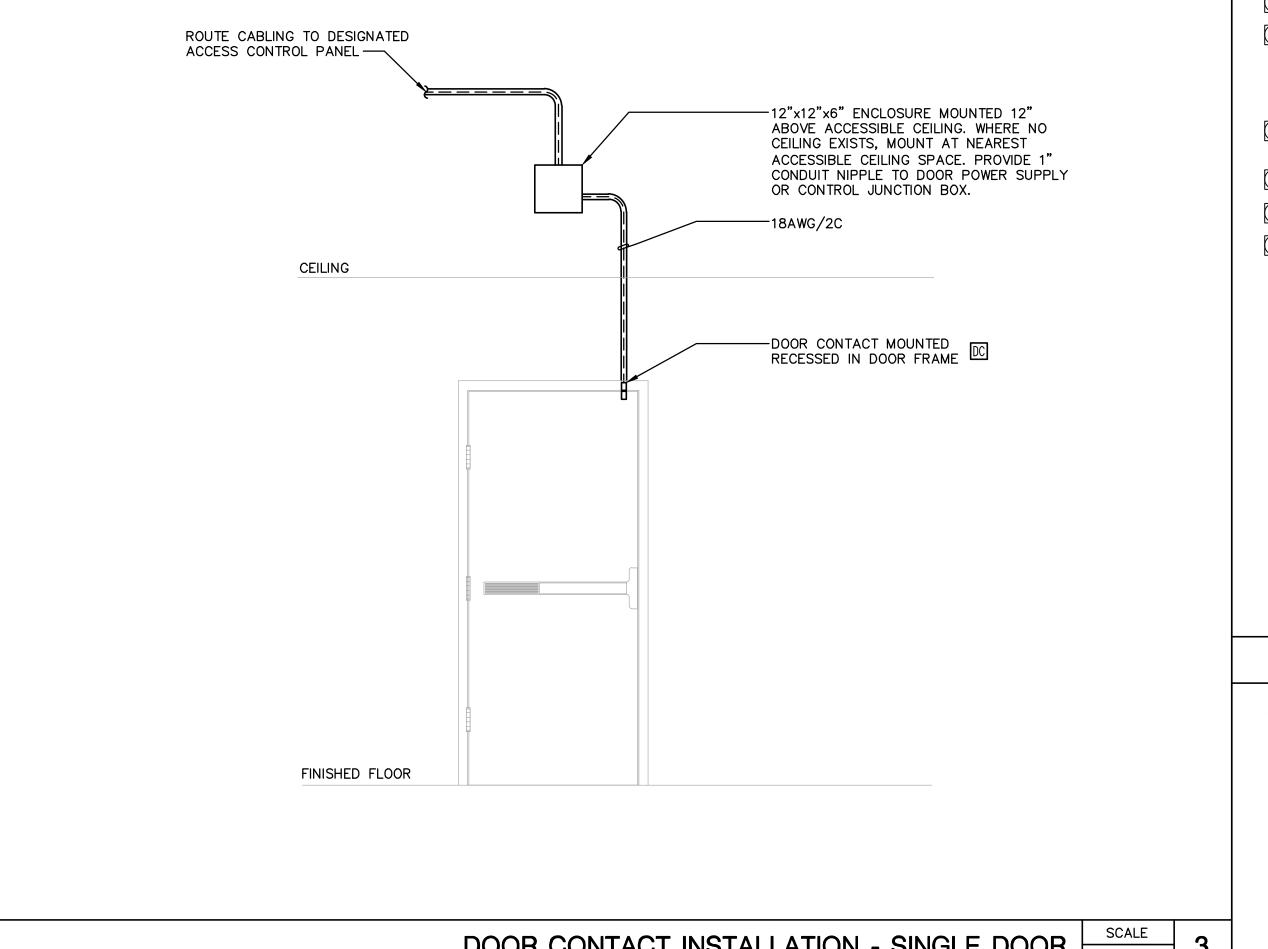


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ACCESS CONTROL DETAILS AND NOTES



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GENERAL NOTES

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- REFERENCE SHEET TOO1 FOR SYMBOL DEFINITIONS, ROUGH-IN REQUIREMENTS, ABBREVIATIONS AND DRAWING INDEX.
- 2. REFERENCE SHEET TOO2 FOR GENERAL NOTES.
- CONTRACTOR SHALL PROVIDE, PROGRAM AND INSTALL A FULLY FUNCTIONAL, COMPLETE AND OPERATIONAL INTRUSION DETECTION SYSTEM. PROVIDE ALL LABOR, ENGINEERING, DESIGN, TESTING, MATERIALS, COMPONENTS AND SUPERVISION
- THE INTENT AND PURPOSE OF THIS SYSTEM SHALL BE TO PROVIDE A SECURITY/INTRUSION DETECTION ENTRY ALARM SYSTEM IN THE BUILDING. ALL PERIMETER DOORS, ROOF HATCHES, OR OTHER EXTERNAL ENTRY POINTS SHALL BE EQUIPPED WITH DEDICATED, CONCEALED MAGNETIC CONTACT SWITCHES. ALL PERIMETER ENTRY/EXIT POINT LOCATIONS WITH KEYPADS SHALL HAVE A MOTION SENSOR LOCATED IN THE IMMEDIATE ENTRY/EXIT AREA. ALL PERIMETER WINDOWS SHALL BE PROTECTED BY GLASS BREAK SENSORS. INTERIOR PROTECTION SHALL BE PROVIDED BY COMBINATION OF PASSIVE INFRARED/MICROWAVE DETECTORS LOCATED IN AS INDICATED ON THE PLANS.

