

SCALES ACCORDINGLY

CITY OF LAKEPORT PLANS FOR COMMUNITY CENTER ELECTRICAL & HVAC PROJECT MARGARET SILVERA COMMUNITY CENTER 500 N. MAIN STREET, LAKEPORT, CA. BID NO. 22-05

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M4.1	TITLE 24 COMPLIANCE DOCUMENTS

BUILDING INFORMATION:

BUILDING OCCUPANCY GROUP: A-3 TYPE OF CONSTRUCTION: IIIB NUMBER OF STORIES: 1 TOTAL BUILDING AREA: 6067 NOT SPRINKLERED

APPLICABLE CODES AND REGULATIONS:

CALIFORNIA ADMINISTRATION CODE, 2019 EDITION (CAC) CALIFORNIA BUILDING CODE, 2019 EDITION (CBC) CALIFORNIA PLUMBING CODE, 2019 EDITION (CPC) CALIFORNIA MECHANICAL CODE, 2019 EDITION (CMC) CALIFORNIA FIRE CODE, 2019 EDITION (CFC) CALIFORNIA ELECTRICAL CODE, 2019 EDITION (CEC)

BID WALK NOTES

CONTRACTOR SHALL TAKE NOTE OF UNUSUAL SITUATIONS, INCLUDING BUT NOT LIMITED TO, REPAIR OF EXISTING DUCTWORK, SUPPORTS, AND COLLAPSED FLEXIBLE DUCTWORK. REVIEW ALL PLANS FOR FURTHER DETAIL.

TEST AND INSPECTIONS

CONTRACTOR SHALL DEMONSTRATE FUNCTION OF SMOKE DETECTOR SHUTDOWN IN PRESENCE OF FIRE MARSHALL.

GENERAL NOTES

REFERENCES, DISCREPANCIES AND OMISSIONS: THESE NOTE SHALL APPLY TO ALL DRAWINGS UNLESS OTHERWISE SHOWN OR NOTED. FEATURES OF CONSTRUCTION INDICATED ON THESE DRAWING ARE TYPICAL, AND SHALL APPLY GENERALLY THROUGHOUT SIMILAR CONDITIONS. IN THE EVENT OF OMISSIONS, CONSTRUCTION SHALL BE SIMILAR TO CONSTRUCTION INDICATED IN THESE DRAWINGS, BUT MUST FIRSTLY BE APPROVED BY THE ENGINEER IN WRITING. ALL FINISHES SHALL MATCH APPEARANCE OF ADJOINING SURFACES.

REVISIONS DESCRIPTION			CE E E R I N G	SIGNED 5/23/22 PROFESSION 5/23/22	
	DES <u>bw</u> DRN_AM	CKD_AM DATE02/22/22	JOB NO. 0523.36	SHATE OF CALIFORNIA	



PROJECT APPROVED BY:

K: M. ES	6/17/2022
KEVIN INGRAM, CITY MANAGER	DATE
Paul D. Harrin II	6/17/2022
PAUL HARRIS, UTILITIES SUPERINTENDER	NT DATE
CERTIFICATION: I CERTIFY THAT THIS PROJECT WAS DE ME OR UNDER MY DIRECTION IN ACC WITH GENERALLY ACCEPTED ENGINE PRACTICES.	CORDANCE
Cloantith	05/23/2022
ADAM MILLER, PE - STAFF ENGINEER - <u>PACE ENGINEERING</u> 5155 VENTURE PARKWAY REDDING, CA 96002 (530) 244-0202	ME DATE
TONY BOWSER, PE - SENIOR ENGINEER <u>PACE ENGINEERING</u> 5155 VENTURE PARKWAY REDDING, CA 96002 (530) 244-0202	R - EE DATE
CONTACT INFORMATION:	
<u>CITY OF LAKEPORT - CORPORATE YA</u> RON LADD, PUBLIC WORKS SUPERVIS 591 MARTIN STREET LAKEPORT, CA 95453 (707) 263-3578 EXT. 501	

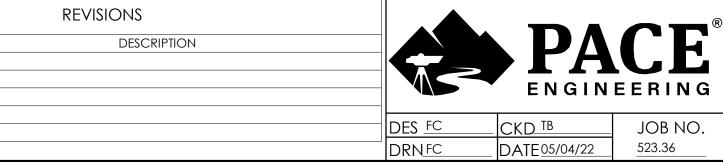
<u>CITY OF LAKEPORT</u> PAUL HARRIS, UTILITIES SUPERINTENDENT 225 PARK STREET LAKEPORT, CA 95453 (707) 263-5615 EXT. 402

<u>CITY OF LAKEPORT</u> OLIVIA GRUPP, PROJECT MANAGER 591 MARTIN STREET LAKEPORT, CA 95453 (707) 263-3578 EXT. 406

CITY OF LAKEPORT COMMUNITY CENTER ELECTRICAL & HVAC PROJECT 500 N. MAIN ST. LAKEPORT, CA 95453 TITLE SHEET tevit Local Files\0523.36_M_Lakeport Community Center_C20_amillerPE3JK.

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ORIGINAL DRAWING		NO	DATE	
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THIS SHEET, ADJUST SCALES ACCORDINGLY				

ELE	CTRICAL S	(MBOLS		ELECTRIC	CAL ABBREVIATIONS	
DLS		CONDUIT EXPOSED		A	- AMMETER, AMPERE	
SYMBOLS		CONDUIT CONCEALED or BURIED		AC ACH	- ALTERNATING CURRENT - ABOVE COUNTER HEIGHT	
		INDICATES FIRE RATED WALL		AFCI	- ARC FAULT CIRCUIT INTERRUPT	
AND	——————————————————————————————————————	CONDUIT UP		AFF AIC	- ABOVE FINISHED FLOOR OR GRADE - AMPS INTERRUPTING CAPACITY	
TYPES				AL ATS	- ALUMINUM - AUTOMATIC TRANSFER SWITCH	
				BCT	- BONDING CONDUCTOR FOR TELEC	
	──► LA-2			BGES BRKR	- BUILDING GROUND ELECTRODE SYS - BREAKER	DIEM
MARKS		TICK MARKS W/BARS INDICATES NUMBER OF #10 CONDUCTORS WITH #10 GROUND		BOD C or COND	- BOTTOM OF DEVICE - CONDUIT	
⊻		TICK MARKS WITHOUT BARS INDICATES NUMBER OF #12 CONDUCTORS WITH #12 GROUND		САВ	- CABINET	4LEAF , INC.
ПСК		"L" INDICATES 0-10V DIMMING CABLE, "5E" INDICATES CAT5E CABLE		CEB CEC	- CRITICAL EMERGENCY BRANCH - CALIFORNIA ELECTRIC CODE	Building
SNO	Q	JUNCTION BOX		CKT COD	- CIRCUIT - CENTER OF DEVICE	05/31/2022
TERMINATIONS	\bigcirc	PORCELAIN LAMP HOLDER WITH PULL CHAIN AND INTEGRAL RECEPTACLE (HVAC LIGHT/PLUG ONLY)		CR CT	- CONTROLLED RECEPTACLE	Reviewed For
RMIN		CONNECTION POINT (CONTRACTOR SHALL DETERMINE CONNECTION CONFIGURATION)		DC	- CURRENT TRANSFORMER - DIRECT CURRENT	Code Compliance
	×	LOW VOLTAGE DEVICE BOX	TED 3"	(E) or EXIST EEB	- EXISTING - EQUIPMENT EMERGENCY BRANCH	
S AND	-	DUPLEX RECEPTACLE	BE 1	EEOR	- ELECTRICAL ENGINEER OF RECORD - EQUIPMENT GROUNDING CONDUC	
BOXES		QUADRUPLEX RECEPTACLE	IALL WISE	ENC	- ENCLOSURE	
		EMERGENCY RECEPTACLE	DEVICE BOXES SHALL BE 18" OD UNLESS OTHERWISE NOTED	(F) FACP	- FUTURE - FIRE ALARM CONTROL PANEL	
DEVICES,		CONTROLLED SPLIT DUPLEX RECEPTACLE	SS O'	FACU FSD	- FIRE ALARM CONTROL UNIT - FIRE SMOKE DAMPER	
			NLES	G	- EQUIPMENT GROUNDING CONDUC	
		QUADRUPLEX RECEPTACLE: (1) CONTROLLED SPLIT DUPLEX RECEPTACLE, (1) DUPLEX RECEPTACLE		GEC GFCI	- GROUNDING ELECTRODE CONDUC - GROUND FAULT CIRCUIT INTERRUPT	
		SINGLE OK TITKLET HASE RECEITACEL, SEET LAN SHEETS THEET ER LOCATION	Ŭ	GND	- GROUND - JUNCTION BOX	
	-	FLOOR BOX		LAUN	- LAUNDRY	
		FLOOR BOX		LCP LFEB	- LIGHTING CONTROL PANEL - LIFE SAFETY EMERGENCY BRANCH	
		PULLBOX		ltg Mbj	- LIGHTING - MAIN BONDING JUMPER	
EQUIPMENT	٢E	FUSED DISCONNECT XXA/XXF 60AS/20F 60A DISCONNECT / 20A FUSE XX WP NEMA 3R		МСВ	- MAIN CIRCUIT BREAKER	
				MFR MLO	- MANUFACTURER - MAIN LUG ONLY	
		NON-FUSED DISCONNECT XX WP NEMA 3R		MOCP MSB	- MAXIMUM OVERCURRENT PROTECT - MAIN SWITCH BOARD	ION
	\square	MAJOR ELECTRICAL COMPONENT OR DEVICE NAME OR IDENTIFYING SYMBOL AS SHOWN		MTS	- MANUAL TRANSFER SWITCH - NATIONAL ELECTRIC CODE	
		SURFACE MOUNT PANELBOARD		NEMA	- NATIONAL ELECTRIC MANUFACTUR	ER'S ASSOCIATION
				N (N)	- NEUTRAL - NEW	
		FLUSH MOUNT PANELBOARD		NB NSEB	- NORMAL BRANCH - NON-SEGREGATED EMERGENCY BR	ANCH
	1	EXOTHERMIC WELD, TERMINATION OR SPLICE POINT		OFCI	- OWNER FURNISHED, CONTRACTOR	INSTALLED
		GROUND ROD		ofoi Pb	- OWNER FURNISHED, OWNER INSTAL - PULLBOX	LEU
	=	GROUNDING ELECTRODE		PNL PLR	- PANELBOARD - PLUG LOAD RELAY	
		CIRCUIT BREAKER		RCPT	- RECEPTACLE - ROOM	
		CURRENT TRANSFORMER, NUMBER INDICATED		SWBD	- SWITCHBOARD	
	<#>	KEYNOTE		SBJ SSBJ	- System bonding jumper - Supply side bonding jumper	
	(A : B)	INDICATES INTERCONNECTION OF PATHWAYS AND/OR CONDUCTORS, E.G., 4"C-4#500,1#3G (MSB : PNL A) INDICATES CONDUIT AND CONDUCTORS ROUTED FROM THE MAIN SWITCHBOARD TO PANELBOARD A.		T TBB	- THERMOSTAT OR TELE CONDUIT - TELECOMMUNICATIONS BONDING	
ANA –	26 00 00	SPECIFICATION NUMBER REFERENCE TAG. CONFORMANCE TO PROJECT SPECIFICATIONS IS REQUIRED. WHEN	RF	tgb tmgb	- TELECOMMUNICATIONS GROUND E - TELECOMMUNICATIONS MAIN GRO	
	20 00 00	TAGS ARE SHOWN ON THE DRAWINGS, IT IS THE ENGINEER'S INTENT TO RAISE ADDITIONAL AWARENESS TO		TOD	- TOP OF DEVICE	2009 (1010)
		PRODUCTS OR EXECUTION METHODS THAT ARE CRITICAL, ATYPICAL OR NOT EXPRESSLY DETAILED ON THE DRAWINGS.		TR TYP	- TAMPER - TYPICAL	
NOTE:	THIS IS A SUPPLE	MENTAL STANDARD ELECTRICAL LEGEND. SOME SYMBOLS MAY APPEAR ON THIS LEGEND AND NOT ON THE		V	- Voltmeter, volt - Watt	
PLANS	. SEE LIGHTING C	ONTROL SHEET FOR LIGHTING LEGEND.		WW	- WIREWAY	
				WP XFMR	- WEATHERPROOF (NEMA 3R) - TRANSFORMER	
					A SUPPLEMENTAL STANDARD LEGEND. S NS MAY APPEAR ON THIS LEGEND AND	







(N) BR	ANCH PANEL		AB								
LOCATION	SOLAR RM	,	VOLTS		120/240	AIC RATING		42,000			
MOUNTING	SURFACE		WIRES		3	BUS RATING		400 A			
ENCLOSURE	NEMA 1		CIRCUITS		72	MAIN BREAKER		MLO			
			(LABEL F	PANELBOARDS ACC		CONVENTIONS LISTED		ATIONS)			
СКТ	BRANCH CIRCUIT	COMMENT	TRIP	Α	в	Α	B	TRIP	COMMENT	BRANCH CIRCUIT	СІ
CKI	DETAILS	COMMENT	TKIF	A	D	A	D	IKIF	COMMENT	DETAILS	
1	(N) 1/2"C-2#12,1#12G	(E) LOAD	20A	8		8		20A	(E) LOAD	(N) 1/2"C-2#12,1#12G	2
3	(N) 1/2"C-2#12,1#12G	(E) LOAD	20A		8		8	20A	(E) LOAD	(N) 1/2"C-2#12,1#12G	4
5	(N) 1/2"C-2#12,1#12G	(E) LOAD	20A	8		8		20A	(E) LOAD	(N) 1/2"C-2#12,1#12G	6
7	(N) 1/2"C-2#12,1#12G	(E) LOAD	20A		8		8	20A	(E) LOAD	(N) 1/2"C-2#12,1#12G	8
9	(N) 1/2"C-2#12,1#12G	(E) LOAD	20A	8		8		20A	(E) LOAD	(N) 1/2"C-2#12,1#12G	10
11	(N) 1/2"C-2#12,1#12G	(E) LOAD	20A		8		8	20A	(E) LOAD	(N) 1/2"C-2#12,1#12G	1:
13	(N) 1/2"C-2#12,1#12G	(E) LOAD	20A	8		8		20A	(E) LOAD	(N) 1/2"C-2#12,1#12G	14
15	(N) 1/2"C-2#12,1#12G	(E) LOAD	20A		8		8	20A	(E) LOAD	(N) 1/2"C-2#12,1#12G	1
17	(N) 1/2"C-2#12,1#12G	(E) TELCO ATM	20A	8		8		15A	(E) LOAD	(N) 1/2"C-2#12,1#12G	18
19	(N) 1/2"C-2#12,1#12G	(E) SANYO	20A		8		8	20A	(E) LOAD	(N) 1/2"C-2#12,1#12G	20
21	(N) 1/2"C-2#12,1#12G	(E) LOAD	20A	8		8		20A	(E) SOLAR DAS-1	(N) 1/2"C-2#12,1#12G	2:
23		(N) SPARE	20A		0		8	20A	(E) LOAD	(N) 1/2"C-2#12,1#12G	24
25		(N) SPARE	204	0		8		20A	(E) LOAD	(N) 1/2"C-2#12,1#12G	2
27	(N) 1/2"C-2#12,1#12G	(E) KITCHEN LTG	20A		8		8	20A	(E) INTAKE FAN	(N) 1/2"C-2#12,1#12G	2
29	(N) 1 1/2"C-3#3,1#8G	(E) BANK OF AMERICA	100A	70		8		20A	(E) EXHAUST FAN	(N) 1/2"C-2#12,1#12G	3
31	(1) 1 1/2 C-3#3,1#89	(L) BANK OF AMERICA	TUUA		70		8	20A	(E) LOAD	(N) 1/2"C-2#12,1#12G	3
33	(N) 1/2"C-2#12,1#12G	(E) KITCHEN FRIDGE	20A	8		8		20A	(E) KITCHEN RANGE	(N) 1/2"C-2#12,1#12G	34
35	(N) 1/2"C-2#12,1#12G	(E) KITCHEN FREEZER	20A		8		8	20A	(E) LOAD	(N) 1/2"C-2#12,1#12G	3
37	(N) 1/2"C-2#12,1#12G	(E) LOAD	20A	8		8		20A	(E) KITCHEN ICE MAKER	(N) 1/2"C-2#12,1#12G	3
39	(N) 1/2"C-2#12,1#12G	(E) LOAD	20A		8		8	20A	(E) LOAD	(N) 1/2"C-2#12,1#12G	4
41	(N) 1/2"C-2#12,1#12G	(E) LOAD	20A	8		8		20A	(E) LOAD	(N) 1/2"C-2#12,1#12G	4:
43	(N) 1/2"C-2#12,1#12G	(E) FIRE SUPPRESSION KIT.	20A		3		8	20A	(E) LOAD	(N) 1/2"C-2#12,1#12G	4
45	(N) 1/2"C-2#12,1#12G	(E) LOAD	20A	3		8		20A	(E) COLD STORAGE FRIDGE	(N) 1/2"C 2#12 1#12C	4
47	(N) 1/2"C-2#12,1#12G	(E) LOAD	20A		8		8	204	(L) COLD STOKAGET KIDGE	(N) 1/2"C-2#12,1#12G	4
49	(N) 1/2"C-2#12,1#12G	(E) LOAD	20A	8		8		20A	(E) LOAD	(N) 1/2"C-2#12,1#12G	5
51	(N) 1/2"C-2#12,1#12G	(E) KITCHEN OUTLETS #1	20A		8		8	20A	(E) LOAD	(N) 1/2"C-2#12,1#12G	5
53	(N) 1/2"C-2#12,1#12G	(E) KITCHEN OUTLETS #2	20A	8		8		20A	(E) LOAD	(N) 1/2"C-2#12,1#12G	5
55	(N) 1/2"C-2#12,1#12G	(E) KITCHEN OUTLETS #3	20A		8		8	20A	(E) EX FAN	(N) 1/2"C-2#12,1#12G	5
57	(N) 1/2"C-2#12,1#12G	(E) LOAD	20A	8		8		20A	(E) LOAD	(N) 1/2"C-2#12,1#12G	5
59		(N) SPARE	20A		8		8	20A	(E) LOAD	(N) 1/2"C-2#12,1#12G	6
61	(N) 1/2"C-2#12,1#12G	(E) COMPUTERS	20A	8		15		20.4		(N) 1/2"C 2#10 1#10C	6:
63	(N) 1/2"C-2#12,1#12G	(E) COMPUTERS	20A		8		15	30A	(E) LOAD	(N) 1/2"C-2#10,1#10G	6
65	(N) 1/2"C-2#12,1#12G	(N) EF-1	20A	6		0		-	(N) SPACE		6
67	(N) 1/2"C-2#12,1#12G	(N) EF-2	20A		6		0	-	(N) SPACE		6
69	(N) 1/2"C-2#12,1#12G	(N) ROOF RCPTS	20A	3				-	(N) SPACE		7
71		(N) SPACE	-		0		0	-	(N) SPACE		7
I				PH	ASE A	PH	IASE B				

