MECHANICAL LEGEND -(AC-1)(TXF-1)EQUIPMENT SYMBOL AIR DEVICES CEILING DIFFUSER SUPPLY CEILING DIFFUSER RETURN PERFORATE CEILING DIFFUSER SUPPLY DUCT ACCESSORIES WD VD VOLUME DAMPER W/ ACCESS DOOR FIRE DAMPER W/ ACCESS DOOR CONTROLS AND SENSORS T **THERMOSTAT** DUCT SMOKE DETECTOR HUMIDISTAT TEMPERATURE SENSOR DUCTWORK ====== AIR DUCT W/ 1.5" ACOUSTICAL LINING **-**///-FLEXIBLE DUCT FLEXIBLE CONNECTION ___24X12 RECTANGULAR DUCT (WIDTH X DEPTH) EQUIPMENT ON STRUCTURE SUPPLY AIR RECTANGULAR DUCT CROSS SECTION RETURN AIR RECTANGULAR DUCT CROSS SECTION ____ø12 ROUND DUCT (DIAMETER) ROUND DUCT CROSS SECTION POINT OF NEW CONNECTION TO EXISTING POINT OF DISCONNECTION FROM EXISTING

MECHANICAL DRAWING LIST

MECHANICAL LEGENDS NOTES & SCHEDULE

MECHANICAL FLOOR PLAN

MECHANICAL DETAILS (1 OF 2)

MECHANICAL DETAILS (2 OF 2)

MECHANICAL ROOF PLAN

CAPTIVE AIRE PLAN

ABBREVIATIONS

PROCESS COMPLIANCE

MECHANICAL SYSTEM COMPLIANCE

CUBIC FEET OF AIR PER MINUTE

FLEXIBLE CONNECTION

INTEGRATED ENERGY

ENERGY EFFICIENCY RATIO

EFFICIENCY RATIO

SEASONAL ENERGY

EFFICIENCY RATIO

ROOF TOP UNIT

VOLUME DAMPER

MAKEUP UNIT AIR

SAME AS EXISTING

KITCHEN EXHAUST FAN

AIR CONDITIONING UNIT

AIR COOLED CONDENSER UNIT

EXISTING

EXHAUST FAN

M - 2.1

M - 3.1

M - 3.2

M - 3.4

M - 3.5

M - 3.6

M - 3.7

M - 3.9

M - 4.2

GENERAL NOTES

THE DRAWINGS, SPECIFICATIONS AND GENERAL NOTES DESCRIBE THE RECOMMENDED SCOPE OF WORK AND THE DOCUMENTS SHALL BE USED FOR THE PURPOSE OF BIDDING. BUILDINGS DEPARTMENT REVIEW, AND TO SECURE THE NECESSARY CONSTRUCTION PERMIT ONLY CONTRACTOR SHALL PROVIDE CONSTRUCTION DRAWINGS AND OBTAIN WRITTEN APPROVAL OF ALL INSPECTION AUTHORIZED GOVERNMENTAL AGENCIES AND UTILITY COMPANIES PRIOR TO START OF AFFECTED WORK.

ALL MECHANICAL WORK SHALL COMPLY WITH LOCAL APPLICABLE CODE AND 2022 CALIFORNIA MECHANICAL CODE. COORDINATE ALL MECHANICAL WORK W/ARCHITECTURAL, ELECTRICAL, STRUCTURAL SUBCONTRACTOR & OTHER TRADES TO AVOID INTERFERENCES. COORDINATE LOCATIONS OF OPENING THROUGH FLOOR, WALL & ROOF W/ARCHITECTURAL, ELECTRICAL & STRUCTURAL

DRAWINGS. SEAL & TAPE ALL OPENINGS IN DUCTWORK AIRTIGHT AFTER TESTING. ALL SIZES FOR DUCT, GRILLE, REGISTER, DIFFUSER & LOUVER SHALL BE IN INCHES.

5'-0".

. CHECK & VERIFY ALL FIELD CONDITIONS & ACTUAL DIMENSIONS BEFORE PREPARING SHOP DRAWINGS & BEGINNING INSTALLATION NOTIFY ARCHITECT IMMEDIATELY OF AND ALL DISCREPANCIES.

TEST & BALANCE ALL HVAC SYSTEM ACCORDING TO CFM INDICATED ON PLANS. 8. ALL APPLIANCE AND PLUMBING VENTS SHALL BE AT LEAST TEN (10) FEET IN A HORIZONTAL DIRECTION, OR THREE (3) FEET ABOVE THE OUTSIDE—AIR INTAKES FOR HVAC UNITS. 9. FACTORY-MADE FLEXIBLE DUCT & DUCT CONNECTOR TO BE U. L. 181 LISTED, & MAXIMUM

GENERAL SEISMIC NOTES

ALL BRACING OF DUCTS AND PIPING SHALL BE INSTALLED IN ACCORDANCE WITH SMACNA GUIDELINES AS APPROVED BY CITY. WHERE BRACING DETAILS ARE NOT SHOWN ON THE DRAWINGS OR IN THE GUIDELINES, THE FIELD INSTALLATION SHALL BE SUBJECT TO THE APPROVAL OF THE ARCHITECT, MECHANICAL ENGINEER AND THE FIELD INSPECTOR.

A COPY OF THE GUIDELINES PUBLISHED BY SMACNA AND APPROVED BY CITY SHALL BE PROVIDED BY THE CONTRACTOR AND KEPT ON THE JOB AT ALL TIMES. THE SEISMIC ANCHORAGE OF MECHANICAL AND ELECTRICAL EQUIPMENT SHALL CONFORM TO

C.C.R. TITLE 24, SECTION 1630A AND TABLE 16A-K.3. ANCHORAGE DETAILS FOR ROOF/FLOOR MOUNTED EQUIPMENT WEIGHING LESS THAN 400 LBS. AND HUNG EQUIPMENT WEIGHING LESS THAN 20 LBS MAY BE OMITTED FROM THE PLANS.

ALL MECHANICAL AND ELECTRICAL EQUIPMENT SHALL BE BRACED OR ANCHORED TO RESIST / HORIZONTAL FORCE ACTING IN ANY DIRECTION USING THE FOLLOWING CRITERIA: 23% OF OPERATING WEIGHT EQUIPMENT ON GRADE

35% OF OPERATING WEIGHT

FOR FLEXIBLY MOUNTED EQUIPMENT USE 2 X THE ABOVE VALUES, AND FOR SIMULTANEOUS VERTICAL FORCE USE 1/3 X THE HORIZONTAL FORCE.

THE ABOVE VALUES ARE FOR AN IMPORTANCE FACTOR, I=1.15 AND SEISMIC ZONE, Z=0.5. WHERE ANCHORAGE DETAILS ARE NOT SHOWN ON THE DRAWINGS THE FIELD INSTALLATION SHALL

BE SUBJECT TO THE APPROVAL OF THE MECHANICAL ENGINEER. ALL APPLIANCES DESIGNED TO BE FIXED IN POSITION SHALL BE SECURELY FASTENED IN PLACE PER BUILDING CODE REQUIREMENTS.

CALIFORNIA BUILDING DEPARTMENT NOTES

ALL WORK SHALL COMPLY WITH APPLICABLE SECTIONS OF THE CALIFORNIA BUILDING CODE 2022, AND ALL AMENDMENTS AND RULES AND REGULATIONS OF THE DEPARTMENT OF BUILDINGS TO DATE.

ALL HEATING AND COOLING LOADS CALCULATED PER ASHRAE/ACCA 183.

VENTILATION FOR ALL AREA SHALL COMPLY WITH CALIFORNIA ENERGY CODE 2022, SECTION 120.1-REQUIREMENTS FOR VENTILATION AND INDOOR AIR

MINIMUM TEMPERATURE TO BE MAINTAINED IN OCCUPIED SPACES DURING HEATING SEASON: 68 DEG. FAHRENHEIT.

A STATEMENT SHALL BE FILED BY THE OWNER OR TENANT IN POSSESSION THAT THE VENTILATION SYSTEM WILL BE KEPT IN CONTINUOUS OPERATION AT ALL TIMES DURING THE NORMAL OCCUPANCY OF THE STRUCTURE.

REFER TO ARCHITECTURAL DRAWINGS FOR REQUIRED FIRE-RATED WALL AND SMOKE WALL CONSTRUCTION AND LOCATION. THESE PLANS ARE APPROVED ONLY FOR THE WORK INDICATED ON THE

APPLICATION SPECIFICATION SHEET. ALL OTHER MATTERS SHOWN ARE NOT TO BE RELIED UPON OR TO BE CONSIDERED AS EITHER BEING APPROVED OR IN ACCORDANCE WITH APPLICABLE CODES.

TESTS OF MECHANICAL SYSTEMS SHALL BE PERFORMED IN ACCORDANCE WITH THE FOLLOWING SECTIONS OF THE CALIFORNIA MECHANICAL CODE 2022:

A. VENTILATION SYSTEM BALANCING CALIFORNIA MECHANICAL CODE 2022 -B. SMOKE CONTROL SYSTEMS - CALIFORNIA MECHANICAL CODE 2022 -

8. THE FOLLOWING WORK ITEMS, COMPONENTS, MATERIALS, CAPACITIES, ETC.

SHALL COMPLY WITH THE REFERENCED CODE OR STANDARD: A. STANDARDS OF HEATING - CALIFORNIA BUILDING CODE 2022 - 1203

B. DUCT CONSTRUCTION AND INSTALLATION— CALIFORNIA MECHANICAL CODE 2022 - 602 & 603

C. AIR INTAKES, EXHAUSTS AND RELIEF - CALIFORNIA MECHANICAL CODE 2022 - 407D. AIR FILTERS — CALIFORNIA MECHANICAL CODE 2022 — 401 (FILTERS

SHALL BE A MINIMUM OF MERV 13 AS REQUIRED BY CENC 120.1(C)) E. MANUAL AND AUTOMATIC FIRE AND SMOKE CONTROLS FOR AIR

DISTRIBUTION SYSTEMS - CALIFORNIA MECHANICAL CODE 2022 - 606 F. GAS FIRED EQUIPMENT - CALIFORNIA FUEL GAS CODE 2022.

9. OPERATION AND CONTROL REQUIREMENTS FOR MINIMUM QUANTITIES OF OUTDOOR AIR. TIMES OF OCCUPANCY - THE MINIMUM RATE OF OUTDOOR AIR REQUIRED BY SECTION 120.1(C) SHALL BE SUPPLIED TO EACH SPACE AT ALL

10. ALL MECHANICAL EQUIPMENT SHALL BE TESTED BY A CALIFORNIA CERTIFIED ACCEPTANCE TEST TECHNICIAN.

11. SMOKE DETECTOR SHALL MEET UL268A.

TIMES WHEN THE SPACE IS USUALLY OCCUPIED.

12. VENTILATION SYSTEMS SHALL BE BALANCED TO MAINTAIN THE MINIMUN VENTILATION AIRFLOW RATE AS SHOWN IN VENTILATION REQUIREMENT TABLE. THIS SYSTEM SHALL BE BALANCED BY APPROVED METHOD. CONTRACTOR TO SUBMIT THE AIR - BALANCE REPORT TO INSPECTOR.

13. ALL DUCTWORK WORK SYSTEMS SHALL BE TESTED FOR AIR LEAKAGE PER CMC SECTION 603.9.2.

INSULATION SCHEDUL

DUCT INSULATION

SEER

RTU

VD

SUPPLY-AIR AND RETURN-AIR DUCTS CONVEYING HEATED OR COOLED AIR LOCATED IN ONE OR MORE OF THE FOLLOWING SPACES SHALL BE INSULATED TO A MINIMUM INSTALLED LEVEL OF R-8:

1. OUTDOORS; OR

EXTERIOR WALL) B. MATERIAL:

ARMSTRONG ARMAFLEX II.

2. IN A SPACE BETWEEN THE ROOF AND AN INSULATED CEILING; OR

3. IN A SPACE DIRECTLY UNDER A ROOF WITH FIXED VENTS OR OPENINGS TO THE OUTSIDE OR UNCONDITIONED SPACES: OR

4. IN AN UNCONDITIONED CRAWLSPACE; OR

5. IN OTHER UNCONDITIONED SPACES.

SUPPLY-AIR DUCTS THAT ARE NOT IN ONE OF THESE SPACES, INCLUDING DUCTS BURIED IN CONCRETE SLAB, SHALL BE INSULATED TO A MINIMUM INSTALLED LEVEL OF R-4.2 OR BE ENCLOSED IN DIRECTLY CONDITIONED SPACE. PIPING INSULATION

1) TYPE P-6: MINIMUM 6 LB MOLDED FOAMED PLASTIC. MAXIMUM 0.27 K-FACTOR AT 75 DEG F MEAN TEMPERATURE. MAXIMUM 0.17 PERMEANCE. SIMILAR TO

A. INSULATE ALL PIPING IN ACCORDANCE WITH INSULATION SCHEDULE EXCEPT AS OTHERWISE NOTED.

	INSULATION :	<u> SCHEDULE - PIF</u>	<u>PING</u>
SERVICE	SIZE	THICKNESS	MATERIAL FINISI
REFRIGERANT PIP	NG	1.5"	P-6
CONDENSER DRAI (IF RUNNING THR		1.0"	P-6

CALIFORNIA ENERGY CONSERVATION CODE-2022 COMPLIANCE TO THE BEST OF MY PROFESSIONAL KNOWLEDGE AND JUDGEMENT, THESE PLANS AND SPECIFICATION ARE IN COMPLIANCE WITH

THE CALIFORNIA ENERGY CONSERVATION CODE-2022.

THERMOSTATIC CONTROL NOTES

(A) THERMOSTATIC CONTROLS FOR EACH ZONE. THE SUPPLY OF HEATING AND COOLING ENERGY TO EACH SPACE—CONDITIONING ZONE OR DWELLING UNIT SHALL BE CONTROLLED BY AN INDIVIDUAL THERMOSTATIC CONTROL THAT RESPONDS TO TEMPERATURE WITHIN THE ZONE AND THAT MEETS THE APPLICABLE REQUIREMENTS OF SECTION 120.2(B). AN ENERGY MANAGEMENT CONTROL SYSTEM (EMCS) MAY BE INSTALLED TO COMPLY WITH THE REQUIREMENTS OF ONE OR MORE THERMOSTATIC CONTROLS IF IT COMPLIES WITH ALL APPLICABLE REQUIREMENTS FOR EACH THERMOSTATIC CONTROL. EXCEPTION TO SECTION 120.2(A): AN INDEPENDENT PERIMETER HEATING OR COOLING SYSTEM MAY SERVE MORE THAN ONE ZONE WITHOUT INDIVIDUAL THERMOSTATIC CONTROLS IF: 1. ALL ZONES ARE ALSO SERVED BY AN INTERIOR COOLING SYSTEM; AND 2. THE PERIMETER SYSTEM IS DESIGNED SOLELY TO OFFSET ENVELOPE HEAT LOSSES OR GAINS; AND 3. THE PERIMETER SYSTEM HAS AT

THE ZONES SERVED BY THE SYSTEM. HEAT PUMP CONTROLS. ALL HEAT PUMPS WITH SUPPLEMENTARY ELECTRIC RESISTANCE HEATERS SHALL BE INSTALLED WITH CONTROLS THAT COMPLY WITH SECTION 110.2(B).

LEAST ONE THERMOSTATIC CONTROL FOR EACH BUILDING ORIENTATION OF 50 FEET OR MORE: AND

4. THE PERIMETER SYSTEM IS CONTROLLED BY AT LEAST ONE THERMOSTAT LOCATED IN ONE OF

SHUT-OFF AND RESET CONTROLS FOR SPACE-CONDITIONING SYSTEMS. EACH SPACE-CONDITIONING SYSTEM SHALL BE INSTALLED WITH CONTROLS THAT COMPLY WITH THE

FOLLOWING: 1. THE CONTROL SHALL BE CAPABLE OF AUTOMATICALLY SHUTTING OFF THE SYSTEM DURING PERIODS OF NONUSE AND SHALL HAVE:

A. AN AUTOMATIC TIME SWITCH CONTROL DEVICE COMPLYING WITH SECTION 110.9, WITH AN ACCESSIBLE MANUAL OVERRIDE THAT ALLOWS OPERATION OF THE SYSTEM FOR UP TO 4 HOURS; OR

C. A 4-HOUR TIMER THAT CAN BE MANUALLY OPERATED.

B. AN OCCUPANCY SENSOR: OR

EXCEPTION TO SECTION 120.2(E)1: MECHANICAL SYSTEMS SERVING RETAIL STORES AND ASSOCIATED MALLS, RESTAURANTS, GROCERY STORES, CHURCHES, AND THEATERS EQUIPPED WITH 7-DAY PROGRAMMABLE TIMERS.

2. THE CONTROL SHALL AUTOMATICALLY RESTART AND TEMPORARILY OPERATE THE SYSTEM AS REQUIRED TO MAINTAIN: A. A SETBACK HEATING THERMOSTAT SETPOINT IF THE SYSTEM PROVIDES MECHANICAL HEATING;

AND EXCEPTION TO SECTION 120.2(E)2A: THERMOSTAT SETBACK CONTROLS ARE NOT REQUIRED IN NONRESIDENTIAL BUILDINGS IN AREAS WHERE THE WINTER MEDIAN OF EXTREMES OUTDOOR AIR TEMPERATURE DETERMINED IN ACCORDANCE WITH SECTION 140.4(B)3 IS GREATER THAN 32°F. B. A SETUP COOLING THERMOSTAT SETPOINT IF THE SYSTEM PROVIDES MECHANICAL COOLING. EXCEPTION TO SECTION 120.2(E)2B: THERMOSTAT SETUP CONTROLS ARE NOT REQUIRED IN

NONRESIDENTIAL BUILDINGS IN AREAS WHERE THE SUMMER DESIGN DRY BULB 0.5 PERCENT TEMPERATURE DETERMINED IN ACCORDANCE WITH SECTION 140.4(B)3 IS LESS THAN 100°F. 3. OCCUPANCY SENSING ZONE CONTROLS. SPACE CONDITIONING SYSTEMS SERVING ROOM(S) THAT ARE REQUIRED TO HAVE OCCUPANT SENSING CONTROLS IN ACCORDANCE WITH SECTION 130.1(C), AND WHERE THE TABLE 120.1-A OCCUPANCY CATEGORY PERMITS VENTILATION AIR TO BE REDUCED

TO ZERO WHEN THE SPACE IS IN OCCUPIED-STANDBY MODE, SHALL MEET THE FOLLOWING: A. THE ZONE SHALL BE PLACED IN OCCUPIED STANDBY MODE WHEN ALL ROOM(S) SERVED BY

THE ZONE ARE UNOCCUPIED FOR MORE THAN 5 MINUTES; AND B. DURING OCCUPIED STANDBY MODE.

OPERATING HEATING TEMPERATURE SETPOINT BY 0.5°F OR MORE.

AUTOMATICALLY SET UP THE OPERATING COOLING TEMPERATURE SET POINT BY 2°F OR MORE AND SET BACK THE OPERATING HEATING TEMPERATURE SET POINT BY 2°F OR MORE; OR . FOR MULTIPLE ZONE SYSTEMS WITH DIRECT DIGITAL CONTROLS (DDC) TO THE ZONE LEVEL, SET UP THE OPERATING COOLING TEMPERATURE SETPOINT BY 0.5°F OR MORE AND SET BACK THE

DURING OCCUPIED-STANDBY MODE, ALL AIRFLOW TO THE ZONE SHALL BE SHUT OFF WHENEVER THE SPACE TEMPERATURE IS BETWEEN THE ACTIVE HEATING AND COOLING SETPOINTS. EXCEPTION 1 TO SECTIONS 120.2(E)1, 2, AND 3: WHERE IT CAN BE DEMONSTRATED TO THE SATISFACTION OF THE ENFORCING AGENCY THAT THE SYSTEM SERVES AN AREA THAT MUST OPERATE

EXCEPTION 2 TO SECTIONS 120.2(E)1, 2, AND 3: SYSTEMS WITH FULL LOAD DEMANDS OF 2 KW OR LESS, IF THEY HAVE A READILY ACCESSIBLE MANUAL SHUT-OFF SWITCH.

EXCEPTION 3 TO SECTIONS 120.2(E)1 AND 2: SYSTEMS SERVING HOTEL/MOTEL GUEST ROOMS, IF THEY HAVE A READILY ACCESSIBLE MANUAL SHUT-OFF SWITCH. SECTION 120.2 - REQUIRED CONTROLS FOR SPACE-CONDITIONING SYSTEMS PAGE 148 2019 BUILDING ENERGY EFFICIENCY

. HOTEL AND MOTEL GUEST ROOMS SHALL HAVE CAPTIVE CARD KEY CONTROLS, OCCUPANCY SENSING CONTROLS, OR AUTOMATIC CONTROLS SUCH THAT, NO LONGER THAN 30 MINUTES AFTER THE GUEST ROOM HAS BEEN VACATED, SETPOINTS ARE SET UP AT LEAST +5 F (+3 °C) IN COOLIN MODE AND SET DOWN AT LEAST -5° F (-3° C) IN HEATING MODE. EXCEPTION TO SECTION 120.2(E): SYSTEMS SERVING HEALTHCARE FACILITIES.

ECONOMIZER FAULT DETECTION AND DIAGNOSTICS (FDD). ALL NEWLY INSTALLED AIR HANDLERS WITH A MECHANICAL COOLING CAPACITY GREATER THAN 54,000

BTU/HR AND AN INSTALLED AIR ECONOMIZER SHALL INCLUDE A STAND-ALONE OR INTEGRATED FAULT DETECTION AND DIAGNOSTICS (FDD) SYSTEM IN ACCORDANCE WITH SUBSECTIONS 120.2(I)1 THROUGH 120.2(I)8. 1. THE FOLLOWING TEMPERATURE SENSORS SHALL BE PERMANENTLY INSTALLED TO MONITOR

SYSTEM OPERATION: OUTSIDE AIR, SUPPLY AIR, AND WHEN REQUIRED FOR DIFFERENTIAL ECONOMIZER OPERATION, A RETURN AIR SENSOR; AND 2. TEMPERATURE SENSORS SHALL HAVE AN ACCURACY OF $\pm 2^{\circ}$ F OVER THE RANGE OF 40°F TO

80°F; AND 3. THE CONTROLLER SHALL HAVE THE CAPABILITY OF DISPLAYING THE VALUE OF EACH SENSOR;

4. THE CONTROLLER SHALL PROVIDE SYSTEM STATUS BY INDICATING THE FOLLOWING CONDITIONS:

A. FREE COOLING AVAILABLE;

B. ECONOMIZER ENABLED;

C. COMPRESSOR ENABLED; HEATING ENABLED, IF THE SYSTEM IS CAPABLE OF HEATING; AND

THE UNIT CONTROLLER SHALL ALLOW MANUAL INITIATION OF EACH OPERATING MODE SO THAT THE OPERATION OF COOLING SYSTEMS, ECONOMIZERS, FANS, AND HEATING SYSTEMS CAN BE INDEPENDENTLY TESTED AND VERIFIED; AND

6. FAULTS SHALL BE REPORTED IN ONE OF THE FOLLOWING WAYS:

PORTED TO AN ENERGY MANAGEMENT CONTROL SYSTEM REGULARLY MONITORED BY FACILITY

ANNUNCIATED LOCALLY ON ONE OR MORE ZONE THERMOSTATS, OR A DEVICE WITHIN FIVE (5) FEET OF ZONE THERMOSTAT(S), CLEARLY VISIBLE, AT EYE LEVEL, AND MEETING THE FOLLOWING

THE THERMOSTAT, DEVICE, OR AN ADJACENT WRITTEN SIGN, DISPLAY INSTRUCTIONS TO CONTACT APPROPRIATE BUILDING PERSONNEL OR AN HVAC TECHNICIAN; AND SECTION 120.2 -REQUIRED CONTROLS FOR SPACE-CONDITIONING SYSTEMS 2019 BUILDING ENERGY EFFICIENCY STANDARDS PAGE 149

IN BUILDINGS WITH MULTIPLE TENANTS, THE ANNUNCIATION SHALL EITHER BE WITHIN PROPERTY <mark>ANAG</mark>EMENT OFFICES OR IN A COMMON SPACE ACCESSIBLE BY THE PROPERTY OR BUILDING

REPORTED TO A FAULT MANAGEMENT APPLICATION WHICH AUTOMATICALLY PROVIDES NOTIFICATION OF THE FAULT TO REMOTE HVAC SERVICE PROVIDER.

7. THE FDD SYSTEM SHALL DETECT THE FOLLOWING FAULTS:

A. AIR TEMPERATURE SENSOR FAILURE/FAULT

B. NOT ECONOMIZING WHEN IT SHOULD;

ECONOMIZING WHEN IT SHOULD NOT;

DAMPER NOT MODULATING; AND . EXCESS OUTDOOR AIR.

8. THE FDD SYSTEM SHALL BE CERTIFIED BY THE ENERGY COMMISSION AS MEETIN REQUIREMENTS OF SECTIONS 120.2(I)1 THROUGH 120.2(I)7 IN ACCORDANCE WITH SECTION 110. AND JA6.3. EXCEPTION TO 120.2(I)8: FDD ALGORITHMS BASED IN DIRECT DIGITAL CONTROL SYSTEM ARE NOT REQUIRED TO BE CERTIFIED TO THE ENERGY COMMISSION.

		AIR BALA	ANCE		
UNIT	AREA SERVED	SUPPLY AIR	OUTSIDE AIR	RETURN AIR	EXHAUST AIR
RTU-1	DINING	4000	1150	2850	0 CFM
AC-1	KITCHEN	883	0	883	0 CFM
MAU-1	KITCHEN	3200	3200		0 CFM
EF-1	HOOD-1	_	_	_	1579 CFM
EF-2	HOOD-2	_	-	_	2292 CFM
EF-3	RESTROOMS	_	_	_	300 CFM
	TOTAL:	8083 CFM	4350 CFM	3733 CFM	4171 CFM
BUILD	ING PRESSURE:			179 CFM	POSITIVE

			DIFFUSE	r, regis	IER, AN						
TAG	MANUFACTURER / MODEL	TYPE	MATERIAL	FINISH	FACE	FACE	DUCT	MOUNTING	PATTERNS	DAMPERS ACCESSORIES PATTERN	NOTES
					STYLE	SIZE	INLET				
Α	TITUS 355FL	RETURN GRILLE	ST	NOTE 5		NOTE 1		NOTE 4	PB	NOTE 8	
Е	TITUS PAS	PERFORATED SUPPLY DIFFUSER	ST	NOTE 5		NOTE 1		NOTE 4	ADJ	NOTE 8	
S	TITUS S300FS	SUPPLY GRILLE	ST	NOTE 7		-		NOTE 4	FA	NOTE 8	
В	TITUS CT-700L	DOOR GRILLE	ST	-		NOTE 1		-	PB	NONE	
NOTES:	1) SEE DRAWINGS FOR FAC	E SIZE (24x24 OR 12x12). PROVIDE	24x24 FOR	LAYIN	EILING	iS					
	2) FACE SIZE DETERMINED F	FROM DUCT INLET SIZE.									
	3) SEE AIR DEVICE TAG FOR	DUCT INLET SIZE.									
	4) COORDINATE BORDER TY	/PE (SURFACE MOUNT, SNAP IN, I	_AY-IN, SPL	INE, DRO	PPED F	ACE, AN	D BEVE	ELED DROP FA	CE) WITH C	EILING TYPE AS SHOWN IN ARCHITEC	TURAL CEILING P
	5) PROVIDE COLOR TO MAT	CH CEILING FINISH									
	6) SLOTTED DIFFUSER SHAL	L BE 5 LONG x 2 SLOTS.									
	7) WHEN INSTALLED WITH I	DUCTWORK PAINT GRILLE GRAY T	O MATCH D	UCTWO	RK. OTH	IERWISE	PROVI	DE WHITE.			
	8) PROVIDE WITH OPPOSED	BLADE DAMPERS.							_		_

AIR CURTAIN SCHEDULE									
MANUFACTURER	UNIT ID	MODEL	LENGTH (IN.)	CFM	QUANTITY	V/PH/HZ	AMPS		
MARS ACT-1 LPV272-1UA-OB 72 1800 2 115/1/60 2.6									
NOTES / ACCESSO	RIES:								
1. PROVIDE MAN	UFACTURER	RECOMMENDED A	ACCESSOF	RIES.					
2. COORDINATE WITH ELECTRICAL CONTRACTOR FOR POWER REQUIREMENT.									
3. INTERLOCK WITH DOOR.									