KEYNOTES

- (1) CEILING MOUNTED MOTION DETECTOR.
- 2 TELEPHONE SYSTEM BACKUP INTERFACE. PROVIDE (1) CATA 6 4-PAIR UTP AND TELEPHONE CONNECTION AT CONTROL PANEL. COORDINATE REQUIREMENTS WITH OWNER/ARCHITECT.
- 3 PRIMARY ETHERNET SYSTEM INTERFACE. PROVIDE (1) CAT 6A 4-PAIR UTP AND ETHERNET CONNECTION AT CONTROL PANEL. COORDINATE REQUIREMENTS WITH OWNER/ARCHITECT.
- 4 INTRUSION DETECTION KEYPAD.
- [5] INTRUSION DETECTION CONTROL PANEL AND POWER SUPPLY. PROVIDE LOCKABLE ENCLOSURE (KEYED TO MATCH CONTROL PANEL), 120 VOLT POWER SUPPLY AND TRANSFORMER, SECONDARY BATTERIES (OR CONNECTION TO SUPPLEMENTAL EMERGENCY POWER) AND CHARGER. PROVIDE ALL MODULES, TERMINAL BLOCKS AND ACCESSORIES FOR A COMPLETE AND OPERATIONAL SYSTEM.
- 6 DOOR CONTACT SHALL BE FLUSH-MOUNTED IN DOOR FRAME LOCATED WITHIN 6" OF DOOR EDGE ON LATCH SIDE.
- (7) WALL-MOUNTED MOTION DETECTOR.
- 8 CEILING-MOUNTED GLASS BREAK DETECTOR.
- 9 CEILING-MOUNTED ALARM SIREN.

BASIS OF DESIGN

1. THE INTENT AND PURPOSE OF THE INTRUSION DETECTION AND ALARM SYSTEM IS TO PROVIDE INTRUSION DETECTION TO THE AREAS INDICATED ON PLANS, BY INSTALLATION OF DEDICATED AND SPECIFIC DEVICES TO COVER SUCH AREAS. PERIMETER DOORS, ROOF HATCHES, OR OTHER POTENTIAL ENTRY POINTS SHALL BE EQUIPPED WITH DEDICATED, CONCEALED MAGNETIC CONTACT SWITCHES AND INTERIOR AREA PROTECTION SHALL BE PROVIDED VIA A COMBINATION OF PASSIVE INFRARED/MICROWAVE TYPE, WALL OR CEILING MOUNTED DETECTORS, AND/OR GLASS BREAK SENSORS AS LOCATED PER PLANS. THE ARMING AND DISARMING OR THE INTRUSION DETECTION AND ALARM SYSTEM SHALL BE ACHIEVED LOCALLY WITH A DEDICATED KEYPAD OR REMOTELY ACCESSED VIA WEB/ETHERNET CONNECTION FROM A REMOTE LOCATION.

THE INTENT OF THE PLAN DRAWINGS IS TO GUIDE THE CONTRACTOR IN THE BASIC INTENT OF THE SYSTEM DESIGN AND SHALL NOT BE CONSIDERED A FINAL A COMPLETE SET OF PLANS. THE CONTRACTOR SHALL INCLUDE AS PART OF HIS BID, AND SUBSEQUENT INSTALLATION, ALL REQUIRED MATERIALS AND LABOR, INCLUDING BUT NOT LIMITED TO ALL DEVICES, CABLING, CONNECTIONS, PATHWAYS, FIRESTOPPING, HARDWARE, SOFTWARE, UPS/BATTERY BACKUP, INTERFACES, WARRANTIES, ETC. FOR A COMPLETE AND OPERABLE SYSTEM.

- 3. THE FOLLOWING SHALL BE UTILIZED AS AN INTRUSION DETECTION AND ALARM SYSTEM EQUIPMENT BASIS OF DESIGN. THE LIST DOES NOT CONSTITUTE COMPLETE PARTS OR MATERIALS, BUT A GUIDE OF EQUIPMENT FROM AN ACCEPTABLE MANUFACTURER FOR COMPONENTS. CONTRACTOR SHALL AUGMENT AND PROVIDE ALL COMPONENTS NECESSARY FOR A COMPLETE AND OPERABLE SYSTEM. THE FOLLOWING LIST OF ITEMS ARE IDENTIFIED FROM BOSCH SECURITY SYSTEMS UNLESS OTHERWISE NOTED:
- a. ALARM PANEL D9412 GV4 b. DIGITAL KEYPAD — D1260
- c. PASSIVE INFRAFED/MICROWAVE DETECTORS
- DS970 (LONG RANGE, SURFACE MTD.) • DS950 (MEDIUM RANGE, SURFACE MTD.)
- DS9360 (360 DEGREE, SURFACE MTD.)
- HONEYWELL 995 (LONG/WIDE RANGE, FLUSH MTD.) HONEYWELL IS-280CM (360 DEGREE, FLUSH/SURFACE MTD.)
- HONEYWELL DT6360STC (360 DEGREE, HIGH CEILING OF 8 FEET TO 16 FEET)
- d. GLASS BREAK SENSOR HONEYWELL FG1625F e. SIREN/SPEAKER — SENTROL MPI36
- f. MAGNETIC DOOR CONTACTS
- SENTROL 1078CT (FLUSH)
- SENTROL 1042TW (SURFACE) SENTROL 2505 (SURFACE, EXPOSED WIRE)
- SENTROL 2707A (HEAVY DUTY)
- GE 2202 (OVERHEAD DOOR) g. OCTOPOPIT 8-ZONE EXPANDER - D8128D
- h. OCTORELAY D8129 i. POWER SUPPLY - ALTRONIX AL300ULX
- j. ALARM CABLE PLENUM RATED (UON), STRANDED, PVC, 18GA MIN, 2PR TWISTED
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INTRUSION DETECTION NOTES & DETAILS



DOOR CONTACT INSTALLATION - SINGLE DOOR

1 RACK-MOUNTED CCTV HEAD END EQUIPMENT SHALL BE LOCATED IN MPOE/MDF. PROVIDE NVR, SERVER, NETWORK SWITCHES (POE), PATCH PANELS AND CABLES (FIBER AND COPPER), WIRE MANAGEMENT, WORKSTATION, 120 VOLT POWER AND UPS, FOR A COMPLETE AND OPERATIONAL SYSTEM. CONFIRM WITH OWNER SYSTEM STORAGE AND CAMERA IMAGE SAMPLE RATE REQUIREMENTS. STORAGE CAPACITY TO BE TWO (2) TERABYTES MINIMUM.