									FREEZER
ELECTRICAL SERVICE - 3Ø	105,115	VA	/	240	V	=	253	A	STORAGE FRIDGE
		N	ON-C	CONTINUOUS L		AL	94,560	VA	LOAD
MECHANICAL LOADS - 220.50, 220.51, 440.6(a)						=	76,507	VA	CONTINU
SPECIAL LOADS - 220.14(a), 220.56, 422.10(a)						=	13,733	VA	
(50% DEMAND FACTOR OVER 10kVA)	24	QTY	*	180	VA	=	4,320	VA	
NON-CONTINUOUS DUTY - 220.14(i), 220.16(k)									RTU-2
NON-CONTINUOUS LOADS		_							RTU-1
CONTINUOL	s loads total - n	VEC 210	.20(A) (125% DEMAI	ND FACTO	R)	10,555	VA	HP-1
SPECIAL LOADS - 220.14(a), 220.56, 422.10(a)						=	3,686	VA	EF-2
GENERAL LIGHTING - TABLE 220.12, 220.42, 210.20(a)	4,248	SF	*	1.4	VA/SF	=	5,947	VA	EF-1
CONTINUOUS LOADS									load
COMMERCIAL LOAD CALCULAT	IONS								MECHAN

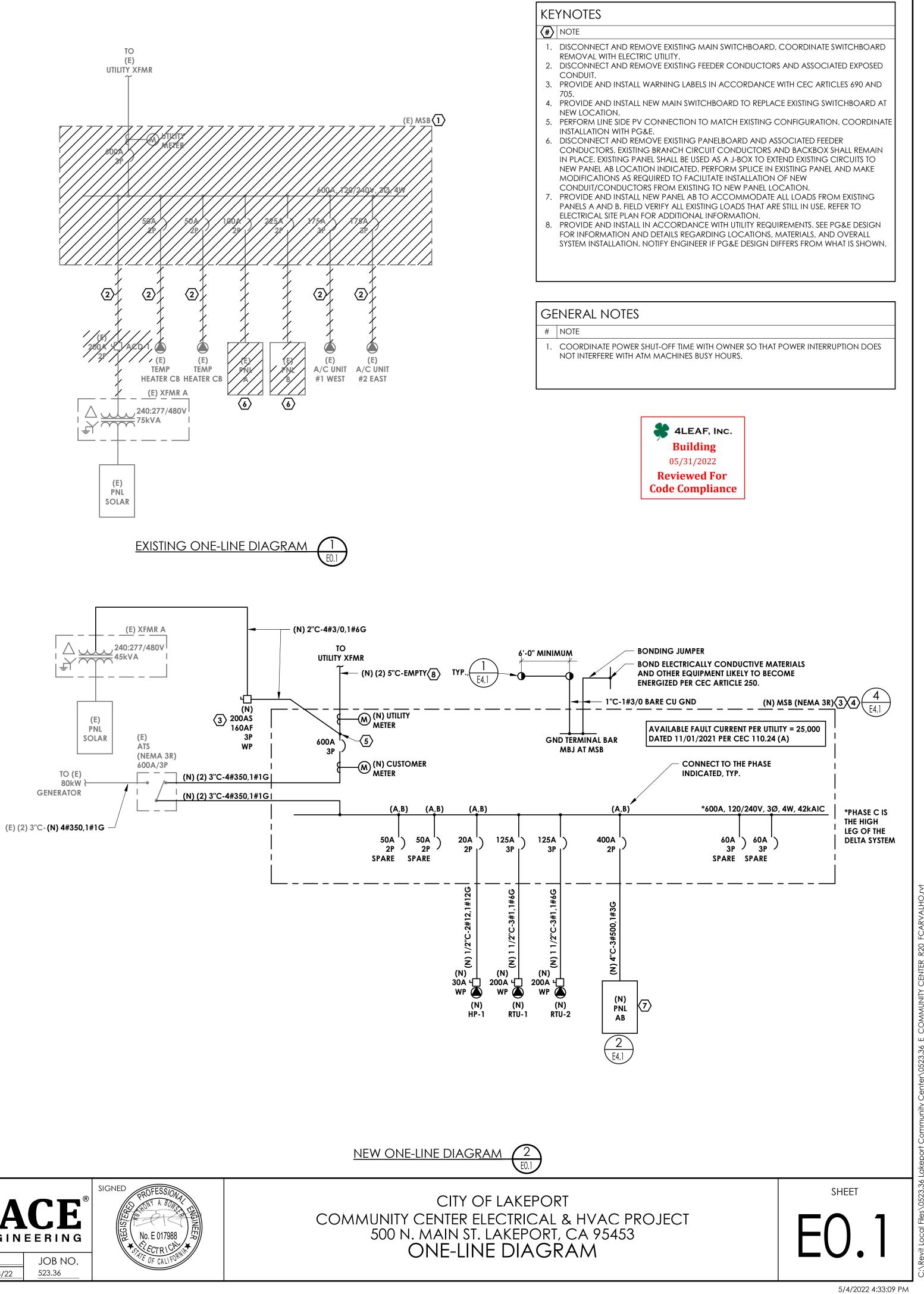
RIU-I
RTU-2
CONTINU
load
STORAGE FRIDGE
FREEZER
FRIDGE
NON-CON

load

RANGE CE MAKER MICROWAVE RANGE HOOD WATER HEATER

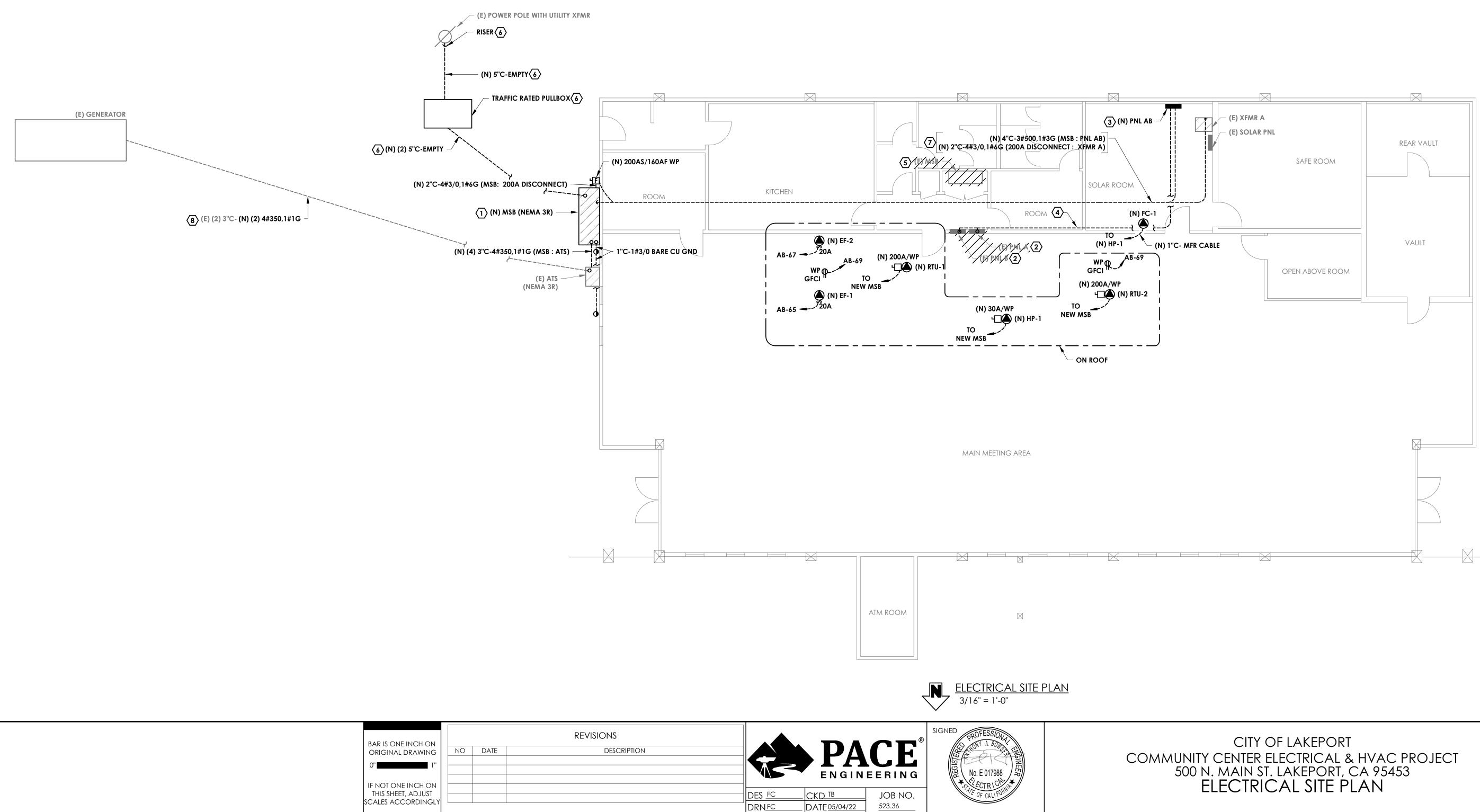
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IS SHEET, ADJUST LES ACCORDINGLY				DES FC DRNFC	CKD_TB DATE05/04/22	JOB NO. 523.36	PTE OF CALIFORNIA	

UTIL	TO (E) .ITY XFMR				
2		2			2
	(E) TEMP HEATER (E) XF 240:277/4 75kVA	CB HEATER C	B PNI A	E P W B	(E) A/C UI #1 WE
(E PN SOL	i) IL .AR				

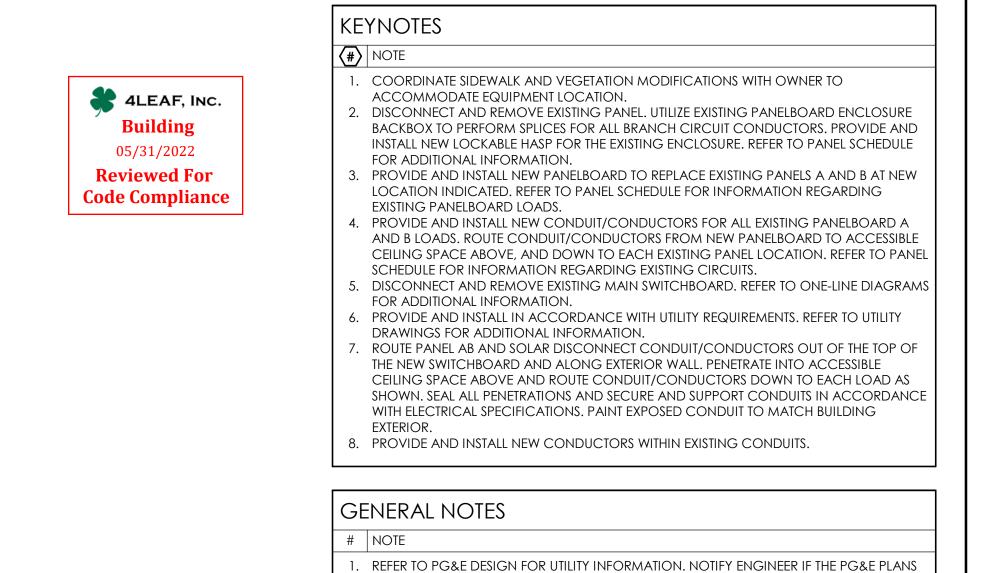


IICAL & PLUMBING LOADS										
	VAC	А	Ø	QTY	TOTAL VA					
	120	6	1	1	696					
	120	6	1	1	696					
	240	14	1	1	3283					
	240	86	3	1	35916					
	240	86	3	1	35916					
		T	OTAL	LOAD	76507					
Jous special lo	ADS									
	VAC	А	Ø	QTY	TOTAL VA					
θE	240	8	1	1	1843					
	120	8	1	1	922					
	120	8	1	1	922					
		T	OTAL	LOAD	3686					
NTINUOUS SPECI	AL LC	DADS								
	VAC	A	Ø	QTY	TOTAL VA					
	120	10	1	1	1152					

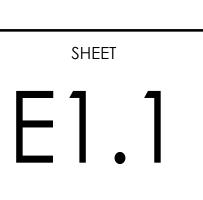
120	10	1	1	1152
120	7	1	1	797
120	13	1	1	1579
120	10	1	1	1200
240	38	1	1	9005
	T	OTAL	LOAD	13733

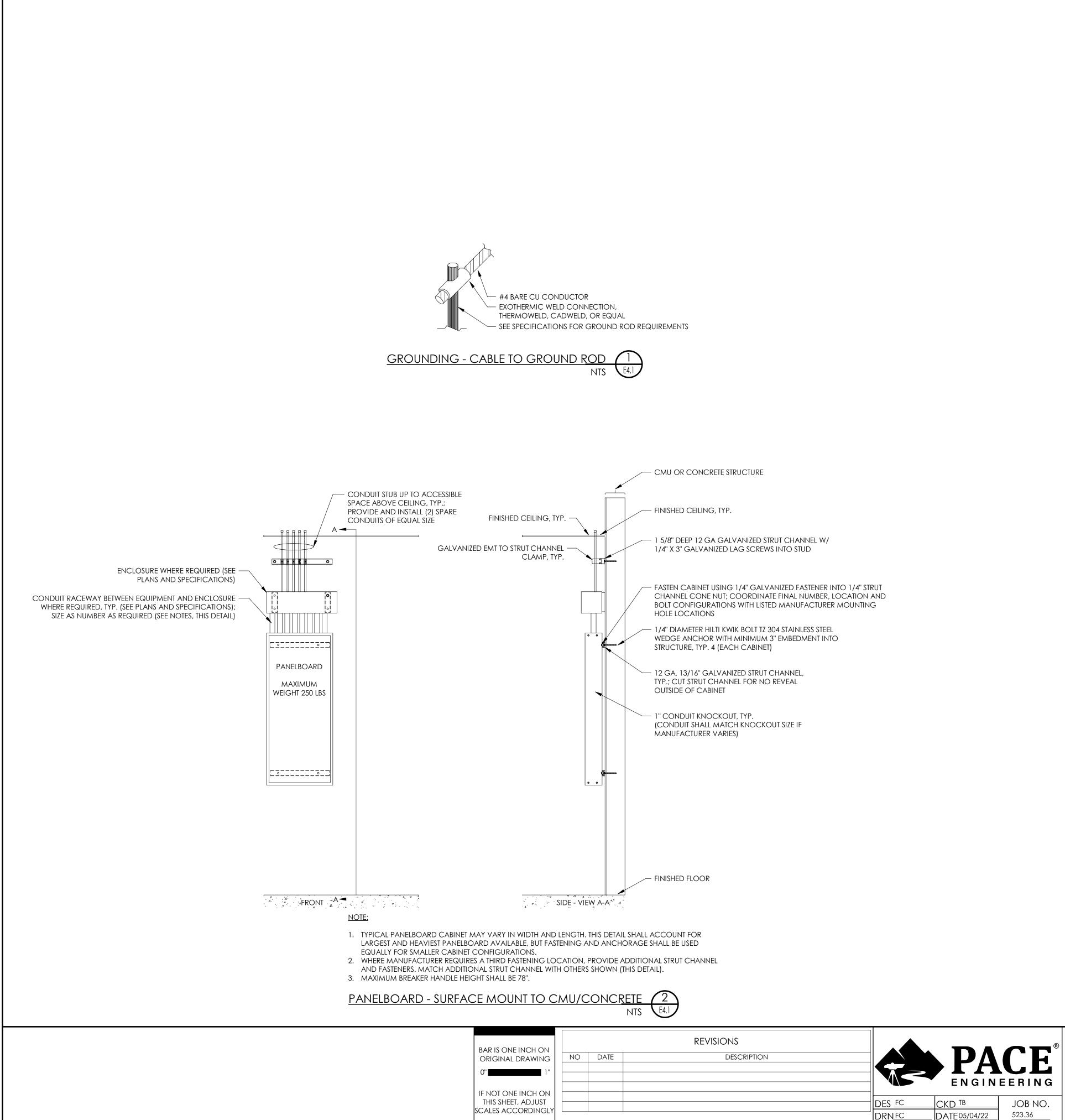


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DIFFER FROM WHAT IS SHOWN.