UNIT TAG LOCATION AREA SERVED TYPE

PROVIDE MERV8 FILTER ON ALL RETURNS TO UNIT.

7) PROVIDE SPRING MOUNTED VIBRATION ISOLATORS FOR UNITS.

6) INDOOR UNIT ACCESS PANEL FIELD-PROVIDED

BA=BAKED ACRYLIC, BO = BLANK OFF, PB = PARALLEL BLADES, AND P = PLENUM.

			EXISTIN	IG R	OOF T	PL	JNIT SO	CHEDU	JLE						
	NONAINIAI		SUPPLY FAN					ELE	CTRICAL						
MODEL		SUPPLY CFM	OUTSIDE AIR CFM	ESP ((IN. OF W	/.G.)	VOLTS	PHASE	MCA (A)	MOCP (A)	IEE	ĒR	EER	WEIGHT (LBS.)	MAKE
XP120C00N4	10	4000	1150		SAE		460	3	29	-	SAE	SAE	SAE	1140	YORK
						7									
1. EXISTING RTU WITH ALL ACCESSORIES TO REMAIN SAME AND TO BE RESUED.															
2. CONTRACTOR TO FIELD VERIFY IF RTU IS WORKING AT THEIR 100% RATED CAPACITY. INFORM ENGINEER IF ANY DISCREPANCIES ARE FOUND IN PERFORMANCE															
	XP120C00N4 G RTU WITH <i>I</i>	XP120C00N4 10 G RTU WITH ALL ACCESS	MODEL TONS SUPPLY CFM XP120C00N4 10 4000 G RTU WITH ALL ACCESSORIES TO REM	MODEL NOMINAL TONS SUPPLY CFM OUTSIDE AIR CFM XP120C00N4 10 4000 1150 G RTU WITH ALL ACCESSORIES TO REMAIN SAME AND TO	MODEL NOMINAL TONS SUPPLY CFM OUTSIDE AIR CFM ESP OF THE SUPPLY CFM OUTSIDE AIR CFM ESP OUTS	MODEL NOMINAL TONS SUPPLY CFM OUTSIDE AIR CFM ESP (IN. OF W. XP120C00N4 10 4000 1150 SAE G RTU WITH ALL ACCESSORIES TO REMAIN SAME AND TO BE RESUED.	MODEL NOMINAL TONS SUPPLY CFM OUTSIDE AIR CFM ESP (IN. OF W.G.) XP120C00N4 10 4000 1150 SAE G RTU WITH ALL ACCESSORIES TO REMAIN SAME AND TO BE RESUED.	MODEL NOMINAL TONS SUPPLY CFM OUTSIDE AIR CFM ESP (IN. OF W.G.) VOLTS XP120C00N4 10 4000 1150 SAE 460 G RTU WITH ALL ACCESSORIES TO REMAIN SAME AND TO BE RESUED.	MODEL NOMINAL TONS SUPPLY CFM OUTSIDE AIR CFM ESP (IN. OF W.G.) VOLTS PHASE XP120C00N4 10 4000 1150 SAE 460 3 G RTU WITH ALL ACCESSORIES TO REMAIN SAME AND TO BE RESUED.	MODEL NOMINAL TONS SUPPLY CFM OUTSIDE AIR CFM ESP (IN. OF W.G.) VOLTS PHASE MCA (A) XP120C00N4 10 4000 1150 SAE 460 3 29 G RTU WITH ALL ACCESSORIES TO REMAIN SAME AND TO BE RESUED.	MODEL NOMINAL TONS SUPPLY CFM OUTSIDE AIR CFM ESP (IN. OF W.G.) VOLTS PHASE MCA (A) MOCP (A) XP120C00N4 10 4000 1150 SAE 460 3 29 - G RTU WITH ALL ACCESSORIES TO REMAIN SAME AND TO BE RESUED.	MODEL NOMINAL TONS SUPPLY CFM OUTSIDE AIR CFM ESP (IN. OF W.G.) VOLTS PHASE MCA (A) MOCP (A) XP120C00N4 10 4000 1150 SAE 460 3 29 - SAE G RTU WITH ALL ACCESSORIES TO REMAIN SAME AND TO BE RESUED.	MODEL NOMINAL TONS SUPPLY CFM OUTSIDE AIR CFM ESP (IN. OF W.G.) VOLTS PHASE MCA (A) MOCP (A) IEER XP120C00N4 10 4000 1150 SAE 460 3 29 - SAE SAE GRTU WITH ALL ACCESSORIES TO REMAIN SAME AND TO BE RESUED.	MODEL NOMINAL TONS SUPPLY CFM OUTSIDE AIR CFM ESP (IN. OF W.G.) VOLTS PHASE MCA (A) MOCP (A) IEER EER XP120C00N4 10 4000 1150 SAE 460 3 29 - SAE SAE SAE G RTU WITH ALL ACCESSORIES TO REMAIN SAME AND TO BE RESUED.	MODEL NOMINAL TONS SUPPLY CFM OUTSIDE AIR CFM ESP (IN. OF W.G.) VOLTS PHASE MCA (A) MOCP (A) IEER EER WEIGHT (LBS.) XP120C00N4 10 4000 1150 SAE 460 3 29 - SAE SAE SAE 1140 G RTU WITH ALL ACCESSORIES TO REMAIN SAME AND TO BE RESUED.

3. CONTRACTOR TO FIELD VERIFY THE EXACT LOCATION AND CONFIGURATION OF THE UNIT ON THE SITE . CONTRACTOR TO BALANCE OUTSIDE AIR DAMPER ON EXISTING RTU TO MATCH VALUE MENTIONED ON EQUIPMENT SCHEDULE. . REPLACE FILTERS, IF REQUIRED

CAP. |COOLING|HEATING|TOTAL CFM|MAX. ESP. |MAX. SOUND

EXISTING AIR CONDITIONER SCHEDULES (INDOOR UNITS)

MBH | (MAX.) | (IN. WG) | PRESS.(DBA)

EXISTING OUTDOOR HEAT PUMP CONDENSING UNITS

				(1011)	IVIDIT	IVIDIT	(141/4/1.)	(114: 440)	T NESS.(DDA)	PH/VOLT/HZ	POWER SUPPLY	UNIT	LIQ.	SUCTION	DRAIN (ID)	(LD3.)	
AC-1(E)	SEE PLAN	SEE PLAN	DUCTED	2	24	26	706	0.18	42	11/208-230/60	POWERED FROM OUTDOOR UNIT	12X36X28	3/8"	5/8"	1 1/4"	66.1	RPIM-3.0PNN1DH
AC-2(E)	SEE PLAN	SEE PLAN	NON-DUCTED	2	24	25	620	-	51	11/208-230/60	POWERED FROM OUTDOOR UNIT	12X44X11	1/4"	5/8"	5/8"	37.5	RAS-EH24RHLAE
OTES:																	
SUPPLY	AIR CFM BASE	D ON HIGH SPE	ED.														
REFRIGE	RANT R410A S	HALL BE PROVI	DED.														
PROVID	E MOUNTING I	BRACKETS AND	ALL ASSOCIATE	D ACCES	SSORIES.												
ALL REFI	RIGERANT PIPI	NG TO BE SIZED	PER MANUFA	CTURERS	S RECOMM	ENDATION	S.										

DIMENTIONS

ELECTRICAL DATA

		INDOOR		COOLING	HEATING	UNIT DIMENSIONS		PIPING DI	MENSION	EL	ECTRICAL		SOUND					
UNIT TAG	LOCATION	UNITS	CAP.TR	MBH	MBH	IN.(HXWXD)	WEIGHT	LIQUID-HI	GAS LOW-	(V/Hz/Ph)	MCA	МОР	LEVEL	EER2	SEER2	HSPF2	COP	MODULE NO.
		SERVED		IVIDIT	IVIDIT	IIV.(IIXVVXD)	(LBS)	PRESSURE	PRESSURE	(7/112/711)	IVICA	IVIOF	(Dba)					
ACCU-1(E)	ROOF	AC-1	2	24	26	34X38X14	156	3/8"	5/8"	208-230/60/1	23	35	55	10.45	18	9.5	3.1	RAS-3.0PNNBDH1
ACCU-2(E)	ROOF	AC-2	2	24	25	38X38X15	103.6	1/4"	5/8"	208-230/60/1	18	20	53	9	18	8.2	-	RAC-EH24WHLAE
NOTES:																		
1. UNIT SHA	ALL HAVE TE	N YEAR EXTE	NDED W	ARRANTY F	OR COMPRES	SORS/PARTS.												
2. PROVIDE	E LOW AMBI	ENT CONTRO	OL FOR CO	ONDENSING	UNIT OPERA	TION DOWN TO -4°F.												
3. PROVIDE	E COMPRESS	OR CYCLE PE	ROTECTO	₹.														
4. PROVIDE	E STEEL RAIL	S FOR COND	ENSER M	OUNTING.														
5. PROVIDE	E VIBRATION	I ISOLATORS	FOR THE	UNITS.														
6. CONTRA	CTOR SHALL	PROVIDE A	LONG LIN	IE SET FOR I	REFRIGERAN	PIPING IN THE EVENT	THAT TOTAL	REFRIGERA	NT LENGTH	EXCEED THE MA	NUFACTURE	R'S STANI	DARD REC	OMME	NDED	LENGTH	ł.	

						FAN	SCHEDUL	.E						
UNIT ID	MANUFACTURER	MODEL	CFM	TYPE	DRIVE	FAN RPM	WEIGHT	E.S.P.		MOTOR		SERVICE	INTERLOCKED	NOTES / ACCESSORIES
							(LBs)	(IN. W.G.)	HP	VOLTS	PHASE		WITH	
KEF-1	ECON-AIR	EA-USBI15DD-RM	1579	ROOF	DIRECT	1273	269	1	1	208	3	HOOD-1	HOOD CONTROL	1,2,3,4,5,7,8
KEF-2	ECON-AIR	EA-USBI15DD-RM	2292	ROOF	DIRECT	1522	280	1	1.5	208	3	HOOD-2	HOOD CONTROL	1,2,3,4,5,7,8
EF-1	GREENHECK	SP-A200	200	CEILING	DIRECT	900	24	0.32	0.03	115	1	RESTROOM	LIGHTING	-
EF-2	GREENHECK	SP-LP0810W	100	CEILING	DIRECT	894	8	0.3	-	115	1	RESTROOM	LIGHTING	-
NOTES / ACCE	SSORIES:													
1. BIRD	SCREEN					5.		THERMAL OV	ERLOAD PRO	OTECTION				
2. WEA	THER PROOF DISCONNECT SWITC	СН				6.		GRAVITY BAC	KDRAFT DAN	MPER				
3. VARI	ABLE SPEED CONTROL					7.		ROOF CURB						

AMCA SEAL & UL CERTIFIED

7. AIR CONDITIONER UNIT SHALL NOT PRODUCE NOISE LEVELS IN EXCESS OF 42 dB FOR A SINGLE AIR CIRCULATING DEVICE AND 45 DECIBELS FOR THE CUMULATIVE NOISE LEVEL OF MULTIPLE AIR CIRCULATING DEVICES

		VENTILATION CALC	CULATION AS PER	CALIFORNIA ENER	RGY CODE 2022 - TABLE 120.1-A & 120.1-B		
ROOM NAME	AREA (SQ.FT.)	AREA OUTDOOR AIR RATE	DECLUBED OV (CEVV)	DBOVIDED OV (CEM)	EXHAUST AIRFLOW RATE (CFM/SQ.FT OR CFM/UNIT)	TOTAL EVHALIST (CENA)	OCCUBANCY
KOOW NAWE	AREA (SQ.FT.)	CFM/SQ.FT	REQUIRED OA (CFIVI)	PROVIDED OA (CFIVI)	EXHAUST AIRFLOW RATE (CFIVI) SQ.FT OR CFIVI) DIVITI)	TOTAL EXHAUST (CFIVI)	OCCOPANCI
DINING	1110	0.5	555	900	0	0	41
KITCHEN	565	0.15	85	150	0.7	400	4
SERVICE/SALES	245	0.25	61	100	0	0	2
REST ROOM MEN	80	0	0	0	0	140	0
REST ROOM WOMEN	65	0	0	0	0	70	0
		TOTAL CFM		1150			

	MAKE UP AIR UNIT SCHEDULE															
		ESP		EVAP FLOW	EVAP ENTERING	FVAD ENTERING	EVAP LEAVING DB	FVAD I FAVING WR		<u> </u>	<u> </u>	LECTRICA	4L			
UNIT TAG	LOCATION	IN.WG.	CFM	RATE(GAL/HR)		WB TEMP (DEG. F)		TEMP (DEG. F)	WEIGHT (LBS)	V/PH/HZ	HP	κw	MCA (AMPS)	MOCP (AMPS)	SONES	MODE
MUA-1	SEE PLAN	0.5	3200	4.58	95	68	75.0	68	678	208/3/60	1.5	1.11	11.9	20	14	20MF-2-M

CONTRACTOR TO INSTALL VENDOR PROVIDED EQUIPMENT MOA. REFER TO CA 2. ROUTE 1 1/2" CONDENSATE TO ROOF DRAIN.

AS MEASURED 3 FEET FROM THE NOISE SOURCE AT AN OPEN DOOR OR WINDOW OF A NEARBY RESIDENCE

3. INTERLOCK MUA-1 OPERATION WITH HOOD -1 & HOOD-2

4. SPEED CONTROL SWITCH

UNIT ID	MANUFACTURER	MODEL	LENGTH	COOKING MAX TEMPERATURE	APPLIANCE	FILTER TYPE	DESIGN CFM/FT	EXHAUST	SUPPLY	HOOD	WEIGHT
ONITID	IVIANOFACTORER	MODEL	LENGIN	(DEG)	DUTY	FILTER TIPE	DESIGN CRIVITE	CFM	CFM	CONSTRUCTION	(LBS)
HOOD-1	ECON-AIR	5424 EX-2	10' 2.25"	450	MEDIUM	CAPTRATE SOLO FILTER	155	1579	-	430 SS WHERE EXPOSED	448
HOOD-2	ECON-AIR	5424 EX-2	10' 2.25"	600	HEAVY	CAPTRATE SOLO FILTER	225	2292	-	430 SS WHERE EXPOSED	457
NOTES:-											
1) CONTRACT	OR TO FIELD VERIF	Y WORKING CONDIT	ON AND E	EXACT LOCATION.							

HOOD SCHEDULE

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BASIS OF DESIGN: HITACHI

MODEL NO.

WEIGHT

BASIS OF DESIGN: HITACHI

Sheet Issue & Revision Log 04-22-2024 CITY COMMENTS

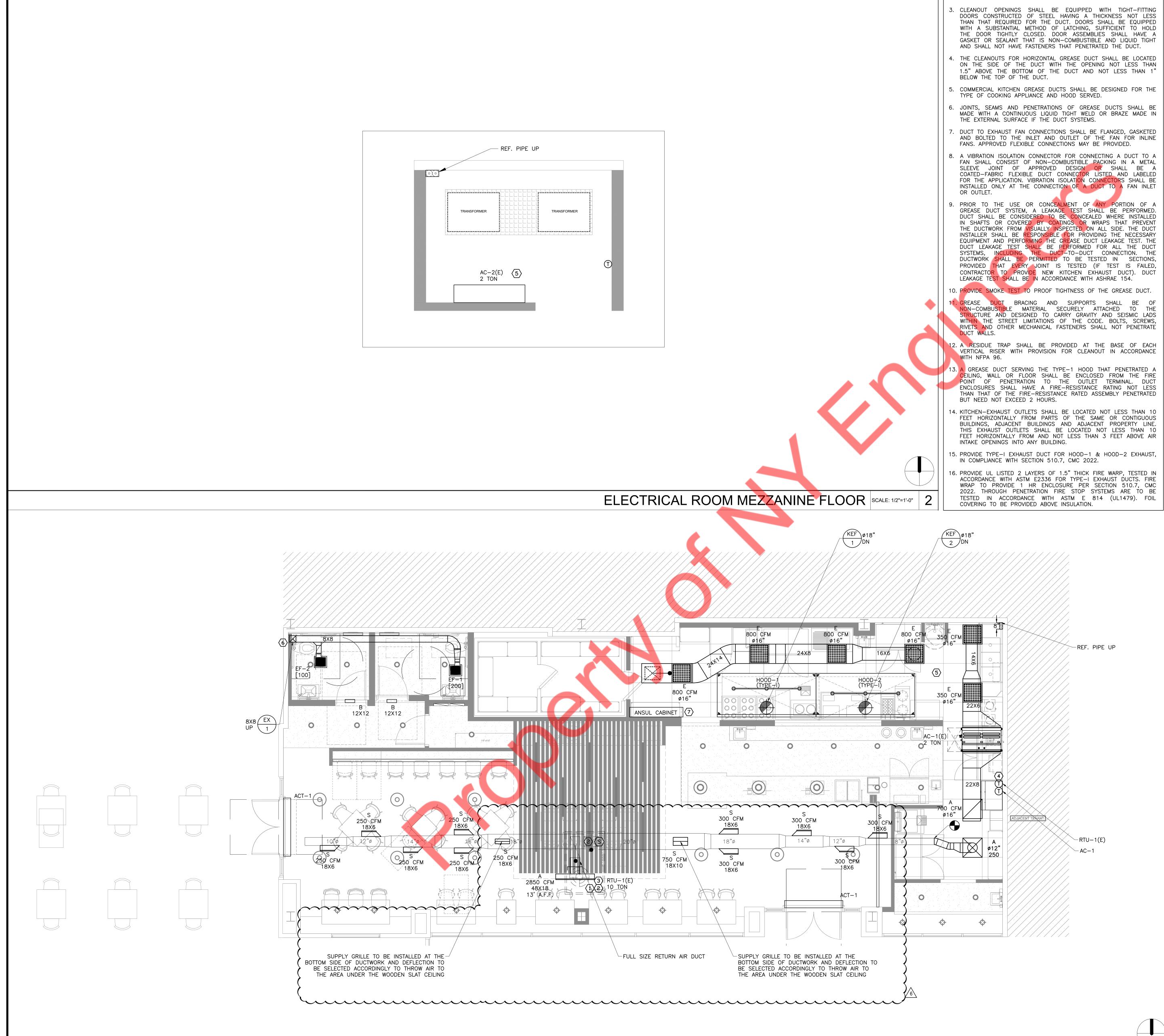
It is the clients responsibility prior to or during construction to notify t rchitect in writing of any perceived errors or omissions in the plans an specifications of which a contractor thoroughly knowledgeable with the buildir codes and methods of construction should reasonably be aware. Writte nstructions addressing such perceived errors or omissions shall be received the work. The client will be responsible for any defects in construction if thes

procedures are not followed.

MECHANICAL LEGEND, NOTES &

M-1.0

SCHEDULE



KITCHEN EXHAUST SYSTEM NOTES:

- PROVIDE CLEAN OUT AT ALL ELBOWS AND BOTTOM OF RISER AND EVERY 15 FEET HORIZONTAL KITCHEN EXHAUST DUCT.
- 2. CLEANOUT OPENINGS SHALL BE PROVIDED AT EVERY CHANGE IN DIRECTION AND WITHIN 3 FEET OF THE EXHAUST FAN.
- 3. CLEANOUT OPENINGS SHALL BE EQUIPPED WITH TIGHT-FITTING DOORS CONSTRUCTED OF STEEL HAVING A THICKNESS NOT LESS THAN THAT REQUIRED FOR THE DUCT. DOORS SHALL BE EQUIPPED WITH A SUBSTANTIAL METHOD OF LATCHING, SUFFICIENT TO HOLD THE DOOR TIGHTLY CLOSED. DOOR ASSEMBLIES SHALL HAVE A GASKET OR SEALANT THAT IS NON-COMBUSTIBLE AND LIQUID TIGHT
- 4. THE CLEANOUTS FOR HORIZONTAL GREASE DUCT SHALL BE LOCATED ON THE SIDE OF THE DUCT WITH THE OPENING NOT LESS THAN 1.5" ABOVE THE BOTTOM OF THE DUCT AND NOT LESS THAN 1"
- 5. COMMERCIAL KITCHEN GREASE DUCTS SHALL BE DESIGNED FOR THE
- MADE WITH A CONTINUOUS LIQUID TIGHT WELD OR BRAZE MADE IN
- . DUCT TO EXHAUST FAN CONNECTIONS SHALL BE FLANGED, GASKETED AND BOLTED TO THE INLET AND OUTLET OF THE FAN FOR INLINE
- 8. A VIBRATION ISOLATION CONNECTOR FOR CONNECTING A DUCT TO A FAN SHALL CONSIST OF NON-COMBUSTIBLE PACKING IN A METAL SLEEVE JOINT OF APPROVED DESIGN OR SHALL BE A COATED—FABRIC FLEXIBLE DUCT CONNECTOR LISTED AND LABELED FOR THE APPLICATION. VIBRATION ISOLATION CONNECTORS SHALL BE INSTALLED ONLY AT THE CONNECTION OF A DUCT TO A FAN INLET
- GREASE DUCT SYSTEM. A LEAKAGE TEST SHALL BE PERFORMED. DUCT SHALL BE CONSIDERED TO BE CONCEALED WHERE INSTALLED IN SHAFTS OR COVERED BY COATINGS OR WRAPS THAT PREVENT THE DUCTWORK FROM VISUALLY INSPECTED ON ALL SIDE. THE DUCT INSTALLER SHALL BE RESPONSIBLE FOR PROVIDING THE NECESSARY EQUIPMENT AND PERFORMING THE GREASE DUCT LEAKAGE TEST. THE DUCT LEAKAGE TEST SHALL BE PERFORMED FOR ALL THE DUCT SYSTEMS, INCLUDING THE DUCT—TO—DUCT CONNECTION. THE DUCTWORK SHALL BE PERMITTED TO BE TESTED IN SECTIONS, PROVIDED THAT EVERY JOINT IS TESTED (IF TEST IS FAILED, CONTRACTOR TO PROVIDE NEW KITCHEN EXHAUST DUCT). DUCT
- 10. PROVIDE SMOKE TEST TO PROOF TIGHTNESS OF THE GREASE DUCT.
- 11. GREASE DUCT BRACING AND SUPPORTS SHALL BE OF NON-COMBUSTIBLE MATERIAL SECURELY ATTACHED TO THE STRUCTURE AND DESIGNED TO CARRY GRAVITY AND SEISMIC LADS WITHIN THE STREET LIMITATIONS OF THE CODE. BOLTS, SCREWS, RIVETS AND OTHER MECHANICAL FASTENERS SHALL NOT PENETRATE
- VERTICAL RISER WITH PROVISION FOR CLEANOUT IN ACCORDANCE
- ▼13. A GREASE DUCT SERVING THE TYPE-1 HOOD THAT PENETRATED A CEILING, WALL OR FLOOR SHALL BE ENCLOSED FROM THE FIRE POINT OF PENETRATION TO THE OUTLET TERMINAL. DUCT ENCLOSURES SHALL HAVE A FIRE-RESISTANCE RATING NOT LESS THAN THAT OF THE FIRE-RESISTANCE RATED ASSEMBLY PENETRATED
- FEET HORIZONTALLY FROM PARTS OF THE SAME OR CONTIGUOUS BUILDINGS, ADJACENT BUILDINGS AND ADJACENT PROPERTY LINE. THIS EXHAUST OUTLETS SHALL BE LOCATED NOT LESS THAN 10 FEET HORIZONTALLY FROM AND NOT LESS THAN 3 FEET ABOVE AIR
- 15. PROVIDE TYPE-I EXHAUST DUCT FOR HOOD-1 & HOOD-2 EXHAUST,
- 16. PROVIDE UL LISTED 2 LAYERS OF 1.5" THICK FIRE WARP, TESTED IN ACCORDANCE WITH ASTM E2336 FOR TYPE-I EXHAUST DUCTS. FIRE WRAP TO PROVIDE 1 HR ENCLOSURE PER SECTION 510.7, CMC 2022. THROUGH PENETRATION FIRE STOP SYSTEMS ARE TO BE TESTED IN ACCORDANCE WITH ASTM E 814 (UL1479). FOIL

MECHANICAL FLOOR PLAN | SCALE: 1/4"=1'-0" | 1

GENERAL NOTES:

- 1. IF EXISTING ROOFTOP UNITS BEING REUSED, TENANT TO BRING UP TO "LIKE NEW" CONDITION.
- ALL ROOFTOP EQUIPMENT TO BE BOTTOM FED. NO EXPOSED DUCT
 - WORK ALLOWED ON ROOF. REWORK EXISTING AS NEEDED. 3. ALL CONDENSATE LINES TO DRAIN INTO SPACE AND NOT ONTO
- ROOF. REWORK EXISTING AS NEEDED. 4. ALL ROOF PENETRATIONS TO BE MADE WITHIN 24" OF CURB.
- 5. PROVIDE MALL WITH A COPY OF AIR BALANCE REPORT.
- 5. STENCIL TENANT'S NAME & SPACE NUMBER ON ALL ROOFTOP
- REMOVE ANY EXISTING ROOFTOP HVAC EQUIPMENT NOT BEING REUSED IN NEW BUILD OUT.
- 8. ANY ROOF PATCHING BY MALL'S REQUIRED ROOFER AT TENANT'S EXPENSE.

MECHANICAL GENERAL NOTES

EQUIPMENT.