KEYNOTES

- 2 CCTV WORKSTATION, COMPLETE WITH CONTROLLER, TOWER AND MONITOR FOR COMPLETE ACCESS TO ALL CCTV SYSTEM CONTROLS AND FUNCTIONS. PROVIDE MINIMUM 32" MONITOR. VERIFY REQUIREMENTS WITH OWNER/ARCHITECT.
- 3 CCTV REMOTE MONITOR LOCATION COMPLETE WITH WALL MOUNT KIT, 120 VOLT POWER, BACKBOX, 1" CONDUIT TO MPOE/MDF OR DESIGNATED IDF CLOSET. MONITOR SHALL DISPLAY CCTV VIDEO AND IMAGES OF OWNER'S CHOICE, WITH SCROLLING IMAGES ON SCREEN.
- 1. CONTRACTOR SHALL PROVIDE, PROGRAM AND INSTALL A FULLY FUNCTIONAL, COMPLETE AND OPERATIONAL CLOSED CIRCUIT TELEVISION (CCTV) SYSTEM. PROVIDE ALL LABOR, ENGINEERING, DESIGN, TESTING, MATERIALS, COMPONENTS AND SUPERVISION NECESSARY AS PART OF THIS WORK.
- 2. THE CCTV SYSTEM, AT A MINIMUM, SHALL INCLUDE CAMERAS INCLUDING ALL MOUNTS, HARDWARE, CABLING, CONDUITS AND OUTLET BOXES, RACK-MOUNTED HEAD END EQUIPMENT INCLUDING SERVER, RECORDING ARRAY, NETWORK SWITCHES (POE), PATCH PANELS, COPPER CABLING, FIBER CABLING, WORKSTATION, WIRE MANAGEMENT, 120V POWER SUPPLY AND UPS, COMPLETE WITH VIDEO MANAGEMENT SOFTWARE (VMS) AND
- 3. THE CCTV SYSTEM SHALL:

WORKSTATION.

- A. BE WEB-BASED INTERFACE TO ACCESS VIDEO MANAGEMENT SOFTWARE FROM ANY STANDARD WEB BROWSER ENABLED DEVICE. WEB-BASED ACCESS SHALL PROVIDE LIVE VIEWING AND PLAYBACK FOR ANY CAMERA CONNECTED TO SYSTEM.
- B. BE ABLE TO SUPPORT HD VIDEO AND MEGAPIXEL CAMERAS. C. BE SCALABLE AND ABLE TO SUPPORT THIRD-PARTY NETWORK CAMERAS
- BE CAPABLE OF LOCALLY OR REMOTE PROGRAMMING.
- E. BE PROVIDED WITH SECONDARY POWER BACK-UP - VIA UPS. UPS TO BE SIZED FOR MINIMUM (24) HOUR SUPERVISION. PROVIDE VERIFYING CALCULATIONS FOR UPS.
- VIA EMERGENCY GENERATOR F. ALLOW REAL-TIME STATUS MONITORING AND VIEWING OF DEVICES AND UNIT AND AREA
- 4. PROVIDE CAT 6 4-PAIR UTP CABLING FROM CAMERA TO MPOE / MDF ROOM.
- 5. CONTRACTOR SHALL INCLUDE ALL ADJUSTMENTS TO VIDEO SYSTEM DEVICES FOR CORRECT OPERATION IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS AND OWNER'S APPROVAL TO COMPLY WITH SPECIFIC OWNER'S NEEDS. CONTRACTOR SHALL PROVIDE AN ON-SITE REPRESENTATIVE TO ASSIST IN ADJUSTING TO SUIT ACTUAL OCCUPIED CONDITIONS AND TO OPTIMIZE PERFORMANCE OF THE INSTALLED EQUIPMENT. TASKS SHALL INCLUDE, BUT NOT BE LIMITED TO:
 - SYSTEM CABLE CONNECTIONS. - PROPER OPERATION OF CAMERA AND LENSES INCLUDING OPERATION OF
 - AUTO-IRIS LENSES AND BACK-FOCUS ADJUSTMENTS AS NECESSARY. - ADJUSTMENTS OF PRE-SET POSITIONS TO MEET OWNER'S REQUIREMENTS.
 - ADJUSTMENTS OF CAMERA VIEWS AS REQUIRED TO MEET OWNER'S REQUIREMENTS.

- THE INTENT AND PURPOSE OF THE CLOSED CIRCUIT TELEVISION (CCTV) SYSTEM IS TO PROVIDE THE ABILITY TO CAPTURE, TRANSMIT, AND STORE VIDEO OVER AN IP NETWORK, ENABLING AUTHORIZED USERS TO VIEW, AND MANAGE VIDEO IMAGES FOR FORENSICS AND OTHER SECURITY RELATED
- THE SYSTEM SHALL ENABLE THE OWNER TO OBSERVE SUCH AREAS, WITH OR WITHOUT PERSONNEL PRESENT, AND HAVE RECORDING OF IMAGES FOR USE IF NEEDED. THE SYSTEM SHALL PROVIDE THE CAPABILITY OF REMOTE ACCESS MANAGEMENT WITH AN ON-SITE GRAPHIC WORKSTATION. THE CCTV SYSTEM SHALL BE PROVIDED WITH REQUIRED SERVER COMPUTER, NETWORK VIDEO
- DETECTION AND ACCESS CONTROL SYSTEMS. PROVIDE DEVICES, CABLING AND EQUIPMENT INCLUDING BUT NOT LIMITED TO, FIXED DOME SINGLE-LENSE IP CAMERAS, 180-DEGREE IP CAMERAS AND 360-DEGREE IP CAMERAS. PROVIDE ALL MOUNTING HARDWARE, CABLING, PATCH PANELS, NETWORK POE SWITCHES, NETWORK VIDEO RECORDER (NVR) AND VIDEO MANAGEMENT SOFTWARE
- SYSTEMS WILL BE PROGRAMMED AND SAVED AS "ALARM MODE". THE OWNER WILL BE ABLE TO DESIGNATE ONE OR MORE CAMERAS TO BE ASSOCIATED WITH CONTROLLED DOORS, GATES AND AREAS. ASSOCIATED CAMERAS WILL BE PROGRAMMED TO BE AUTOMATICALLY PRE-POSITIONED AND "CALLED" INTO ALARM MODE BY THE ACCESS CONTROL AND INTRUSION DETECTION SYSTEMS EVENT COMMANDS TO BE DISPLAYED IN FULL-SCREEN VIEW ON A WORKSTATION DISPLAY AND RECORDED IN "ALARM/EVENT MODE."
- AND RECORDING OF TWO OR MORE ALARM POINT CAMERAS SIMULTANEOUSLY. WHEN TWO OR MORE CAMERAS ARE SIMULTANEOUSLY DESIGNATED FOR EVENT RECORDING, THEY WILL EACH BE RECORDED IN "ALARM/EVENT" MODE.
- THE CONTRACTOR WILL INCLUDE AS PART OF HIS BID, ANY SUBSEQUENT INSTALLATION, ALL REQUIRED MATERIALS AND LABOR, INCLUDING BUT NOT LIMITED TO ALL DEVICES, CABLING, CONNECTIONS, PATHWAYS, FIRESTOPPING, HARDWARE, SOFTWARE, UPS/BATTERY BACKUP, WARRANTIES FOR A COMPLETE AND OPERATIONAL SYSTEM.
- DOES NOT CONSTITUTE COMPLETE PARTS AND MATERIALS. IT IS PROVIDED AS A GUIDE FOR CONTRACTORS TO DETERMINE THE PRE-APPROVED SYSTEM MANUFACTURER OF PRODUCT AND OTHER COMPONENTS. CONTRACTOR SHALL AUGMENT AND PROVIDE ALL COMPONENTS NECESSARY FOR A COMPLETE AND OPERATIONAL SYSTEM. PRE-APPROVED MANUFACTURERS IS AXIS.
- RECORDING SERVER AND VIDEO MANAGEMENT SOLUTION AXIS CAMERA STATION S1264 RACK 24 TB