FLOOR PLAN - PULL AREA

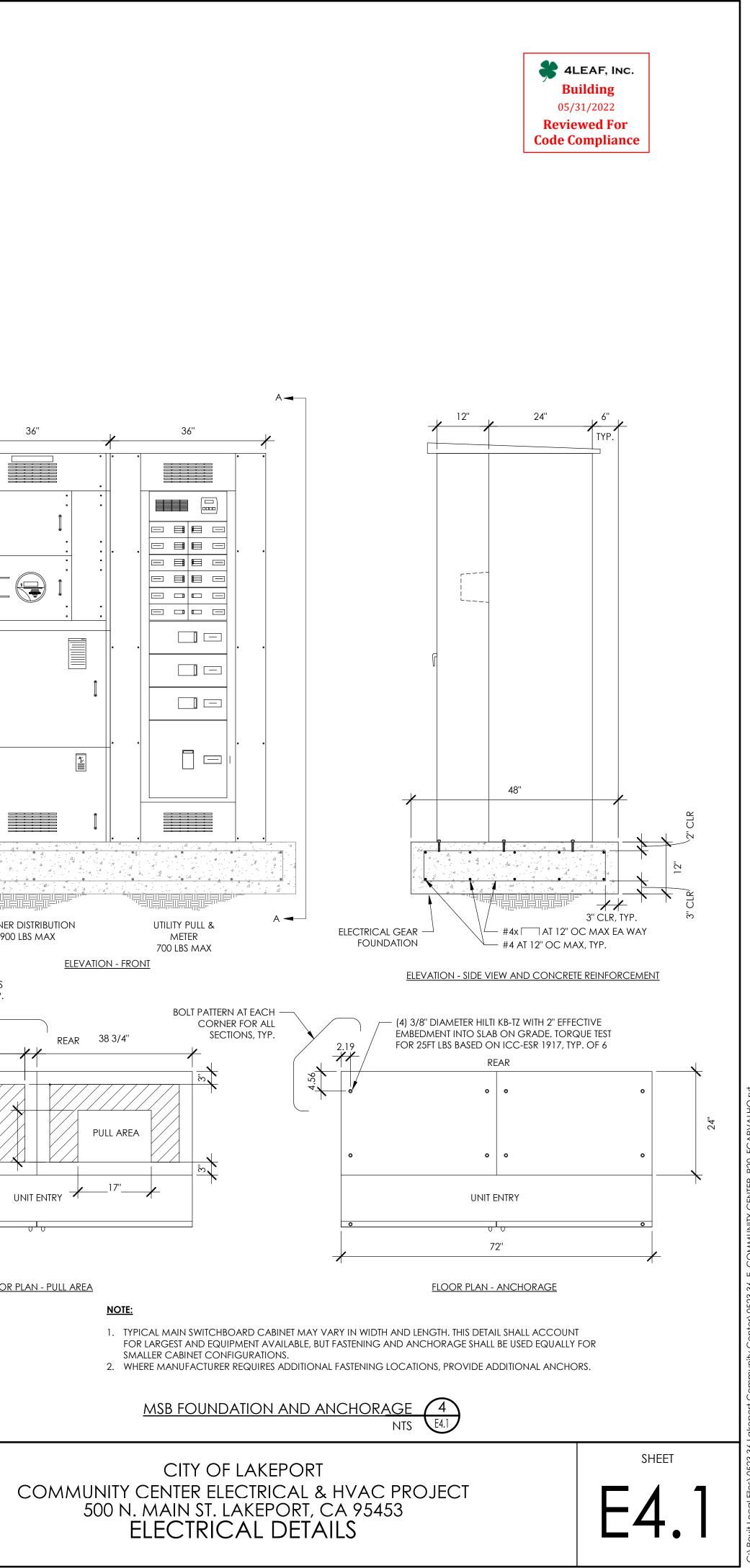
OWNER DISTRIBUTION 900 LBS MAX

WIDTH DIMENSIONS

32 3/4"

PULLAREA

EACH SECTION, TYP.



STATE OF CALIFORNIA Electrical Power Distribution

NRCC-ELC-E (Created 01/20)

STATE OF CALIFORNIA

CERTIFICATE OF COMPLIANCE NRCC-ELC This document is used to demonstrate compliance with mandatory requirements in §130.5 for electrical systems in newly constructed nonresidential, high-rise residential and hotel/motel occupancies. Additions and alterations to electrical service systems in these occupancies will also use this document to demonstrate compliance per §141.0(a) or 141.0(b)2P for alterations. roject Name: City of Lakeport Community Center Report Page: Page 1 of 5

Project Address: 500 N. Main street. Lakeport, CA 95453 Date Prepared:								
A. GENERAL INFORMATION					2			
01 Project Location (city)	Lakeport	02 0	ccupancy Type	s Within Project	1			
✓ Office R	Retail Warehouse	H H	tel/ Motel	Sch	ool Support Areas			
Parking Garage	High-Rise Residential 🛛 Relocatable	🗌 He	althcare Facilit	ties 🗌 Oth	er (Write In):			
B. PROJECT SCOPE								
Table Instructions: Include any elect	trical service systems that are within the sco	pe of the permit	application.					
01	02	03	04	05	06			
Electrical Service Designation/ Description	Scope of Work ¹	Rating (kVA)	Utility Provided Metering System Exception to §130.5(a) ²	subject to CA Elec Code Article 517 Exception to §130.5(a)&(b)	Demand Response Controls Where required, demand response controls must be specified which are capable of receiving and automatically responding to at least one standards based messaging protocol which enables demand response after receiving a demand response signal. Sections <u>§120.2</u> , <u>§130.1</u> and <u>§130.3</u> and compliance documents NRCC- MCH, NRCC-LTI and NRCC-LTS will indicate when			
MSB	Complete replacement service equipment & meter	144			demand response controls are required.			

¹ FOOTNOTES: Adding only new feeders and branch circuits triggers Voltage Drop 130.5(c), no other requirements from 130.5 are required. ² Applicable if the utility company is providing a metering system that indicates instantaneous kW demand and kWh for a utility-defined period.

C. COMPLIANCE RESULTS									
Table Instructions: If this table says "DOES NOT COMPLY" refer to Table D. for guidance and review the Table that indicates "No".									
01		02		03		04	05		
Service Electrical Metering <u>§130.5(a)</u>	AND	Separation for Monitoring <u>§130.5(b)</u>	AND	Voltage Drop <u>§130.5(c)</u>	AND	Controlled Receptacles <u>6130.5(d)</u>	Compliance Results		
(See Table F)		(See Table G)	1	(See Table H)	1	(See Table I)			
Yes	AND	Yes	AND	Yes	AND	Yes	COMPLIES		

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance: http://www.energy.ca.gov/title24/2019standards

January 2020

CALIFORNIA ENERGY COMMISS

Electrica	l Power [Distribution		NERGY COMMIS				
NRCC-ELC-E (Cr			CALIFORNIA E	NERGY COMMIS	SION			
CERTIFICATE	OF COMPLI	ANCE			NRCC-ELC-E			
Project Name: City of Lakeport Community Center Report Page: Page 4 of								
Project Address: 500 N. Main street. Lakeport, CA 95453 Date Prepared: 11/01								
J. DECLARA	TION OF R	EQUIRED CERTIFICATES OF INSTALLATION			?			
Table E. Add	litional Rema	tions have been made based on information provided in previous tables of irks. These documents must be provided to the building inspector during co 019_compliance_documents/Nonresidential_Documents/NRCI/			r .			
YES	NO	Form/Title		Field Ins	spector			
1123	NO	Formy rule		Pass	Fail			
۲	NRCI-ELC-01-E - Must be submitted for all buildings.							
K. DECLAR	ATION OF R	EQUIRED CERTIFICATES OF ACCEPTANCE			2			
There are no	Certificates	of Acceptance applicable to electrical power distribution requirements.						

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance: http://www.energy.ca.gov/title24/2019standards

January 2020

DISTRIBUTION	LOAD TYPE	CONDUIT MATERIAL	CONDUCTOR MATERIAL	QUANTITY OF RUNS	CONDUCTOR SIZE (AWG)	CURRENT (A)	DISTANCE (FT)	VOLTAGE (V)	IMPEDANCE (Z)	VOLTAGE DROP (Vd)	VOLTAG DROP (%
MSB : PANEL AB	LINE-LINE (1Ø)	RMC	CU	1	500	320	70	240	0.05	2.24	0.93%
PANEL AB : FURTHEST LOAD	LINE-NEUTRAL	EMT	CU	1	12	3	100	120	1.70	0.51	0.43%
			•				•			TOTAL VD:	1.36%
INE-NEUTRAL	Vd = (L * R * I)/1000		LINE-LINE (3Ø)	Vd = (SQRT(3) *	^c L * R * I)/1000		L = DISTANC	E	R = IMPEDANCE		
INE-LINE (1Ø)	Vd = (2 * L * R * I)/1000						I = CURRENT		Vd = VOLTAGE DROP		
NE-LINE (1Ø)	Vd = (2 * L * R * I)/1000						I = CURRENT		Vd = VOLTAGE DROP		

		REVISIONS	-	R	SIGNED PROFESSION	
BAR IS ONE INCH ON ORIGINAL DRAWING	NO DATE	DESCRIPTION	ΡΑ	CE		C
1"			ENGIN	EERING	No. E 017988	
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RCC-ELC-E (Created 01/20)						CALIFORNIA ENERGY O	OMMISSION	$M \simeq M$
ERTIFICATE OF COMPLIANCE							NRC	C-ELC-E
roject Name: City of Lakeport C	ommunity Cente	r		Report	Page:		Pag	;e 2 of 5
roject Address: 500 N. Main stree	rt. Lakeport, CA 9	5453		Date P	repared:		1	1/01/21
. EXCEPTIONAL CONDITIONS								2
his table is auto-filled with unedite	able comments be	ecause of selection.	s made or data en	tered in tables thr	oughout the form	n.		
lo exceptional conditions apply to	this project.							
. ADDITIONAL REMARKS								5
his table includes remarks made b	w the permit ann	icant to the Author	itu Havina turisdir	tion				
SERVICE ELECTRICAL METERI able Instructions: Complete the ta		v or replacement e	lectrical service sy:	stems OR equipm	ent to demonstra	te compliance with <u>§130.5(a)</u> .	_	2
01	02		0	3		04	05	;
Electrical Service	Rating	Required Metering Capabilities per			130.5-A	Location of Requirements in	Field Inspector	
Designation/ Description	(kVA)	Instantaneous Demand (kW)	Historical Peak Demand (kW)	Tracking kWh for user-defined period	kWh per rate period	Construction Documents	Pass	Fail
	144	Image: A start and a start		V		E0.1		
5. SEPARATION OF ELECTRICAL								2
Iropdown choices in column 01, in	dicate the load ty					emonstrate compliance with <u>§130.5/</u> ne service do not need to be shown.	(<u>b)</u> , Using t	the
lectrical Service Designation/Des	cription:							
01			02	03		04	05	,
Load Type per Table 130.5-B ¹			uired Separation of Table 130.5-B	of Complia Metho		Location of Requirements in Construction Documents	Field Ins	
		1					Pass	Fail
					÷			
Plug Loads and appliances NOTES: If "Other*" is selected und				Othe		E0.1		

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance: http://www.energy.ca.gov/title24/2019standards

STATE OF CALIFORNIA			
Electrical Power Distribu	tion		
NRCC-ELC-E (Created 01/20)			CALIFORNIA ENERGY COMMISSION
CERTIFICATE OF COMPLIANCE			NRCC-ELC
Project Name: City of Lakeport C	ommunity Center	Report Page:	Page 5 of
Project Address: 500 N. Main stree	7	Date Prepared:	11/01/2
		. ·	
DOCUMENTATION AUTHOR'S D	ECLARATION STATEMENT		
I certify that this Certificate of Com	pliance documentation is accurate and comple	te.	
Documentation Author Name:	Felipe Carvalho	Documentation Author Signature:	: Felipe Tarabil Carrallo-
Company:	PACE Engineering	Signature Date:	11/01/21
Address:	1730 South St	CEA/ HERS Certification Identification	tion (if applicable):
City/State/Zip:	Redding, CA 96001	Phone:	(530) 244-0202
RESPONSIBLE PERSON'S DECLARA			
	ty of perjury, under the laws of the State of Ca		
 The information provided on th 	is Certificate of Compliance is true and correct	t.	
2. I am eligible under Division 3 of	the Business and Professions Code to accept r	responsibility for the building design or s	system design identified on this Certificate of
Compliance (responsible design	er)		
a when a second s		البالين والمعامية ومواريجان ليستبد والبيان	in a dealers are surfaces dealers (deathfind are this

3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.

4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application. 5. I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy.

Responsible Designer Name:	Tony Bowser	Responsible Designer Signature:	TER
Company :	PACE Engineering	Date Signed:	11/01/21
Address:	1730 South St	License:	E017988
City/State/Zip:	Redding, CA 96001	Phone:	(530) 244-0202

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance: http://www.energy.ca.gov/title24/2019standards January 2020

STATE OF CALIFORNIA Electrical Power Distribution	
NRCC-ELC-E (Created 01/20)	CALIFORNIA ENERGY COMMISSION
CERTIFICATE OF COMPLIANCE	NRCC-ELC-E
Project Name: City of Lakeport Community Center	Report Page: Page 3 of 5
Project Address: 500 N. Main street. Lakeport, CA 95453	Date Prepared: 11/01/21

¹FOOTNOTES: For each separate load type, up to 10% of the connected load may be of any type.

January 2020

² Method 1: Switchboards/ motor control centers/ panelboard loads disaggregated for each load type

Method 2: Switchboards/ motor control centers/ panelboard supply other distribution equipment with loads disaggregated for each load type

Method 3: Branch circuits serve load types individually & provisions for adding future branch curcuit monitoring Method 4: Complete metering system measures and reports loads by type

See Chapter 8 of the Nonresidential Compliance Manual for more detail on Compliance Methods.

H. VOLTAGE DROP						2		
Table Instructions: Please complete this table for entirely new or complete replacement electrical power distribution systems, or alterations that add, modify or replace both feeders and branch circuits to demonstrate compliance with <u>§130.5(c)</u> . For alterations, only the altered circuits must demonstrate compliance per <u>§141.0(b)2Pili</u> .								
01		02	03	04	0	5		
Electrical Service Designation/ Description		on Installed Feeder/Branch Compliance Method	Location of Voltage Drop Calculations ¹	Sheet Number for Voltage Drop Calculations in Construction Documents	Field In Pass	spector Fail		
Permitted by CA Elec Permitted by CA Elec In construction documents E4.2								
NOTES If "Permitted by CA Elec Co	ode" is selected under Col	mpliance Method above, ple	ase indicate where the exception a	oplies in the space provided below.	-	,		

¹ FOOTNOTES: Voltage drop calculations may be attached to the permit application outside the construction documents if allowed by the Authority Having Jurisdiction. Select "attached" if applicable. If calculations will be the responsibility of the installing contractor, select "Contractor Responsible".

I. CIRCUIT CONTROLS FOR 120-VOLT RECEPTACLES AND CONTROLLED RECEPTACLES Table Instructions: Please complete this table for entirely new or complete replacement electrical power distribution systems to demonstrate compliance with 6130.5(d). Both ntrolled and uncontrolled receptacles must be provided in office areas, lobbies, conference rooms, kitchen areas in office spaces, copy rooms and hotel/motel guest rooms. 01 02 03 04 05 06 'ermanen cation of Requirements Field Inspector Room Name Location/ Type of Controlled Durable Shut-Off Controls in Construction or Description Receptacles Marking Will Documents Fail Pass be Used NA: No applicable space types on ALL ROOMS this service Add Row Remove Las

* If "Other*" is selected under Compliance Method above, please indicate how compliance has been achieved in the space provided below.

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance: http://www.energy.ca.gov/title24/2019standards

January 2020

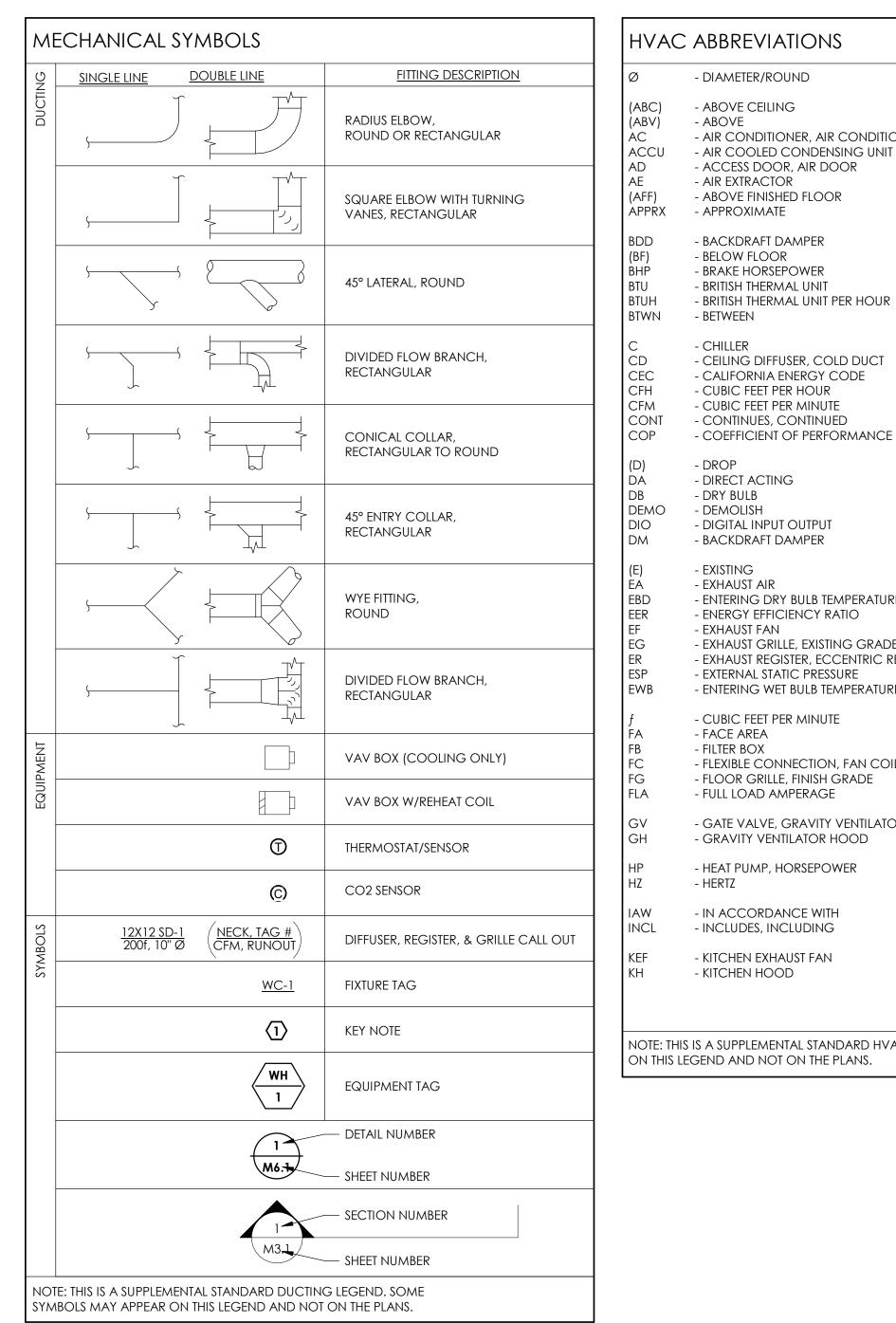


CITY OF LAKEPORT COMMUNITY CENTER ELECTRICAL & HVAC PROJECT 500 N. MAIN ST. LAKEPORT, CA 95453 CTRICAL TITLE 24 COMPLIANCE DOCUMENTS

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SHEET

E4.2



AIR	TERMINALS	SCHEDULE			
TAG	MANUFACTURER & MODEL (OR EQUAL)	TYPE	MOUNT	NECK	REMARKS
CD-1	TITUS TMS	CEILING DIFFUSER	SURFACE	ROUND	STEEL, #26 WHITE, SQUARE CEILING DIFFUSER.
CD-2	TITUS 271FL	CEILING GRILLE	SURFACE	RECTANGULAR	3/4" BLADE SPACING, HORIZONTAL, 22.5° AERO , #26 WHITE.
RG-1	TITUS 350FL	RETURN GRILL	SURFACE	RECTANGULAR	3/4" BLADE SPACING, 35° FIXED, ALUMINUM, #26 WHITE.
TG-1	TITUS 350FL	EXHAUST GRILL	SURFACE	RECTANGULAR	3/4" BLADE SPACING, 35° FIXED, ALUMINUM, #26 WHITE.
TG-2	TITUS 271FL	CEILING GRILLE	SURFACE	RECTANGULAR	3/4" BLADE SPACING, HORIZONTAL, 22.5° AERO , #26 WHITE.
EG-1	TITUS 350FL	EXHAUST GRILL	SURFACE	RECTANGULAR	3/4" BLADE SPACING, 35° FIXED, ALUMINUM, #26 WHITE.
NOTES					

NOTES: 1. INCLUDE OPPOSED BLADE DAMPERS WHERE INDICATED ON FLOOR PLANS.