- A. CONTRACTOR SHALL BALANCE EACH DEVICE WITH THE CFM SHOWN ON PLAN. B. NEW DUCTWORK SHOWN ON PLAN ARE SCHEMATIC ONLY. CONTRACTOR SHALL COORDINATE WITH OTHER TRADES FOR PIPING AND DUCTWORK ROUTING. OFFEST AND RUN PIPING, DUCTWORK
- INSIDE THE STRUCTURE IF REQUIRED. PROVIDE ANY EXTRA PIPING, DUCTWORK, FITTINGS, INSULATIONS AND OTHER ACCESSORIES IN ORDER TO COMPLETE THE INSTALLATION. COORDINATE LOCATIONS AND SIZES OF ROOF OPENINGS WITH OWNER AND STRUCTURAL ENGINEERS. EQUIPMENT SIZES, DIMENSIONS AND REQUIRED CONNECTIONS
- SHALL BE VERIFIED WITH THE ACTUAL EQUIPMENT SELECTED VENDOR DRAWINGS BEFORE FABRICATION OF DUCTWORK, PIPING DUCT SIZES SHOWN ON PLANS ARE CLEAR INSIDE AIR STREAM DIMENSIONS.
- CONTRACTOR SHALL COORDINATE ALL ELECTRICAL REQUIREMENTS FOR ALL HVAC BASED ON ACTUAL EQUIPMENT SELECTED PRIOR TO INSTALLATION. . CONTRACTOR SHALL COORDINATE EQUIPMENT WEIGHTS AND SUPPORTS BASED ON ACTUAL EQUIPMENT SELECTED.
- H. COORDINATE WITH ALL TRADES FOR MATERIALS IN RATED AND PLENUM SPACES. MOUNT DUCTWORK AS HIGH AS POSSIBLE. TEST AND BALANCE AIR SYSTEMS. PROVIDE REPORT TO G.C AND
- . PROVIDE R-8 INSULATION FOR OAI DUCT AND R-8 INSULATION FOR SUPPLY AND RETURN DUCT. PROVIDE 1" CONDENSATE DRAIN FOR ALL AC'S.
- M. PROVIDE FIRE OR FIRE+SMOKE DAMPER WHEREVER DUCTS ARE CROSSING FIRE/SMOKE RATED WALLS/ BARRIERS. COORDINATE WITH ARCHITECTURAL DRAWING FOR FIRE RATING OF THE WALLS. N. DUCT TO EXHAUST FAN CONNECTIONS SHALL BE FLANGED, GASKETED AND BOLTED TO THE INLET OF THE FAN FOR SIDE-INLET UTILITY FANS APPROVED FLEXIBLE CONNECTIONS MAY BE PROVIDED.
- ALL EQUIPMENT SHALL MAINTAIN MINIMUM CLEARANCE FROM THE COMBUSTIBLE MATERIAL AS PER MANUFACTURE RECOMMENDATION. . PROVIDE ACCESS TO FIRE DAMPERS AND FSD AS PER
- MANUFACTURES RECOMMENDATION. Q. PROVIDE CORD OPERATED DAMPER IN AN INACCESSIBLE CEILING.

KEY NOTES:

- $\langle 1 \rangle$ approximate location of existing ductworks drop for RTU-1(E). CONTRACTOR TO VERIFY THE EXACT SIZE AND LOCATION
- REUSE EXISTING SMOKE DETECTOR, IF SMOKE DETECTOR IS NOT IN GOOD CONDITION THEN INSTALL NEW SMOKE DETECTOR & IT SHALL BE FURNISHED/INSTALLED BY MECHANICAL CONTRACTOR AND WIRED BY ELECTRICAL CONTRACTOR TO SHUT DOWN CORRESPONDING RTU UNDER ALARM CONDITIONS. ALL WIRING SHALL BE IN CONDUIT PER NEC SMOKE DETECTOR SHALL BE SYSTEM SENSOR MODEL DH100ACDCLP OR EQUAL.DUCT SMOKE DETECTORS SHALL COMPLY
- REUSE EXISTING FIRE DAMPER, IF FIRE DAMPER IS NOT IN GOOD CONDITION THEN INSTALL NEW FIRE DAMPER & IT SHALL BE FURNISHED/INSTALLED BY MECHANICAL CONTRACTOR.
- RELOCATE AND REUSE EXISTING THERMOSTAT, IF EXISTING THERMOSTAT IS NOT IN CONDITION TO REUSE THEN INSTALL NEW THERMOSTAT WITH LOCKABLE VENTED BOX TO BE MOUNTED AT 45" CENTER LINE A.F.F. COORDINATE EXACT LOCATION WITH ARCHITECT AND OWNER PRIOR TO ROUGH-IN.
- (5) PROVIDE 1" CONDENSATE PIPING TO KITCHEN SINK W/ AIR GAP

THE EXTERIOR WALL AND ROOFS, 3 FEET FROM THE OPERABLE OPENING INTO THE BUILDING AND 10 FEET FROM THE OUTSIDE AIR

- FITTING. COORDINATE W/PLUMBING CONTRACTOR. TOILET ROOM EXHAUST AIR DUCT UP THROUGH ROOF. TERMINATE ON ROOF WITH GOOSENECK WITH BIRD SCREEN. BATHROOM EXHAUST SHALL TERMINATE 3 FEET FROM THE PROPERTY LINE, 3 FEET FROM
- (7) COORDINATE EXACT LOCATION OF ANSUL CABINET AS PER SITE

SECTION 230593 - TESTING, ADJUSTING, AND BALANCING FOR HVAC

INTAKE OPENINGS.

1.1 SUMMARY A. TESTING, ADJUSTING, AND BALANCING FOR THE FOLLOWING:

1. AIR SYSTEMS: CONSTANT-VOLUME.

- 1.2 QUALITY ASSURANCE A. THE CONTRACTOR SHALL PROCURE THE SERVICES OF A TESTING ADJUSTING AND BALANCING (TAB) SPECIALIST WHO SPECIALIZES HEATING, VENTILATION AND AIR CONDITIONING SYSTEMS. THE TAB AGENT SHALL HAVE THE FOLLOWING QUALIFICATIONS: AABC, NEBB OR TABB
- .3 EXECUTION A. THE TAB SPECIALIST SHALL PERFORM FLOW MEASUREMENTS OF AL
- EXISTING AIR SYSTEMS THAT ARE TO REMAIN OR TO BE INCORPORATE INTO THE STARTING OF WORK IN THE PROJECT SCOPE. A REPORT O THESE MEASUREMENTS, INDICATING ANY AND ALL DEFICIENCIES SHALL BE SUBMITTED FOR OWNER REVIEW.
- B. THE TAB SPECIALIST SHALL PERFORM FLOW MEASUREMENTS OF ALL NEW AIR SYSTEMS AS LISTED ABOVE IN THE PROJECT SCOPE. REPORT OF THESE MEASUREMENTS, INDICATING ANY AND ALL DEFICIENCIES SHALL BE SUBMITTED FOR OWNER REVIEW.
- C. THE REPORT SHALL INDICATE A SCHEMATIC DIAGRAM INDICATIN LOCATIONS OF ALL EQUIPMENT TESTED AND MEASUREMENT LOCATIONS. D. PRIOR TO FINAL INSPECTION OF THE WORK, THE TAB SPECIALIST SHAI BALANCE ALL SYSTEMS AS INDICATED ABOVE TO THE REQUIREMENTS OF
- E. THE CONTRACTOR SHALL HAVE FURNISH AND INSTALL ALL ADDITIONAL BALANCING EQUIPMENT, PRESSURE TAPS, GAUGES AND OTHE EQUIPMENT AS REQUIRED FOR A PROPERLY BALANCED SYSTEM AT N ADDITIONAL COST TO THE OWNER. SUCH ADDITIONAL EQUIPMENT SHAL ADHERE IN STRICT ACCORDANCE WITH THE RESPECTIVE EQUIPMENT MANUFACTURER'S RECOMMENDATIONS.
- F. THE CONTRACTOR SHALL HAVE THE TESTING AND BALANCING SPECIALIS COORDINATE ALL WORK OF THIS SECTION WITH THE BUILDING MANAGER BALANCING WORK SHALL NOT CONFLICT WITH OTHER WORK SO AS T MAINTAIN COMPLETION WITHIN THE SPECIFIED TIME.
- G. ALL INSTRUMENTS USED FOR TAB SHALL BE MAINTAINED IN GOOD WORKING CONDITION AND ACCURATELY CALIBRATED.
- H. TOLERANCES: PLUS OR MINUS 5 PERCENT OF DESIGN VALUES. I. INSPECTIONS: RANDOM CHECKS BY OWNER OR ARCHITECT TO VERIFY FINAL TESTING, ADJUSTING, AND BALANCING REPORT.
- J. ADDITIONAL TESTS: RANDOM TESTS WITHIN 90 DAYS OF COMPLETING TAB TO VERIFY BALANCE CONDITIONS AND SEASONAL TESTS. END OF SECTION 230593

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03-25-2025 SITE COORDINATION

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It is the clients responsibility prior to or during construction to notify the architect in writing of any perceived errors or omissions in the plans and specifications of which a contractor thoroughly knowledgeable with the building instructions addressing such perceived errors or omissions shall be received the work. The client will be responsible for any defects in construction if these procedures are not followed.

MECHANICAL FLOOR PLAN

M-2.0

DUCT CONNECTED— TO GOOSENECK AT ROOF. RTU-1(E) 10 TON MECHANICAL GENERAL NOTES

- A. COORDINATE LOCATIONS AND SIZES OF ROOF OPENINGS WITH OWNER AND STRUCTURAL ENGINEERS.
- B. EQUIPMENT SIZES, DIMENSIONS AND REQUIRED CONNECTIONS SHALL
 BE VERIFIED WITH THE ACTUAL EQUIPMENT SELECTED VENDOR DRAWINGS BEFORE FABRICATION OF DUCTWORK, PIPING ETC.
- C. CONTRACTOR SHALL COORDINATE ALL ELECTRICAL REQUIREMENTS FOR ALL HVAC BASED ON ACTUAL EQUIPMENT SELECTED PRIOR TO INSTALLATION. D. CONTRACTOR SHALL COORDINATE EQUIPMENT WEIGHTS AND SUPPORTS
- BASED ON ACTUAL EQUIPMENT SELECTED. E. COORDINATE WITH ALL TRADES FOR MATERIALS IN RATED AND
- PLENUM SPACES. F. TEST AND BALANCE AIR SYSTEMS. PROVIDE REPORT TO G.C AND
- H. MAINTAIN ALL CODE AND MANUFACTURERS RECOMMENDED CLEARANCE AROUND ALL ROOF EQUIPMENT. I. PROVIDE WEATHER PROOF COATING FOR ALL EXTERIOR DUCTING AND

G. COORDINATE ALL EQUIPMENT WITH STRUCTURAL.

- PROVIDE R-12 INSULATION FOR OAI DUCT. K. PROVIDE FIRE OR FIRE+SMOKE DAMPER WHEREVER DUCTS ARE
- CROSSING FIRE/SMOKE RATED WALLS/ BARRIERS. COORDINATE WITH ARCHITECTURAL DRAWING FOR FIRE RATING OF THE WALLS. L. CONTRACTOR TO PROVIDE INSTALLATION AND START-UP FORMS FOR ALL THE GAS-FIRED EQUIPMENT AT THE TIME OF MECHANICAL FINAL INSPECTION.

ALL OUTSIDE AIR INTAKES ON THE ROOF SHALL BE MINIMUM 10 FT. AWAY FROM ANY EXAHUST SOURCE.

EXISTING RTU WITH ALL ITS ACCESORIES TO REMAIN AND TO BE REUSED. CONTRACTOR TO FIELD VERIFY EXACT LOCATION AND CONFIGURATION ON SITE.

(3) CONTRACTOR TO RUN CONDENSATE DRAIN FROM MAU-1'S TO NEAREST ROOF DRAIN OR DOWN SPOUT. COORDINATE IN FIELD.

4 WALK-IN COOLER AND FREEZER CONDENSER BY OTHERS.

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DUMPLING

1	04-23-2024 CITY COMMENTS
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MECHANICAL ROOF PLAN

MECHANICAL ROOF PLAN SCALE: 1/4"=1'-0" 1

M-2.1

REVISIONS DESCRIPTION DATE:

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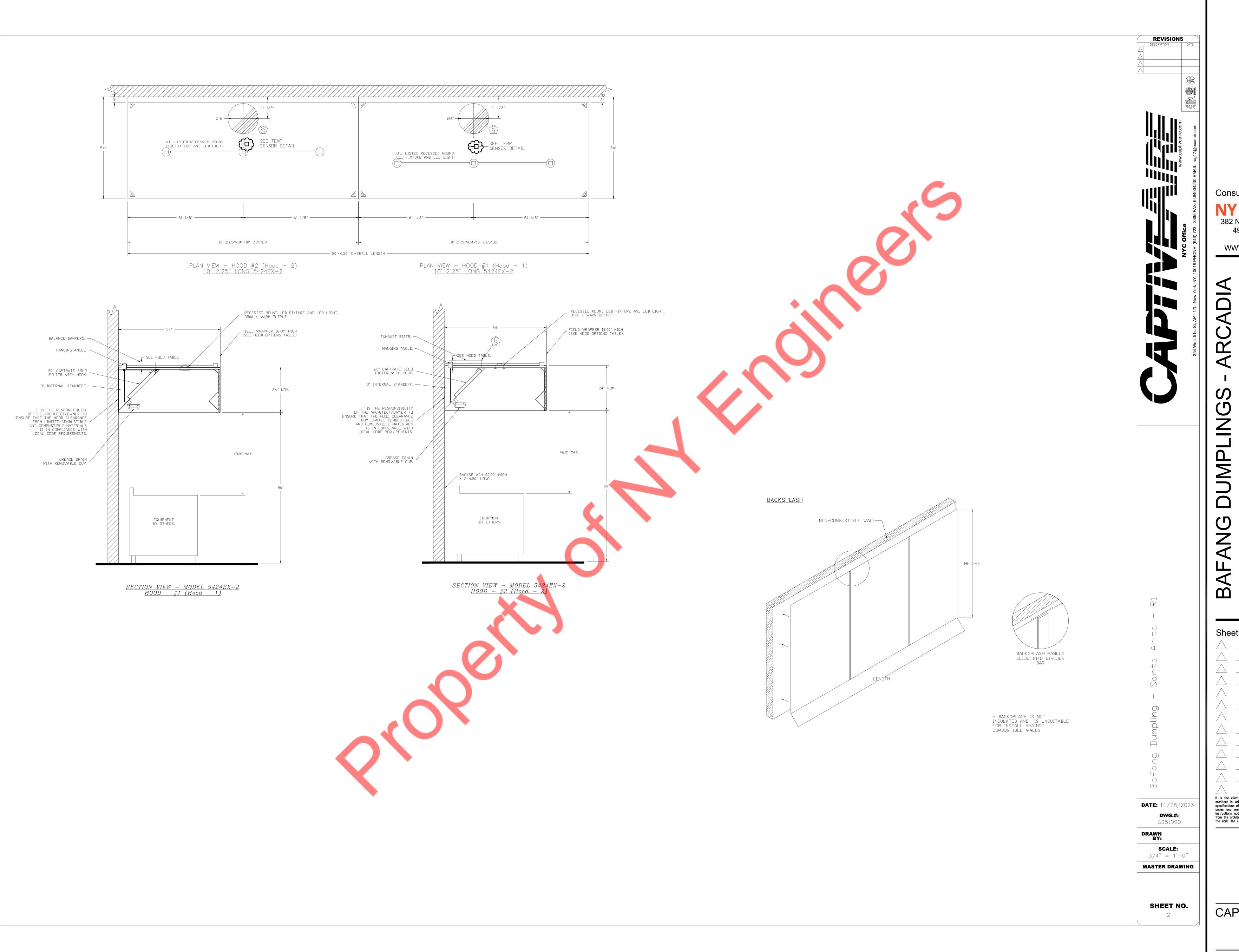
DATE: 11/28/2023 specifications of which a contractor thoroughly knowledgeable with the building codes and methods of construction should reasonably be aware. Written instructions addressing such perceived errors or omissions shall be received the work. The client will be responsible for any defects in construction if these procedures are not followed.

3/4" = 1'-0"

MASTER DRAWING

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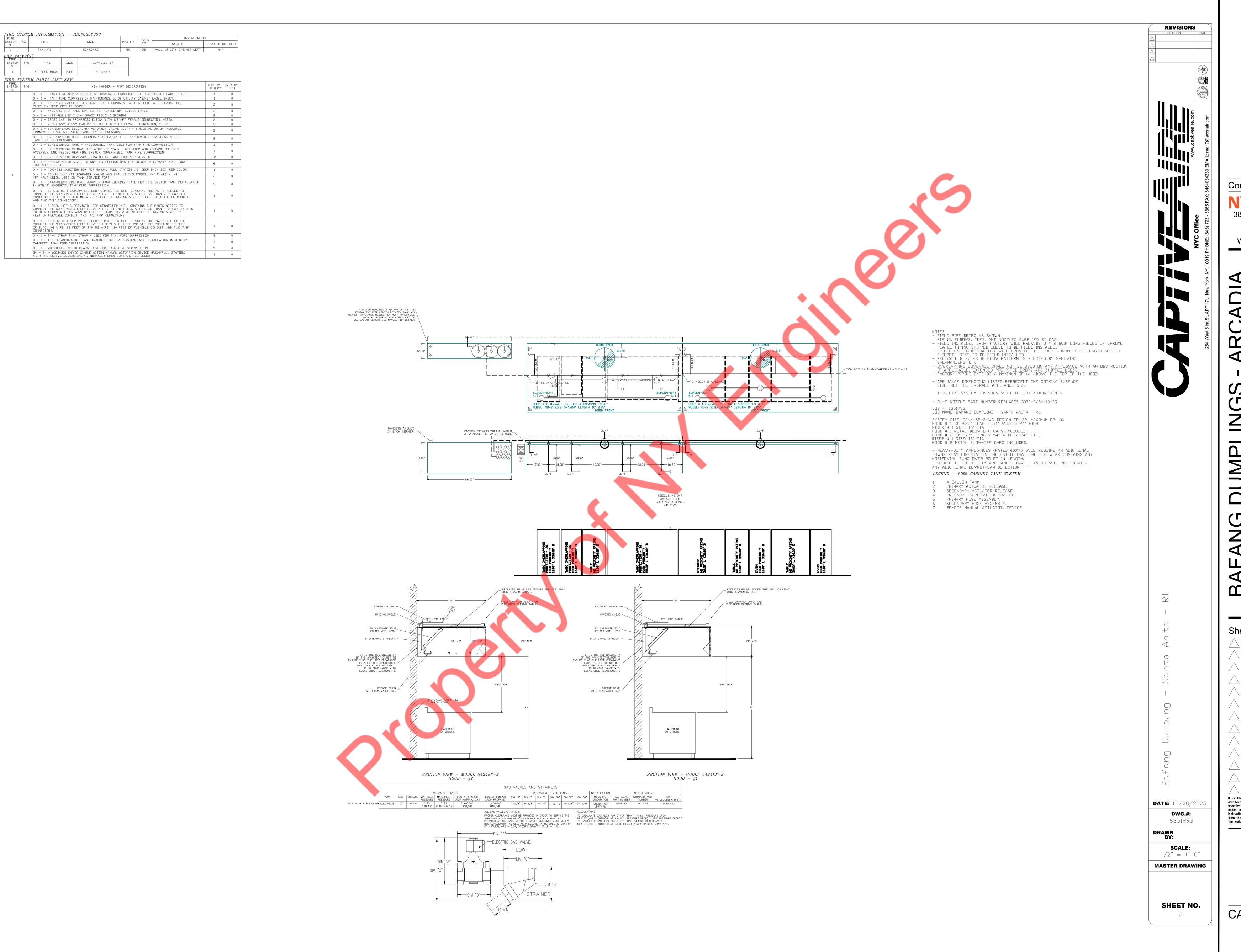
SHEET NO. CAPTIVE AIRE PLAN



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CAPTIVE AIRE PLAN



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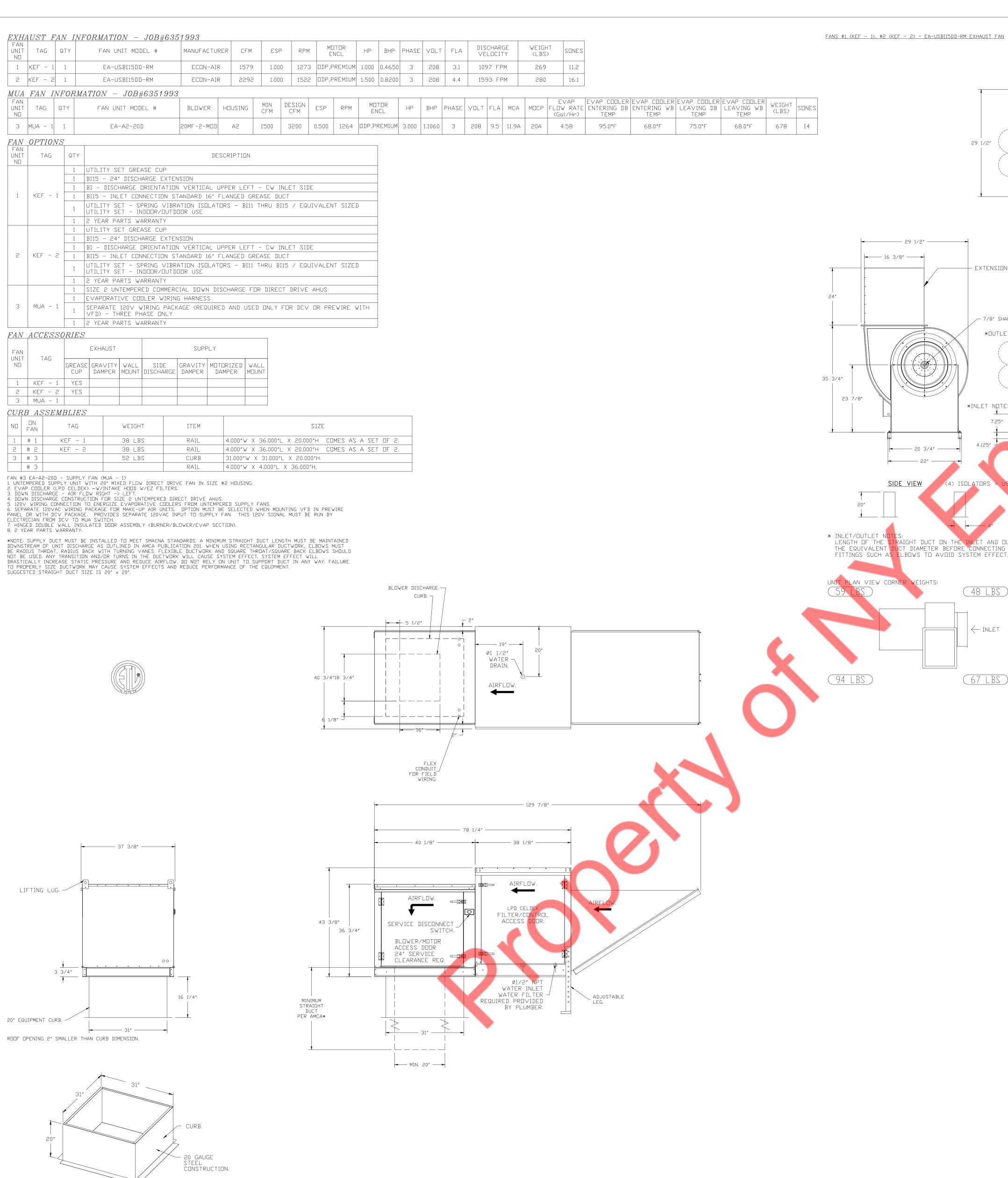
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CAPTIVE AIRE PLAN

M-3.4



— 3″ FLANGE.

32 5/8"

FEATURES:

- HEAT SLINGER.

- FLANGE 1 1/4".

- UL705.

- 2" DRAIN.

- ROOF MOUNTED FANS.

- MOTOR WEATHER COVER.

- SCROLL ACCESS DOOR.

- UL762 AND ULC-S645 (RESTAURANT MODEL).

- NEMA 3R SAFETY DISCONNECT SWITCH.

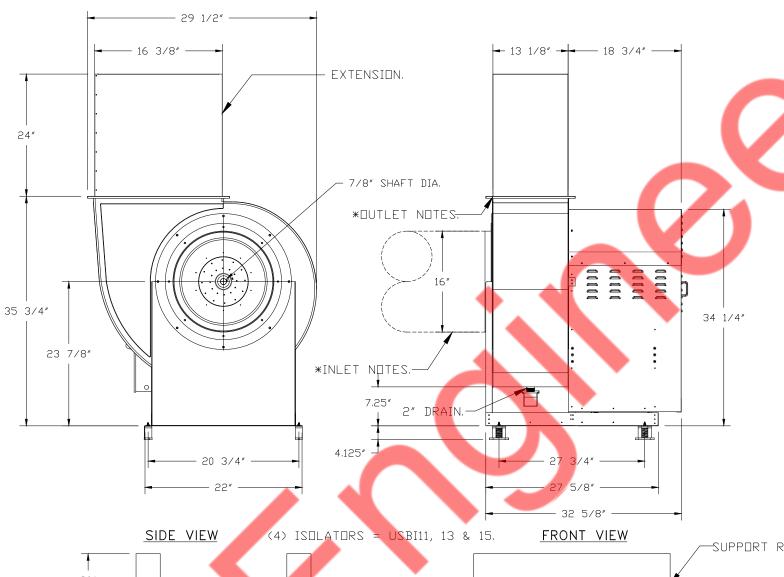
- GREASE CLASSIFICATION TESTING.

- FULLY SEALED SCROLL HOUSING,

- UTILITY SET GREASE CUP.
- B115 - 24" DISCHARGE EXTENSION.
- BI - DISCHARGE ORIENTATION VERTICAL UPPER LEFT - CW INLET SIDE.
- B115 - INLET CONNECTION STANDARD 16" FLANGED GREASE DUCT.
- UTILITY SET - SPRING VIBRATION ISOLATORS - B111 THRU B115 / EQUIVALENT SIZED UTILITY SET - INDOOR/OUTDOOR USE.
- 2 YEAR PARTS WARRANTY.

- HIGH HEAT OPERATION DIRECT DRIVE 350°F (176°C).

TOP VIEW



LENGTH OF THE STRAIGHT DUCT ON THE INLET AND OUTLET TO BE 3 TIMES
THE EQUIVALENT DUCT DIAMETER BEFORE CONNECTING TO ANY FITTINGS SUCH AS ELBOWS TO AVOID SYSTEM EFFECT.

PLAN VIEW CORNER WEIGHTS: CORNER WEIGHTS ARE CALCULATED BASED ON VERTICAL DISCHARGE. 48 LBS SUPPORT DUCT PROPERLY BEFORE FAN TO ENSURE CORNER WEIGHTS ARE NOT AFFECTED. $|\leftarrow$ INLET

WHILE EXHAUSTING AIR AT 350°F (176°C)

THERMAL EQUILIBRIUM, AND WITHOUT ANY DETERIORATING EFFECTS TO THE FAN WHICH

UNTIL ALL FAN PARTS HAVE REACHED

WOULD CAUSE UNSAFE OPERATION.