MICROSOFT WINDOWS 10 IOT ENTERPRISE SAC

CAMERAS
ALL CAMERAS SHALL BE IP-READY MANUFACTURED BY AXIS

POE NETWORK SWITCH
12-PORT CISCO CATALYST 3560CX (WS-C3560CX-12PD-S)
24-PORT CISCO CATALYST 3650 (WS-C3650-24PD-S) 8-PORT CISCO CATALYST 3650 (WS-C3560CX-12PD-S)

MOUNTING BRACKETS
PENDANT, POLE, CORNER, CEILING

CONDUIT. PROVIDE PLENUM RATED CABLE AT INTERIOR NON-CONDUIT INSTALLATION. EXPOSED CABLE BETWEEN BOX AND CAMERA SHALL BE IN SEALTITE FIRMLY AFFIXED TO J-BOX COVERPLATE OR CAMERA ENCLOSURE.

BASIS OF DESIGN

- RECORDER AND WORK STATION DISPLAY. THE CCTV SYSTEM WILL BE IP AND POE BASED. IT WILL INTEGRATED WITH THE INTRUSION
- INTEGRATION OF THE CCTV SYSTEM WITH THE ACCESS CONTROL AND INTRUSION DETECTION
- THE CCTV SYSTEM WILL ALLOW AN INDIVIDUAL ALARM INPUT, INITIATE PRE-POSITIONING, VIEWING
- THE INTENT OF THESE DRAWINGS IS TO GUIDE THE CONTRACTOR IN DESIGNING A COMPLETE AND FULLY OPERATIONAL SYSTEM. THE DRAWINGS SHOULD NOT BE CONSIDERED FINAL OR COMPLETE. INTERFACE AND INTEGRATION WITH ACCESS CONTROL AND INTRUSION DETECTION SYSTEMS AND
- THE FOLLOWING EQUIPMENT WILL BE USED AS BASIS OF DESIGN FOR THE CCTV SYSTEM. THE LIST