BAR IS ONE INCH ON	NO	DATE	
ORIGINAL DRAWING 0" 1" IF NOT ONE INCH ON			
THIS SHEET, ADJUST SCALES ACCORDINGLY			

												(GENERA	l notes	
	KHC KW	- KITCHEN HOOD CONTROLLER - KILOWATT						Г]		2. INSTALLA	CTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL PERMITS	des and standards
DNING	LA LAT LBS	- LEAVING AIR - LEAVING AIR TEMPERATURE - POUNDS								4LEAF, I Building 05/31/2022				ng but not limited to 2019 California Building, Fire, NCAL, and Plumbing Codes.	ENERGY,
	LDB LWB	- LEAVING DRY BULB TEMPERATURE - LEAVING WET BULB TEMPERATURE							Rev	viewed F	or				
	MA MAD MAT MAU	- MIXED AIR - MIXED AIR DAMPER - MIXED AIR TEMPERATURE - MAKEUP AIR UNIT						L	Code	e Complia	ance				
	MBH MCA MD	- THOUSAND BRITISH THERMAL UNITS PER HOUR - MINIMUM CIRCUIT AMPACITY - MOTORIZED DAMPER				FAN C		SCHEDU	JLE						
	MFR MOCP	- MANUFACTURER - MAXIMUM OVER CURRENT PROTECTION										INDOOR AIR HANDLER	/ FAN COIL		
	MVD (N)	- MANUAL VOLUME DAMPER				$\left \left\langle \begin{array}{c} - \\ - \end{array}\right\rangle\right ^{t}$	MC	CTURER & _ DEL QUAL)			COOLING (BTU/H)	CAPACITY G COOLING HEATIN SENS (BTU/H @		CTRICAL SERVICE WEIGHT OUTSIDE AIR (CFM)	REMARKS
	NC NO	- NORMALLY CLOSED - NORMALLY OPEN					MITSUBIS	,	738		22400	16800 16000		REFER TO HP-1 37 PROVIDE WAI CONDENSATE	l mount kit, and Pump.
	OA OAT OBD (OH)	- Outside Air - Outside Air temperature - Opposed blade damper - Overhead				NOTES: 1. FOLLC 2. PROVI 3. PROVI	OW MANI DE AND DE AND	JFACTURER: INSTALL MIT INSTALL HO	SUBISHI NEYWEL		CN-1 FAN	N COIL TO UNIVERSAL TH			
	PH	- PHASE				4. CONT	RACTOR		SPONS				ONTROL AND	POWER WIRING BETWEEEN HEAT PUMP AND FAN COIL IN	ACCORDANCE WITH
	QTY	- QUANTITY				MANU	JFACIUR	CER INSTALLA			IS AND 201	019 CALIFORNIA CODES.			
	(R) RA REF RF	- RISE - RETURN AIR, REVERSE ACTING - ROOF MOUNTED EXHAUST FAN - RETURN FAN		EXHA	UST FAN So		FAN		МС	DTOR					
CER	RG RL RR RS	- RETURN GRILLE - REFRIGERANT LIQUID - RETURN REGISTER - REFRIGERANT SUCTION			MANUFACTURE MODEL (OR EQUAL)		CFM	EXTERNAL STATIC PRESSURE (IN WC)	нр З	ectrical Service V-PH-HZ)	VEIGHT			REMARKS	
	RSR RTU SA	- RISER - ROOF TOP UNIT - SUPPLY AIR		EF-1	GREENHECK AE-12-433-A4	0.09 1475	500	0.4	1/4 1	115-1-60	46	CURB CAP WITH PREPUN CORROSION RESISTANT	ICHED MOUN FASTENERS, SI	CT DRIVE ECM MOTOR, ALUMINUM HOUSING, ALUMINUN NTING HOLES AND ADAPTER TO MATCH EXISTING CURB DI PEED CONTROL MOUNTED IN ATTIC BELOW FAN, UL 705 LI CH, INCLUDE AND INSTALL BD-100-PB-12X12 GRAVITY OPE	MENSIONS, BIRDSCRE TED, JUNCTION BOX
	SD SEER SF SP	 SMOKE DETECTOR/SMOKE DAMPER SEASONAL ENERGY EFFICIENCY RATIO SUPPLY FAN STATIC PRESSURE 			GREENHECK						R	ROOF MOUNTED EXHAU	ST FAN, DIREC	CT DRIVE ECM MOTOR, ALUMINUM HOUSING, ALUMINUN NTING HOLES, BIRDSCREEN, CORROSION RESISTANT FASTER	BLADE, ALUMINUM
	SQFT SR SWR	- Square feet - Supply register - Side Wall register		EF-2	AE-12-433-A4	0.09 1475	500	0.4	1/4 1	115-1-60	46 N	MOUNTED IN ATTIC BELC	OW FAN, UL 70	05 LISTED, JUNCTION BOX, NEMA-1 TOGGLE DISCONNECT DAMPER, GPI 22-12-G12 12" TALL CURB DESIGNED FOR F/	SWITCH,
	temp tg tstat typ	- TEMPERATURE - TRANSFER GRILLE - THERMOSTAT - TYPICAL	HEA	PUMP SCH						,					
		- VOLTS, VENT		MANUFACTURER MODEL (OR EQUAL)	& FANS		AOTOR FLA	COMPR HP	ESSOR RLA	ELEC	CTRICAL SI			COMMENTS	
	V	•		,											
	V WB WC WP	- WATTS - WET BULB - WATER COLUMN - WORKING PRESSURE	HP-1	MITSUBISHI NTXSST24A112A	1 1	769 .1	.93	NA	12.9	230-1-60) 17.1	.1 20 12.5 20	0.5 119	HP AND FC SHALL BE PAIRED AND HAVE LISTED AHRI NU	MBER.

	MANUFACTURER & MODEL (OR EQUAL)	NET COOLIN	G CAPACITY	NET HEATING C	APACITY		SU	JPPLY FAN			COMP	PRESSOR	ELECTR	ICAL SERV	/ICE	EFFIC	IENCY	OUTS	IDE AIR		
		TOTAL (MBH)	SENSIBLE (MBH)	PRIMARY (MBH)	DEFROST ELECTRIC (MBH)	ВНР	CFM	EXTERNAL STATIC PRESSURE (IN WC)	HP	FLA	HP	RLA	V-PH-HZ	МСА	моср	EER	IEER	DCV MIN (CFM)	design (CFM)	WEIGHT WITHOUT CURB	COMMENTS
RTU-1	TRANE WSC120H3RGA	104.45	104.45	76.95	61.47	1.76	4000	1.0	2.75	7.3	13.14	34	230-3-60	108	125	11	12.20	NOT REQD	1110	988	ROOFTOP UNIT: 2 STAGE SCROLL COMPRESSOR, NON FUSED DISCONNECT, CONVENIENCE OUTLET, HINGED ACCESS DOORS, MICROMETL ECD DRY BULB ECONOMIZER OR EQUAL. SEE NOTE BELOW FOR ADDITIONAL ECOMOMIZER REQUIREMENTS. PROVIDE AND INSTALL 18KW SECONDARY HEATER IN EQUIPMENT AND CONFIGURE FOR OPERATION DURING HEATNG DEFROST MODE. UNIT SHALL BE CONFIGURED AS DOWNFLOW.
RTU-2	TRANE WSC120H3RGA	105.87	105.33	76.97	61.47	1.76	4000	1.0	2.75	7.3	13.14	34	230-3-60	108	125	11.5	15.5	500	1255	988	ROOFTOP UNIT: 2 STAGE SCROLL COMPRESSOR, NON FUSED DISCONNECT, CONVENIENCE OUTLET, HINGED ACCESS DOORS, MICROMETL ECD DRY BULB ECONOMIZER OR EQUA. SEE NOTE BELOW FOR ADDITIONAL ECOMOMIZER REQUIREMENTS. PROVIDE AND INSTALL CO2 SENSOR, WIRING AND CONTROLS TO INTERFACE TO HVAC UNIT AND ECONOMIZER. INTERFACE AND SENSOR SHALL BE COMPATIBLE WITH HVAC UNIT. OSA DAMPER MINIMUM POSITION SHALL OPERATE BETWEEN 400 TO 1255 CFM BASED UPON C02 SENSOR OUTPUT IN ACCORDANCE WITH 2019 CALIFORNIA ENERGY CODE SECTION 120.1(d)4, C7232 OR EQUAL. PROVIDE AND INSTALL 18KW SECONDARY HEATER IN EQUIPMENT AND CONFIGURE FOR OPERATION DURING HEATNG DEFROST MODE. UNIT SHALL BE CONFIGURED AS DOWNFLOW.

NOTES:

1. DESIGN CAPACITIES BASED ON OUTDOOR AIR TEMP SUMMER 105 °F DB/67.7 °F WB, WINTER 28.4 °F WITH THE FULL RATE OF OUTSIDE AIR MIXING BEFORE ENTERING THE COIL. FOR OUTDOOR AIR TEMP SUMMER 95 °F DB/67°F WB UNIT SHALL HAVE MINIMUM TOTAL CAPACITY OF 113 MBH AND SENSIBLE 93 MBH.

2. PROVIDE AND INSTALL UNIT TO ROOF CURB ADAPTER MICROMETL OR EQUAL. ROOF CURB ADAPTER SHALL HAVE A MAXIMUM STATIC PRESSURE LOSS OF 0.4 IN WC TOTAL ACROSS SUPPLY AND RETURN, AT DESIGN AIR FLOW RATE, AND GASKET KITS. CONSTRUCTION SHALL BE WELDED, HEAVY DUTY GAUGE CONSTRUCITON (MIN 14GUAGE), WITH MINIMUM R8 INSULATION ON ALL AREAS OF CURB TRANSFERING DUCTWORK. CURB DESIGN SHALL BE STAMPED BY AN STRUCTURAL OR CIVIL ENGINEER LICENCED IN THE STATE OF CALIFORNIA. UNIT SHALL BE CONNECTED TO CURB ADAPTER AND CURB ADAPTER SHALL BE CONNECTED TO EXISTING CURB PER ADAPTER INSTALLATION INSTRUCTIONS.

3. PROVIDE AND INSTALL 2019 CALIFORNIA ENERGY CODE SECTION 110.12 DEMAND RESPONSE CAPABLE THERMOSTATS COMPATIBLE WITH HVAC AND ECONOMIZER. PROVIDE AND INSTALL ALL REQUIRED THERMOSTAT CONTROL WIRING AND INTERFACES TO HVAC UNIT. WIRING SHALL BE CONCEALED WITHIN WALLS.

4. PROVIDE, INSTALL AND WIRE SMOKE DETECTORS ON BOTH RTU SUPPLY AIR DUCTS. CONTRACTOR SHALL REVIEW EXISTING EQUIPMENT DURING BID WALK TO DETERMINE FULL SCOPE OF REQUIREMENTS. IF DETERMINED THAT EXISTING SMOKE DETECTORS ARE FUNCTIONAL AND UL 268A LISTED, EXISTING SMOKE DETECTOR MAY BE REUSED. DUCT DETECTORS SHALL BE IN A READILY ACCESSILE LOCATION AND ACCESS DOOR SHALL BE INCLUDED ON DUCT. 5. ECOMONIZER SHALL BE DESIGNED FOR OPERATION WITH THE UNIT ON WHICH IT IS BEING INSTALLED. ECONOMIZERS SHALL BE PROVIDED WITH BELIMO ZIP DRY BULB ECONOMIZER SYSTEM WITH ECON ZIP BASE, LCD SCREEN, AND KEYPAD, ULTRA LOW LEAKAGE ECONOMIZER, VERTICAL ORIENTATION, PAINTED RAIN HOOD WITH ALUMINIMUM FILTER, BAROMETRIC RELIEF, ALL NECESSARY PANELS AND HARDWARE, AND ALL SENSORS AND WIRING REQUIRED FOR FULL OPERATION. ECOMIZER SHALL BE CAPABLE OF 100% OUTSIDE AIR OPERATION DURING ECONOMIZER MODE. ECONOMIZER SHALL INCLUDE FAULT DETECTION PER 2019 CALIFRONIA ENERGY CODE. RTU-2 SERVING THE WEST ROOM WILL REQUIRE DEMAND CONTROL VENTILATION WITH CO2 SENSOR. 6. PROVIDE AND INSTALL HONEYWELL VISIONPRO 8000 THERMOSTATS OR EQUAL. THERMOSTATS SHALL BE COMPATIBLE WITH THE HVAC UNIT AND ECONOMIZER TO WHICH IT IS CONNECTED. THERMOSTATS SHALL BE LISTED WITH THE CALIFORNIA ENERGY COMMISSION, AND CAPABLE OF MEETING REQUIREMENTS OF THE 2019 CALIFORNIA ENERGY CODE. THIS INCLUDES BUT IS NOT LIMITED TO, DEMAND RESPONSE PER SECTION 110.12(a), AND ECONOMIZER FAULT DISPLAYED ON THERMOST. CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING THERMOSTATS AND WIRING ARE OPERATIONAL AND COMMUNICATING WITH NEW UNITS. ALL SIGNAL WIRING BETWEEN THERMOSTATS AND ROOFTOP EQUIPMENT SHALL BE THE RESPONSIBLITY OF THE CONTRACTOR.

. PROVIDE AND INSTALL UNITS WITH 2" THICK MERV 13 FILTERS. PROVIDE 1 SET OF SPARE FILTERS FOR EACH UNIT.

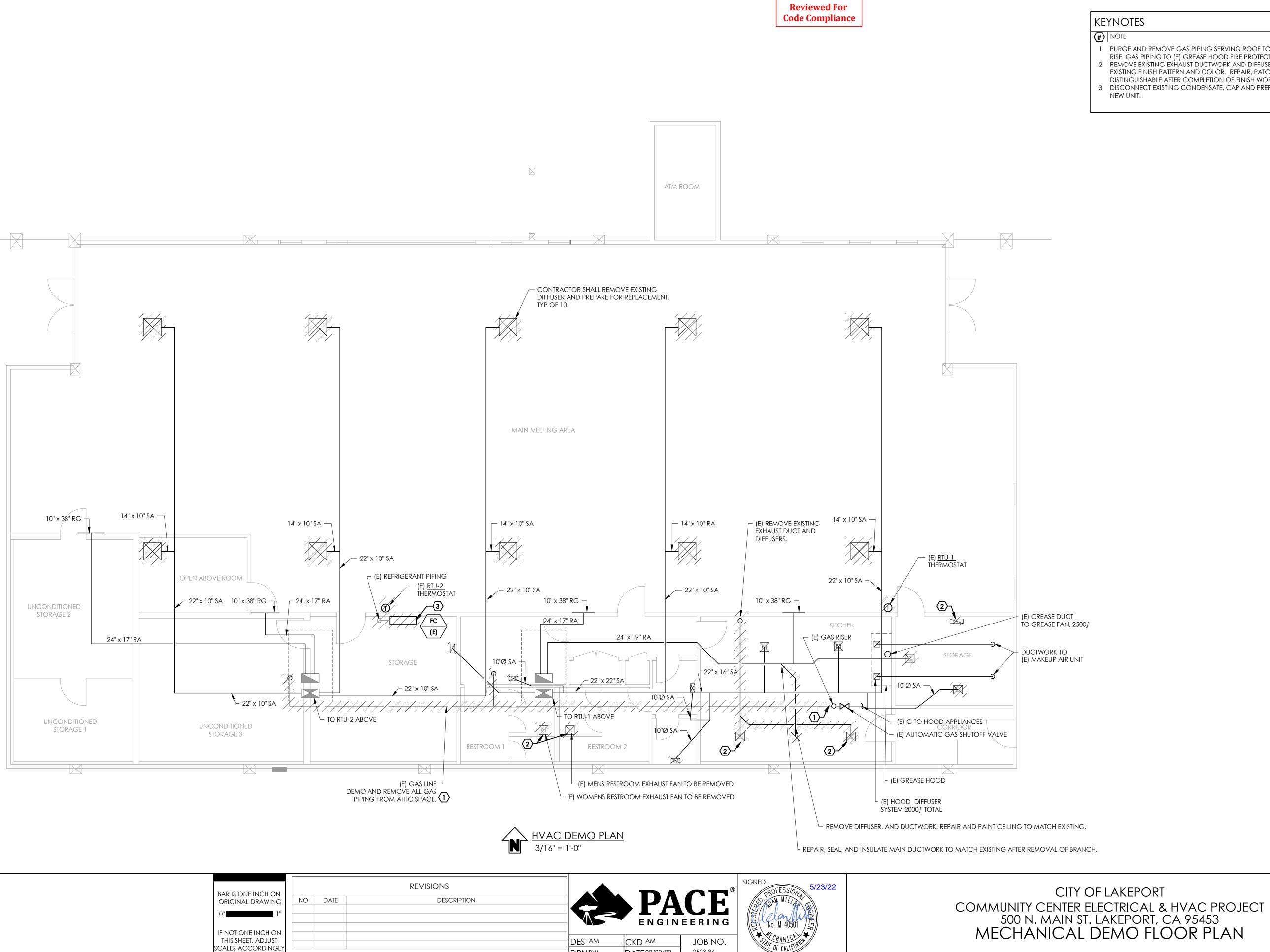
REVISIONS DESCRIPTION		PA ENGIN	CE EERING	SIGNED 5/23/22 PROFESSION STAN MILLAN THE SECONDARY MILLAN THE NO. M 40501	
	DES <u>Am</u>		JOB NO.	STATE OF CALIFORNIA	
	DRN ^{BW}	_ DATE ^{02/22/22}	0523.36	CF CALI	

1.	CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL PERMITS, AND INSPECTI
2.	INSTALLATION SHALL BE IN COMPLIANCE WITH ALL APPLICABLE CODES AND STAND
	INCLUDING BUT NOT LIMITED TO 2019 CALIFORNIA BUILDING, FIRE, ENERGY,
	MECHANICAL, AND PLUMBING CODES.