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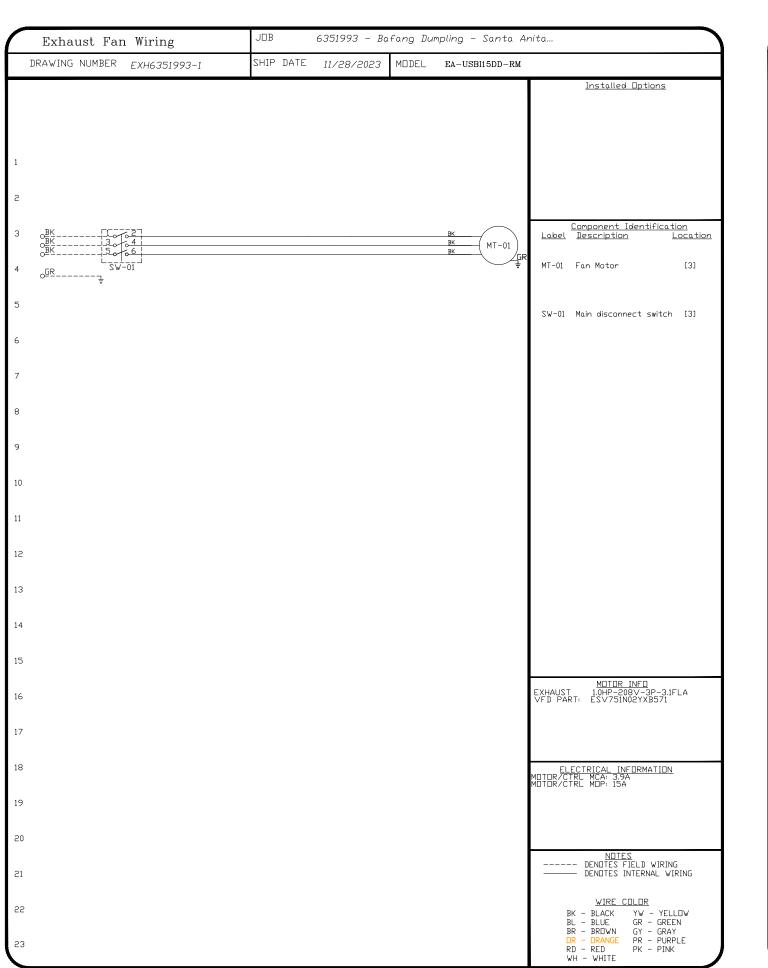
3/4" = 1'-0" **MASTER DRAWING**

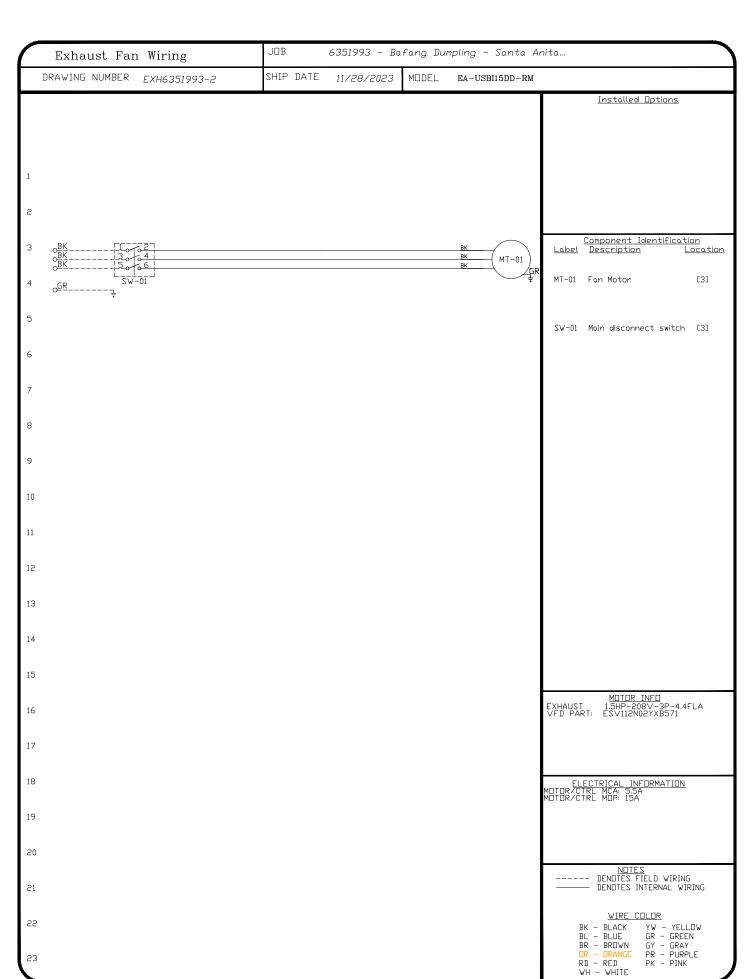
DATE: 11/28/2023

SHEET NO.

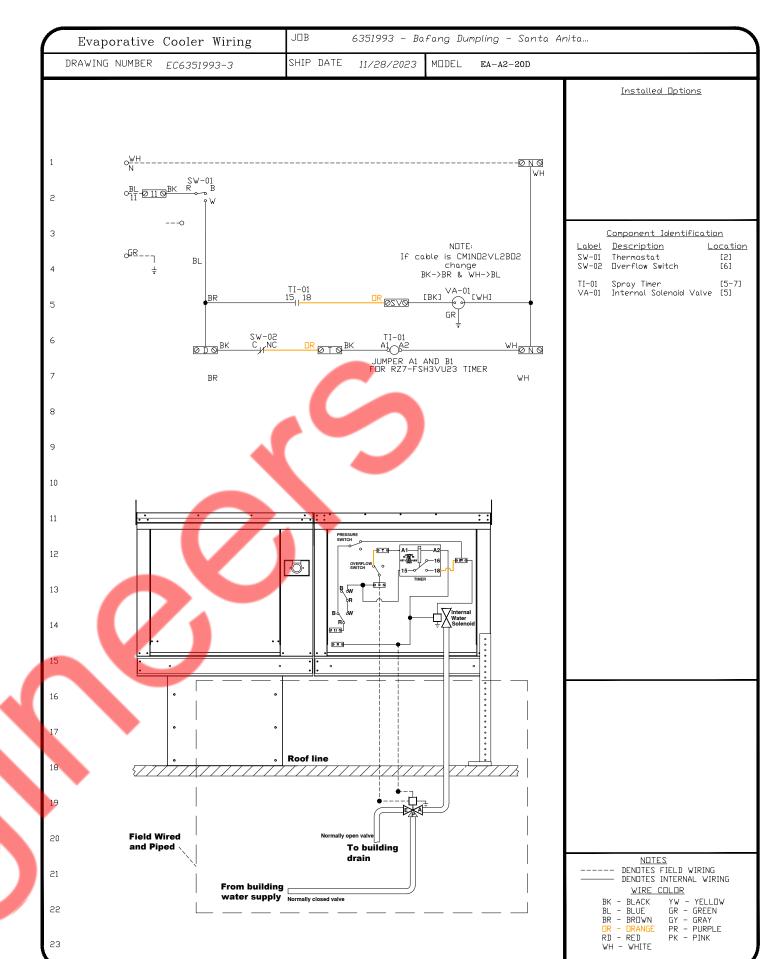
DRAWN BY:

CAPTIVE AIRE PLAN





AirHandler Wiring	J□B 6351993 - Bafang Dumpling - Santa Ar	nita
DRAWING NUMBER A6351993-3	SHIP DATE 11/28/2023 MODEL EA-A2-20D	
!ATTENTION ELECTRICIAN! DROP FOR DISCONNECT CONNECTION IS FACTORY SUPPLIED CONNECT POWER TO THE DROP		<u>Installed Options</u> Cooling Interlock DCV/VFD Wiring
2	WH (DCV_NI) WOCP = 10 AMPS FOR CONTROL VIRING (MAY NOT BE NEEDED DEPENDING ON OPTIONS) IF DCV IS NOT PRESENT, RD AND WH WIRES FROM SEPARATE 120VAC SOURCE	Component Identification Label Description Location MT-01 Supply motor [2]
7 8 9 0 N 10		
1 2 3 4		SW-01 Main disconnect switch [2]
5		MOTOR INFO SUPPLY 3.0HP-208V-3P-9.5FLA VFD PART: ESV222N02YXB571
9		ELECTRICAL INFORMATION MOTOR CIRCUIT MCA: 11.9A CONTROL CIRCUIT MCA: 10.4 MOTOR CIRCUIT MOP: 20.4 MOTOR CIRCUIT MOP: 15A CONTROL CIRCUIT MOP: 15A
20 21 22		NOTES DENOTES FIELD WIRING DENOTES INTERNAL WIRING ** 14 AWG
23		WIRE COLOR BK-BLACK YW - YELLOW RD - RED BL-BLUE GR - GREEN WH - WHITE BR - BROWN GY - GRAY PK - PINK OR - ORANGE PR - PURPLE





REVISIONS DESCRIPTION DATE:

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 t is the o	clients responsibility prior to or during construction to notify

CAPTIVE AIRE PLAN

M - 3.6

6351993

SCALE: 3/4" = 1'-0"

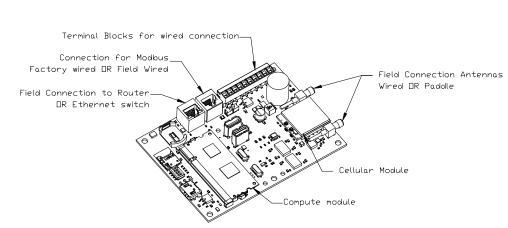
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DRAWN BY:

ELECTRICAL PACKAGE - JOB#6351993

NΠ	TAG	PACKAGE	" LOCATION	SWITCHE	2	OPTION	FANS	CONTROLL	ED			
		#		LOCATION	QUANTITY		FAN TAG	TYPE	ф	HP	VOLT	FLA
				WALL UTILITY CAB.	1 LIGHT		KEF - 1	EXHAUST	3	1.000	208	3.1
1		DCV-2111	WALL UTILITY CABINET LEFT	ON LEFT END		SMART CONTROLS DCV	KEF - 2	EXHAUST	3	1.500	208	4.4
				H00D # 2	1 FAN		MUA - 1	SUPPLY	3	3,000	208	9.5



<u>CASlink Monitor and Control</u>

- Hood control panel to support communications to cloud-based Building Management System.

- Hood Control Panel to allow cloud-based Building Management System to monitor real time parameters outlined as MONITOR in the points list.

— Hood Control Panel to allow cloud—based Building Management System to control parameters outlined as CONTROL in the points list. - Hood Control Panel to allow cloud-based Building Management System to implement SYSTEM ECONOMIZER control strategies for fully integrated Building

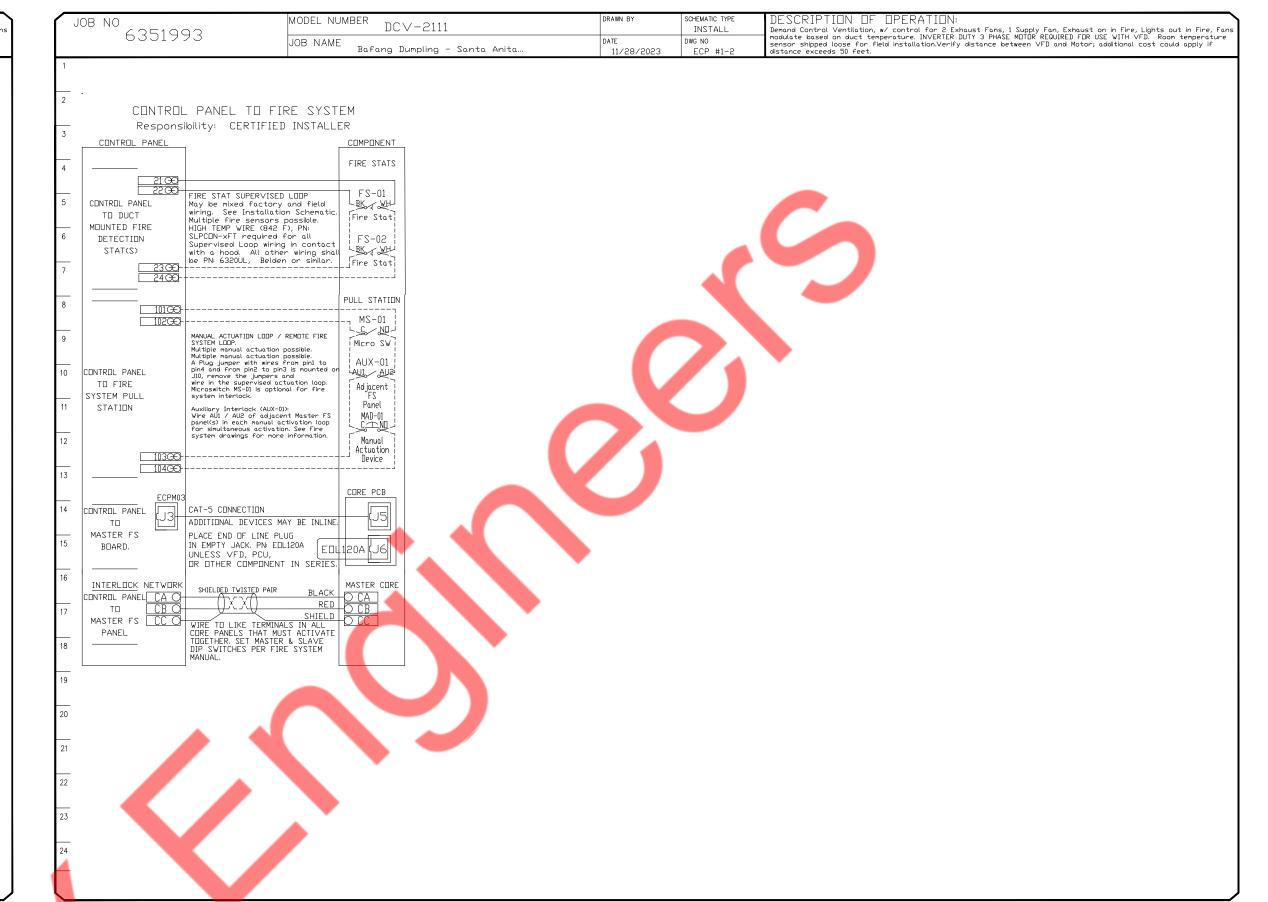
<u>MC</u>	NITORING AND	CONTROL POINTS LIST	
DCV Packages	Function	SC Packages	Function
Room Temperature	MONITOR	Room Temperature(s)	MONITOR
Duct Temperature(s)	MONITOR	Duct Temperature(s)	MONITOR
MUA Discharge Temperature	MONITOR	MUA DIscharge Temperature	MONITOR
Kitchen RTU Discharge Temperature	MONITOR	Kitchen RTU Discharge Temperature	MONITOR
Fan Speed	MONITOR	Controller Faults	MONITOR
Fan Amperage	MONITOR	Fan Faults	MONITOR
Fan Power	MONITOR	Fan Status	MONITOR
VFD Faults	MONITOR	PCU Faults	MONITOR
Controller Faults	MONITOR	PCU Filter Clog Percentages	MONITOR
Fan Faults	MONITOR	Fire Condition	MONITOR
Fan Status	MONITOR	CORE Fire System	MONITOR
PCU Faults	MONITOR	Building Pressures	MONITOR
PCU Filter Clog Percentages	MONITOR	Fans Button(s)	MONITOR & CONTROL
Fire Condition	MONITOR	Lights Button(s)	MONITOR & CONTROL
CORE Fire System	MONITOR	Wash Button	MONITOR & CONTROL
Building Pressures	MONITOR		1
Prep Time Button	MONITOR & CONTROL		

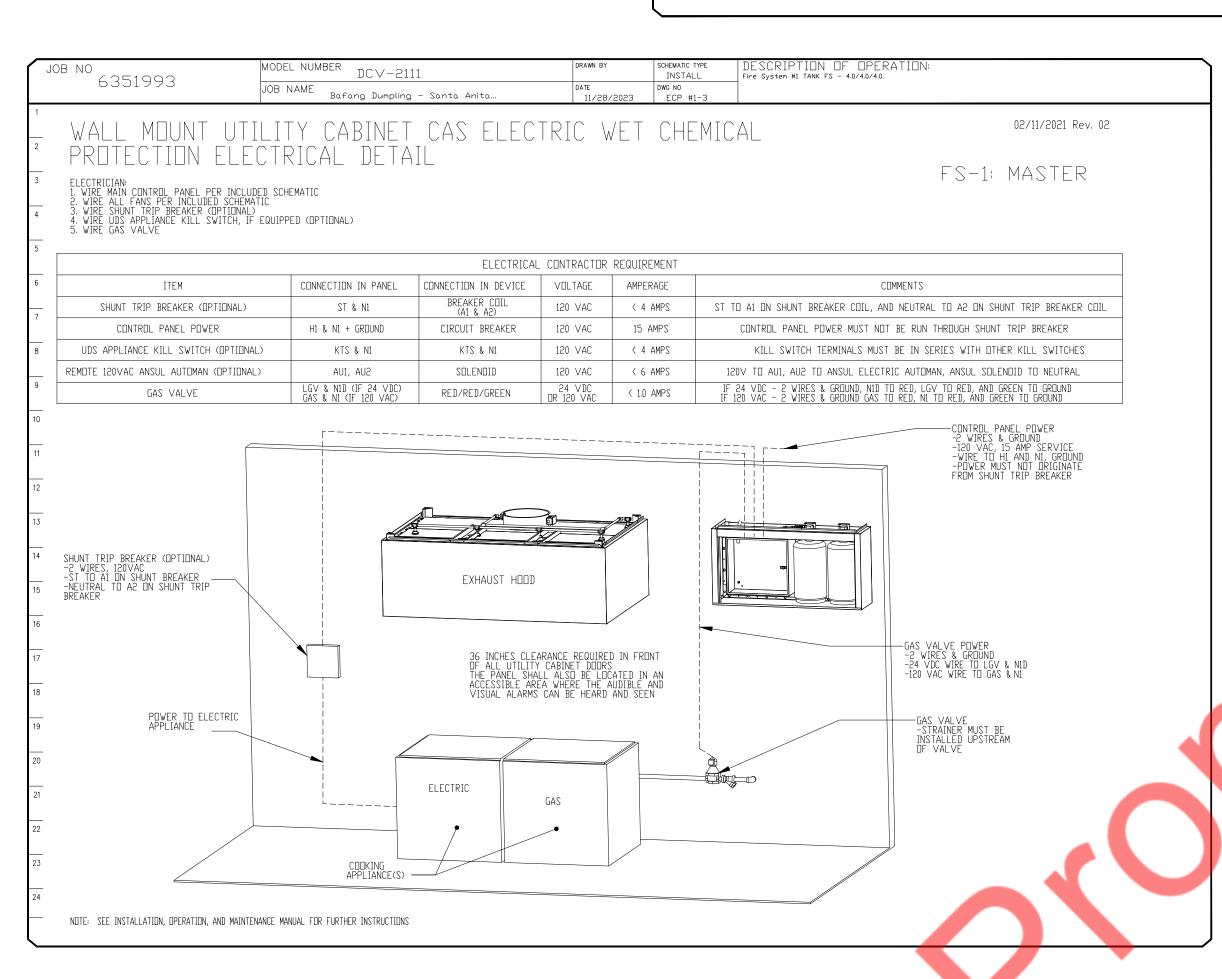
MONITOR & CONTROL

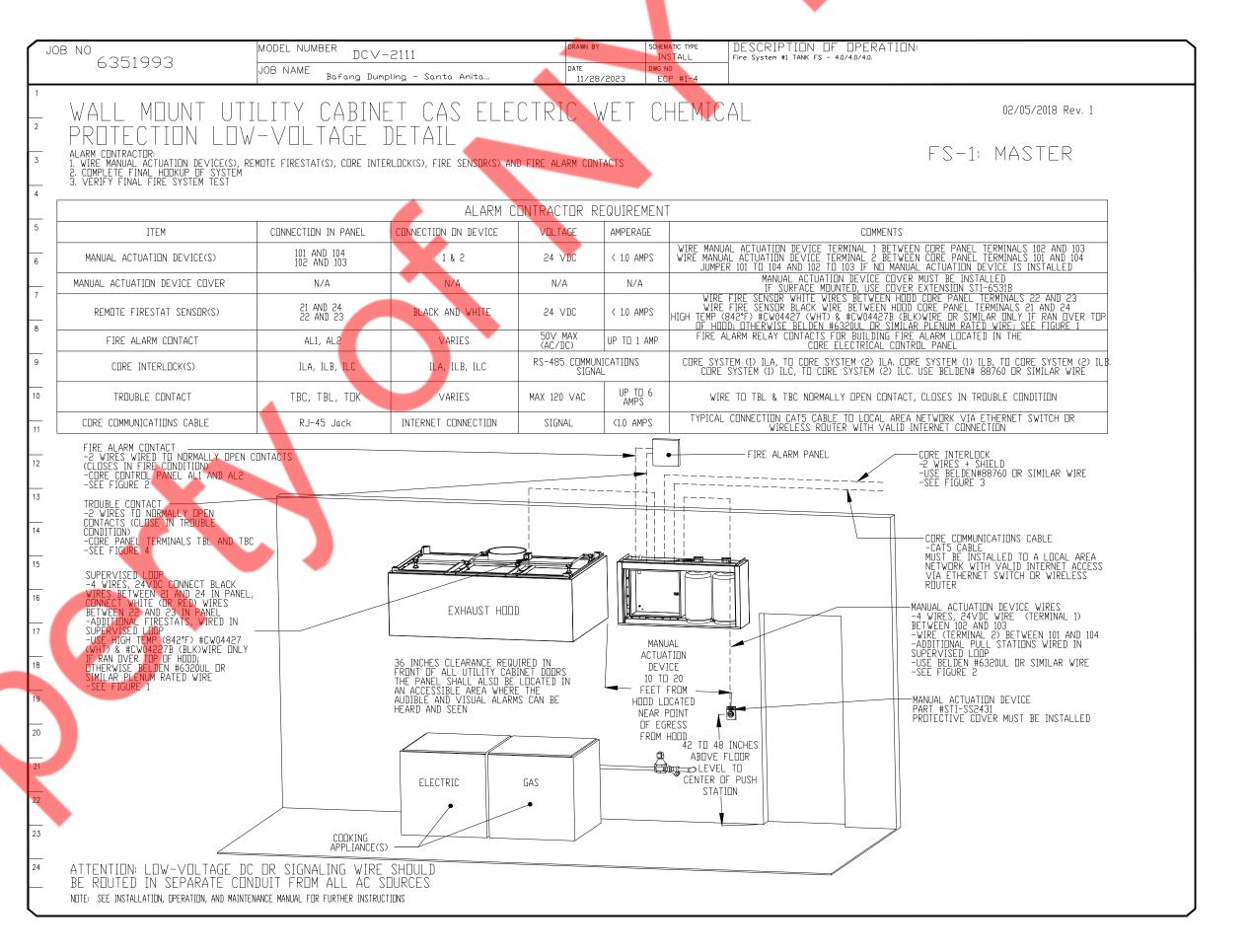
MONITOR & CONTROL

Fans Button

JOB NO	MODEL NUMBER DCV-2111		1	MATIC TYPE ISTALL	DESCRIPTION Demand Control Vent	DF DPERATION:	naust Fans, 1 Supply Fan, Exhaust on i	in Fire. Lights out in Fire. Fo
6351993	JOB NAME Bafang Dumpling - S	anta Anita	DATE DWG		modulate based on d sensor shipped loose distance exceeds 50	· for field installation.Verify	naust Fans, 1 Supply Fan, Exhaust on i DUTY 3 PHASE MOTOR REQUIRED FOR USE distance between VFD and Motor; add	WITH VFD. Room temperature litional cost could apply if
1 .		1	_ FAN:	00		Teev.		SHUNT CDIL
BREAKER PANEL TO PRIMARY Responsibility: Elec Responsibility: Elec BREAKER SIZE SHOWN IS THE BREAKER PANEL BREAKER 1PH 120 V 5 15 A CONTROL POWER. DO N TO GFCI OR SHUNT TRI BREAKER. BREAKER. 1ST HOOD LIGHT BREAKER SHAR	PRIMARY CONTROL PANEL	VIRE TO W3 VFD QUICK H1 CONNECTOR N1 IF VFD MOUNTED IN 2ND PANEL, MI	LDAD LEG 1	BLACK BLACK BLACK RED WHITE SREEN	A - 1 FLA:9.5 HP: 3.000 VOILT: 208 V	CONTROL PANEL ST O- SIGNAL FOR NI O- EXTERNAL SHUNT TRIP CONTROL PANEL KS O- SIGNAL FOR NI O- EXTERNAL CONTACTOR COIL	HOT TO SHUNT COIL NEUTRAL FROM SHUNT COIL ST TERMINAL IS ENERGIZED IN FIRE CONDITION. HOT TO CONTACTOR COIL NEUTRAL TO CONTACTOR COIL KS TERMINAL IS DE-ENERGIZED IN FIRE CONDITION. COMMON	CONTACTOR_COIL
7 BREAKER 3PH 208 V MCA: 3.9 A MDCP: 15 A KEF - 1 SM-1	LINE L2 LINE L3 Ground OGND		IEL TO ACCESSOF nsibility: Electricio		DNENT	CONTROL PANEL SFCIO- DRY CONTACT SFOIO- UN/OFF WITH SFC2O- SUPPLY FAN SFO2O- GROUP 1	NORMALLY OPEN COMMON NORMALLY OPEN SPARE CONTACTS WILL MAKE COMMON TO NORMALLY OPEN WHEN SUPPLY FAN IS ON.	
9 BREAKER 3PH 208 V 10 MCA: 5.5 A MDCP: 15 A EXH-2 SM-2	LINEL4 LINEL5 LINEL6	100acec 1/11/11/11	. SWITCHES FACTORY WIREI -5 CONNECTION	HOOD L	IGHTS 1	DCV SPEED VI+O-0-10V DUTPUT VI-O-0-0 PCB (TDTAL) VFD ANALOG 30 O-	WIRE TO ECPMOS TERMINALS. CONFIGURABLE DUTPUT. SEE ECPMOS DVNERS MANUAL.	
11 WIRE TO VFD QUICK CONNECT BREAKER 3PH 208 V MCA: 11.9 A			RE TO J-BOX ON TOP OF H	HITE REEN)	0-10V DUTPUT 2 0- IN VFD (EACH VFD) CONTROL PANEL H1 0-	WIRE TO VFD TERMINAL STRIP. PRIPORTIONAL TO FREQUENCY. SEE VFD OWNERS MANUAL.	BMS SWITCH
MDCP: 20 A MUA - 1 SM-3 WIRE TO VFD QUICK CONNECT		CONTROL PANEL TO WORLD WIDE WEB UDP	-5 ETHERNET CONNECTION	2)		EXTERNAL SWITCH	SIGNAL SWITCH THROUGH BMS WILL ACTIVATE ZONE1 FANS AND LIGHTS POSITIVE TO GAS VALVE	GAS SOLENOID
CONTROL PANEL T Responsibility: Elec	FANS FAN: 01 KEF - 1	ROOM TEMP SEN	E TO CONTROL BOARD, INST ISDR IN ROOM AWAY FROM H RCES. DO NOT INSTALL SEN	ALL ROOM	TEMP JUPS:	CONTROL PANEL GVO- TO N1D O- GAS VALVE 24V DC ONLY	NEGATIVE NEGATIVE NEGATIVE DNLY ENERGIZED THRDUGH LCD HMI WHEN FIRE SYSTEM ARMED. (NDT NEEDED IF USING 120V GAS VALVE).	
Load Wiring	FLA:3.1 HP: 1.000 VDLT: 208 V	CONTROL PANEL T2A O	THE CEILING GRID, SEE MA	NUAL.			. PANEL TO FIRE SYST sibility: ALARM CONTRACTO	
18 CONNECTOR MUST HAVE ITS DV DD NOT SHARE CON	NDUIT! EXH-2	THE STREET	E TO CONTROL BOARD. SOR MOUNTED IN EXHAUST	DUCT DUCT	TOOSE STAT	CONTROL PANEL		BUILDING ALARM PANEL FIRE INPUT
19 Load Wiring U2	FLA:4.4 HP: 1.500 VDLT: 208 V WIRE TD	TO T3BO WIR	E TO CONTROL BOARD. ISOR MOUNTED IN EXHAUST HOT TO GAS V	DUCT DUCT	COUSE T STAT	SIGNAL FOR BUILDING FIRE ALARM PANEL	AL1 AL2 WIRE DIRECTLY TO CORE CIRCUIT BOARD, AL1 WILL MAKE AL2 IN FIRE	
21 MUST HAVE ITS DV DD NDT SHARE CDN		GAS VALVE ON		TRAL LCD	<u></u> .j	CONTROL PANEL SIGNAL FOR BUILDING TBC O	CONDITION.	BUILDING ALARM PANEL
23			HE FOLLOWING CONNECTI MAY OR MAY NOT BE QUIRED BASED ON JOBS! SPECIFICATIONS			TROUBLE TBL O	NORMALLY CLOSED TROUBLE RELAY CONTACTS WILL MAKE TBC TO TBL IN TROUBLE CONDITION.	
24								







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DWG.#:

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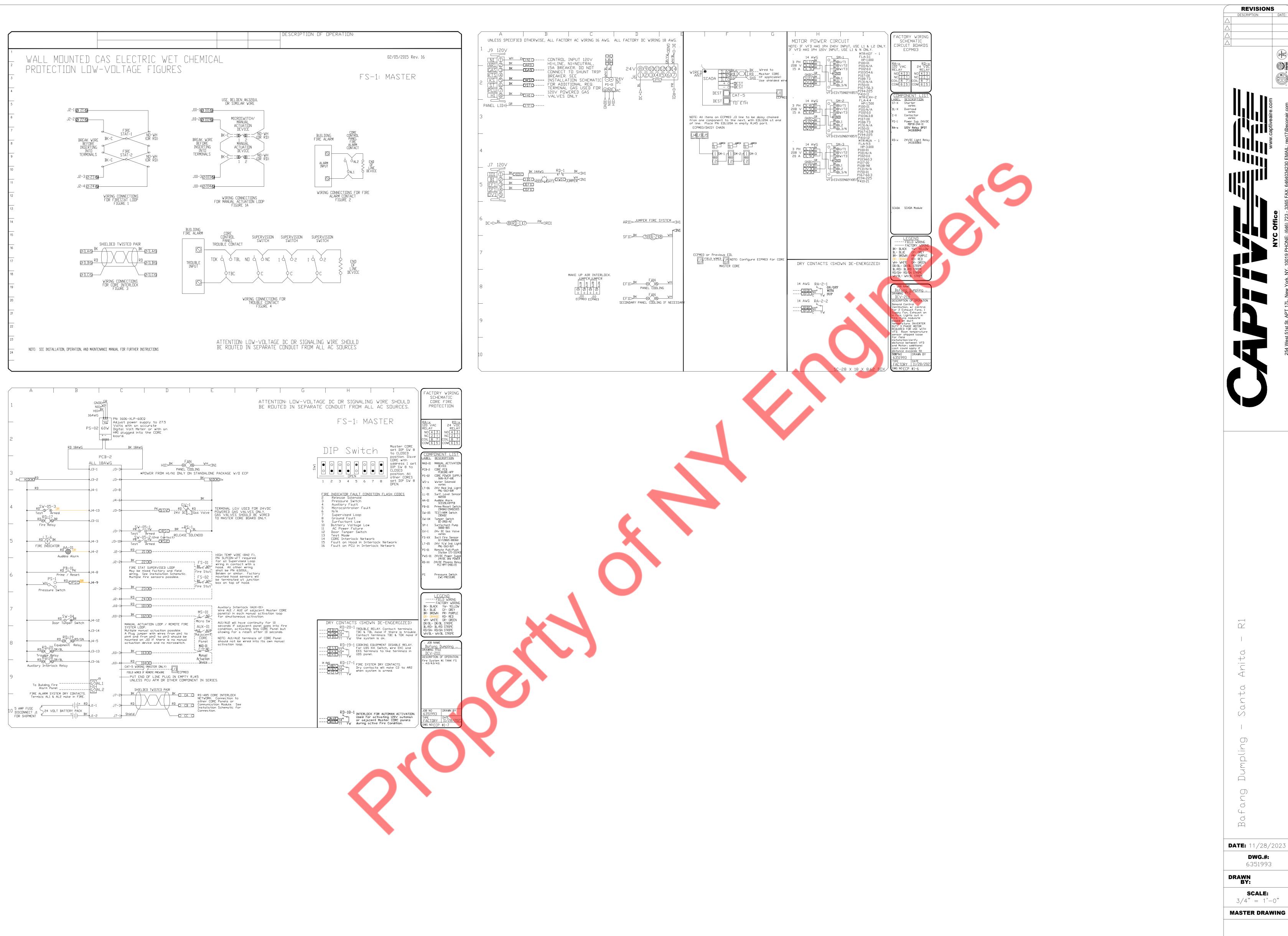
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SHEET NO.