WORK STATION: AXIS S9002 MK II PROCESSOR: INTEL CORE i5

MEMORY: 8 GB MONITOR 32" 4K CAPABLE MONITOR

CAT 6 4-PAIR UTP COPPER. CONFIRM CABLE COLOR WITH OWNER. INSTALL ALL CABLING IN

0

REVISIONS

OCUMENT

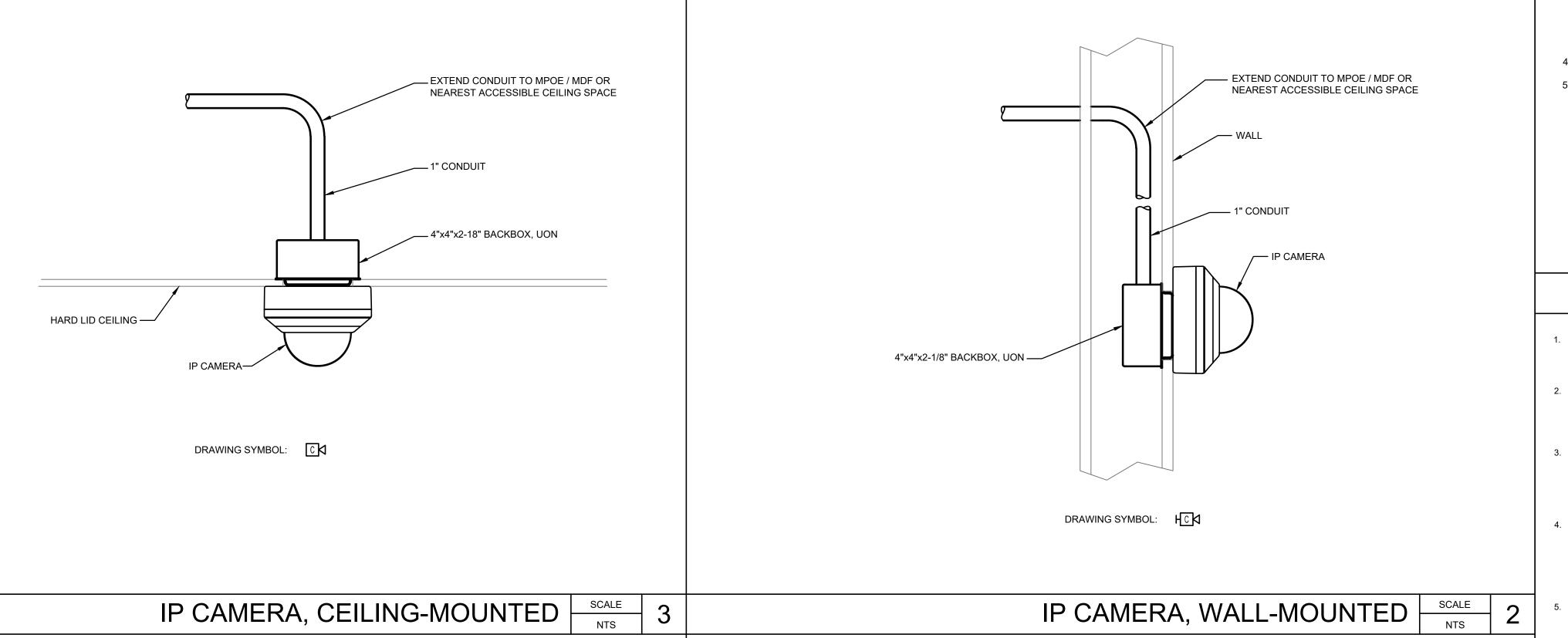
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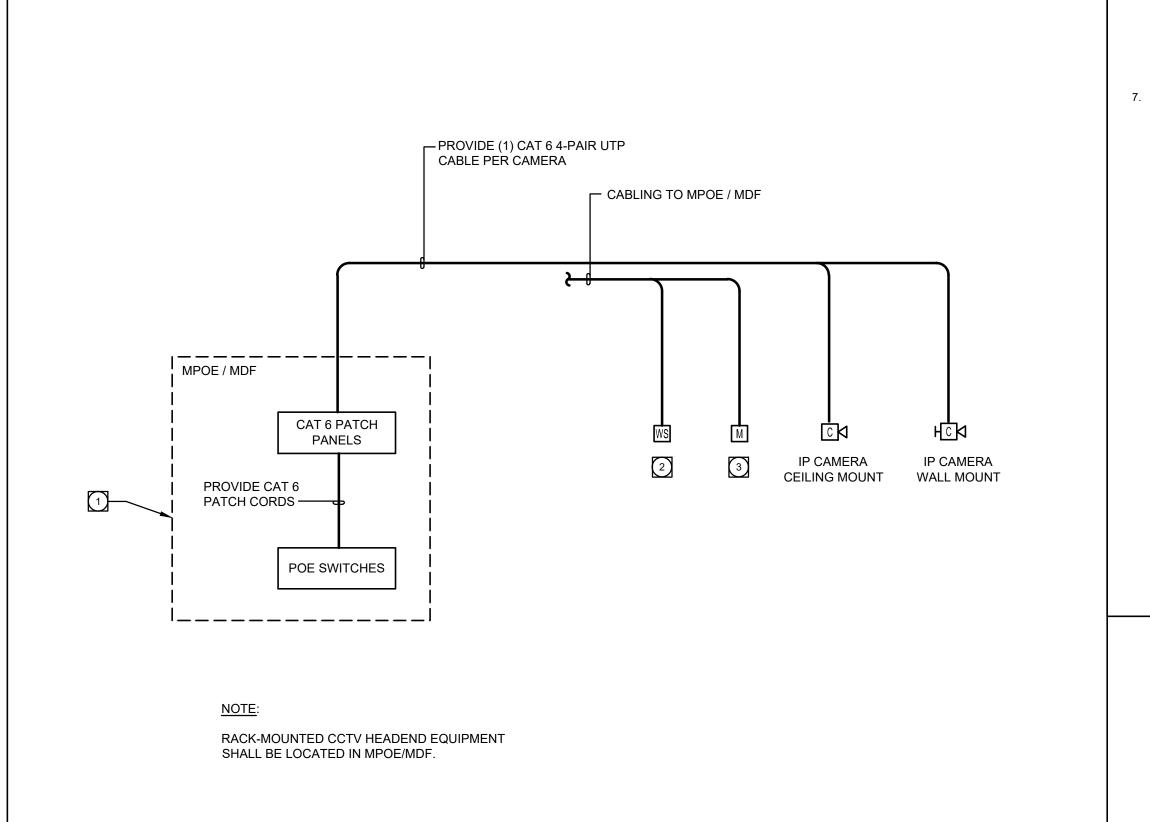


CHECKED BS DATE 07/15/2025

CCTV SYSTEM NOTES AND DETAILS



6/3/2024 3:09:19 PM Autodesk Docs://161-23025 LADPW LAC Huntington Library Renovation/161-23025_Huntington-Park_Library.rvt



TYPICAL CCTV WIRING DIAGRAM NTS 1

NAC NO 161-23025
DRAWN AC
CHECKED BS
DATE 07/15/2025

LOW VOLTAGE CABLE SCHEDULES

MATV SYSTEM

THE INTENT OF THE SYSTEM IS TO PROVIDE DIGITAL HDTV SIGNALS TO THE BUILDING VIA A TV ANTENNA RECEIVING OFF AIR TV TRANSMISSION SIGNALS. THE SYSTEM SHALL CONSIST OF AN HDTV ANTENNA WITH MOUNT, OUTDOOR COAXIAL CABLE, INDOOR COAXIAL CABLE, A DISTRIBUTION AMPLIFIER, TAPS AND REQUIRED NUMBER OF DROPS AS INDICATED ON THE PLANS. THE COMMUNICATIONS CONTRACTOR/VENDOR SHALL USE PADS AS NECESSARY TO PREVENT OVERLOAD OF THE SIGNAL.

THE MATV SYSTEM (INCLUDING LEAD IN CABLE AND ANTENNA MAST) SHALL BE GROUNDED IN ACCORDANCE TO THE NATIONAL ELECTRIC CODE. THE INSTALLATION SHALL COMPLY WITH ALL NATIONAL ELECTRIC CODES, BUILDING, AND FIRE CODES. COMMUNICATIONS CONTRACTOR SHALL ALSO INSTALL SURGE SUPPRESSION EQUIPMENT FOR THE MATV SYSTEM.

THE TV ANTENNA SHALL BE MOUNTED ON A HEAVY—DUTY TV ANTENNA MAST AND SECURELY MOUNTED TO THE BUILDING. AN INCH AND A QUARTER (1.25") CONDUIT WITH WEATHER HEAD SHALL BE INSTALLED NEXT TO THE TV ANTENNA. THE CONDUIT SHALL RUN FROM THE TV ANTENNA LOCATION TO THE MCR (MAIN COMMUNICATIONS ROOM).