CITY OF LAKEPORT

COMMUNITY CENTER ELECTRICAL & HVAC PROJECT 500 N. MAIN ST. LAKEPORT, CA 95453 MECHANICAL SCHEDULES & LEGENDS

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_ DATE^{02/22/22}_

DES <u>Am</u>

DRN^{BW}

JOB NO.

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GENERAL NOTES

NOTE

4LEAF, INC.

Building

05/31/2022

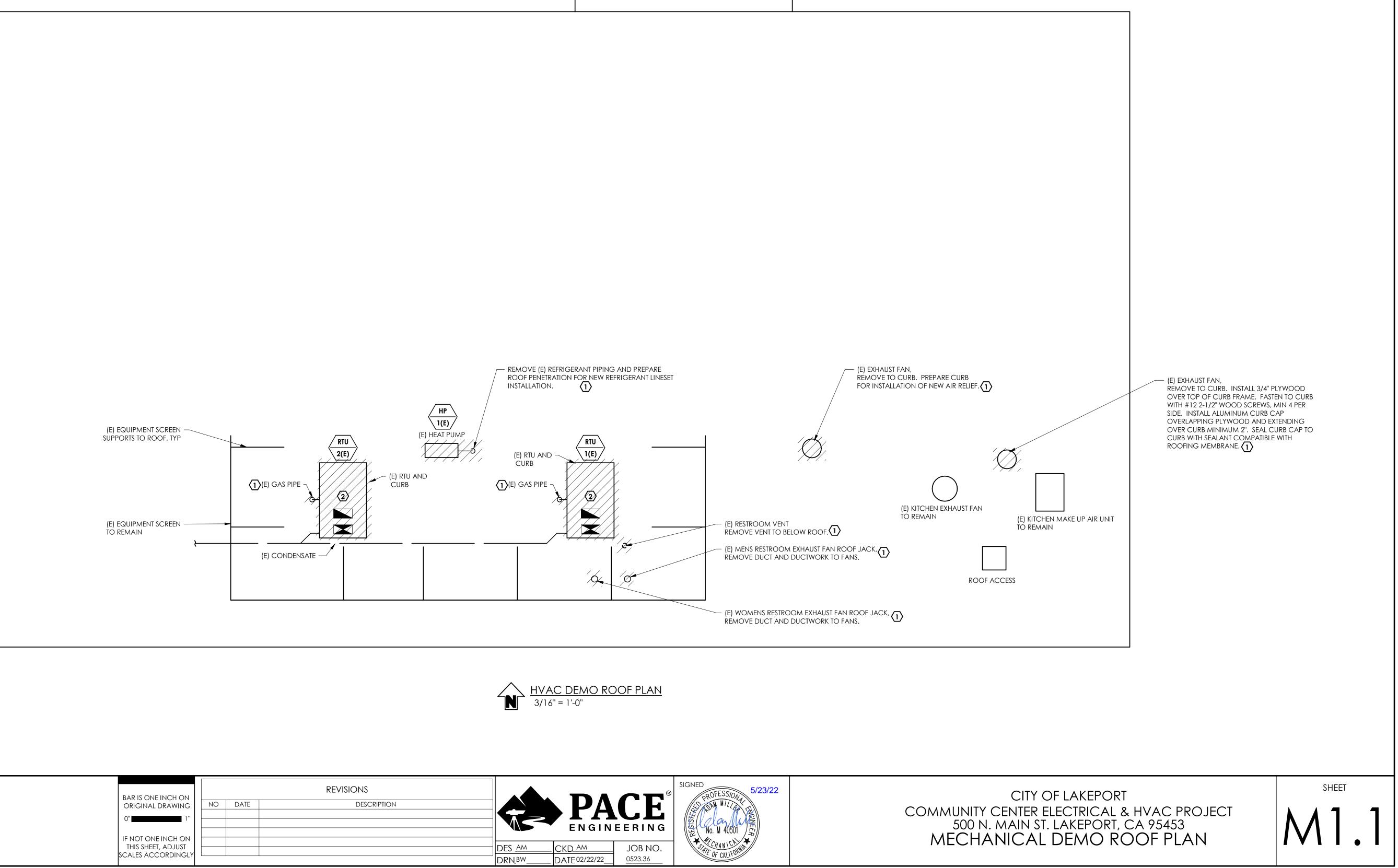
- 1. MAJORITY OF EXISTING RECTANGULAR DUCTWORK IS RIGID FIBER BOARD. DIMENSION ON DRAWINGS INDICATE MEASUREMENT FROM INTERIOR OF FIBER BOARD TO INTERIOR OF
- FIBER BOARD. 2. NO CHANGES TO EXISTING KITCHEN MAKEUP AIR UNIT OR HOOD EXHAUST FAN SHALL OCCUR.

KEYNOTES

- (#) NOTE
- 1. PURGE AND REMOVE GAS PIPING SERVING ROOF TOP UNITS. PLUG AT TEE NEAR GAS PIPE RISE. GAS PIPING TO (E) GREASE HOOD FIRE PROTECTION SYSTEM SHALL REMAIN. 2. REMOVE EXISTING EXHAUST DUCTWORK AND DIFFUSERS. REPAIR CEILING TO MATCH
- EXISTING FINISH PATTERN AND COLOR. REPAIR, PATCHWORK, AND COLOR SHALL NOT BE DISTINGUISHABLE AFTER COMPLETION OF FINISH WORK.
- 3. DISCONNECT EXISTING CONDENSATE, CAP AND PREPARE FOR FUTURE INSTALLATION ON NEW UNIT.

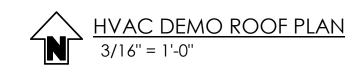
SHEET

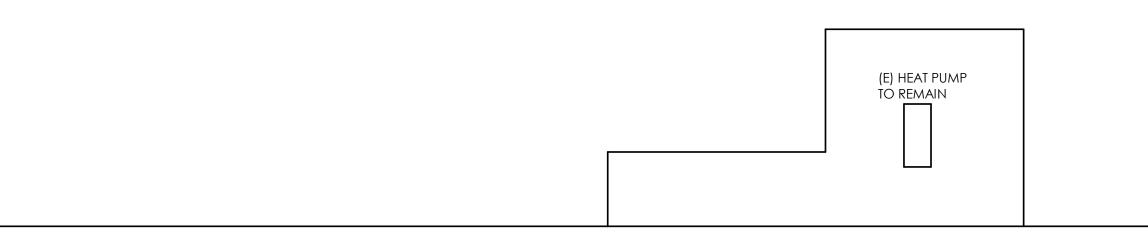
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REVISIONS DESCRIPTION			CE E E R I N G	SIGNED 5/23/22 PROFESSION 5/23/22	
			JOB NO.	SPACE CHANICAS	
	DRN_ ^{BW}	DATE02/22/22	0523.36	OT CALL	





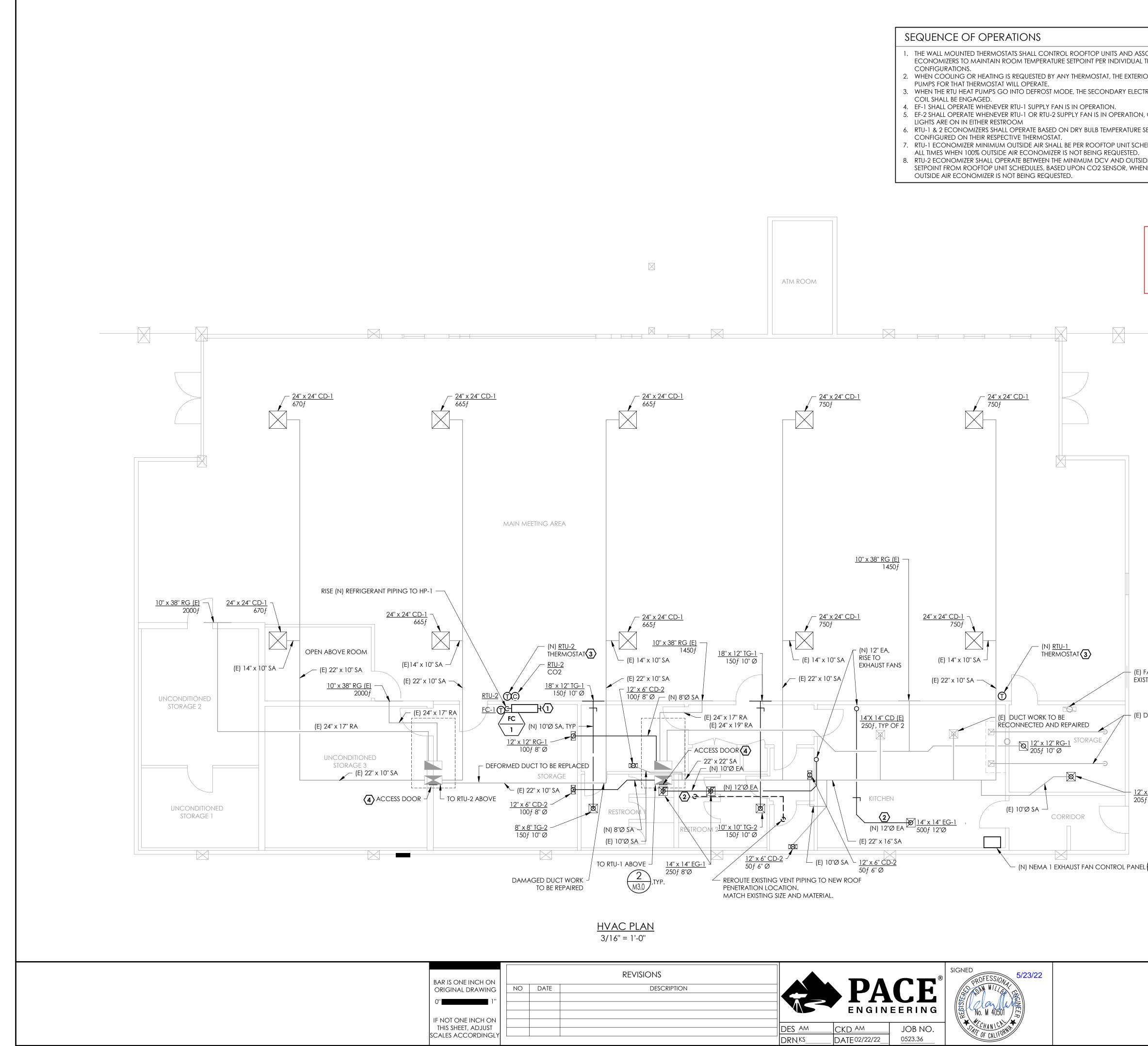
KEYNOTES (#) NOTE



1. REPAIR ROOF TO MATCH EXISTING STRUCTURE AND FINISH. CONTRACTOR SHALL REPAIR LOCATIONS SUCH THAT FINISH IS FLUSH AND OF STRUCTURAL INTEGRITY, MATCHING SURROUNDING AREA. REFER TO GENERAL NOTE 1. 2. CONTRACTOR SHALL REVIEW AND REPAIR ANY DAMAGE, IF IT EXISTS, TO EXISTING ROOFTOP UNIT CURBS BEFORE SETTING NEW EQUIPMENT.

GENERAL NOTES

- # NOTE
- 1. MODIFICATIONS, DAMAGE, NEW OPENINGS, OR CURB CHANGES CAUSED BY WORK BEING PERFORMED WITHIN SCOPE OF PROJECT SHALL BE REPAIR BY A LICENSED ROOFING CONTRACTOR. CONTRACTOR SHALL PROVIDE 10 YEAR WARRANTY ON ALL REPAIRS. ROOFING MEMBRANE, INSULATION, SEALING, AND STRUCTURE SHALL BE REPAIRED TO MATCH EXISTING AND SURROUNDING MATERIALS. ROOF SHALL BE MADE WATER TIGHT.



3/16" = 1'-0"