CAPTIVE AIRE PLAN

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SHEET NO.

CAPTIVE AIRE PLAN

M-3.8

DEMAND CONTROL VENTILATION HOOD CONTROL PANEL SPECIFICATIONS - CONTROLS SHALL BE LISTED BY ETL (UL 508A) AND SHALL COMPLY WITH DEMAND VENTILATION SYSTEM TURNDOWN REQUIREMENTS OUTLINED IN IECC 403.7.5 (2021).

- THE CONTROL ENCLOSURE SHALL BE NEMA 1 RATED AND LISTED FOR INSTALLATION INSIDE OF THE EXHAUST HOOD UTILITY CABINET, THE CONTROL ENCLOSURE MAY BE CONSTRUCTED OF STAINLESS STEEL OR PAINTED STEEL.
- TEMPERATURE PROBE(S) LOCATED IN THE EXHAUST DUCT RISER(S) SHALL BE CONSTRUCTED OF STAINLESS STEEL.
- A DIGITAL CONTROLLER SHALL BE PROVIDED TO ACTIVATE THE HOOD EXHAUST FANS DYNAMICALLY BASED ON A FIXED DIFFERENTIAL BETWEEN THE AMBIENT AND DUCT TEMPERATURES SENSORS. THIS FUNCTION SHALL MEET THE REQUIREMENTS OF IMC 507.1.1.
- A DIGITAL CONTROLLER SHALL PROVIDE ADJUSTABLE HYSTERESIS SETTINGS TO PREVENT CYCLING OF THE FANS AFTER THE COOKING APPLIANCES HAVE BEEN TURNED OFF AND/OR THE HEAT IN THE EXHAUST SYSTEM IS REDUCED.
- A DIGITAL CONTROLLER SHALL PROVIDE AN ADJUSTABLE MINIMUM FAN RUN-TIME SETTING TO PREVENT FAN
- VARIABLE FREQUENCY DRIVES (VFDS) SHALL BE PROVIDED FOR FANS AS REQUIRED. THE DIGITAL CONTROLLER SHALL MODULATE THE VFDS BETWEEN A MINIMUM SETPOINT AND A MAXIMUM SETPOINT ON DEMAND, THE DUCT TEMPERATURE SENSOR INPUT(S) TO THE DIGITAL CONTROLLER SHALL BE USED TO CALCULATE THE SPEED REFERENCE SIGNAL.
- THE VFD SPEED RANGE OF OPERATION SHALL BE FROM 0% TO 100% FOR THE SYSTEM, WITH THE ACTUAL MINIMUM SPEED SET AS REQUIRED TO MEET MINIMUM VENTILATION REQUIREMENTS.
- AN INTERNAL ALGORITHM TO THE DIGITAL CONTROLLER SHALL MODULATE SUPPLY FAN VFD SPEED PROPORTIONAL TO ALL EXHAUST FANS THAT ARE LOCATED IN THE SAME FAN GROUP AS THE SUPPLY FAN.
- THE SYSTEM SHALL OPERATE IN PREP MODE DURING LIGHT COOKING LOAD OR COOL DOWN MODE WHEN SUFFICIENT HEAT REMAINS UNDERNEATH THE HOOD SYSTEM AFTER COOKING OPERATIONS HAVE COMPLETED, OPERATION DURING EITHER OF THESE PERIODS WILL DISABLE THE SUPPLY FANS AND PROVIDE AN EXHAUST FAN SPEED THAT IS EQUAL TO THE MINIMUM VENTILATION REQUIREMENT.
- A DIGITAL CONTROLLER SHALL DISABLE THE SUPPLY FAN(S), ACTIVATE THE EXHAUST FAN(S), ACTIVATE THE APPLIANCE SHUNT TRIP, AND DISABLE AN ELECTRIC GAS VALVE AUTOMATICALLY WHEN FIRE CONDITION - SCHEDULE: A WEEKLY SCHEDULE CAN BE SET TO RUN FANS FOR A SPECIFIED PERIOD THROUGHOUT THE IS DETECTED ON A COVERED HOOD.
- A DIGITAL CONTROLLER SHALL ALLOW FOR EXTERNAL BMS FAN CONTROL VIA DRY CONTACT (EXTERNAL CONTROL SHALL NOT OVERRIDE FAN OPERATION LOGIC AS REQUIRED BY CODE).
- AN LCD INTERFACE SHALL BE PROVIDED WITH THE FOLLOWING FEATURES:
- A. ON/OFF PUSH BUTTON FAN & LIGHT SWITCH ACTIVATION.
- B. INTEGRATED GAS VALVE RESET FOR ELECTRONIC GAS VALVES (NO RESET RELAY REQUIRED). C. VFD FAULT DISPLAY WITH AUDIBLE & VISUAL ALARM NOTIFICATION.
- D. DUCT TEMPERATURE SENSOR FAILURE DETECTION WITH AUDIBLE & VISUAL ALARM NOTIFICATION. . MIS-WIRED DUCT TEMPERATURE SENSOR DETECTION WITH AUDIBLE & VISUAL ALARM NOTIFICATION.
- F. A SINGLE LOW VOLTAGE CAT-5 RJ45 WIRING CONNECTION. G. AN ENERGY SAVINGS INDICATOR THAT UTILIZES MEASURED KWH FROM THE VFDS.

SYSTEM DESIGN VERIFICATION (SDV)

CHARGES.

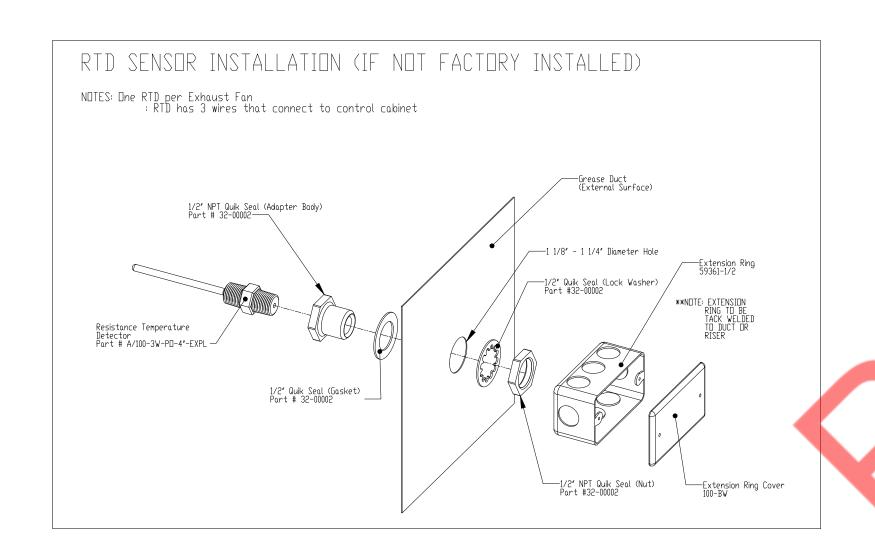
IF ORDERED, CAS SERVICE WILL PERFORM A SYSTEM DESIGN VERIFICATION (SDV) ONCE ALL EQUIPMENT HAS HAD A COMPLETE START UP PER THE OPERATION AND INSTALLATION MANUAL, TYPICALLY, THE SDV WILL BE PERFORMED AFTER ALL INSPECTIONS ARE COMPLETE.

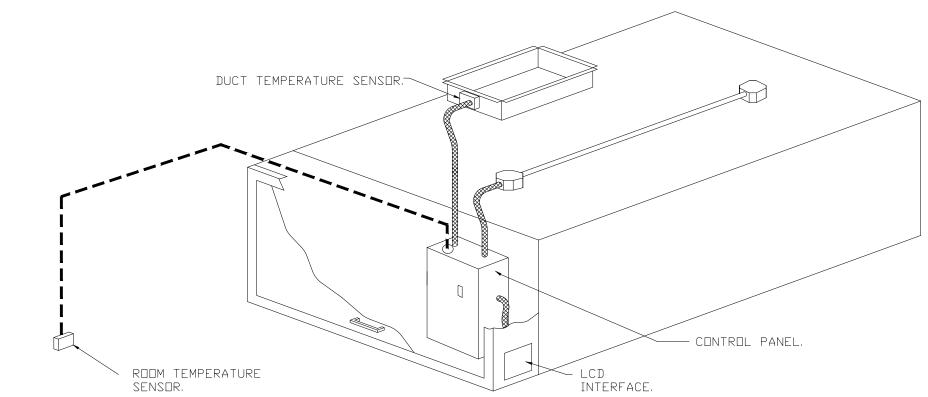
ANY FIELD RELATED DISCREPANCIES THAT ARE DISCOVERED DURING THE SDV WILL BE BROUGHT TO

ATTENTION OF THE GENERAL CONTRACTOR AND CORRESPONDING TRADES ON SITE. THESE ISSUES WILL BE DOCUMENTED AND FORWARDED TO THE APPROPRIATE SALES OFFICE. IF CAS SERVICE HAS

RESOLVE A DISCREPANCY THAT IS A FIELD ISSUE, THE GENERAL CONTRACTOR WILL BE NOTIFIED AND BILLED FOR THE WORK, SHOULD A RETURN TRIP BE REQUIRED DUE TO ANY FIELD RELATED DISCREPANCY THAT CANNOT BE RESOLVED DURING THE SDV, THERE WILL BE ADDITIONAL TRIP

DURING THE SDV, CAS SERVICE WILL ADDRESS ANY DISCREPANCY THAT IS THE FAULT OF THE MANUFACTURER, SHOULD A RETURN TRIP BE REQUIRED, THE GENERAL CONTRACTOR AND APPROPRIATE SALES OFFICE WILL BE NOTIFIED. THERE WILL BE NO ADDITIONAL CHARGES FOR MANUFACTURER





TYPICAL HOOD CONTROL PANEL INSTALLATION

THE HOOD CONTROL PANEL IS CAPABLE OF OPERATING IN ONE OR MORE OF THE FOLLOWING STATES AT ANY GIVEN TIME:

- <u>AUTOMATIC:</u> THE SYSTEM OPERATES BASED ON THE DIFFERENTIAL BETWEEN ROOM TEMPERATURE AND THE TEMPERATURE AT THE HOOD CAVITY OR EXHAUST DUCT COLLAR, FANS ACTIVATE AT A CONFIGURABLE TEMPERATURE DIFFERENTIAL THRESHOLD, DEPENDING ON THE JOB CONFIGURATION EACH FAN ZONE CAN BE CONFIGURED AS STATIC OR DYNAMIC. THESE TERMS REFER TO WHETHER A VARIABLE MOTOR (SUCH AS EC MOTORS OR VFD DRIVEN MOTORS) MODULATE WITH TEMPERATURE. IF THE PANEL IS EQUIPPED WITH VARIABLE SPEED FANS AND THE ZONE IS DEFINED AS "DYNAMIC", THESE WILL MODULATE WITHIN A USER-DEFINED RANGE BASED ON THE TEMPERATURE DIFFERENTIAL. PANELS EQUIPPED WITH VARIABLE SPEED FANS AND A FAN ZONE DEFINED AS "STATIC", FANS WILL RUN AT A SET SPEED CALCULATED FOR THE DRIVE, DEMAND CONTROL VENTILATION SYSTEMS ARE CAPABLE OF MODULATING EXHAUST AND MAKE UP AIR FAN SPEEDS PER THE REQUIREMENTS DUTLINED IN IECC 403.7.5 (2021).

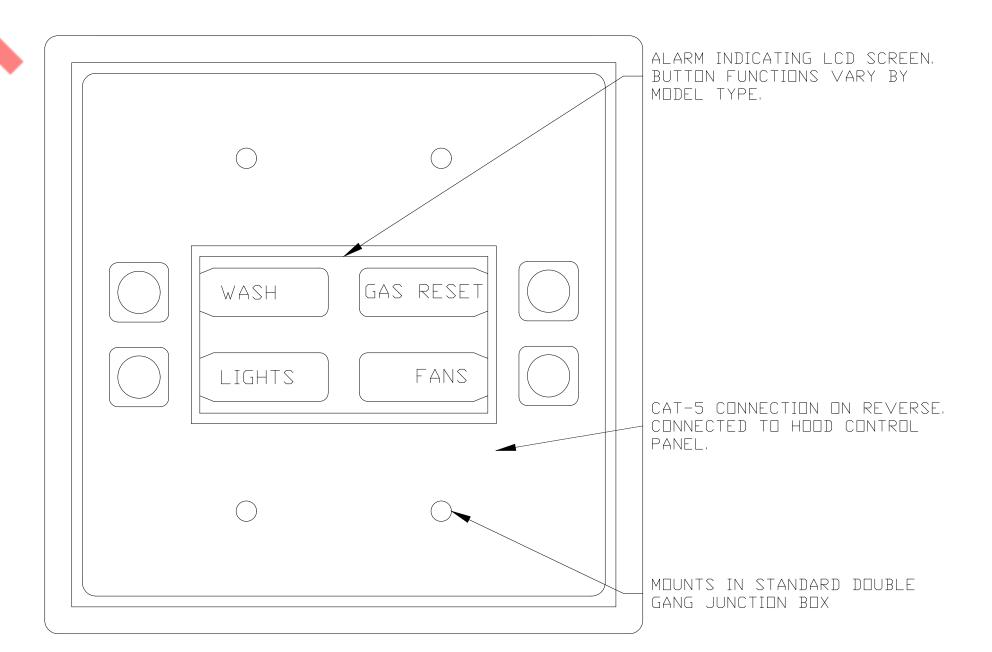
- MANUAL: THE SYSTEM OPERATES BASED ON HUMAN INPUT FROM AN HMI.

DAY. THERE ARE THREE OCCUPIED TIMES PER DAY TO ALLOW FOR THE USER TO SET UP A TIME THAT IS SUITABLE TO THEIR NEEDS. ANY TIME THAT IS WITHIN THE DEFINED OCCUPIED TIME, THE SYSTEM WILL RUN AT MODULATION MODE AND FOLLOW THE FAN PROCEDURE ALGORITHM BASED ON TEMPERATURE DURING THIS TIME. DURING UNDCCUPIED TIME, THE SYSTEM WILL HAVE AN EXTRA OFFSET TO PREVENT UNINTENDED ACTIVATION OF THE SYSTEM DURING A TIME WHERE THE SYSTEM IS NOT BEING OCCUPIED.

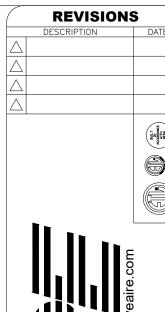
- <u>Other:</u> the system operates based on the input from an external source (ddc, bms or HARD-WIRED INTERLOCK).

- <u>fire:</u> upon activation of the hood fire suppression system, the exhaust fan will c<u>ome</u> on or CONTINUE TO TO RUN, THE HOOD MAKEUP AIR WILL SHUTDOWN, AND A SIGNAL WILL BE SENT FOR ACTIVATING THE SHUNT TRIP BREAKER PROVIDED BY THE ELECTRICIAN, FUEL GAS WILL SHU MECHANICAL/ELECTRICAL GAS VALVE ACTUATED BY THE HOOD FIRE SUPPRESSION SYSTEM.





******ATTENTION ELECTRICIAN**** LOAD SIDE WIRING FOR EACH FAN MUST BE RUN IN SEPERATE CONDUIT FROM EMS SYSTEM TO EACH FAN DN RDDF,





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architect in v specifications codes and n instructions a from the arch	nts responsibility prior to or during construction to notify writing of any perceived errors or omissions in the plans of which a contractor thoroughly knowledgeable with the buil nethods of construction should reasonably be aware. Wriddressing such perceived errors or omissions shall be receitect prior to the client or clients subcontractors proceeding client will be responsible for any defects in construction if the procedures are not followed.

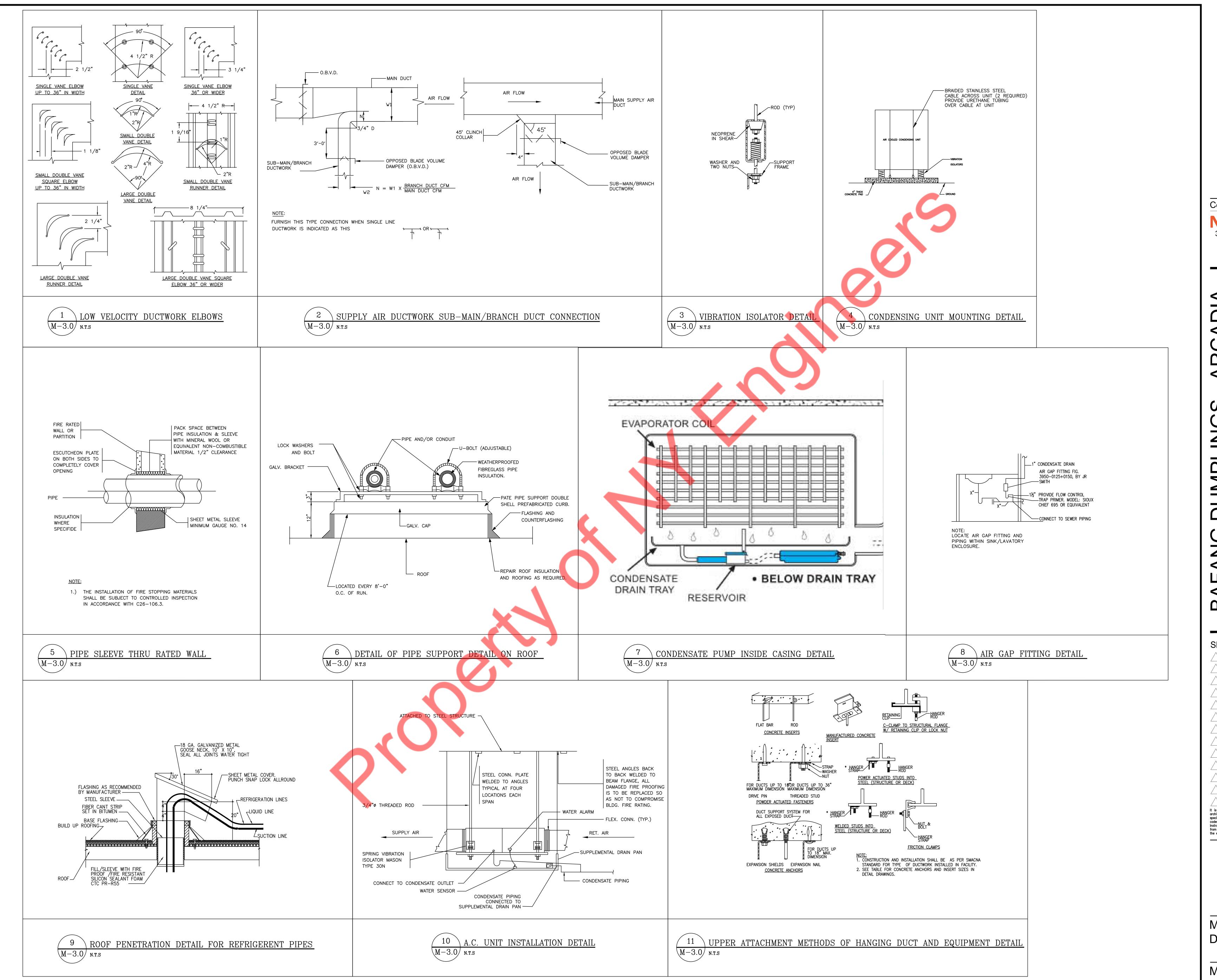
CAPTIVE AIRE PLAN

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DATE: 11/28/2023

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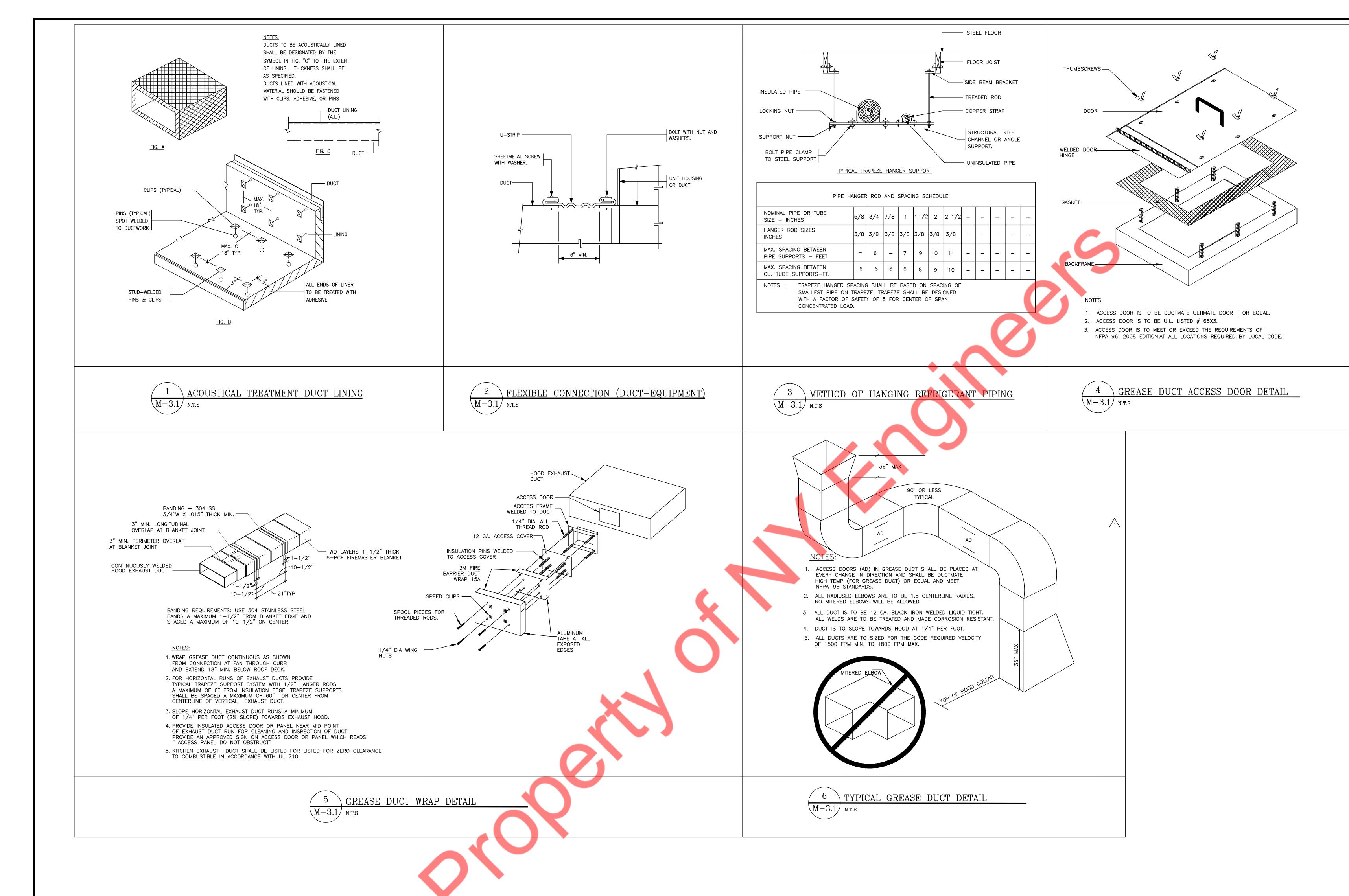
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MECHANICAL DETAILS(1 OF 2)



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Sheet Issue & Revision Log 04-23-2024 CITY COMMENTS It is the clients responsibility prior to or during construction to notify the architect in writing of any perceived errors or omissions in the plans and specifications of which a contractor thoroughly knowledgeable with the building codes and methods of construction should reasonably be aware. Written instructions addressing such perceived errors or omissions shall be received from the architect prior to the client or clients subcontractors proceeding with the work. The client will be responsible for any defects in construction if these procedures are not followed.