THE COMMUNICATIONS CONTRACTOR SHALL FURNISH AND INSTALL THE EXTERNAL COAXIAL

CABLING FROM THE TV ANTENNA TO THE MCR IN THE CONDUIT AND CONNECT TO THE DISTRIBUTION AMPLIFIER IN THE MCR. THE COMMUNICATIONS CONTRACTOR SHALL FURNISH AND INSTALL INTERNAL COAXIAL CABLING FROM THE DISTRIBUTION AMPLIFIER AND TAPS TO THE TV OUTLETS. EACH TV OUTLET SHALL HAVE AN INDIVIDUAL COAXIAL CABLE HOME RUN TO THE TAP. THE CONTRACTOR SHALL FURNISH, INSTALL, AND CONNECT RG6 COAX CABLING FROM THE OUTPUT OF THE DISTRIBUTION AMPLIFIER TO THE INPUT OF THE TAP. THE MATV SYSTEM SHALL HAVE A MINIMUM OF EIGHT (8) OUTPUT PORTS TO DISTRIBUTE THE MATV SIGNALS TO THE TVS.

THE COMMUNICATIONS CONTRACTOR SHALL BALANCE, AMPLIFY OR PAD THE TV SIGNALS AND ENSURE THAT EACH TV HAS A MINIMUM OF -40DBM AT THE TV INPUT FOR ALL CHANNELS. THE COMMUNICATIONS CONTRACTOR SHALL ENSURE THAT ALL TVS SHALL DISPLAY A CLEAR PICTURE FOR ALL CHANNELS. THE COMMUNICATIONS CONTRACTOR SHALL FURNISH AND INSTALL ALL OTHER MATERIALS NOT LISTED TO DELIVER A FULLY FUNCTIONAL MATV SYSTEM. THE COMMUNICATIONS CONTRACTOR SHALL APPLY SECTION 3.5.1 ITEMS A THRU D. WITH REGARDS TO THE LOW VOLTAGE CABLING FOR THE MATV SYSTEM.

MATERIALS AND EQUIPMENT

A. DISTRIBUTION AMPLIFIER — PICO MACOM, INC. TA—36 (IF NECESSARY).

B. TV ANTENNA — WINEGARD

- C. OUTDOOR COAXIAL CABLE WESTPENN —AQC841 W/MOISTURE BLOCKING D. INDOOR COAXIAL CABLE WESTPENN 25841
- E. F CONNECTORS WESTPENN CN—F6MCV.F. TV WALL PLATE PANDUIT CFPL3BYG. F CONNECTOR MODULE PANDUIT CMFSRIWY.
- H. CAT 6 MODULE (CJ688TGOR)
- I. BLANK MODULE PANDUIT CMBWH-Y.
 J. TAP BLONDER TONGUE DGT-8,11DB.

COMPLETE AND FULLY FUNCTIONAL SYSTEM.

K. SURGE PROTECTOR — TII TECHNOLOGIES 212FF75F225—31
L. MISCELLANEOUS MATERIALS — ALL MATERIALS NECESSARY TO FURNISH AND INSTALL A

NOTE:

CABLE ROUTE IS SHOWN DIAGRAMMATICALLY. CONTRACTOR

TO FIELD-VERIFY EXACT ROUTE AND LOCATION.

EXTEND 1-1/4"C FROM TV ANTENNA LOCATION

CABLE IN CONDUIT.

TO MCR. INSTALL OUTDOOR RG-6 COAXIAL

<u>ROOF</u>

LEVEL 3

LEVEL 2

TV OUTLET, PROVIDE
SINGLE—GANG PLATE WITH
F—CONNECTOR MODULE——

DEVICES AT TV LOCATION

LEVEL 1

BASEMENT

PROVIDE SURGE SUPPRESION FOR MATV EQUIPMENT. MOUNT ALL EQUIPMENT ON PLYWOOD BACKBOARD.

INDOOR RG-6 COAXIAL CABLE-

STAFF LOUNGE

MATV ONE-LINE DIAGRAM SCALE NTS

TELECOMMUNICATIONS, CCTV & DOOR VIDEO INTERCOM

TELECOMMUNICATIONS, CCTV & DOOR VIDEO INTERCOM				
GENSPEED 6000 ENHANCED CAT 6 CABLE 23 AWG, SOLID BARE ANNEALED COPPER, 4-PAIR, UTP, PLENUM-RATED NOMINAL O.D. = 0.215"				
CONDUIT SIZE MAXIMUM NUMBER OF CABLES				
3/4"	4			
1"	8			
1-1/4"	12			
2"	33			
3"				
4"				
ACCESS CONTROL & INTRUSION DETECTION				

TV ANTENNA WITH HEAVY-DUTY ANTENNA MAST AND WEATHERHEAD. CONTRACTOR TO FIELD

VERIFY EXACT ANTENNA LOCATION BASED UPON

QUALITY OF SIGNAL RECEPTION. COORDINATE

LOCATION WITH OWNER/ARCHITECT.

SECURE TO BUILDING

PROVIDE GROUDING
AND BONDING PER NEC

ACCESS CONTROL & INTRUSION DETECTION				
DEVICE	CABLE	NOMINAL O.D.	CONDUIT SIZE	MAXIMUM # OF CABLES
MOTION DETECTOR			3/4"	4
GLASS BREAK DETECTOR	19AWC/AC SHIELDED CMD	0.2"	1"	10
KEYPAD	- 18AWG/4C SHIELDED, CMP		1-1/4"	15
DOOR CONTACTS]		2"	40
	COMPOSITE CABLE WITH (4) SUBUNIT CABLES AS FOLLOWS:		3/4"	2
	(1) 18AWG/4C SHIELDED, CMP - LOCK POWER			2
CARD READER	(1) 18AWG/2C & 22AWG/4C SHIELDED, CMP - CARD READER 0.4"		1"	3
	(1) 22AWG/2C SHIELDED, CMP - DOOR CONTACT		1-1/4"	4
	(1) 22AWG/4C SHIELDED, CMP - REQUEST-TO-EXIT		1-1/4	4
ELECTRIFIED HINGE	18AWG/4C SHIELDED, CMP	0.25"	3/4"	3
ALARM SIREN	18AWG/2C SHIELDED, CMP	0.15"	3/4"	10
	RESTROOM DOO	OR RELEASE		