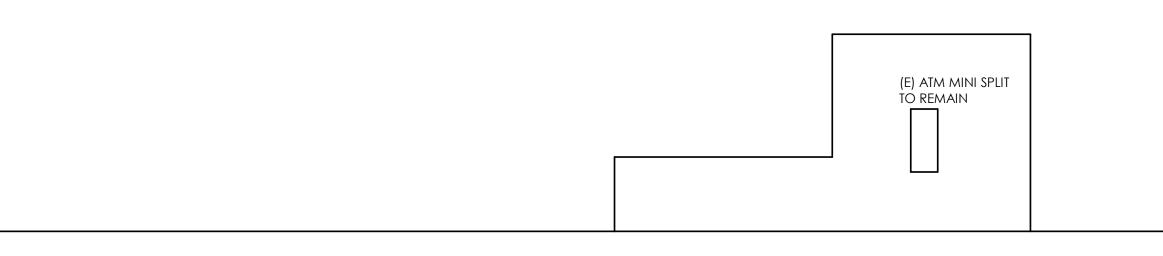
	KEYNOTES	
CIATED ERMOSTAT HEAT CAL HEAT	 NOTE CONNECT NEW CONDENSATE TO EXISTING CONDENSATE PIPING. INSTALL DUCTING HIGH AND TIGHT TO THE ROOF IN LOCATION THAT ALLOWS ACCESS TO ATTIC BEYOND DUCTWORK. REMAKE CONNECTION FROM THERMOSTAT TO NEW ECONOMIZER/HVAC UNITS. PROVIDE AND INSTALL ACCESS DOOR ON EXISTING DUCTWORK IN LOCATION THAT ALLOWS SERVICE OF SMOKE DETECTOR SENSOR WITHIN DUCT. ACCESS DOOR SHALL BE 	
R WHEN	MINIMUM 18" SQUARE, FACTORY MANUFACTURERED WITH SEALS, HINGE, AND CAM LOCK. DUCTMATE OR EQUAL.	
POINT ULE FOR	GENERAL NOTES	
AIR VER 100%	# NOTE 1. UPON COMPLETION/INSTALLATION OF THE NEW ROOFTOP AIR CONITIONING UNITS, THE DUCTWORK CONNECTED TO EACH UNIT SHALL BE SEALED AND PRESSURE TESTED. IN ACCORDANCE WITH 2019 CALIFORNIA ENERGY SECTIONS 141.0(B)2EII AND 141.0(B)2DII, DUCTWORK LEAKAGE SHALL BE LESS THAN 15% OF THE SYSTEM AIR CONDITIONING AIR FLOW. WHERE NOT POSSIBLE TO MEET LEAKAGE LIMITS, PROVIDE SMOKE TEST AND VISUAL INSPECTION BY CERTIFIED HERS RATER IN MANNER REQUIRED BY CODE SECTION ABOVE.	
4LEAF, INC. Building 05/31/2022 Reviewed For	 REPAIR ALL LEAK LOCATIONS. 2. ALL SUPPLY AND RETURN AIR DUCTWORK THAT HAS BEEN REPLACED SHALL BE MINIMUM R8 INSULATION. INSULATED FIBER BOARD DUCTWORK SHALL BE PROVIDED WITH INSULATION WRAP SUCH THAT THE SUM OF R VALUES OF THE INSULATED DUCTBOARD AND THE WRAP ARE MINIMUM R8. 3. WHERE FLEXIBLE DUCT IS TO BE REPLACED, CONTRACTOR SHALL PROVIDE RIGID SHEET METAL DUCTWORK WITH MINIMUM R8 INSULATION. CONTRACTOR MAY USE FLEXIBLE MINIMUM R8 DUCTWORK TO MAKE FINAL CONNECTIONS TO AIR TERMINALS WITH A MAXIMUM LENGTH OF 5'. 	
Code Compliance	 CONTRACTOR SHALL ADJUST AND SUPPORT EXISTING FLEXIBLE DUCTWORK TO REMOVE KINKS AND SAGS. CONTRACTOR SHALL ENSURE ALL NEW DIFFUSERS AND RETURN GRILLES HAVE VOLUME DAMPERS INSTALLED ON DUCTWORK IN ACCESSIBLE LOCATION. WHERE NOT POSSIBLE OR NOT ACCESSIBLE, CONTRACTOR SHALL PROVIDE OPPOSED BLADE DAMPERS INSTALLED WITH NEW DIFFUSERS OR GRILLES. ADDITIONAL VOLUME DAMPERS ARE NOT REQUIRED ON DIFFUSERS SERVING MAIN ROOM AS EXISTING DUCTWORK HAS EXISTING DAMPER IN ATTIC SPACE. 	
	 DIFFUSERS AND GRILLES SHALL BE REPLACED THROUGHOUT BUILDING. REFER TO PLANS AND SCHEDULES FOR LOCATIONS. RETURN GRILLES HIGH ON WALLS OF MAIN ROOM AND KITCHEN DIFFUSERS AND GRILLES TO REMAIN UNMODIFIED, UNLESS NOTED OTHERWISE. DO NOT INSTALL INSULATION ON DUCTWORK CONNECTED TO EF-1. INSTALLATION OF ALL EQUIPMENT SHALL BE IN ACCORDANCE WITH MANUFACTURER INSTALLATION INSTRUCTIONS AND RECOMMENDED PROCEDURES. CONTRACTOR SHALL EVALUATE AND REPAIR ALL DAMAGED DUCTWORK. NOTES ON DAMAGE AREAS IN DRAWINGS ARE NOT INTENDED AS A COMPLETE RECORD OF DAMAGE, AND ARE PROVIDED TO INDICATE MAJOR DAMAGE FOR THE CONTRACTOR TO EVALUATE. CO2 SENSOR SHALL BE INSTALLED AT 5'-0" AFF. THERMOSTAT SHALL BE INSTALLED WITH TOP 42" AFF. 	
	FUTURE DESIGN CONSIDERATION AND LIMITATIONS	
	 # NOTE 1. HVAC LOAD DESIGNS ARE BASED UPON ASSUMPTION THAT EXTERIOR WALLS WILL BE REMODELED IN FUTURE WITH WOOD FURRING AND BATT INSULATION OF R11 OR BETTER, AND WINDOWS SHALL BE REPLACED IN FUTURE WITH MINIMUM 2019 CALIFORNIA ENERGY CODE PRESCRIPTIVE ALTERATION REQUIREMENTS. SHOULD THE SPACE BE UTILIZED BEFORE THIS OCCURS, IT SHALL BE UNDERSTOOD THAT THE BUILDING SYSTEMS SHOULD NOT BE EXPECTED TO MAINTAIN COMFORTABLE TEMPERATURES AND/OR HUMIDITIES WITH LARGE 	
	 CROWDS DURING OUTDOOR EXTREME SUMMER AND WINTER TEMPERATURES. PER CONVERSATIONS OWNER AND REVIEW OF CONCEPTUAL DRAWINGS FOR FUTURE REMODEL, IT IS UNDERSTOOD THE NEW CONCEPTUAL MEETING AREA WILL BE DESIGNED FOR 220 PEOPLE WITH A MAX EXTERIOR DESIGN TEMPERATURE OF 105°F. DUE TO BUDGETARY RESTRAINTS AND IN AN EFFORT TO AVOID COST OF INSTALLING LARGER EQUIPMENT, SUPPORT STRUCTURES, AND POSSIBLE REPLACEMENT OF THE EXISTING DUCTWORK SYSTEMS, THE OWNER UNDERSTANDS THE DESIGN FOR THE BUILDING MAY EXPERIENCE HUMID CONDITIONS WHEN USED BY LARGE AMOUNTS OF PEOPLE ON HOT DAYS. THE TWO REPLACEMENT ROOF TOP UNITS WILL HAVE CAPACITY TO REMOVE THE SENSIBLE HEAT REQUIRED IN THE SPACE AFTER THE FUTURE REMODEL, BUT IF HUMIDITY ISSUES ARISE ON A CONTINUAL BASIS, IT SHALL BE UP TO THE OWNER TO PROVIDE ADDITIONAL 	
	DEHUMIDIFICATION EQUIPMENT. 3. IT IS OUR UNDERSTANDING THAT THE RESTROOM AND ANCILLARY AREAS MAY BE REMODELED IN THE FUTURE. AS SUCH, THE DESIGN CONTINUES TO MEETS THE CURRENT EXHAUST CODE REQUIREMENTS. NEW RESTROOM EXHAUST FANS ARE DESIGNED TO PROVIDE THE REQUIRED AMOUNT OF EXHAUST AIR FOR UP TO FIVE FUTURE STALLS/URINALS IN EACH RESTROOM, SHOULD IT BE REQUIRED DURING RENOVATION.	
N ON ROOF NG DUCTWORK TO REMAIN	 EXISTING RESTROOM DIFFUSERS WILL BE UPDATED IN THE SAME LOCATION. COOLING AND HEATING AIRFLOW IS DESIGNED TO ACCOMMODATE CONDITIONING FOR THE LARGER FUTURE RESTROOMS. NEW TRANSFER DUCTWORK FROM MEETING AREA, INTO EACH RESTROOM, ACCOMMODATES THE NEW INCREASED EXHAUST FANS AIRFLOW. DURING REMODEL IT 	
CTWORK	 SHOULD BE EXPECTED THE WALLS SEPARATING THE EXISTING RESTROOMS FROM ANCILLARY SPACES CAN BE REMOVED WITHOUT ADDITIONAL CHANGES TO THE HVAC SYSTEM. CONTRACTOR SHALL COORDINATE WITH OWNER TO ENSURE FINAL LOCATIONS OF EXHAUST AND TRANSFER GRILLES IN RESTROOMS ARE POSITIONED TO AVOID REWORK DURING FUTURE REMODEL. OWNER SHALL PROVIDE CONTRACTOR WITH EXPECTED FUTURE FLOOR PLAN AND RESTROOM LAYOUT. CONTRACTOR SHALL NOT BE RESPONSIBLE FOR CHANGES TO FUTURE FLOOR PLAN REMODEL THAT OCCUR AFTER OWNER HAS PROVIDED CONTRACTOR WITH THE EXPECTED FLOOR PLAN. 	
<u>2" CD-1</u> 0" Ø		
3 M3.0		

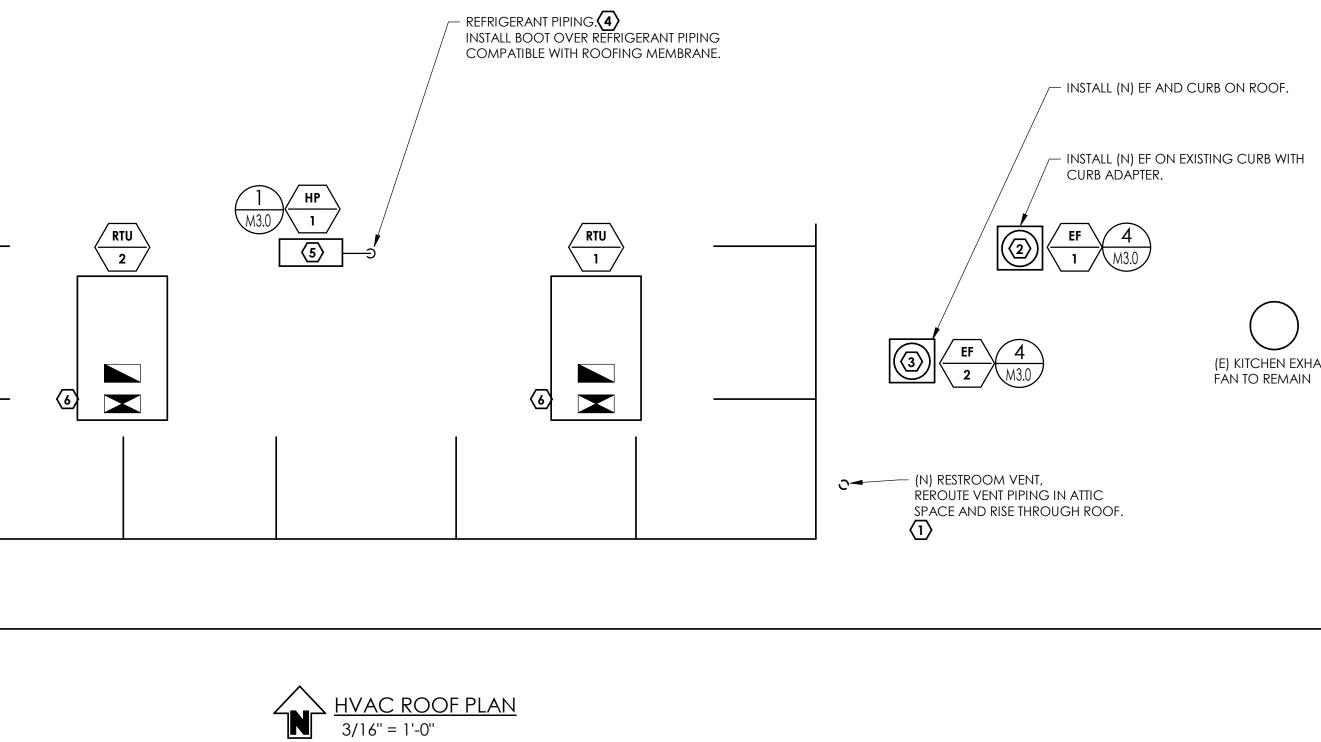
CITY OF LAKEPORT COMMUNITY CENTER ELECTRICAL & HVAC PROJECT 500 N. MAIN ST. LAKEPORT, CA 95453 HVAC FLOOR PLAN

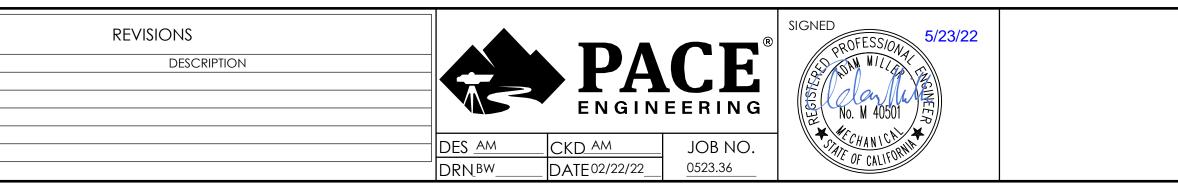
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	KEYNOTES
	(#) NOTE
ALEAF, INC. Building 05/31/2022 Reviewed For Code Compliance	 FINAL LOCATION SHALL BE MINIMUM 10' FROM FORCED AIR INTAKES AND 3' FROM OTHER OPENINGS INTO THE BUILDING. VENT PIPE MATERIAL SHALL MATCH EXISTING MATERIAL. PIPING EXTENSION, FITTINGS, SUPPORT AND INSTALLATION SHALL BE IN COMPLIANCE WITH 2019 CALIFORNIA PLUMBING CODE. PROVIDE WIRING AND RELAY CONTROLS SUCH THAT EF-1 TO OPERATES WHENEVER RTU-1 SUPPLY FAN IS IN OPERATION. PROVIDE WIRING AND RELAY CONTROLS SUCH THAT EF-2 OPERATES WHENEVER RTU-1 OR RTU-2 SUPPLY FAN IS IN OPERATION. CONTRACTOR SHALL SIZE REFRIGERANT PIPING IN ACCORDANCE WITH MANUFACTURER INSTALLATION REQUIREMENTS. REFRIGERANT PIPING LENGTH SHALL BE WITHIN MINIMUM AND MAXIMUM RANGE ALLOWED BY MANUFACTURER. INSULATE REFRIGERANT PIPING PER SPECIFICATIONS AND THE 2019 CALIFORNIA ENERGY CODE SECTION 120.3. MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING AND INSTALLING OF POWER AND SIGNAL WIRING BETWEEN HEAT PUMP AND FAN COIL. COORDINATE WITH THE ELECTRICAL INSTALLER FOR THE ROUGH IN. REMAKE CONNECTION TO CONDENSATE PIPING WITH TRAP, CLEANOUT AND VENT IN ACCORDANCE WITH 2019 CALIFORNIA PLUMBING CODE. ALL CONDENSATE PIPING SHALL MAINTAIN MIN 1/8"/FT DROP. PIPING MATERIAL SHALL MATCH EXISTING.
	GENERAL NOTES
	# NOTE
	 MODIFICATIONS, DAMAGE, NEW OPENINGS, OR CURB CHANGES CAUSED BY WORK BEING PERFORMED WITHIN SCOPE OF PROJECT SHALL BE REPAIR BY A LICENSED ROOFING CONTRACTOR. CONTRACTOR SHALL PROVIDE 10 YEAR WARRANTY ON ALL REPAIRS. ROOFING MEMBRANE, INSULATION, SEALING, AND STRUCTURE SHALL BE REPAIRED TO MATCH EXISTING AND SURROUNDING MATERIALS. ROOF SHALL BE MADE WATER TIGHT.

(E) KITCHEN EXHAUST FAN TO REMAIN



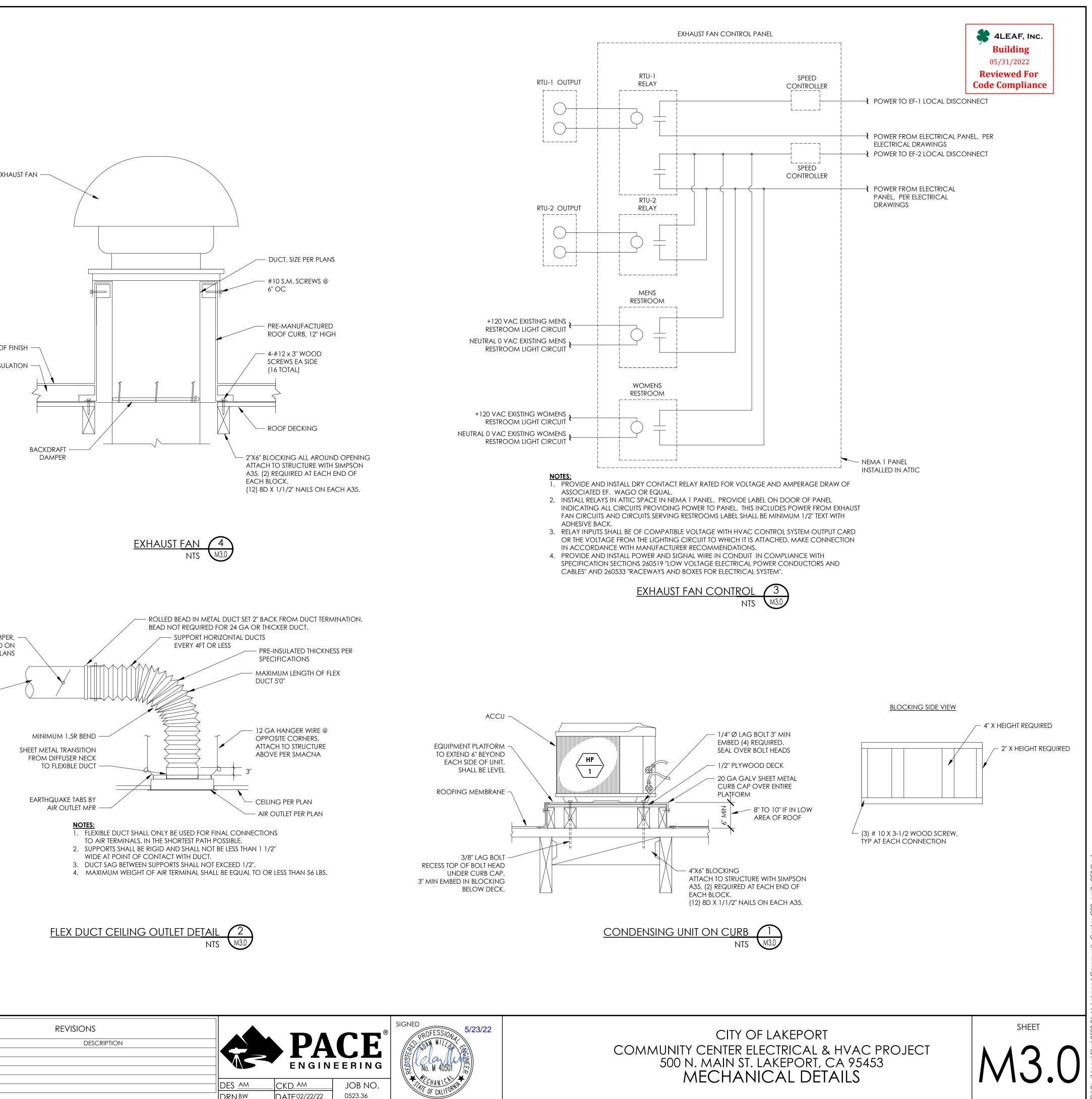


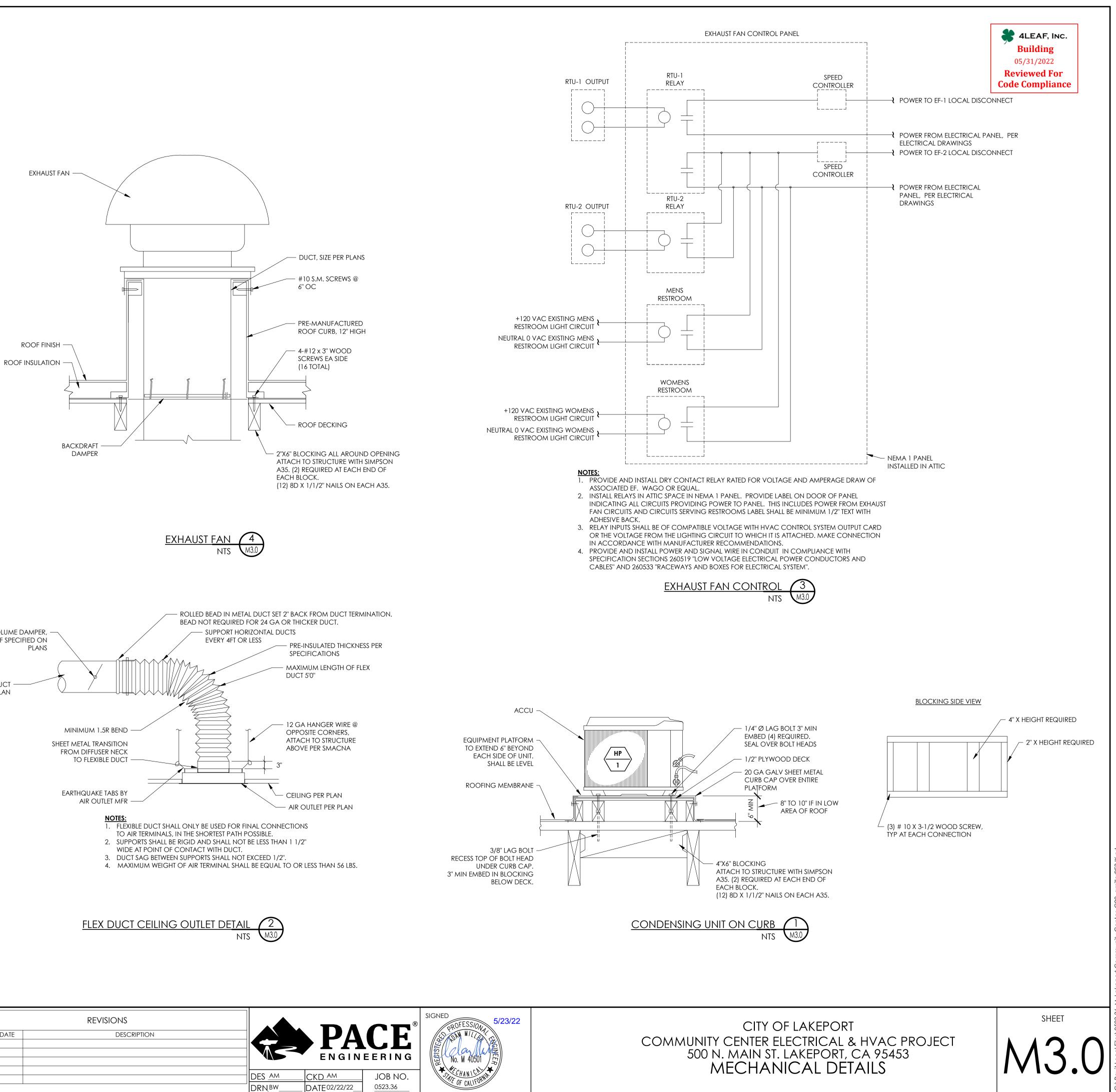
CITY OF LAKEPORT COMMUNITY CENTER ELECTRICAL & HVAC PROJECT 500 N. MAIN ST. LAKEPORT, CA 95453 HVAC ROOF PLAN