MECHANICAL DETAILS(2 OF 2)

ERTIFICATE OF	ystems F COMPLIANCE					CALIFORNIA ENERGY COMMISSIC NRCC-PRC
-	sed to document any process systems requirements in 140.9. This com	-				datory requirements in 120.6/ 160.7
roject Name:	BAFANG DUMPLINGS	phance document is asea joi		eport Page:	rojects.	(Page 1 of
roject Address	s:		Da	ate Prepared:		2023-12-13T07:24:33-05:0
	INFORMATION Project Leasting (city)	ARCADIA	10	1 Total Canditions	od Flagr Area	1020
01 02	Project Location (city) Climate Zone	ARCADIA 9	0.			1920 145
)3		es Within Project:	0		ole Above Grade)	0
Restaurant						
		-				
. PROJECT S	БСОРЕ					
his table inclue		thin the scope of the permit a	application and are	demonstrating compliance	e with mandatory requirem	nents in 120.6 / 160.7 or prescriptive
	onsists of: (check all that apply):					
	01				02	
	rigerated Spaces <3,000 ft ² Total (es)		ng Walkway Speed Controls	
	rigerated Spaces >=3,000 ft ² Total d /Beverage Stores >8,000 ft ² cfa				(mandatory 120.6(j) and p en Ventilation/Exhaust (pre	
	losed Parking Garage Exhaust >=1		5(c))		·	Hood (prescriptive 140.9(c)) ¹
☐ New	vly Installed Process Boilers (man	datory 120.6(d))		Pool/Spa (mandat	tory 1104 / 160.7)	
	npressed Air Systems Combined F				nment Horticulture (manda	atory 120.6(h))
	rator Lighting & Ventilation Control: These building features can com		·	<u>.</u>	(mandatory 120.6(i)) hese features, compliance s	should be demonstrated on the
RCC-PRF-E.	. These sunamy jeacares can com	pry using the perjormance in	terrou. If using the f	serjormanee method jor t	nese jeutures, comprance s	should be demonstrated on the
	ergy Efficiency Standards - 2022 Non	residential Compliance		sion: 2022.0.000 rsion: rev 20220101		Compliance ID: 164567-1223-000 Report Generated: 2023-12-13 04:24:3
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C. COMPLIAN	ICE RESUIT	S											
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Refrigerate		Parking				Escalators &			Laboratory/				
Warehouse / Space 120.6(a) (See Table	Commercial Refrigeratio n 120.6(b) (See Table G)	Garage Exhaust 120.6(c) (See Table H)	Process Boilers 120.6(d) (See Table I)	Compressed Air Systems 120.6(e) (See Table J)	Elevators 120.6(f) / 160.7 (See Table K)	Moving Walkways 120.6(g) (See Table L)	Computer Rooms 140.9(a) (See Table M)	Commercial Kitchens 140.9(b) (See Table N)	Factory Exhaust 140.9(c) (See Table O)	Controlled Environment Horticulture 120.6(h) (See Table P)	Steam Traps 120.6(i) (See Table Q)	Multifamily Pool/Spa 160.7 (See Table R)	Com Re
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H. ENCLOSED PARKING GARAGE EXHAUST This section does not apply to this project.		
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I. PROCESS BOILER This section does not apply to this project		
This section does not apply to this project.		
J. COMPRESSED AIR SYSTEMS		
This section does not apply to this project.		
K. ELEVATOR LIGHTING AND VENTILATION		
This section does not apply to this project.		
L ESCALATORS AND MOVING WALVAVAYS OREED CONTROL		
L. ESCALATORS AND MOVING WALKWAYS SPEED CONTROL This section does not apply to this project.	S	
M. COMPUTER ROOM SYSTEM SUMMARY		
This section does not apply to this project.		
N. COMMERCIAL KITCHEN EXHAUST AND VENTILATION		
This table contains all new and replacement hoods being installed found in 140.9(b).	within the scope of the permit application. Table N is used to demonst	rate compliance with prescriptive require
Kitchen Ventilation 140.9(b)2		
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Process Systems CERTIFICATE OF COMPLIANCE Project Name: BAFANG DUMPLINGS Project Address: DOCUMENTATION AUTHOR'S DECLARATION STATEMENT I certify that this Certificate of Compliance documentation Documentation Author Name: P D Company: NY ENGINEERS Address: 382 NE 191st ST, Suite 49674 City/State/Zip: Miami, Florida 33179 RESPONSIBLE PERSON'S DECLARATION STATEMENT I certify the following under penalty of perjury, under the laws of the State of California.	Report Version: 2022.0.000 Schema Version: rev 20220101 Report Page: Date Prepared: is accurate and complete. Documentation Author Signature: Signature Date: 2023-11-27 CEA/ HERS Certification Identification (if applicable): Phone: 212-575-5300	Compliance ID: 164567-12 Report Generated: 2023-12-13 (CALIFORNIA ENERGY COM NR (Pa
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CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance

Report Version: 2022.0.000 Schema Version: rev 20220101

Documentation Software: Energy Code Ace

Compliance ID: 164567-1223-0002 Report Generated: 2023-12-13 04:24:37

382 NE 191ST STREET, SUITE 49674, MIAMI, FL 33179 PH-914.257.3455 WWW.NY-ENGINEERS.COM

Consultant

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architect in specification codes and instructions	clients responsibility prior to or during construction to n n writing of any perceived errors or omissions in the p ns of which a contractor thoroughly knowledgeable with the methods of construction should reasonably be aware. is addressing such perceived errors or omissions shall be rchitect prior to the client or clients subcontractors procee
the work. 1	Transect prior to the client of clients subcontractors procee The client will be responsible for any defects in construction procedures are not followed.
	FESSIO

PROCESS COMPLIANCE

M-4.1

STATE OF CALIFORNIA Mechanical Systems CERTIFICATE OF COMPLIANCE		CALIFORNIA ENERGY COMMISSION NRCC-MCH-E	STATE OF CALIFORNIA Mechanical Systems CERTIFICATE OF COMPLIANCE		CALIFORNIA ENERGY COMMISSION NRCC-MCH-E	STATE OF CALIFORNIA Mechanical Systems CERTIFICATE OF COMPLIANCE
This document is used to demonstrate compliance for mechanical path outlined in 140.4, or 141.0(b)2 for alterations.	al systems that are within the scope of the permit applica		Project Name: BAFANG DUMPLINGS	Report Page: Date Prepared:	(Page 2 of 8) 2024-04-10T06:34:03-04:00	Project Name: BAFANG DUMPLINGS
Project Name: BAFANG DUMPLINGS Project Address:	Report Page: Date Prepared:	(Page 1 of 8) 2024-04-10T06:34:03-04:00				
A. GENERAL INFORMATION			C. COMPLIANCE RESULTS			G. PUMPS
01 Project Location (city) 02 Climate Zone	SANTA ANITA 04 Total Conditioned Flor 9 05 Total Unconditioned			oliance document is compliant with mechanical requirements. This table is n ' refer to Table D., or the table indicated as not compliant for guidance. 04 05 06 07	08 09	This section does not apply to this project. H. FAN SYSTEMS & AIR ECONOMIZERS
03 Occupancy Types Within Project: • Restaurant	06 # of Stories (Habitab	le Above Grade) 1	System Fans/	System Terminal Box Distribu	tion	This table is used to demonstrate compliance with prescriptive requiprocess loads are exempt from these requirements and do not need
- Nestadiant				ND Controls 110.2, 120.2, 140.4(f), 170.2(c)4B 160.2, 1	I), 110.2(e)2 Compliance Results	System Nau Quantit 1 Fan System Nau S
B. PROJECT SCOPE This table Includes mechanical systems or components that are w	within the scope of the permit application and are demo	nstrating compliance using the prescriptive path outlined in	170.2(c) 170.2(c) (See Table F) (See Table G) (See Table H)	170.2(c) 170.2(c)4B 160.2, 1		Name y Status
140.4, 170.2(b) or 141.0(b)2 and 180.2(b)2 for alterations. 01	02	03		ND AND Yes AND AND	AND COMPLIES with Exceptional	01 02 03 04 Fan
Air System(s) Heating Air System	Wet System Components Water Economizer	Dry System Components Air Economizer	Mandatory N	easures Compliance (See Table Q for Details)	COMPLIES	Name or Item Tag
	☐ Pumps☐ System Piping	☐ Electric Resistance Heat ☑ Fan Systems	D. EXCEPTIONAL CONDITIONS			MERV 13-16 Filter upstream of
Mechanical Controls (existing to remain, altered or new)	☐ Cooling Towers	Ductwork (existing to remain, altered or new)	This table is auto-filled with uneditable comments because	e of selections made or data entered in tables throughout the form. imum ventilation requirements. See Table J for details. Transfer air must be	designed now \$120.1/m\ for air slossification and	Supply Fan Base Constant Exhuast/Return/Relief/Transfe
	☐ Chillers ☐ Boilers	✓ Ventilation ☐ Zonal Systems/ Terminal Boxes	recirculation limitations and be documented within const	•	designed per <u>\$120.1(g)</u> for all classification and	Allowance (kW) 1 FOOTNOTES: Fans serving spaces with design background noise go
			E. ADDITIONAL REMARKS			² Low-turndown single-zone VAV fan system must be capable of and design airflow and use no more than 30 percent of the design watta design load served by the equipment shall have fixed loads.
			This table includes remarks made by the permit applicant	to the Authority Having Jurisdiction.		³ Fan system allowance includes fan system base allowance. ⁴ Filter pressure loss can only be counted once per fan system.
			F. HVAC SYSTEM SUMMARY (DRY & WET SYSTEMS) This section does not apply to this project.			 Complex Fan System means a fan system that combines a single cal fans, or both. Computer room economizers must meet requirements of 140.9(a) of
						document
	Generated Date/Time:	Documentation Software: Energy Code Ace		Generated Date/Time:	Documentation Software: Energy Code Ace	
CA Building Energy Efficiency Standards - 2022 Nonresidential Complian	Report Version: 2022.0.000 Schema Version: rev 20220101	Compliance ID: 189852-0424-0002 Report Generated: 2024-04-10 03:34:08	CA Building Energy Efficiency Standards - 2022 Nonresidential	Compliance Report Version: 2022.0.000 Schema Version: rev 20220101	Compliance ID: 189852-0424-0002 Report Generated: 2024-04-10 03:34:08	CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance
STATE OF CALIFORNIA			STATE OF CALIFORNIA			STATE OF CALIFORNIA
Mechanical Systems CERTIFICATE OF COMPLIANCE		CALIFORNIA ENERGY COMMISSION NRCC-MCH-E	Mechanical Systems CERTIFICATE OF COMPLIANCE		CALIFORNIA ENERGY COMMISSION NRCC-MCH-E	Mechanical Systems CERTIFICATE OF COMPLIANCE
Project Name: BAFANG DUMPLINGS	Report Page: Date Prepared:	(Page 4 of 8) 2024-04-10T06:34:03-04:00	Project Name: BAFANG DUMPLINGS	Report Page: Date Prepared:	(Page 5 of 8) 2024-04-10T06:34:03-04:00	Project Name: BAFANG DUMPLINGS
			[
H. EXHAUST AIR HEAT RECOVERY 140.4(q), 170.2(c)40 01 02 03 04	05 06 07	08 09 10 11	J. VENTILATION AND INDOOR AIR QUALITY 04	05 06	07	L. DISTRIBUTION (DUCTWORK and PIPING) This section does not apply to this project.
Fan System Hours of Design Supply	ly Outdoor % Outdoor Air Heat Recovery H	Exhaust Air leat Recovery Type Of Heat Required Energy	System Name MUA-1	stem Design OA CFM 3200 System Design Transfer Air CFM 3200	Air Filtration per 120.1(c) 141.0(b)2 and 160.2(c)21 ²	
Name Qty Operation per Year Airflow Rate	Airflow Airflow Requirement per 140.4(q) &	140.4(q) & Recovery Rating Recovery Ratio Recovery Bypass Recovery Ratio	08 09	10 11 12 13 14 15	Provided 16	M. COOLING TOWERS This section does not apply to this project.
	170.2(c)40 NA: Serving space not		Space Name	red per 120.1(c)3 ³ & 160.2(c)3 Exh. Vent per 120.1(c)4 & 160.2(c)4 Iditioned # of Shower # of Required Requ	DCV or Sensor Controls per 120.1(d)3,	N. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION
MUA-1 3,200	3,200 1 cooled and heated to <60 F			or Area heads/ toilets # of people ⁵ # of Min OA CFM Required Min CFM C	160.2(c)5E 160.2(c)5D	Selections have been made based on information provided in previous These documents must be provided to the building inspector during
Fan Energy Index (FEI) 01	02	03	Kitchen Kitchen (cooking)	340 51 238 3200	DCV NA: Area < 150ft ² or design occupancy <	https://www.energy.ca.gov/programs-and-topics/programs/buildin
Name or Item Tag MUA-1	FEI Exception Embedded Fan <5HP or <4.1kW	FEI			Occ Sensor NA: Alteration	NRCI-MCH-01-E - Must be submitted for all buildings
. SYSTEM CONTROLS			17 Total System Required Min OA CFM ¹ FOOTNOTES: System CFM should include both mechanic	al and natural ventilation for the zone/system	this System Complies? Yes	O. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE
This section does not apply to this project.				ystem types per 120.1(c)1A: space conditioning systems utilizing ducts to sup side of balanced ventilation systems including heat recovery and energy reco		Selections have been made based on information provided in previous These documents must be provided to the building inspector during
. VENTILATION AND INDOOR AIR QUALITY This table is used to demonstrate compliance with mandatory ver	entilation requirements in 120 1 120 2(e)3R 140 4(n) and	1 140 4(a) for all popresidential and hotel/motel and	³ Uniform Mechanical Code may have more stringent ven ⁴ See Standards Tables 120.1-A and 120.1-B.	ilation requirement <mark>s; th</mark> e most stringent cod <mark>e requ</mark> irement takes precedence		https://www.energy.ca.gov/programs-and-topics/programs/building
d:t24refnolink/]160.2, 160.3(a)3D, 170.2(a)4N, 170.2(a)4O for hig application need to be documented in this table. In lieu of this tab	igh-rise residential occupancies. For alterations, only ver	ntilation systems being altered within the scope of the permit	⁶ 120.2(e)3 requires systems serving rooms that are requi	of occupants shall be determined in accordance with the California Building red by 130.1(c) to have lighting occupancy sensing controls to also have occu	pancy sensing zone controls for ventilation.	NRCA-MCH-02-A - Outdoor Air must be submitted for all newly insta Supply Fan VFD Acceptance (if applicable) since testing activities over
	ving ventilation calculations on the plans, or attaching the	•		ors include offices $250 \mathrm{ft}^2$ or smaller, multipurpose rooms less than 1,000 ft^2 , orridors, stairwells, parking garages, and loading and unloading zones, unle		P. DECLARATION OF REQUIRED CERTIFICATES OF VERIFICATION
02		I spaces to meet required ventilation rates per 120.1(c)2.	K. TERMINAL BOX CONTROLS			There are no NRCV forms required for this project.
Nonresidential and Hotel/ Motel Multifamily Common Use Vent	<u> </u>	r spaces to meet required ventuation rates per 120.1(c)2.	This section does not apply to this project.			
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CA Building Energy Efficiency Standards - 2022 Nonresidential Complian	Report Version: 2022.0.000 Schema Version: rev 20220101	Compliance ID: 189852-0424-0002 Report Generated: 2024-04-10 03:34:08	CA Building Energy Efficiency Standards - 2022 Nonresidential	Compliance Report Version: 2022.0.000 Schema Version: rev 20220101	Compliance ID: 189852-0424-0002 Report Generated: 2024-04-10 03:34:08	CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance
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CERTIFICATE OF COMPLIANCE Project Name: BAFANG DUMPLINGS	Report Page:	CALIFORNIA ENERGY COMMISSION NRCC-MCH-E (Page 7 of 8)	CERTIFICATE OF COMPLIANCE Project Name: BAFANG DUMPLINGS	Report Page:	NRCC-MCH-E (Page 8 of 8)	
	Date Prepared:	2024-04-10T06:34:03-04:00	Project Address:	Date Prepared:	2024-04-10T06:34:03-04:00	
Q. MANDATORY MEASURES DOCUMENTATION LOCATION	1		DOCUMENTATION AUTHOR'S DECLARATION STATE			
This table is used to indicate where mandatory measures are doc 01		. 02	I certify that this Certificate of Compliance docume	ntation is accurate and complete. Documentation Author Signature:		
Compliance with Mandatory Measures documented through MC Mandatory Measures Note Block	CH Yes	Plan sheet or construction document location SHEET M-1.0 - MECANICAL LEGEND NOTES & SCHEDULES	P D Company: NY ENGINEERS Address: 382 NE 191et ST. Suite 49674	Signature Date: 2024-04-10 CFA / HERS Certification Identification (if applicable		
			Address: 382 NE 191st ST, Suite 49674 City/State/Zip: Miami, Florida 33179 RESPONSIBLE PERSON'S DECLARATION STATEMENT	CEA/ HERS Certification Identification (if applicable Phone: 212-575-5300	•	
			I certify the following under penalty of perjury, under the laws of the St 1. The information provided on this Certificate of Compliance	ate of California:	cate of Compliance (responsible designer)	
			3. The energy features and performance specifications, mater of Title 24, Part 1 and Part 6 of the California Code of Regul	als, components, and manufactured devices for the building design or system design identified	on this Certificate of Compliance conform to the requirements	
			plans and specifications submitted to the enforcement age 5. I will ensure that a completed signed copy of this Certificate		made available to the enforcement agency for all applicable	
			Responsible Designer Name: MICHAEL TOBIAS Company: NY ENGINEERS	Responsible Designer Signature: Date Signed: 2024-04-10		
			Address: 382 NE 191st ST, Suite 49674 City/State/Zip: Miami, Florida 33179	License: M33750 Phone: 212-575-5300		
		•				
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CALIFORNIA ENERGY COMMISSION

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NRCC-MCH-E (Page 3 of 8)

1	04-23-2024 CITY COMMENTS
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architect in specifications	ents responsibility prior to or during construction writing of any perceived errors or omissions in of which a contractor thoroughly knowledgeable wimethods of construction should reasonably be

MECHANICAL
SYSTEM
COMPLIANCE

	LIGHTING	
	FLUORESCENT LIGHTING FIXTURE AND OUTLET BOX. HALF SHADED FIXTURE OR "EM" INDICATES FIXTURES WITH INTEGRAL BATTERY PACK FOR EMERGENCY SERVICE, U.O.N.	(J)
	LUMINAIRE TYPE : INDICATE BY LIPPERCASE LETTER SEE LIGHTING EXTURE SCHEDULE.	P
	CIRCUIT NUMBER : INDICATED BY NUMBER	⇒ ^{CL}
AO 2	SWITCHING INDICATED BY LOWER CASE LETTERS.	#
● EM —	DENOTES LUMINAIRE ON EMERGENCY CIRCUIT.	
• NL	DENOTES FIXTURES DESIGNATED AS NIGHTLIGHT, WIRED TO 24 HOURS UNSWITCHED CIRCUIT.	
◆◇ ►	CEILING/WALL MOUNTED SELF POWERED EXIT LIGHT FIXTURE WITH DIRECTIONALARROWS AS INDICATED. SHADED AREA DENOTES FACE(S). ISOLITE ELITE SERIES LED EXIT SIGN	M
	EMERGENCY BATTERY UNIT WITH ATTACHED EMERGENCY FIXTURES AND OUTLET BOX.	
	SWITCHES AND CONTROLS	
S ^{LV}	20A SP LV TOGGLE SWITCH U.O.N.	
	WIRING SYSTEMS	S _M
3 UP-	POWER OR LIGHTING CIRCUITRY HOMERUN WITH PANELBOARD DESIGNATION, NUMBER WHERE USED INDICATES CIRCUIT NUMBER. IT SHALL CONSISTS OF 1#12 Ø, 1#12 N. & 1#12 G. IN 3/4"C, UNLESS OTHERWISE NOTED.	+24"
3 5 UP-	POWER OR LIGHTING CIRCUITRY HOMERUN WITH PANELBOARD DESIGNATION, NUMBER WHERE USED INDICATES CIRCUIT NUMBER. IT SHALL CONSISTS OF 2#12 Ø, 2#12 N. & 2#12 G. IN 3/4"C, UNLESS OTHERWISE NOTED.	$\langle x \rangle$
3 5 7 UP-	POWER OR LIGHTING CIRCUITRY HOMERUN WITH PANELBOARD DESIGNATION, NUMBER WHERE USED INDICATES CIRCUIT NUMBER. IT SHALL CONSISTS OF 3#12 Ø, 3#12 N. & 3#12 G. IN 3/4"C, UNLESS OTHERWISE NOTED.	E/2-1
-	CONDUIT AND WIRE TO BUILDING GROUND.	
	UNDERGROUND	
	EXISTING	
	NEW	
	ELECTRICAL DRAWING LIST	
E-1	ELECTRICAL SYMBOL LIST, ABBREVIATIONS & GENERAL NOTES	
E-2	POWER PLAN	
E-2.1	ROOF POWER PLAN	
E-3	LIGHTING PLAN	
E-4	ELECTRICAL RISER DIAGRAM AND PANEL SCHEDULE	
1		1

ELECTRICAL SYMBOLS LIST

ELECTRICAL SYMBOLS LIST				
POWER AND TELECOMMUNICATION		ELECTRICAL AE	BBREVIAT	TONS
JUNCTION BOX WITH BLANK COVER PLATE, CEILING MOUNTED	A	AMPERES	EA	EACH
DUPLEX CONVENIENCE RECEPTACLE, +18" AFF OR AS NOTED.	A/C, AC	AIR CONDITIONING UNIT	EC	EMPTY CONDUIT/ ELECTRICAL CONTRACTOR
DUPLEX CONVENIENCE RECEPTACLE, +18" AFF OR AS NOTED.	AF	AMPERE FRAME/AMP FUSE	EF	EXHAUST FAN
	AFF	ABOVE FINISHED FLOOR	EM	EMERGENCY
DUPLEX CONVENIENCE RECEPTACLE — 20A—1P, 125V, NEMA 5—20R MOUNTED FLUSH IN CELING.	AS	AMP SWITCH	EMT	ELECTRICAL METALLIC TUBING
DOUBLE DUPLEX RECEPTACLE — 20A-1P, 125V, NEMA 5-20R.	AIC	AMPS INTERRUPTING CAPACITY	EQUIP	EQUIPMENT
TELEPHONE/DATA OUTLET, 4"SQUARE OUTLET BOX WITH SINGLE GANG COLLAR AND BLANK PLATE. PROVIDE 3/4" E.C., U.O.N., UP TO HUNG CEILING AND	AT	AMP TRIP	ER	EXISTING TO BE RELOCATED
TERMINATE WITH 90° ELBOW, BUSHING AND DRAG WIRE.	ATS	AUTOMATIC TRANSFER SWITCH	ETR	EXISTING TO REMAIN
MOTORS AND CONTROLS	AUTO	AUTOMATIC	EWF	ELECTRIFIED WORKSTATION FURNITURE
EXHAUST FAN	AWG	AMERICAN WIRE GAUGE	EWH	ELECTRIC WATER HEATER
WITH JUNCTION BOX AND MOTOR SWITCH.	С	CONDUIT	FA	FIRE ALARM FURNISHED BY OTHERS, INSTALLED
NON-FUSED DISCONNECT. AMPERAGE AS NOTED.	C/B,CB	CIRCUIT BREAKER	FB0	& WIRED BY EC
30A/240V NON FUSED DISCONNECT SWITCH	СКТ	CIRCUIT	FDR	FEEDER FURNISHED & INSTALLED BY
60A/240V NON FUSED DISCONNECT SWITCH	CLG	CEILING	FIBO	OTHERS, WIRED BY EC
MANUAL MOTOR SWITCH	СОММ	COMMUNICATION	FIXT	FIXTURE
ANNOTATION	СТ	CURRENT TRANSFORMER	FL	FLOOR
INDICATES MOUNTING HEIGHT, CENTER LINE TO FINISHED FLOOR.	CU	COPPER	FLUOR	FLUORESCENT
KEYED NOTE REFERENCE	°C 	DEGREE CELSIUS	G	GROUND FAULT INTERPURTER
DETAIL REFERENCE: DETAIL NUMBER INDICATED ON	DIA	DEGREE FAHRENHEIT DIAMETER	GFI GP	GROUND FAULT INTERRUPTER GENERAL PURPOSE
TOP; DRAWING NUMBER INDICATED ON BOTTOM	DISC	DISCONNECT	HC	HUNG CEILING
POWER DISTRIBUTION	DN	DOWN	HP	HORSEPOWER
	DP	DISTRIBUTION PANEL	HWH	HOW WATER HEATER
MAJOR ELECTRICAL COMPONENT OR DEVICE. VOLTAGE AND AMPERAGE AS NOTED.	DWH	DOMESTIC WATER HEATER	HZ	HERTZ
DISTRIBUTION PANELBOARD, 208Y/120V-SURFACE OR FLUSH	DWG	DRAWING	IC	INTERRUPTING CAPACITY
MOUNTED.	JB	JUNCTION BOX	PP	POWER PANEL
	KCMIL	ONE THOUSAND CIRCULAR MILS	PVC	POLYVINYL CHLORIDE
	KV	KILOVOLT	PWR	POWER
	KVA	KILOVOLT-AMPERES	R	REMOVE
	KW	KILOWATTS	RE	RELOCATED EXISTING
	LP	LIGHTING PANEL	REC	RECEPTACLE
	LTG	LIGHTING	RGS	RIGID GALVANIZED STEEL
	MAX	MAXIMUM	RR	REMOVE & RELOCATE
	МС	MOTOR CONTROLLER	SECT	SECTION
	МСВ	MAIN CIRCUIT BREAKER	SPDT	SINGLE POLE DOUBLE THROW
	MER	MECHANICAL EQUIPMENT ROOM	SPST	SINGLE POLE SINGLE THROW
	MIN	MINIMUM	SPEC	SPECIFICATION
	MLO	MAIN LUGS ONLY	SW	SWITCH
	MTD	MOUNTED	SWBD	SWITCHBOARD
	MTS	MANUAL TRANSFER SWITCH	SYM	SYMMETRICAL
	N	NEUTRAL	SYS	SYSTEMS
	NE NE	NEW DEVICE TO REPLACE EXISTING		TELEPHONE
	NIC	NOT IN CONTRACT	TEMP	TEMPERATURE
	NL NTS	NIGHT LIGHT NOT TO SCALE	TXF TYP	TOILET EXHAUST FAN TYPICAL
	OC OC	ON CENTER	UON	UNLESS OTHERWISE NOTED
	P	POLES	V	VOLT/VOLTAGE
	PB	PULLBOX	VA VA	VOLT AMPERE
	PC	PERSONAL COMPUTER	VAV	VARIABLE AIR VOLUME
	ø	PHASE	VFD	VARIABLE FREQUENCY DRIVE
	PNL	PANEL	VP	VAPORPROOF
	W	WATT	WP	WEATHER PROOF
	W	WIRE	XFMR	TRANSFORMER
	WH	WALL HEATER	ZRT	ZONE REGISTER TERMINALS
	E	EXISTING	IG	ISOLATED GROUND

GENERAL NOTES (APPLY TO ALL "E" DRAWINGS)