RESTROOM DOOR RELEASE									
DEVICE	CABLE	NOMINAL O.D.	CONDUIT SIZE	MAXIMUM # OF CABLE					
DOOR RELEASE SWITCH	18AWG/2C SHIELDED, CMP	0.2"	3/4"	4					
DOOR RELEASE BUTTON	TOAWG/2C SHILLDED, CIVIF	0.2	3/4	4					
OVERHEAD PAGING									

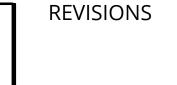
OVERHEAD I AGING								
DEVICE	CABLE	NOMINAL O.D.	CONDUIT SIZE	MAXIMUM # OF CABLES				
SPEAKER	16AWG/2C SHIELDED, CMP	0.2"	3/4"	4				
			1"	10				

NOTES:AWG = AMERICAN WIRE GAUGE

CMP = COMMUNICATIONS MULTI-PURPOSE, PLENUM

O.D. = OUTSIDE DIAMETER

LOW VOLTAGE CABLE SCHEDULES SCALE NTS

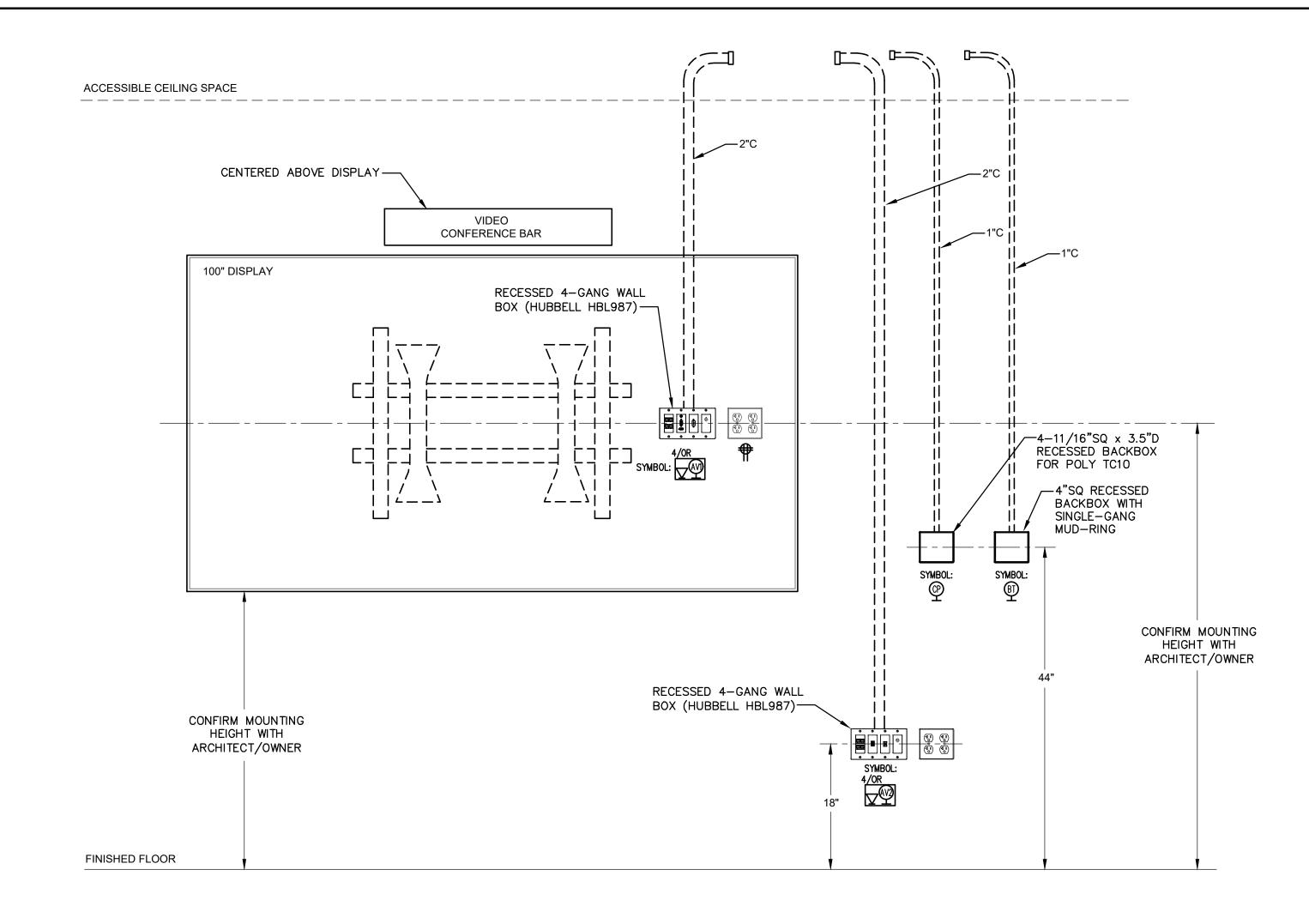


DOCUMEN CONSTRUCTION

CHECKED BS DATE 07/15/2025

AUDIO VISUAL SYSTEM NOTES & DETAILS

AV EQUIPMENT MATRIX



- 1. THIS DETAIL APPLIES TO COMMUNITY MEETING ROOM 113 ONLY.
- 2. CONTRACTOR SHALL PROVIDE ALL AV AND DATA ROUGH-IN, DEVICES, CABLING, FACEPLATES, CONNECTORS AND EQUIPMENT SHOWN IN THIS DETAIL.
- 4. POWER RECEPTACLES SHOWN FOR REFERENCE ONLY. SEE ELECTRICAL DRAWINGS FOR REQUIREMENTS.
- PRIOR TO INSTALLATION.