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STATE OF CALIFORNIA Mechanical Systems NRCC-MCH-E (Created 09/2020)

4LEAF, INC. Building
05/31/2022
Reviewed For Code Compliance

CERTIFICATE OF COMPLIANCE This document is used to demonstrate compliance for mechanical systems that are within the score prescriptive path outlined in <u>§140.4</u>, or <u>§141.0(b)2</u> for alterations. Project Name: Lakeport Community Center Project Address: 500 N Main St A. GENERAL INFORMATION 01 Project Location (city) Lakeport 02 Climate Zone 05 03 Occupancy Types Within Project: 06 # Office (B) Retail (M) Hotel/ Motel Guest Rooms (R-1) School (E) He High-Rise Residential (R-2/R-3) Relocatable Class Bldg (E) 🖌 Oth ¹ FOOTNOTES: Climate zone can be determined on the California Energy Commission's website at B. PROJECT SCOPE Table Instructions: Include any mechanical systems that are within the scope of the permit applic <u>§140.4</u>, or <u>§141.0(b)2</u> for alterations. My project consists of (check

		01			02						
		Air System	(s)				We	et System Com	p		
🖌 Heating Ai	r Sys	tem				Water Economizer					
✓ Cooling Ai	r Syst	em				Pumps					
	l	Mechanical Co	ntrol	S		Hydronic System Piping					
Mechanica	al Cor	ntrols (existing	or	Cooling To	owers						
new)				Chillers							
				Boilers							
C. COMPLIAN	NCE I	RESULTS									
Table Instructi	ions:	If any cell on t	his ta	ble says "DOES	S NOT	COMPLY" or "	сом	PLIES with Exc	ер		
01		02		03		04		05			
	AND	Pumps §140.4(k)	AND	Fans/ Economizers §140.4(c),	AND		AND	Ventilation §120.1	A		
<u>§110.2</u> , <u>§140.4</u>		<u>3170.7(N)</u>		<u>§140.4(e)</u>		<u>§120.2</u> , <u>§140.4(f)</u>					

STATE OF CALIFORN Mechanical NRCC-MCH-E (Create	Systems ed 09/2020)								CALIFORNIA ENERGY C		
CERTIFICATE OF										NRCC-MCH-E	
Project Name:	Lakeport Comm	unity Center					Report Page: Pag				
Project Address	500 N Main St						Date Prepa	ared:		2022-04-11	
01	02		03	04	05	06		07	08		
Fan Name or	n Name or Fan Function		Qty	Maximum Design Supply Airflow	HP Unit ²	Design	Fan	Power Pressure Di	rop Adjustment - <u>Table 2</u>	<u>140.4-B</u>	
Item Tag	Turrane		Qty	(CFM)	in onit	HP	[Device	Design Airflow throu	gh Device (CFM)	
SUPPLY	Suppl	y	1	4,000	Nameplate	2.75	Non	ie used			
		,			HP		Calculated Adjustment (in H ₂ O)				
Total System	Design Supply Ai	rflow (CEM):	4,000	Tota	I System Design	(B)HD-	2.75	Maximum Sv	stem Fan Power (B)HP:		
System Name:	RTU-2	Economizer: ¹	, ,	xed Temperature	Economiz Controls:		ned per §140.4 and (m)	· · ·	. ,		
01	02		03	04	05	06		07	08		
Fan Name or	Fan Func	tion	Qty	Maximum Design Supply Airflow	HP Unit ²	Design	Fan	Power Pressure Di	rop Adjustment - <u>Table 2</u>	<u>140.4-B</u>	
Item Tag	i an i unc	lion	Qty	(CFM)		HP	I	Device	Design Airflow throug	gh Device (CFM)	
SUPPLY	Suppl	v	1	4,000	Nameplate	2.75	Non	ie used			
		,		,	HP		Calculated A	djustment (in H ₂ O)			
Total System	Design Supply Ai	rflow (CFM):	4,000) Tota	Il System Desigr	n (B)HP:	2.75	Maximum Sy	stem Fan Power (B)HP:		
	or HP must be co				. <u>9(a)</u> and will be	document	red on the NRC	C-PRC-E document.			

STATE OF CALIFORN Mechanical NRCC-MCH-E (Create	Systems								CALIFORNIA ENERGY C		
CERTIFICATE OF	COMPLIANCE									NRCC-MCH-E	
Project Name:	Lakeport Comm	nunity Center					Report Page: Page				
Project Address	500 N Main St						Date Prepa	ared:		2022-04-11	
01	02		03	04	05	06		07	08		
Fan Name or	Fan Func	tion	Qty	Maximum Design Supply Airflow	HP Unit ²	Design	Fan	Power Pressure Dr	rop Adjustment - <u>Table :</u>	<u>140.4-B</u>	
Item Tag	FairFuirc		Qty	(CFM)	HP UNIT*	HP	ſ	Device	Design Airflow throu	gh Device (CFM)	
SUPPLY	Suppl	v	1	4,000	Nameplate	2.75	None used				
		·			HP		Calculated A	d Adjustment (in H ₂ O)			
									·		
Total System	Design Supply Ai	rflow (CFM):	4,000	Tota	l System Design		2.75		stem Fan Power (B)HP:		
System Name:	RTU-2	Economizer: ¹	Fix	ed Temperature	Economize Controls:	er Desigi	ned per §140.4 and (m)	l(e) System Fan Type:	Constant	Volume	
01	02		03	04	05	06		07	08		
Fan Name or	Fan Func	tion	Qty	Maximum Design Supply Airflow	HP Unit ²	Design	Fan	Power Pressure Dr	Prop Adjustment - <u>Table 140.4-B</u>		
Item Tag	Turr une		Qty	(CFM)		HP	I	Device	Design Airflow throug	gh Device (CFM)	
SUPPLY	Suppl	v	1	4,000	Nameplate	2.75	Non	e used			
		,		,	HP		Calculated A	djustment (in H ₂ O)			
Total System	Design Supply Ai	rflow (CFM):	4,000	Tota	l System Design	(B)HP:	2.75	Maximum Sy	stem Fan Power (B)HP:		
	for HP must be co				<u>.9(a)</u> and will be	document	ed on the NRC	C-PRC-E document.			

I. SYSTEM CONTROLS Table Instructions: Complete the following Table to demonstrate compliance with mandatory controls in §110.2 and §120.2 and prescriptive controls in §140.4(f) and (n) or requirements in <u>§141.0(b)2E</u> for altered space conditioning systems. Table Continued

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance: http://www.energy.ca.gov/title24/2019standards

·	Created 09/20		CALIFORM	NIA ENERGY COMI	
	E OF COMP				NRCC-MCI
roject Nam	ie: Laker ress: 500 M	,	eport Page: ate Prepared:		Page 7 of 2022-04
					2022-04
Table Instru	ictions: Sel	REQUIRED CERTIFICATES OF ACCEPTANCE ections have been made based on information provided in previous tables of this docu narks. These documents must be provided to the building inspector during constructio			
itle24/2019	estandards/	/2019_compliance_documents/Nonresidential_Documents/NRCA/		Field Ir	spector
YES	NO	Form/Title	Systems To Be Field Verified	Pass	Fail
۲	О	NRCA-MCH-02-A Outdoor Air must be submitted for all newly installed HVAC units. Note: MCH02-A can be performed in conjunction with MCH-07-A Supply Fan VFD Acceptance (if applicable) since testing activities overlap.			
0	۲	NRCA-MCH-03-A Constant Volume Single Zone HVAC NOTE: This form does not automatically move to "Yes". If Constant Volume Single Zo HVAC Systems are included in the scope, permit applicant should move this form to "Yes".	one		
0	۲	NRCA-MCH-04-A Air Distribution Duct Leakage			
۲	0	NRCA-MCH-05-A Air Economizer Controls			
0	۲	NRCA-MCH-06-A Demand Control Ventilation Systems Acceptance must be submitt for all systems required to employ demand controlled ventilation (refer to §120.1(c can vary outside ventilation flow rates based on maintaining interior carbon dioxide (CO2) concentration setpoints.)3)		
0	۲	NRCA-MCH-07-A Supply Fan Variable Flow Controls			
0	۲	NRCA-MCH-08-A Valve Leakage Test			
0	۲	NRCA-MCH-09-A Supply Water Temperature Reset Controls			
0	۲	NRCA-MCH-10-A Hydronic System Variable Flow Controls			
0	۲	NRCA-MCH-11-A Automatic Demand Shed Controls			

REVISIONS

DESCRIPTION

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance: http://www.energy.ca.gov/title24/2019standards

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CA Building Ene														i	September 2020
								Ν	/landa	tory Measure	s Con	npliance (See	Table	Q for Details)	COMPLIES
Yes	AND		AND	Yes	AND	Yes	AND	Yes	AND		AND		AND		COMPLIES
(See Table F)		(See Table G)		(See Table H)		(See Table I)		(See Table J)		(See Table K)		(See Table L)		(See Table M)	
System Summary <u>§110.1</u> , <u>§110.2</u> , <u>§140.4</u>	AND	Pumps <u>§140.4(k)</u>	AND	Fans/ Economizers §140.4(c), §140.4(e)	AND	System Controls §110.2, §120.2, §140.4(f)	AND	Ventilation §120.1	AND	Terminal Box Controls §140.4(d)	AND	Distribution <u>§120.3,</u> §140.4(l)	AND	Cooling Towers §110.2(e)2	Compliance Results
01		02		03		04		05		06		07		08	09
			his ta	ble says "DOEs	S NOT	COMPLY" or '	'сомі	PLIES with Exc	eptio	nal Conditions	' refe	r to Table D. fo	or gui	dance.	
C. COMPLIA		RESILITS													?
						Boilers						Zonal Sys	tems/	Terminal Boxe	5
new)						Chillers					✓ Ventilation				
Mechanic	al Cor	ntrols (existing	g to re	main, altered	or	Cooling Towers					Ductwork (existing to remain, altered or new)				
	I	Mechanical Co	ontrol	S		U Hydronic System Piping					✓ Fan Systems				
✓ Cooling Ai	ir Syst	em				 Pumps					Electric Resistance Heat				
✓ Heating A	ir Sys		. ,			Water Economizer					Air Econo				
		Air System	(s)				Wet System Components						D	ry System Com	oonents
		01				iviy pi	oject	02	icck d	in that apply/				03	
<u>§140.4</u> , or <u>§14</u>	41.0(b	<u>)2</u> for alterati	ons.	·		Mum	oiect	consists of la	hock	all that apply)		- •			·
			echan	ical systems th	nat are	e within the sc	ope o	of the permit a	pplicc	ition and are a	emor	strating comp	liance	e using the pres	criptive path outlined in
B. PROJECT	SCOP	E													7
¹ FOOTNOTES	: Clim	ate zone can k	be det	ermined on th	e Calif	fornia Energy	Comm	nission's webs	ite at	http://www.ei	nergy.	.ca.gov/maps/	/renev	vable/building_	climate_zones.html
High-Rise	Resid	ential (R-2/R-3	3)	Relo	catab	le Class Bldg (I	E)	\checkmark] Othe	er (Write In):			Mu	lti-purpose	
Hotel/ Mo	otel G	uest Rooms (F	R-1)	Scho	ol (E)] Heal	thcare Facility	(1)				
Office (B)				Reta	il (M)				Non	-refrigerated V	Vareh	ouse (S)			
03 Occupar	псу Ту	pes Within Pro	oject:					0	6 # o	f Stories (Habi	table	Above Grade)			1
02 Climate		. ,,				2		0.	5 Tot	al Uncondition	ned Fl	oor Area			670
01 Project L						Lakeport 04 Total Conditioned Floor					r Area			5,720	
A. GENERAL										pute	. rep				2022 04 1
Project Addre			Turnity	Center							Prepa				2022-04-1
Project Name		akeport Comm		<u>§141.0(b)2</u> fo	raiter	auons.				Repo	rt Do				Page 1 of 12
						,	ns tha	t are within th	ie sco	pe of the perm	it app	olication and a	re de	monstrating coi	mpliance using the
CERTIFICATE (NRCC-MCH-
NRCC-MCH-E (Cre														CALIFORNIA I	
STATE OF CALIFO		ustems													A COLOR

STATE OF CALIFORNIA		
Mechanical Systems		
NRCC-MCH-E (Created 09/2020)	CAL	IFORNIA ENERGY COMMISSION
CERTIFICATE OF COMPLIANCE		NRCC-MCH-E
Project Name: Lakeport Community Center	Report Page:	Page 2 of 11
Project Address: 500 N Main St	Date Prepared:	2022-04-11
D. EXCEPTIONAL CONDITIONS		2
This table is auto-filled with uneditable comments because of selections made or data e	entered in tables throughout the form.	
Table H indicates a Fan Power System Index that exceeds the maximum allowed per §1 Selections made in Table O have been changed by the permit applicant. See Table E. Ar		
E. ADDITIONAL REMARKS		2
This table includes remarks made by the permit applicant to the Authority Having Jurise	diction.	

	SYSTEM SUMMARY (DR)	,								?	
		owing equipment schedules to show complian	nce with mandatory r	equiremen	ts found in	<u>§110.1</u> and	d <u>§110.2(a</u>)	and presc	riptive requ	uirements	
-	1 // - 1 // -	<u>40.4(k)</u> or <u>§141.0(b)2</u> for alterations.									
	Dry System Equipment Sizing (includes air conditioners, condensers, heat pumps, VRF, furnaces and unit heaters)										
01	02	03	04	05	06	07	08	09	10	11	
				Equip	ment Sizing	g per Mech	anical Sche	edule (kBtu	ı/h) <u>§140.4</u>	<u>(a&b)</u>	
				Hea	ating Outpu	ut ^{2,3}	Cooling	Output ^{2,3}	Load Calculations ^{3,4}		
Name or Item Tag	Equipment Category per Tables 110.2	Equipment Type per Tables 110.2 & <u>Title 20</u>	Smallest Size Available ¹ <u>§140.4(a)</u>	Per Design (kBtu/h)	Rated (kBtu/h)	Supp. Heating Output (kBtu/h)	Sensible Per Design (kBtu/h)	Rated (kBtu/h)	Total Heating Load (kBtu/h)	Total Sensible Cooling Load (kBtu/h)	
RTU-1	Unitary heat pumps	Air cooled, package (3 phase)	Yes	77	106	61.47	104.45	118	28.2	83.4	
RTU-2	Unitary heat pumps	Air cooled, package (3 phase)	Yes	77	106	61.47	104.45	118	24.1	86.2	
HP-1	Unitary heat pumps	Air cooled, package (1 phase)	Yes	24.6	16	0	23.6	22.4	24.6	23.6	
Table Con	tinued										

Mechanical	09/2020)					c	ALIFORNIA ENERGY C	
CERTIFICATE OF (NRCC-MCI
,	Lakeport Commu	nity Center			Report P	•		Page 5 of 2022-04
Project Address: 500 N Main St Date Prepared:								
01	02	03	04	05	06	07	08	09
System Name	System Zoning	Conditioned Floor Area Being Served (ft ²)	Thermostats <u>§110.2(b) & (c)</u> 1, <u>§120.2(a)</u> or <u>§141.0(b)2E</u>	Shut-Off Controls <u>§120.2(e)</u>	Isolation Zone Controls §120.2(g)	Demand Response §110.12 and §120.2(b)	Supply Air Temp. Reset §140.4(f)	Window Interlocks p <u>§140.4(n)</u>
RTU-1	multi-zone	≤ 25,000 ft²	Setback Thermostat	Auto Timeswitch	NA: Single Zone	DR Tstat per §110.12	NA: Single Zone	NA: No operable windows
RTU-2	multi-zone	≤ 25,000 ft²	Setback Thermostat	Auto Timeswitch	NA: Single Zone	DR Tstat per §110.12 NA: Single Zone		NA: No operable windows
FC-1	single zone	≤ 25,000 ft²	Setback Thermostat	Auto Timeswitch	NA: Single Zone	DR Tstat per §110.12	NA: Single Zone	NA: No operable windows

required to have setback thermostats. * NOTES: Controls with a * require a note in the space below explaining how compliance is achieved. EX: System 1: SA Temp Reset: Exempt because zones compliant with <u>§140.4(d)</u>; EXCEPTION 1 to <u>§140.4(f)</u>

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance: http://www.energy.ca.gov/title24/2019standards

J. VENTILATION AND INDOOR AIR QUALITY

J. VENTILATION									
Table Instructions	Table Instructions: Complete the following Table to demonstrate compliance with mandatory ventilation requirements in <u>§120.1</u> and <u>§120.2(e)3B</u> for all nonresidential, high-rise								
residential and hotel/motel occupancies. For alterations, only ventilation systems being altered within the scope of the permit application need to be documented in this table.									
In lieu of this tabl	le, the required outdoor ventilation rates and airflows may be shown on the plans or the calculations can be presented in a spreadsheet.								
01	Check the box if the project is showing ventilation calculations on the plans, or attaching the calculations instead of completing this table.								
02	Check this box if the project includes Nonresidential or Hotel/Motel spaces								
	Check this box if the project includes new or altered high-rise residential dwelling units								
03	Check the box if the project is using natural ventilation in any spaces to meet required ventilation rates per <u>§120.1(c)2</u> .								