- ALL WORK SHALL BE PERFORMED IN STRICT ACCORDANCE WITH THE CURRENT VERSION OF THE CALIFORNIA ELECTRICAL CODE, 2020 NEC, LOCAL JURISDICTION REQUIREMENTS, AND ALL GOVERNING LOCAL CODES, LAWS, AND REGULATIONS.
- CONTRACTOR SHALL VISIT THE SITE AND BECOME FAMILIAR WITH ALL EXISTING CONDITIONS THAT MAY AFFECT THE WORK. NO ADDITIONAL COMPENSATION WILL BE CONSIDERED FOR FAILURE TO DO SO.
- CONTRACTOR SHALL OBTAIN AND PAY FOR ALL PERMITS, TEST REPORTS, AND CERTIFICATIONS FOR TEMPORARY AND FINAL CERTIFICATE OF
- FIRE STOP ALL PENETRATIONS OF FIRE RATED CONSTRUCTION IN A CODE APPROVED MANNER IN ORDER TO MAINTAIN FIRE RATING. ALL PENETRATIONS SHALL BE SLEEVED AND SEALED WATERTIGHT.
- SECURE ALL SUPPORTS TO BUILDING STRUCTURE UTILIZING TOGGLE BOLTS (HOLLOW MASONRY), EXPANSION SHIELDS OR INSERTS (CONCRETE AND BRICK), MACHINE SCREWS (METAL), BEAM CLAMPS (FRAMEWORK), WOOD SCREWS (WOOD) OR PAN THRU STRAPS (METAL DECK). NAILS, RAWL PLUGS AND WOOD PLUGS ARE NOT PERMITTED. WHERE REQUIRED BY STRUCTURE, PROVIDE THRU BOLTS AND FISH PLATES. SUPPORT HORIZONTAL RUNS OF METALLIC RACEWAYS NOT MORE THAN 10 FT APART. SUPPORT RACEWAY RISERS AT EACH FLOOR LEVEL. RUN EXPOSED RACEWAYS PARALLEL WITH OR AT RIGHT ANGLES TO WALLS.
- LEAVE WIRES WITH SUFFICIENT SLACK TO PERMIT MAKING FINAL CONNECTIONS. RACEWAYS OVER 10 FT LONG IN WHICH WIRING IS NOT INSTALLED: FURNISH FISH WIRE.
- VERIFY LOCATIONS OF OUTLETS AND SWITCHES IN FINISHED ROOMS WITH ARCHITECTURAL DRAWINGS OF INTERIOR DETAILS AND FINISH. IN CENTERING OUTLETS AND LOCATING BOXES AND OUTLETS, ALLOW FOR OVERHEAD PIPES, DUCTS AND MECHANICAL EQUIPMENT, EQUIPMENT, VARIATIONS IN FIREPROOFING AND PLASTERING, WINDOW AND DOOR TRIM, PANELING, HUNG CEILINGS AND THE LIKE. CORRECT ANY INACCURACY RESULTING FROM FAILURE TO DO SO WITHOUT EXPENSE TO OWNER
- CONTRACTOR SHALL PROVIDE A WARRANTY ON ALL MATERIALS, EQUIPMENT, AND WORKMANSHIP FOR A PERIOD OF ONE YEAR FROM THE DATE OF FINAL ACCEPTANCE OR AS PER CONTRACT WITH OWNER/ARCHITECT.
- ALL UNUSED MATERIALS AND DEBRIS SHALL BE LEGALLY REMOVED AND DISPOSED OF AWAY FROM THE PREMISES ON A DAILY BASIS.
- O. CONTRACTOR SHALL PATCH, PAINT, AND RESTORE EXISTING SURFACES DAMAGED DURING THE COURSE OF THIS CONSTRUCTION TO PRE-EXISTING CONDITIONS OR BETTER
- MINIMUM SIZE OF CONDUIT SHALL BE $rac{3}{4}$ ", AND TYPE SHALL BE ELECTRICAL METALLIC TUBING (EMT), UNLESS OTHERWISE NOTED. PROVIDE NYLON DRAG LINE AND CONDUIT CAP FOR ALL EMPTY CONDUITS.
- CONNECT CONDUIT TO MOTOR CONDUIT TERMINAL BOXES WITH FLEXIBLE CONDUIT (MINIMUM 18 IN. LENGTH AND 50% SLACK). DO NOT TERMINATE IN OR FASTEN RACEWAYS TO MOTOR FOUNDATION.
- PULL AND JUNCTION BOXES WHERE INDICATED ON THE DRAWINGS. SHALL BE CONSIDERED SHOWN AT THEIR APPROXIMATE LOCATION. THE CONTRACTOR IALL LOCATE THEM AS FIELD CONDITIONS DICTATE. ADDITIONAL PULL AND JUNCTION BOXES NOT SHOWN ON DRAWINGS SHALL BE PROVIDED WHERE REQUIRED BY APPLICABLE CODE PROVISIONS OR WHERE CALLED FOR BY FIELD CONDITIONS. PULL AND JUNCTION BOXES SHALL BE SURFACE TYPE IN UNFINISHED AREAS AND INSTALLED CONCEALED IN FINISHED AREAS, AND ALL COVERS TO PULL & JUNCTION BOXES SHALL BE READILY ACCESSIBLE.
- 14. SUPPORT PANEL, JUNCTION AND PULL BOXES INDEPENDENTLY TO BUILDING STRUCTURE WITH NO WEIGHT BEARING ON RACEWAYS.
- 15. FOR EXACT LOCATION AND MOUNTING HEIGHT OF LIGHTING FIXTURES AND SWITCH/RECEPTACLE OUTLETS, REFER TO ARCHITECTURAL REFLECTED CEILING AND POWER PLANS.
- 16. ALL ELECTRICAL ACCESSORIES AND EQUIPMENT INSTALLED OUTSIDE OR EXPOSED TO WEATHER SHALL HAVE NEMA 3R ENCLOSURES AND SHALL BE TIGHTLY GASKETED FOR A COMPLETE RAINTIGHT INSTALLATION. ALL BUILDING EXTERIOR MOUNTED RECEPTACLES SHALL BE GFCI RATED AND MOUNTED IN WEATHERPROOF ENCLOSURE.
- 17. ALL ACCESS PANEL LOCATIONS SHALL BE REVIEWED BY ARCHITECT PRIOR TO INSTALLATION.
- 18. ELECTRICAL CONTRACTOR SHALL COORDINATE THE LOCATION AND INSTALLATION OF NEW WORK WITH THE GENERAL CONTRACTOR AND OTHER ASSOCIATED TRADES IN A TIMELY MANNER. THE CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFYING ALL DIMENSIONS AND CONDITIONS PRIOR TO CONSTRUCTION. REFER TO ALL GENERAL, MECHANICAL, AND ELECTRICAL, DRAWINGS AND SPECIFICATIONS FOR THIS PROJECT.
- 19. ALL CONDUITS AND EQUIPMENT TO BE CONCEAL ED IN FINISHED SPACES UNLESS OTHERWISE NOTED. CONDUITS SHALL BE ENCASED IN THE CONCRETE FLOOR SLAB.
- 20. ALL EQUIPMENT AND MATERIALS INSTALLED IN PLENUM CEILINGS SHALL BE APPROVED FOR THAT APPLICATION.
- 21. OUTLET BOXES AND JUNCTION BOXES ON OPPOSITE SIDES OF FIRE—RATED WALLS SHALL BE SEPARATED BY A HORIZONTAL DISTANCE OF NOT LESS THAN 24 INCHES, UNLESS FIRE-RATED BOXES OR PUTTY PADS ARE
- 22. COORDINATE ALL FLOOR PENETRATIONS WITH THE STRUCTURAL AND ARCHITECTURAL DRAWINGS. CONFIRM PENETRATION LOCATIONS WITH THE ENGINEER AND OWNER BEFORE INSTALLATION.
- 23. COORDINATE THE MOUNTING HEIGHT AND LOCATION OF RACEWAYS, COMMUNICATIONS OUTLETS, AND RECEPTACLES WITH THE ARCHITECTURAL CASEWORK DRAWINGS AND DETAILS. COORDINATE LOCATIONS OF LIGHT FIXTURES, SWITCHES, AND RELATED DEVICES WITH THE ARCHITECTURAL DRAWINGS AND DETAILS.
- 24. REFER TO ARCHITECTURAL PLANS FOR FINAL LOCATIONS OF ALL LUMINARIES AND SWITCHES, AND FOR ALL FINISHED CEILING HEIGHTS.
- 25. REFER TO ARCHITECTURAL PLANS FOR FINAL LOCATIONS OF ALL ELECTRICAL DEVICES, AND FOR FINAL CEILING AND WALL HEIGHTS AND LAYOUTS.
- 26. LIGHTING FIXTURES PROVIDED WITH EMERGENCY BATTERY PACKS AND INDICATED WITH SWITCH CONTROL SHALL BE WIRED WITH BATTERY CHARGING/SENSING CIRCUIT WIRED AHEAD OF SWITCH CONTROL.
- 7. NUMBER(S) SHOWN AT RECEPTACLES, JUNCTION BOXES AND EQUIPMENT INDICATES CIRCUIT NUMBERS IN PANEL BOARD. PROVIDE WIRE AND CONDUIT TO INTERCONNECT EQUIPMENT AND DEVICES WITH SAME CIRCUIT NUMBERS AND RUN TO PANEL BOARD.
- 28. ELECTRICAL DRAWINGS, SPECIFICATIONS, AND GENERAL NOTES DESCRIBE THE INTENDED SCOPE OF WORK DOCUMENTS SHALL BE USED FOR THE PURPOSE OF BIDDING, BUILDING DEPARTMENT REVIEW, AND THE SECURING OF NECESSARY CONSTRUCTION PERMITS ONLY. CONTRACTOR SHALL PROVIDE CONSTRUCTION DRAWINGS AND OBTAIN WRITTEN APPROVAL FROM ALL AUTHORITIES HAVING JURISDICTION (AHJ) AND UTILITY COMPANIES PRIOR TO THE START OF AFFECTED WORK. ELECTRICAL INSTALLATION SHALL COMPLY WITH CALIFORNIA ELECTRICAL CODE (LATEST VERSION) ADAPTED BY THE JURISDICTION AND ANY LOCAL SUPPLEMENTS.

GENERAL NOTES

- 29. CONTRACTOR SHALL PROVIDE CONSTRUCTION AND SHOP DRAWINGS BASED ON THESE DRAWINGS, SPECIFICATIONS, AND ADDITIONAL DESIGN CRITERIA FURNISHED BY OWNER AND SUBMIT TO ARCHITECT. CONTRACTOR SHALL SUBMIT ALL DEFERRED APPROVAL CONSTRUCTION DRAWINGS TO ALL GOVERNMENTAL AGENCIES AND UTILITY COMPANIES HAVING JURISDICTION INCLUDING POLICE AND FIRE DEPARTMENTS FOR THEIR REVIEW AND APPROVAL OF DRAWINGS FOR CONSTRUCTION.
- 30. CONTRACTOR'S BID SHALL NOT BE LIMITED TO THE WORK SHOWN ON PLANS AND SPECIFICATIONS. ALL PREMIUM OVERTIME COSTS, UTILITY CHARGES, COSTS FOR TEMPORARY UTILITY SERVICES, ALTERATION, DEMOLITION, AND EXTENSION WORKS, PLAN CHECK/INSPECTION FEES, MISCELLANEOUS CONTINGENCY COSTS, ETC., SHALL BE INCLUDED IN BID. (THE CONTINGENCY COST SHALL NOT BE LESS THAN 25% OF THE OVERALL ELECTRICAL BID. CONTRACTOR SHALL IDENTIFY THE CONTINGENCY AMOUNT IN THE BID DOCUMENT.)
- 31. ALL NEW EQUIPMENTS SHALL BE FURNISHED AND INSTALLED BY CONTRACTOR ,UNLESS OTHERWISE NOTED. IF CONTRACTOR PROPOSES TO SUBSTITUTE SPECIFIED EQUIPMENT, HE SHALL SUBMIT HIS REQUEST IN WRITING TO THE OWNER AND ENGINEER FOR CONSIDERATION PRIOR TO THE ALL SUBSTITUTIONS MUST BE REVIEWED BY THE ENGINEER. SUCH REVIEWS SHALL NOT RELIEVE THE CONTRACTOR FROM COMPLYING WITH DRAWING REQUIREMENTS AND SPECIFICATIONS. THE CONTRACTOR SHALL BE RESPONSIBLE AT HIS OWN EXPENSE FOR ANY CHANGES RESULTING FROM HIS PROPOSED SUBSTITUTIONS WHICH AFFECT OTHER PARTS OF HIS WORK OR THE WORK OF OTHER CONTRACTORS, CONTRACTOR SHALL RELOCATE AND RECONNECT THE EXISTING EQUIPMENTS, DEVICES, BEING REUSED IN COORDINATION WITH ARCHITECT/OWNER.
- 32. ELECTRICAL DRAWINGS, CONDUIT RUNS, WIRING, AND ELECTRICAL INFORMATION ARE DIAGRAMMATIC ONLY. DO NOT SCALE THE ELECTRICAL DRAWINGS TO DETERMINE THE LOCATION OF EQUIPMENT OR OUTLETS. ALL RECEPTACLE AND OUTLET MOUNTING HEIGHTS AND EXACT LOCATIONS SHALL BE COORDINATED WITH ARCHITECTURAL DRAWING ELEVATIONS PRIOR TO ROUGH-IN WORK.
- 33. REFER TO ARCHITECTURAL REFLECTED CEILING PLAN FOR EXACT LOCATION OF ALL LIGHTING FIXTURES, CEILING MOUNTED OUTLETS, AND EQUIPMENT. PORTIONS OF CEILING SYSTEMS MAY BE INACCESSIBLE. CONTRACTOR SHALL STRATEGICALLY LOCATE ACCESS BOXES, ETC., WHICH SHALL BE READILY ACCESSIBLE IN COMPLIANCE WITH CEC ARTICLE 100. ALL LIGHTING FIXTURE WIRING, BALLASTS, J-BOXES, ETC., SHALL BE ACCESSIBLE FROM FIXTURE OPENINGS. PROVIDE AN ADDITIONAL JUNCTION BOX (SIZE AS REQUIRED) WHERE THE NUMBER OF CONDUCTORS EXCEEDS THE MAXIMUM ALLOWED FOR A GIVEN JUNCTION POINT OR OUTLET.
- 34. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THE TYPES OF CEILING SYSTEMS AND TO FURNISH APPROVED LIGHTING FIXTURES OF THE REQUIRED TYPE FOR MOUNTING IN CEILINGS. FIXTURES SHALL BE COMPLETED WITH NECESSARY MOUNTING HARDWARE AND ACCESSORIES. FIXTURES LOCATED IN DAMP OR WET LOCATIONS SHALL BE LABELED FOR USE IN SUCH LOCATIONS.
- 35. SEAL ALL PENETRATIONS THROUGH FIRE RATED WALLS, CEILINGS, FLOORS, ETC., TO MAINTAIN FIRE WORK FURNISH AND INSTALL FIRE RATED ENCLOSURES FOR ALL EQUIPMENT PENETRATING INTO FIRE RATED ENVELOPES, SPACES, ETC. ALL RECESSED LIGHTING FIXTURES, PANEL BOARDS. SWITCHES, ETC.MOUNTED IN FIRE RATED STRUCTURES SHALL BE ENCLOSED WITH AN APPROVED ENCLOSURE CARRYING THE SAME FIRE RATING AS THAT OF THE STRUCTURE.
- 6. ALL WIRING AND ELECTRICAL EQUIPMENT INSTALLED FOR MECHANICAL AND PLUMBING EQUIPMENT SHALL BE IN ACCORDANCE WITH DIVISION 15 AND ASSOCIATED DRAWINGS. CONTRACTOR SHALL OBTAIN THE REQUIRED MECHANICAL AND PLUMBING DRAWINGS AND PROVIDE ALL EQUIPMENT, RACEWAYS, WIRING, ETC., AS INDICATED THEREON.
- 37. ALL FINAL CONNECTIONS TO OWNER FURNISHED EQUIPMENT SHALL BE MADE BY THE CONTRACTOR UNLESS OTHERWISE NOTED. VERIFY ELECTRICAL CHARACTERISTICS AND U.L. LISTINGS PRIOR TO CONNECTION. CONTRACTOR SHALL VERIFY THE LOAD INPUT VOLTAGE OF ALL EQUIPMENT PRIOR TO INSTALLATION. ACCEPTING ANY EQUIPMENT RESULTING IN LOAD INCREASE SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
- 38. ELECTRICAL OUTLETS ON OPPOSITE SIDES OF FIRE RATED WALLS AND PARTITIONS MUST BE SEPARATED BY A DISTANCE OF 24 IN. HORIZONTALLY, IN ACCORDANCE WITH C.B.C. SEC. 714.3.2. EXCEPTION 1.1. OPENINGS IN FIRE RATED WALLS GREATER THAN 16 SQ. IN. MUST BE FIRE STOPPED.
- 39. ALL CONDUCTORS AND CURRENT CARRYING DEVICES SHALL BE COPPER DUAL RATED THHN/THWN 600 VOLT 75°C MINIMUM INSULATION UNLESS OTHERWISE NOTED, USE PROPER TEMPERATURE RATING OF CONDUCTORS BASED ON THE AMBIENT AIR OR SOIL TEMPERATURE WHERE CONDUCTORS ARE BEING WORK HIGHER AMPACITY CONDUCTORS AND LARGER RACEWAYS SHALL BE PROVIDED TO OFFSET THE AMPACITY CORRECTION FACTORS AS INDICATED IN NEC TABLE 310 AND ELSEWHERE IN CODE. ALL BUSSING SHALL BE COPPER. NMC CABLE MAY BE USED WITHIN THE DWELLING TYPE OCCUPANCY PER NEC 334.10 IF APPROVED BY AHJ.
- 40. DO ALL DRILLING, CUTTING, CHANNELING AS REQUIRED TO ELECTRICAL WORK AND AS INDICATED OR SPECIFIED HEREIN. ALL HOLES, CURBS, ETC., IN FLOORS, CEILINGS, AND WALLS SHALL BE PATCHED, UNLESS OTHERWISE NOTED. PAINT ALL EXPOSED ELECTRICAL RACEWAYS, CABINETS, ENCLOSURES, AND FITTINGS TO MATCH COLOR OF ADJACENT SURFACES IN FINISHED
- 41. EMERGENCY LIGHTING AND EXIT SIGNS SHALL BE PROVIDED PER C.B.C. AND SHALL BE DESIGNED TO PROVIDE REQUIRED FOOTCANDLES AND LUMENS. PROVIDE ADDITIONAL EMERGENCY ILLUMINATION AS REQUIRED BY INSPECTION
- AUTHORITIES HAVING JURISDICTION. 42. ALL ELECTRICAL EQUIPMENT SHALL BE BRACED OR ANCHORED TO RESIST A HORIZONTAL FORCE ACTING IN ANY DIRECTION USING THE SMACNA CRITERIA.
- 43. BRANCH CONTROL CIRCUITING AND WIRE COUNTS MAY NOT BE INDICATED ON PLANS. CONTRACTOR IS RESPONSIBLE FOR COMPLETING BRANCH CIRCUIT WIRING IN ACCORDANCE WITH PLAN NOTES AND AS PERMITTED BY AHJ. CONTRACTOR SHALL SUBMIT AS-BUILT DRAWINGS AS PART OF RECORD TO ARCHITECT AND AUTHORITY HAVING JURISDICTION (AHJ).
- 44. ALL EXISTING UTILITIES OR STRUCTURES REPORTED BY THE OWNER OR OTHERS AND THOSE SHOWN ON THESE DRAWINGS ARE INDICATED WITH THEIR APPROXIMATE LOCATION AND EXTENT. BY ACCEPTING THESE PLANS OR PROCEEDING WITH IMPROVEMENTS THE CONTRACTOR IS REQUIRED TO TAKE DUE PRECAUTIONARY MEASURES TO PROTECT THE UTILITIES OR STRUCTURES SHOWN AND ANY OTHER UTILITIES OR STRUCTURES FOUND AT THE SITE. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY THE OWNERS OF THE UTILITIES OR STRUCTURES CONCERNED BEFORE STARTING WORK.
- 45. COORDINATE ALL PHASES OF CONSTRUCTION AND OBTAIN APPROVAL OF WORK SCHEDULE, SHUTDOWN, CUTOVER, OVERTIME WORK, ETC. WITH BUILDING ENGINEER OR OWNER. PROVIDE TEMPORARY SERVICE, STANDBY GENERATOR, 24 HOURS FIRE WATCH, ETC. AS REQUIRED TO MAINTAIN UNINTERRUPTED FACILITY OPERATION DURING CONSTRUCTION WORK.
- 46. THE CONTRACTOR AGREES THAT, IN ACCORDANCE WITH GENERAL CONSTRUCTION PRACTICES, THE CONTRACTOR WILL BE REQUIRED TO ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT AT ALL TIMES. CONTRACTOR FURTHER AGREES TO DEFEND, INDEMNIFY, AND HOLD OWNER AND ENGINEER HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH PERFORMANCE OF WORK ON THIS PROJECT.

PANEL BOARD AND SWITCH BOARD NOTES

- PROVIDE NAMEPLATE IDENTIFICATION TO BE MOUNTED ABOVE DOOR AND CIRCUIT DIRECTORY HOLDER FRAMED WITH PLASTIC COVER MOUNTED BEHIND THE DOOR. ADHESIVE TYPE PLASTIC ENVELOPE ATTACHED BEHIND THE DOOR IS NOT AN ACCEPTABLE TYPE OF DIRECTORY CARD HOLDER.
- 2. BUILDING STEEL, UFER, COLD WATER PIPE, AND DRIVEN GROUNDING ROD BONDING TO BE UTILIZED FOR COMPLETE GROUNDING ELECTRODE SYSTEM &SUPPLEMENTS PER CEC 250, GROUNDING. THE BONDING TO BUILDING NATURAL GAS PIPING MAY BE REQUIRED BY THE AHJ.
- CONTRACTOR TO VERIFY ALL EXISTING CIRCUITS FOR EXISTING AREAS THAT ARE TO REMAIN AND IDENTIFY IN PANEL & IN AS-BUILT. E.C. SHALL MAINTAIN CIRCUIT CONTINUITY OF THESE CIRCUITS SERVE AREAS THAT ARE TO
- NEW BREAKERS TO BE INSTALLED IN EXISTING PANEL ARE TO MATCH THE EXISTING PANEL BOARD MFG. AND AIC RATING AS INDICATED OR AS REQUIRED PER AIC RATING FROM THE UTILITY COMPANY.
- EXISTING PANELS UPTO NEW LOCATION OF THE PANEL AS SHOWN ON THE PLAN IN COORDINATION WITH ARCHITECT/OWNER. CONTRACTOR SHALL PROVIDE ALL REQUIRED MATERIAL, WIRING, CABLES,

CONTRACTOR SHALL EXTEND THE CONDUIT AND INCOMING FEEDER OF THE

AS PER DESIGN INTEND. E.C. SHALL VERIFY THE OPERABLE CONDITION OF ALL DEVICES, BREAKERS AND CONNECTIONS INSIDE THE PANEL. REPLACE IF FOUND INOPERABLE. BASE

CONDUITS AND DEVICES IN ORDER TO WORK ELECTRICAL SYSTEM PROPERLY

BID ACCORDINGLY. CONTRACTOR SHALL PROVIDE ALL THE BRANCH BREAKERS, SHUNT BREAKER & GFI BREAKERS AS PER EQUIPMENT REQUIREMENTS IN COORDINATION WITH

THE EQUIPMENT SUPPLIER/OWNER IN FIELD. BASE BID ACCORDINGLY.

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architect in specifications codes and instructions from the arc	ents responsibility prior to or during construction to notify writing of any perceived errors or omissions in the plans of which a contractor thoroughly knowledgeable with the build methods of construction should reasonably be aware. Writ addressing such perceived errors or omissions shall be received errors or omissions shall be received errors with the client or clients subcontractors proceeding to e client will be responsible for any defects in construction if the procedures are not followed.
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ELECTRICAL SYMBOL LIST, ABBREVIATIONS & GENERAL NOTES

E-1

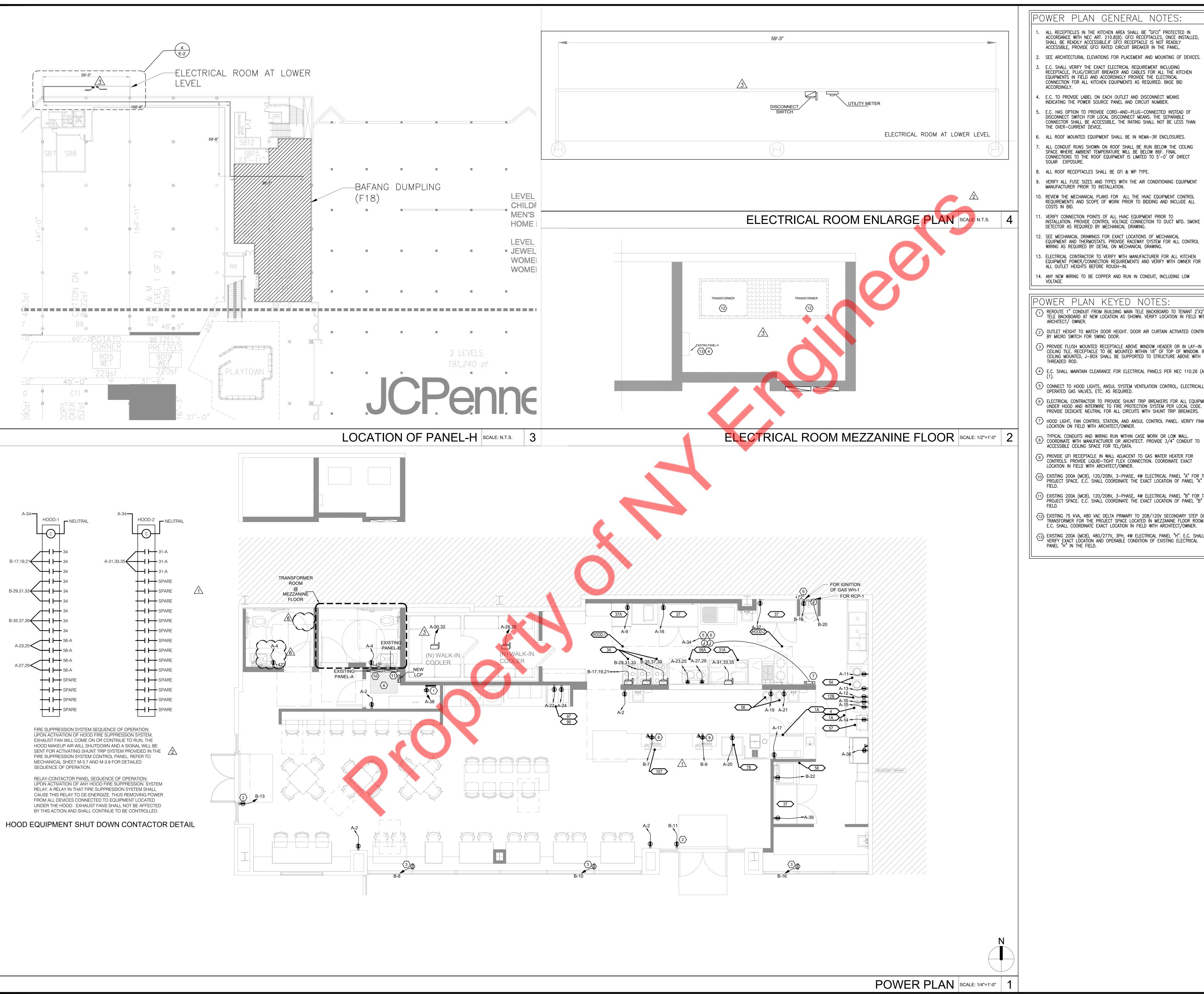
CODE REFERENCE

2022 CALIFORNIA ENERGY CODE

THE GOVERNING CODES FOR THIS PROJECT ARE: 2022 CALIFORNIA BUILDING CODE 2022 CALIFORNIA ELECTRICAL CODE 2022 CALIFORNIA MECHANICAL CODE 2022 CALIFORNIA PLUMBING CODE