- 3. REFERENCE "AV EQUIPMENT MATRIX" DETAIL 3 ON THIS SHEET FOR ADDITIONAL
- 5. CONFIRM ALL DEVICE AND EQUIPMENT MOUNTING HEIGTHS WITH ARCHITECT/OWNER

SCALE NONE AV SYSTEM ROUGH-IN DETAIL

-4-11/16"SQ x 3.5"D RECESSED BACKBOX FOR POLY TC10

WITH SINGLE-GANG

FINISHED FLOOR

-DEVICES INSTALLED IN

RECESSED FLOOR BOX

ON-GRADE MULTI-SERVICE

MUD-RING

-RECESSED 3-GANG WALL

SYMBOL: AV2

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2. CONTRACTOR SHALL PROVIDE ALL AV AND DATA ROUGH-IN, DEVICES, CABLING, FACEPLATES, CONNECTORS

3. REFERENCE "AV EQUIPMENT MATRIX" DETAIL 3 ON THIS SHEET FOR ADDITIONAL REQUIREMENTS.

4. POWER RECEPTACLES SHOWN FOR REFERENCE ONLY. SEE ELECTRICAL DRAWINGS FOR REQUIREMENTS.

BOX (HUBBELL HBL986)

-4"SQ RECESSED BACKBOX

ACCESSIBLE CEILING SPACE ______| RECESSED 4-GANG WALL BOX (HUBBELL HBL987)— VIDEO CONFERENCE BAR DISPLAY ___1"C FOR DATA /--4-11/16"SQ x 3.5"D RECESSED BACKBOX FOR POLY TC10 WITH SINGLE-GANG MUD-RING VIDEO CONFERENCE BAR SYMBOL: SYMBOL: L_______ OPTIONAL LOCATION -___1-1/4"C -RECESSED 3-GANG WALL BOX (HUBBELL HBL986) SECOND FLOOR FINISHED FLOOR _____ DEVICES INSTALLED IN FIRST FLOOR MULTI-SERVICE RECESSED -ACCESSIBLE CEILING POKE-THRU (STUDY 1 205 SYMBOL: 4/OR DOHAV2 SPACE NOTES: & STUDY 2 204 ONLY) 1. THIS DETAIL APPLIES TO THE FOLLOWING ROOMS: STUDY T2 204 (POKE-THRU AND WALL-MOUNTED AV INPUT DEVICES) • STUDY T1 205 (POKE-THRU AND WALL-MOUNTED AV INPUT DEVICES)

AIRC GROUP STUDY 203 (WALL-MOUNTED AV INPUT DEVICE ONLY)

AND EQUIPMENT SHOWN IN THIS DETAIL.

2. CONTRACTOR SHALL PROVIDE ALL AV AND DATA ROUGH-IN, DEVICES, CABLING, FACEPLATES, CONNECTORS

3. REFERENCE "AV EQUIPMENT MATRIX" DETAIL 3 ON THIS SHEET FOR ADDITIONAL REQUIREMENTS.

4. POWER RECEPTACLES SHOWN FOR REFERENCE ONLY. SEE ELECTRICAL DRAWINGS FOR REQUIREMENTS.

RECESSED 4-GANG WALL

BOX (HUBBELL HBL987)—

VIDEO CONFERENCE BAR

VIDEO CONFERENCE BAR L__________

1. THIS DETAIL APPLIES TO THE FOLLOWING ROOMS:

AND EQUIPMENT SHOWN IN THIS DETAIL.

STUDY T1 104

• STUDY T2 105 MAKER SPACE 103

AV EQUIPMENT MATRIX									
ROOM	DISPLAYS			WALL MOUNT DRACKET	VIDEO CONFEDENCE DAD	CONTROL DANIEL			
	DISPLAY SIZE	QUANTITY	MANUFACTURER AND MODEL	- WALL MOUNT BRACKET	VIDEO CONFERENCE BAR	CONTROL PANEL			
COMMUNITY MEETING ROOM 113	100"	1	SAMSUNG QN100QN80FFXZA QLED 4K TV	KANTO PMX700 (FULL MOTION)	POLY STUDIO X72	POLY TC10			
MAKER SPACE 103	85"	1	SAMSUNG 85Q60D QLED 4K TV	PEERLESS-AV SMARTMOUNT STS650	POLY STUDIO X72	POLY TC10			
STUDY T1 104	55"	1	SAMSUNG 55Q60D QLED 4K TV	CHIEF THINSTALL TS525TU SWING ARM MOUNT FOR 42"-75" DISPLAYS	POLY STUDIO X52	POLY TC10			
STUDY T2 105	55"	1	SAMSUNG 55Q60D QLED 4K TV	CHIEF THINSTALL TS525TU SWING ARM MOUNT FOR 42"-75" DISPLAYS	POLY STUDIO X52	POLY TC10			
STUDY 1 205	55"	1	SAMSUNG 55Q60D QLED 4K TV	CHIEF THINSTALL TS525TU SWING ARM MOUNT FOR 42"-75" DISPLAYS	POLY STUDIO X52	POLY TC10			
STUDY 2 204	55"	1	SAMSUNG 55Q60D QLED 4K TV	CHIEF THINSTALL TS525TU SWING ARM MOUNT FOR 42"-75" DISPLAYS	POLY STUDIO X52	POLY TC10			
AIRC GROUP STUDY 203	55"	1	SAMSUNG 55Q60D QLED 4K TV	CHIEF THINSTALL TS525TU SWING ARM MOUNT FOR 42"-75" DISPLAYS	POLY STUDIO X52	POLY TC10			
STAFF LOUNGE 121	55"	1	SAMSUNG 55Q60D QLED 4K TV	CHIEF THINSTALL TS525TU SWING ARM MOUNT FOR 42"-75" DISPLAYS	NONE	NONE			
MAIN ENTRANCE DIGITAL DISPLAY	55"	1	SAMSUNG 55Q60D QLED 4K TV	CHIEF THINSTALL TS525TU SWING ARM MOUNT FOR 42"-75" DISPLAYS	NONE	NONE			

AV SYSTEM ROUGH-IN DETAIL - COMMUNITY MEETING ROOM 113

NOTES:

- 1. CONTRACTOR SHALL PROVIDE AND INSTALL ALL EQUIPMENT SHOWN IN THIS SCHEDULE. PROVIDE REQUIRED BACKING, MOUNTING BRACKETS AND MISCELLANEOUS APPURTENANCES FOR A COMPLETE AND FULLY OPERATIONAL AV SYSTEM.
- 2. CONTRACTOR SHALL VERIFY MANUFACTURER AND MODEL NUMBER OF PRODUCTS WITH OWNER PRIOR TO ORDERING.

AV SYSTEM ROUGH-IN DETAIL

ACCESSIBLE CEILING SPACE

DISPLAY

OPTIONAL LOCATION -

FIRST FLOOR