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Mechanic					
NRCC-MCH-E (Cre			CALIFOR	NIA ENERGY COM	
Project Name			Report Page:		Page 8 of 11
Project Addre		, ,	Date Prepared:		2022-04-12
0	۲	NRCA-MCH-12-A FDD for Packaged Direct Expansion Units			
۲	0	NRCA-MCH-13-A Automatic FDD for Air Handling Units and Zone Terminal Units Acceptance			
0	۲	NRCA-MCH-14-A Distributed Energy Storage DX AC Systems Acceptance NOTE: This form does not automatically move to "Yes". If Distributed Energy Storag AC Systems are included in the scope, permit applicant should move this form to "Y	5		
0	۲	NRCA-MCH-15-A Thermal Energy Storage (TES) System Acceptance NOTE: This form does not automatically move to "Yes". If Chilled Water Storage, Ic Coil Internal Melt, Ice-on-Coil External Melt, Ice Harvester, Brine, Ice-Slurry, Eutectu Salt, Clathrate Hydrate Slurry (CHS), Cryogenic or Encapulated (Ice Ball) Systems ar included in the scope, permit applicant should move this form to "Yes".	ic		
0	۲	NRCA-MCH-16-A Supply Air Temperature Reset Controls			
0	۲	NRCA-MCH-17-A Condenser Water Temperature Reset Controls			
0	۲	NRCA-MCH-18 Energy Management Control Systems			
0	۲	NRCA-MCH-19 Occupancy Sensor Controls			
0	۲	NRCA-MCH-20 Multi-Family Ventilation			
0	۲	NRCA-MCH-21 Multi-Family Envelope Leakage			



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Table Continued		

 ¹ FOOTNOTES: Equipment shall be the smallest size, within the available options of the desired equipment line, necessary to meet the design heating and cooling loads of the building per <u>§140.4(a)</u>. Healthcare facilities are excepted. ² It is common practice to show rated output capacity on the equipment schedule. Sensible cooling output comes from specification sheet tables. ³ If equipment is heating only, leave cooling output and load blank. If equipment is cooling only, leave heating output and load blank. ⁴ Authority Having Jurisdiction may ask for load calculations used for compliance per <u>§140.4(b)</u>. Dry System Equipment Efficiency (other than Package Terminal Air Conditioners (PTAC) and Package Terminal Heat Pumps (PTHP)) 								
01	02	03	04	05	06	07	08	09
			Cooling Mode					
Name or Item Tag	Size Category (Btu/h)	Rating Condition (°F)	Efficiency Unit	Min Efficiency Required per Tables 110.2/ Title 20	Design Efficiency	Efficiency Unit	Min Efficiency Required per Tables 110.2/ <u>Title 20</u>	Design Efficiency
RTU-1	≥65,000 and <135,000	47%5-11- /42%5-11- OCA	СОР	3.3	3.3	EER	11	11.5
KIO-I	203,000 and <133,000	47°Fdb/43°Fwb OSA	COP		3.3	IEER	12.2	15.5
RTU-2	≥65.000 and <135.000	47°Fdb/43°Fwb OSA	COP	3.3	3.3	EER	11	11.5
N10-2	203,000 and <133,000	47 FUD/45 FWD OSA	COP	3.3	3.3	IEER	12.2	15.5
HP-1	<65,000		HSPF	8	10	SEER	14	20.5
	<05,000			0	10			

G. PUMPS

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This Section Doe	s Not Apply						
H. FAN SYSTEN	1S & AIR ECON	IOMIZERS					<u>(</u>
Table Instructions: Complete the following Table for fan systems to demonstrate compliance with prescriptive requirements found in <u>\$140.4(c)</u> , <u>\$140.4(e)</u> and <u>\$140.4(m)</u> . First document the system details, then add fans within that system to document compliance with fan power requirements. Fan systems serving only process loads are exempt from these requirements and do not need to be included in Table H.							
System Name:	RTU-1	Economizer: ¹	Fixed Temperature	Economizer Controls:	Designed per §140.4(e) and (m)	System Fan Type:	Constant Volume
Table Continued					1		1

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¹ FOOTNOTES: System CFM should include both mechanical and natural ventilation for the zone/system.

² Air filtration requirements apply to the following three system types per <u>§120.1(c)1A</u>: space conditioning systems utilizing ducts to supply air to occupiable space; supply-only ventilation systems providing outside air to occupiable space; supply side of balanced ventilation systems including heat recovery and energy recovery ventilation systems providing outside air to occupiable space.

³ Uniform Mechanical Code may have more stringent ventilation requirements; the most stringent code requirement takes precedence. ⁴ See <u>Standards Tables 120.1</u>-A and 120.1-B

⁵ For lecture halls with fixed seating, the expected number of occupants shall be determined in accordance with the California Building Code.

⁶ <u>§120.2(e)3</u> requires systems serving rooms that are required by <u>§130.1(c)</u> to have lighting occupancy sensing controls to also have occupancy sensing zone controls for ventilation. Examples of spaces which require lighting occupancy sensors include offices 250ft² or smaller, multipurpose rooms less than 1,000ft², classrooms, conference rooms, restrooms, aisles and open areas in warehouses, library book stack aisles, corridors, stairwells, parking garages, and loading and unloading zones, unless excepted by <u>§130.1(c)</u>.

K. TERMINAL BOX CONTROLS

This Section	Does Not A	ply			
L. DISTRIB		CTWORK AND PIPING)			?
This Section	Does Not A	pply			
M. COOLIN	IG TOWERS	;			?
This Section	Does Not A	pply			
N. DECLAR	ATION OF F	REQUIRED CERTIFICATES OF INSTALLATION			2
Table E. Add	litional Remo	tions have been made based on information provided in previous tables of this document. arks. These documents must be provided to the building inspector during construction and 1019_compliance_documents/Nonresidential_Documents/NRCI/	, , , , , , , , , , , , , , , , , , , ,	7.1	,
YES NO	NO	Form/Title	Systems To Be Field Verified	Field In	spector
TES	NO	ronny nue	Systems to be rield vermed	Pass	Fail
۲		NRCI-MCH-01-E - Must be submitted for all buildings.			

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance: http://www.energy.ca.gov/title24/2019standards

STATE OF CALIFOR		S				
NRCC-MCH-E (Created 9/2020) CALIFORNIA ENER						
CERTIFICATE O	DF COMPLIAN	CE		NRCC-MCH-E		
Project Name	Lakeport	Community Center Report Page:		Page 9 of 11		
Project Addre	ss: 500 N Ma	in St Date Prepared:		2022-04-11		
P. DECLARAT	ION OF REC	UIRED CERTIFICATES OF VERIFICATION		2		
Table E. Addit	ional Remarks IERS Providers	is have been made based on information provided in previous tables of this document. If any selection needs to be chang 5. These documents must be completed by a HERS Rater and provided to the building inspector during construction. The 5 registry, but drafts can be found online at <u>https://www.energy.ca.gov/title24/2019standards/2019_</u> compliance_docur <u>/NRCV/</u>	final documents	· ·		
YES	NO	Form/Title		spector		
TLS	NO			Fail		
0	۲	NRCV-MCH-04-H Duct Leakage Test NOTE: Must be completed by a HERS Rater				
0	۲	NRCV-MCH-24 Enclosure Air Leakage Worksheet NOTE: Must be completed by a HERS Rater				
0	۲	NRCV-MCH-27 High-rise Residential NOTE: Must be completed by a HERS Rater				
0	۲	NRCV-MCH-32 Local Mechanical Exhaust NOTE: Must be completed by a HERS Rater				

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CITY OF LAKEPORT COMMUNITY CENTER ELECTRICAL & HVAC PROJECT 500 N. MAIN ST. LAKEPORT, CA 95453 TITLE 24 COMPLIANCE DOCUMENTS

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance: http://www.energy.ca.gov/title24/2019standards

bar is one inch on			
ORIGINAL DRAWING	NO	DATE	
0"			
IF NOT ONE INCH ON			
THIS SHEET, ADJUST			
scales accordingly			

STATE OF CALIFORNIA

CERTIFICATE OF COMPLIANCE			NR	
Project Name: Lakeport Community Center		Report Page:	Pag	
Project Address: 500 N Main St		Date Prepared:	2	
Q. MANDATORY MEASURES DOCUMENTATION LOCATIO	ON			
Table Instructions: Indicate where mandatory measures are do		onstruction documentation. For any mandatory me	asures that do not apply	
the plan sheet or construction document location as "N/A", any				
		02		
01		Plan sheet or construction docu	ument location	
Compliance with Mandatory Measures documented through	No			
MCH Mandatory Measures Note Block:	NO			
03		04		
Mandatory Measure		Plan sheet or construction document location		
Heating Equipment Efficiency per §110.1		M0.1		
Cooling Equipment Efficiency per <u>§110.1</u>		M0.1		
Furnace Standby Loss Control per <u>§110.2(d)</u>		NA		
Duct Insulation per §120.4		Specification 230713		
Heating Hot Water Equipment Efficiency per §110.1		NA		
Cooling Chilled and Condenser Water Equipment Efficiency per	r <u>§110.1</u>	NA		
Open and Closed Circuit Cooling Towers conductivity of flow-b	ased controls per §110.2(e)1	NA		
Open and Closed Circuit Cooling Towers Flow Meter with analog	og output per <u>§110.2(e)3</u>	NA		
Open and Closed Circuit Cooling Towers Overflow Alarm per §	110.2(e)4	NA		
Open and Closed Circuit Cooling Towers Efficient Drift Eliminat	ors per <u>§110.2(e)5</u>	NA		
Pipe Insulation per §120.3(b)	NA			
Combustion air shutoff, combustion air fan controls and stack boilers per $\underline{\$120.9}$	NA			
Heat Pump with Supplementary Electric Resistance Heater Cor	M0.1			
The air duct and plenum system is designed per <u>§120.4(a)-(f)</u>		NA		
Kitchen range hoods shall be rated for sound in accordance wi 62.2	th Section 7.2 of ASHRAE	NA		

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance: http://www.energy.ca.gov/title24/2019standards

2019 C	CA ENERGY CODE VE	ENTILATION	CALCU	ilations						
ITEM TAG	OCCUPANCY TYPE	USABLE CONDITIONED FLOOR AREA (SQFT)	REQUIRED MIN OA (CFM)	PROVIDED PER DESIGN (CFM)	DCV	OCC SENSOR	NOTES			
RTU-1	HALL WAY	85	13	13	NOT REQUIRED PER §120.1(d)3	NOT REQUIRED PER §120.2(e)3				
RTU-1	ELECTRICAL STORAGE	276	41	41	NOT REQUIRED PER §120.1(d)3	NOT REQUIRED PER §120.2(e)3				
RTU-1	KITCHEN	357	54	55	NOT REQUIRED PER §120.1(d)3	NOT REQUIRED PER §120.2(e)3				
RTU-1	EAST MEETING ROOM	1827	914	914	NOT REQUIRED PER §120.1(d)3	NOT REQUIRED PER §120.2(e)3				
RTU-1	FUTURE RESTROOM 1	187	28	30	NOT REQUIRED PER §120.1(d)3	NOT REQUIRED PER §120.2(e)3				
RTU-1	FUTURE RESTROOM 2	246	37	37	NOT REQUIRED PER §120.1(d)3	NOT REQUIRED PER §120.2(e)3				
RTU-1	KITCHEN STORAGE	130	20	20	NOT REQUIRED PER §120.1(d)3	NOT REQUIRED PER §120.2(e)3				
TOTAL SY	STEM REQUIRED MIN OA CFM BA	SED ON CFM/SQF	r 1106							
SYSTEM NAME		R	TU-1	NOTES:						
	SYSTEM DESIGN OA CFM AIRFL	OW	1	110						
	SYSTEM DESIGN TRANSFER AIR	CFM	0		FUTURE RESTROOMS SHARE THE SAME TOTAL FLOOR AREA AS EXISTING RESTROOMS, HALLWAYS, AND STORAGE AREAS. ADDITIONALLY ALL SPACES BOTH EXISTING AND FUTURE HAVE THE SAME OUTSIDE AIR REQUIREMENT OF 0.15CFM/SQFT. THEREFORE ONLY FUTURE RESTROOMS					
	AIR FILTRATION		PER §	120.1(C)		WERE LISTED. OCCUPANCY SENSORS NOT REQUIRED AS EQUIPMENT SERVES KITCHEN WILL IS NOT ALLOWED TO BE REDUCED PER TABLE				
١	VENTILATION FOR THE SYSTEM CO	MPLIES?		MPLIES	120.1-A. DEMAND CON	120.1 (d)3 EXCEPTION 2, KITCHEN GENERATES FUMES.				
TEM TAG	OCCUPANCY TYPE	USABLE CONDITIONED FLOOR AREA (SQFT)	REQUIRED MIN OA (CFM)	PROVIDED PER DESIGN (CFM)	DCV	OCC SENSOR	NOTES			
RTU-2	WEST MEETING HALL	2507	1254	1255	PROVIDED PER §120.1 (d)3	NOT REQUIRED PER §120.2(e)3				
TOTAL SY	'STEM REQUIRED MIN OA CFM BA	SED ON CFM/SQF	r 1254			· · · ·				
	SYSTEM NAME		R	TU-2		NOTES:				
SYSTEM DESIGN OA CFM AIRFLOW			1	255						
SYSTEM DESIGN TRANSFER AIR CFM				0	DCCUPANCY SENSORS NOT REQUIRED FOR ALTERATION §141.0(b)2F, LIGHTING IS NOT BEING INSTALLED FOR THE FIRST TIME, SO LIGHTING IS NOT REQUIRED TO MEET §130.1, THEREFORE, PER §120.2(e)3 LIGHTING SENSORS ARE NOT REQUIRED AND OCCUPANCY SENSORS ARE NOT					
AIR FILTRATION PE			PER §	120.1(C)	INGT REQUIRED TO MEET § 130.1, IP	REQUIRED.				
VENTILATION FOR THE SYSTEM COMPLIES?			CO	MPLIES						

REVISIONS DESCRIPTION			CE E E R I N G	SIGNED 5/23/22 PROFESSION 5/23/22	
	DES <u>am</u>		JOB NO.	STATE OF CALLEORNIN	
	DRN ^{bw}	DATE ^{02/22/22}	0523.36	VI UNLIL	

4LEAF, INC. Building 05/31/2022 **Reviewed For Code Compliance**

CITY OF LAKEPORT COMMUNITY CENTER ELECTRICAL & HVAC PROJECT 500 N. MAIN ST. LAKEPORT, CA 95453 TITLE 24 COMPLIANCE DOCUMENTS

	SHEET
M	4.

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STATE OF CALIFORNIA				
Mechanical Systems NRCC-MCH-E (Created 09/2020)			CALIFORNIA ENERGY COMMISSION	
CERTIFICATE OF COMPLIANCE			NRCC-MCH-	
Project Name: Lakeport Comr	nunity Center	Report Page:	Page 11 of 1	
Project Address: 500 N Main St		Date Prepared:	2022-04-1	
DOCUMENTATION AUTHOR	S DECLARATION STATEMENT		?	
1. I certify that this Certificate of	Compliance documentation is accurate and co			
Documentation Author Name:	Kellyn Smith	Documentation Author Signature:	you Amis	
Company:	PACE Engineering	Signature Date: 0	04/11/2022	
Address:	5155 Venture Parkway	CEA/ HERS Certification Identification (if applic	CEA/ HERS Certification Identification (if applicable):	
City/State/Zip:	Redding/CA/96002	Phone: 530-2	44-0202	
 The information provided on I am eligible under Division 3 Compliance (responsible desi The energy features and perf Certificate of Compliance cor The building design features compliance documents, work I will ensure that a complete to the enforcement agency for 	gner) ormance specifications, materials, componen iform to the requirements of Title 24, Part 1 a or system design features identified on this Ce sheets, calculations, plans and specifications d signed copy of this Certificate of Compliance		system design identified on this ation provided on other applicable n this building permit application. ued for the building, and made available nce is required to be included with the	
Responsible Designer Name:	Adam Miller	Responsible Designer Signature:	clar Mith	
Company :	PACE Engineering	Date Signed: 04	4/11/2022	
Address:	5155 Venture Parkway	License: M4	40501	
City/State/Zip:	Redding/CA/96002	Phone: 530-2	44-0202	

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