NOTICE

THESE DRAWINGS ARE DIAGRAMMATIC AND SHOW INTENT OF PROJECT AND ARE SUBJECT TO THE APPROVAL OF THE BUILDING DEPARTMENT, FIRE MARSHAL, UTILITY COMPANY AND OTHER AGENCY AUTHORITIES HAVING JURISDICTION (AHJ). BY THE ACT OF SUBMITTING A BID PROPOSAL FOR WORK. THE CONTRACTOR HAS REVIEWED THE PLANS THOROUGHLY, VERIFIED FIELD CONDITIONS, AND ACCEPTED FULL RESPONSIBILITY OF PLAN CORRECTIONS, CONTINGENCY, AND ASSOCIATED EXTRA CONSTRUCTION COSTS THAT HAVE BEEN INCLUDED IN THE CONTRACTOR'S BID.



||POWER PLAN GENERAL NOTES:

- ALL RECEPTICLES IN THE KITCHEN AREA SHALL BE "GFCI" PROTECTED IN ACCORDANCE WITH NEC ART. 210.8(B). GFCI RECEPTACLES, ONCE INSTALLED, SHALL BE READILY ACCESSIBLE.IF GFCI RECEPTACLE IS NOT READILY ACCESSIBLE, PROVIDE GFCI RATED CIRCUIT BREAKER IN THE PANEL.
- SEE ARCHITECTURAL ELEVATIONS FOR PLACEMENT AND MOUNTING OF DEVICES. E.C. SHALL VERIFY THE EXACT ELECTRICAL REQUIREMENT INCLUDING RECEPTACLE, PLUG/CIRCUIT BREAKER AND CABLES FOR ALL THE KITCHEN EQUIPMENTS IN FIELD AND ACCORDINGLY PROVIDE THE ELECTRICAL CONNECTION FOR ALL KITCHEN EQUIPMENTS AS REQUIRED. BASE BID
- 4. E.C. TO PROVIDE LABEL ON EACH OUTLET AND DISCONNECT MEANS INDICATING THE POWER SOURCE PANEL AND CIRCUIT NUMBER.
- E.C. HAS OPTION TO PROVIDE CORD-AND-PLUG-CONNECTED INSTEAD OF DISCONNECT SWITCH FOR LOCAL DISCONNECT MEANS. THE SEPARABLE CONNECTOR SHALL BE ACCESSIBLE, THE RATING SHALL NOT BE LESS THAN THE OVER-CURRENT DEVICE.
- 6. ALL ROOF MOUNTED EQUIPMENT SHALL BE IN NEMA-3R ENCLOSURES. ALL CONDUIT RUNS SHOWN ON ROOF SHALL BE RUN BELOW THE CEILING SPACE WHERE AMBIENT TEMPERATURE WILL BE BELOW 86F. FINAL CONNECTIONS TO THE ROOF EQUIPMENT IS LIMITED TO 5'-0' OF DIRECT
- 8. ALL ROOF RECEPTACLES SHALL BE GFI & WP TYPE.
- 9. VERIFY ALL FUSE SIZES AND TYPES WITH THE AIR CONDITIONING EQUIPMENT MANUFACTURER PRIOR TO INSTALLATION.
- 10. REVIEW THE MECHANICAL PLANS FOR ALL THE HVAC EQUIPMENT CONTROL REQUIREMENTS AND SCOPE OF WORK PRIOR TO BIDDING AND INCLUDE ALL
- VERIFY CONNECTION POINTS OF ALL HVAC EQUIPMENT PRIOR TO INSTALLATION. PROVIDE CONTROL VOLTAGE CONNECTION TO DUCT MTD. SMOKE DETECTOR AS REQUIRED BY MECHANICAL DRAWING.
- 12. SEE MECHANICAL DRAWINGS FOR EXACT LOCATIONS OF MECHANICAL
- EQUIPMENT AND THERMOSTATS. PROVIDE RACEWAY SYSTEM FOR ALL CONTROL WIRING AS REQUIRED BY DETAIL ON MECHANICAL DRAWING.
- ALL OUTLET HEIGHTS BEFORE ROUGH-IN. 14. ANY NEW WIRING TO BE COPPER AND RUN IN CONDUIT, INCLUDING LOW
- ||POWER PLAN KEYED NOTES: 7 REROUTE 1" CONDUIT FROM BUILDING MAIN TELE BACKBOARD TO TENANT 2'X2' TELE BACKBOARD AT NEW LOCATION AS SHOWN. VERIFY LOCATION IN FIELD WITH
- OUTLET HEIGHT TO MATCH DOOR HEIGHT. DOOR AIR CURTAIN ACTIVATED CONTROL BY MICRO SWITCH FOR SWING DOOR.
- 3 PROVIDE FLUSH MOUNTED RECEPTACLE ABOVE WINDOW HEADER OR IN LAY-IN CEILING TILE. RECEPTACLE TO BE MOUNTED WITHIN 18" OF TOP OF WINDOW. IF CEILING MOUNTED, J-BOX SHALL BE SUPPORTED TO STRUCTURE ABOVE WITH
- (4) E.C. SHALL MAINTAIN CLEARANCE FOR ELECTRICAL PANELS PER NEC 110.26 (A)
- 5 CONNECT TO HOOD LIGHTS, ANSUL SYSTEM VENTILATION CONTROL, ELECTRICALLY OPERATED GAS VALVES, ETC. AS REQUIRED.
- 6 ELECTRICAL CONTRACTOR TO PROVIDE SHUNT TRIP BREAKERS FOR ALL EQUIPMENT UNDER HOOD AND INTERWIRE TO FIRE PROTECTION SYSTEM PER LOCAL CODE.
- HOOD LIGHT, FAN CONTROL STATION, AND ANSUL CONTROL PANEL. VERIFY FINAL LOCATION ON FIELD WITH ARCHITECT/OWNER.
- TYPICAL CONDUITS AND WIRING RUN WITHIN CASE WORK OR LOW WALL. COORDINATE WITH MANUFACTURER OR ARCHITECT. PROVIDE 3/4" CONDUIT TO ACCESSIBLE CEILING SPACE FOR TEL/DATA.
- PROVIDE GFI RECEPTACLE IN WALL ADJACENT TO GAS WATER HEATER FOR CONTROLS. PROVIDE LIQUID-TIGHT FLEX CONNECTION. COORDINATE EXACT LOCATION IN FIELD WITH ARCHITECT/OWNER.
- EXISTING 200A (MCB), 120/208V, 3-PHASE, 4W ELECTRICAL PANEL "A" FOR THE PROJECT SPACE. E.C. SHALL COORDINATE THE EXACT LOCATION OF PANEL "A" IN
- EXISTING 200A (MCB), 120/208V, 3-PHASE, 4W ELECTRICAL PANEL "B" FOR THE PROJECT SPACE. E.C. SHALL COORDINATE THE EXACT LOCATION OF PANEL "B" IN FIELD.
- (12) EXISTING 75 KVA, 480 VAC DELTA PRIMARY TO 208/120V SECONDARY STEP DOWN TRANSFORMER FOR THE PROJECT SPACE LOCATED IN MEZZANINE FLOOR ROOM. E.C. SHALL COORDINATE EXACT LOCATION IN FIELD WITH ARCHITECT/OWNER.
- EXISTING 200A (MCB), 480/277V, 3PH, 4W ELECTRICAL PANEL "H". E.C. SHALL VERIFY EXACT LOCATION AND OPERABLE CONDITION OF EXISTING ELECTRICAL PANEL "H" IN THE FIELD.

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04-23-2024 CITY COMMENTS 06-28-2024 CITY COMMENTS

08-16-2024 CLIENT CHANGES

03-25-2025 SITE COORDINATION

It is the clients responsibility prior to or during construction to notify the architect in writing of any perceived errors or omissions in the plans and specifications of which a contractor thoroughly knowledgeable with the building codes and methods of construction should reasonably be aware. Written instructions addressing such perceived errors or omissions shall be received

the work. The client will be responsible for any defects in construction if these procedures are not followed.

POWER PLAN

E-2

POWER PLAN GENERAL NOTES:

- 1. SEE ARCHITECTURAL ELEVATIONS FOR PLACEMENT AND MOUNTING OF DEVICES.
- 2. E.C. TO PROVIDE LABEL ON EACH OUTLET AND DISCONNECT MEANS INDICATING THE POWER SOURCE PANEL AND CIRCUIT NUMBER.
- 3. ALL ROOF MOUNTED EQUIPMENT SHALL BE IN NEMA-3R ENCLOSURES.
- 4. ALL CONDUIT RUNS ON ROOF SHALL BE RUN BELOW THE CEILING SPACE WHERE AMBIENT TEMPERATURE WILL BE BELOW 86F. FINAL CONNECTIONS TO THE ROOF EQUIPMENT IS LIMITED TO 5'-0' OF DIRECT SOLAR EXPOSURE.
- 5. ALL ROOF RECEPTACLES SHALL BE GFI & WP TYPE.

8. VERIFY CONNECTION POINTS OF ALL HVAC EQUIPMENT PRIOR TO

- 6. VERIFY ALL FUSE SIZES AND TYPES WITH THE AIR CONDITIONING EQUIPMENT MANUFACTURER PRIOR TO INSTALLATION.
- REVIEW THE MECHANICAL PLANS FOR ALL THE HVAC EQUIPMENT CONTROL REQUIREMENTS AND SCOPE OF WORK PRIOR TO BIDDING AND INCLUDE ALL COSTS IN BID.
- INSTALLATION. PROVIDE CONTROL VOLTAGE CONNECTION TO DUCT MTD. SMOKE DETECTOR AS REQUIRED BY MECHANICAL DRAWING.
- 9. SEE MECHANICAL DRAWINGS FOR EXACT LOCATIONS OF MECHANICAL EQUIPMENT AND THERMOSTATS. PROVIDE RACEWAY SYSTEM FOR ALL CONTROL WIRING AS REQUIRED BY DETAIL ON MECHANICAL DRAWING.
- ANY NEW WIRING TO BE COPPER AND RUN IN CONDUIT, INCLUDING LOW VOLTAGE

POWER PLAN KEYED NOTES:

- E.C. TO COORDINATE THE EXACT LOCATION AND ELECTRICAL REQUIREMENT OF MECHANICAL/PLUMBING EQUIPMENTS WITH MECHANICAL/PLUMBING CONTRACTOR AND MANUFACTURER. PROVIDE THE ELECTRICAL CONNECTION AS PER MECHANICAL/PLUMBING EQUIPMENTS REQUIREMENT IN FIELD.
- E.C. SHALL VERIFY EXACT LOCATION AND OPERABLE CONDITION OF EXISTING DISCONNECT/ WIRING/ CONDUITS FOR EXISTING RTU-1. REPLACE WITH NEW ONE IF FOUND INOPERABLE. VERIFY ELECTRICAL REQUIREMENTS WITH MECHANICAL CONTRACTOR. ENSURE ELECTRICAL CONNECTIONS ARE AS PER THE REQUIREMENTS. NOTIFY ENGINEER OF ANY DISCREPANCY FOUND. BASE BID ACCORDINGLY.

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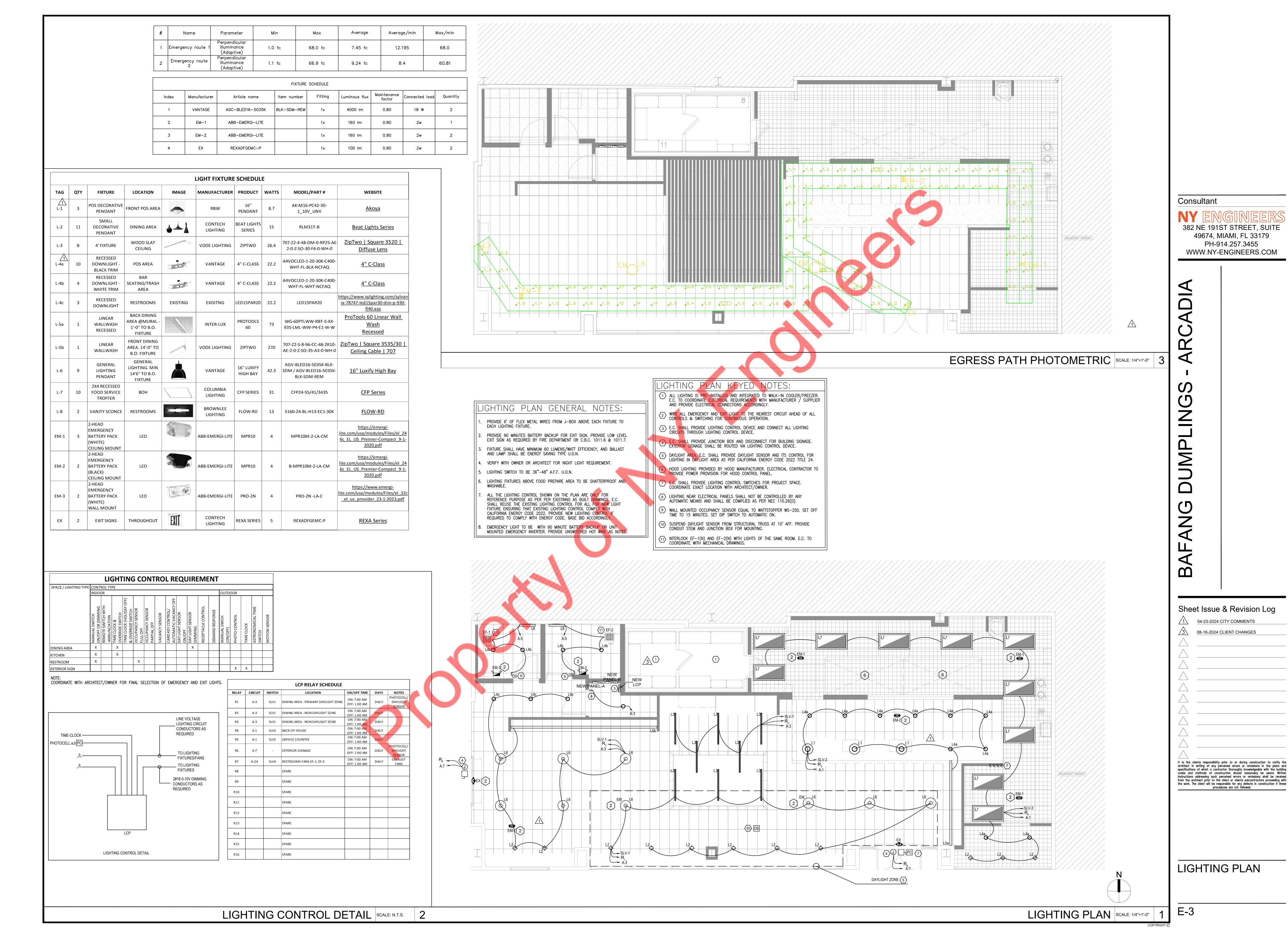
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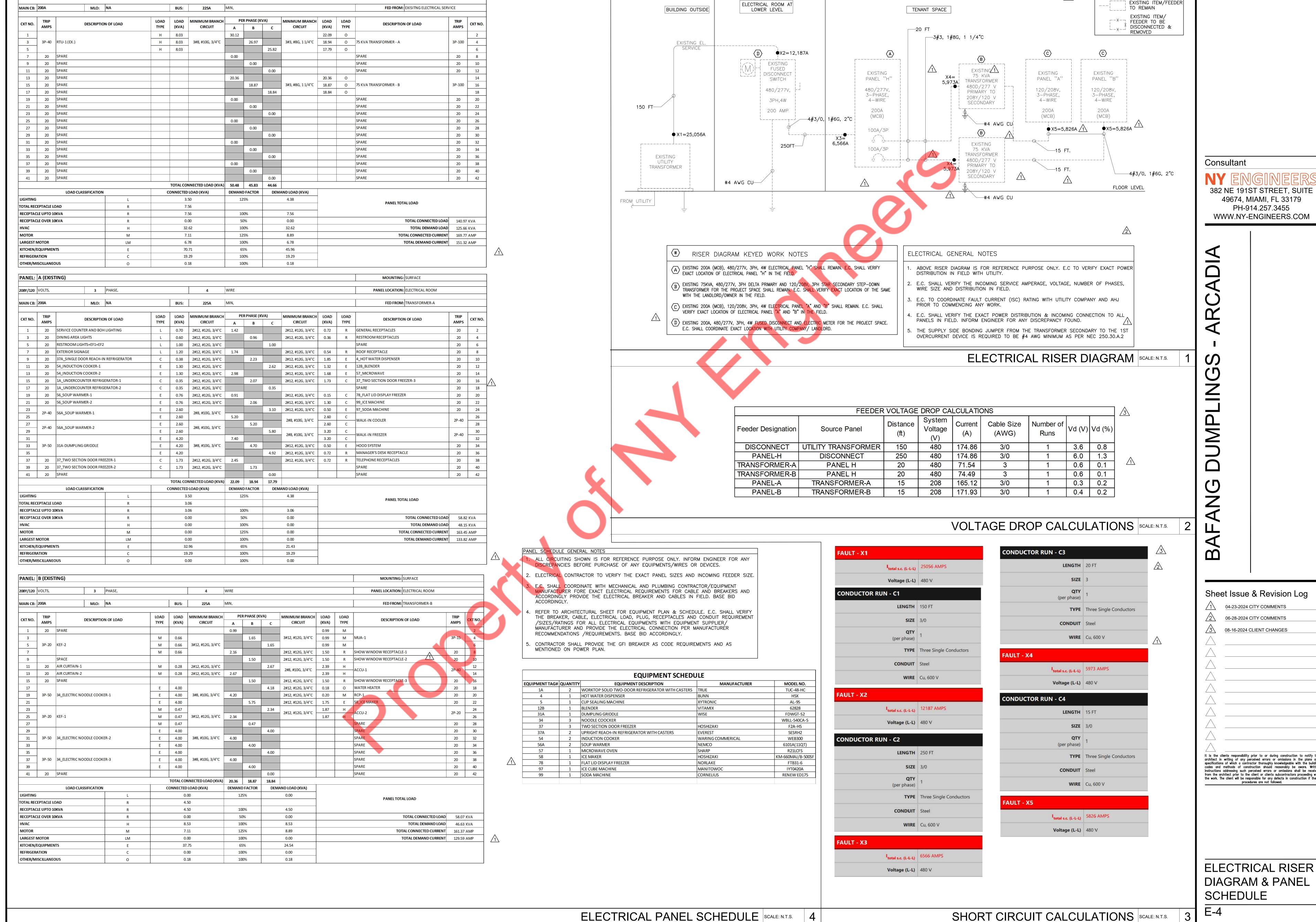
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ROOF POWER PLAN

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

E-2.1





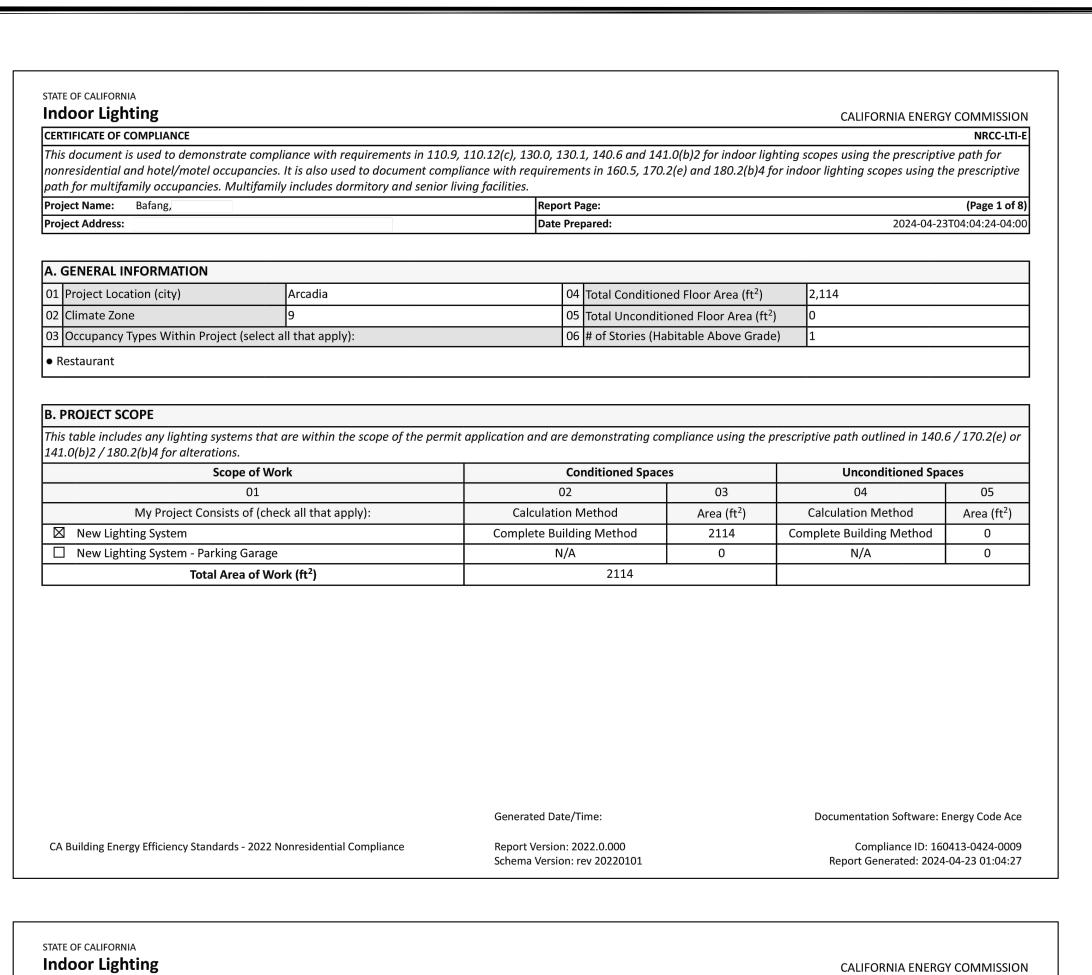
MOUNTING: SURFACE

PANEL LOCATION: EXTERIOR OF PROJECT SPACE

PANEL: | H (EXISTING)

ELECTRICAL RISER SYMBOL

It is the clients responsibility prior to or during construction to notify the architect in writing of any perceived errors or omissions in the plans and specifications of which a contractor thoroughly knowledgeable with the buildin codes and methods of construction should reasonably be aware. Written instructions addressing such perceived errors or omissions shall be received the work. The client will be responsible for any defects in construction if these



CERTIFICATE OF COMPLIANCE Project Name: Bafang,			ln _a	port Page:					NRCC-LTI (Page 4 of
				te Prepared:				2024-04-23T0	
Project Address:			Da	te Frepareu.				2024-04-2310	4.04.24-04.
	NTROLS (Not including PAFs)								
This table includes lighting co Building Level Controls	ontrols for conditioned and uncondi	tioned spaces.							
building Level Controls	01	1			02			0	3
						-			spector
Mandato	pry Demand Response 110.12(c)			Shut-off controls 1	.30.1(c) / 160.	5(b)4C		Pass	Fail
NA <	4,000W subject to multilevel	(See Area/Spac	e Level Contr	ols			
Area Level Controls									
04	05	06	07	08	09	10	11	1	2
Area Description	Complete Building or Area Category Primary Function Area	Manual Area Controls 130.1(a) / 160.5(b)4A	Multi-Level Controls 130.1(b) / 160.5(b)4B	Shut-Off Controls 130.1(c) // 160.5(b)4C	Primary/Sky lit Daylighting 130.1(d) /	Daylighting	Interlocked Systems 140.6(a)1/ 170.2(e)2A	Field In	spector
		Doodily			160.5(b)4D NA: Not	NA: Not		Pass	Fail
Dining Area	Restaurant	Readily Accessible	Dimmer	Auto. Time Switch	daylit zone	daylit zone	No		
Restroom	Restaurant	Readily Accessible	NA: Restroom	s Occupancy Sensor	NA: Not daylit zone	NA: Not daylit zone	No		
kitchen/BOH	Restaurant	Readily Accessible	Dimmer	Auto. Time Switch	NA: Not daylit zone	NA: Not daylit zone	No		
Hallway	Restaurant	Readily Accessible	Dimmer	Auto. Time Switch	NA: Not daylit zone	NA: Not daylit zone	No		
Storage	Restaurant	Readily Accessible	NA: Enclosed area <100SF	Occupancy Sensor	NA: Not daylit zone	NA: Not daylit zone	No		
						Dia Char	13	li z	
						Plan Shee	t Showing Day	ylit Zones:	
			Generated I	Date/Time:		D	Oocumentation	Software: Ene	rgv Code A
CA Building Energy Efficiency S	tandards - 2022 Nonresidential Complia	nce	Report Vers	on: 2022.0.000 sion: rev 20220101		J	Complia	ance ID: 16041 rated: 2024-04	3-0424-000

CERTIFICATE CE	nting			CALIFORNIA ENERGY COMMISSION
CERTIFICATE OF	<u> </u>		Donout Dono	NRCC-LTI-E
Project Name: Project Address:	Bafang,		Report Page: Date Prepared:	(Page 7 of 8) 2024-04-23T04:04:24-04:00
•				
		ICATES OF INSTALLATION		
			ector during construction and can be found online	licant, an explanation should be included in Table E.
			Form/Title	
NRCI-LTI-E - Mu	ust be submitted for all build	ings		
V. DECLARATI	ON OF REQUIRED CERTIF	ICATES OF ACCEPTANCE		
			p://www.energy.ca.gov/title24/attcp/providers.htm	orm name must be completed through an Acceptance nl Systems/Spaces To Be Field Verified
NRCA-LTI-02-A	- Must be submitted for occ	upancy sensors and automatic tim	ne switch controls.	Dining Area; Restroom; kitchen/BOH; Hallway; Storage
			Generated Date/Time:	Documentation Software: Energy Code Ace
		Nonresidential Compliance		

CERTIFICATE OF CONIF	LIANCE											NRCC-LTI
Project Name: Bafa	ng,					Repo	rt Pa	ge:				(Page 2 of
Project Address:						Date	Prep	ared:				2024-04-23T04:04:24-04:0
C. COMPLIANCE RE	e says "DOES I						r to i		idance.	140.	6(a) / 170.2(e)	
		wed Lighting F	ower per 140.	.6(b) / 170.2(e) (Wa	atts) 		,	(Watts)			Compliance Results
Lighting in conditioned and	01	02	03	04		05		06	07		08	09
unconditioned spaces must not be combined for compliance per 140.6(b)1 / 170.2(e)	Complete Building 140.6(c)1	Area Category 140.6(c)2 / 170.2(e)4	Area Category Additional 140.6(c)2G / 170.2(e)4Av (+)	Tailored 140.6(c)3 / 170.2(e)4B (+)	=	Total Allowed (Watts)	2	Total Designed (Watts)	Adjustments PAF Lighting Control Credits 140.6(a)2 / 170.2(e)1B (-)	ш	Total Adjusted (Watts) *Includes Adjustments	05 must be >= 08 140.6 / 170.2(e)
	(See Table I)	(See Table I)	(See Table J)	(See Table K)				(See Table F)	(See Table P)			
Conditioned	1,475.5				=	1,475.5	≥	1,470.4		=	1470.4	COMPLIES
Unconditioned					=		≥			=		001151150
						5	- 1.5				Table H for Details) Table Q for Details)	COMPLIES
									the form.			
		ble comments	because of sel	ections made	or da	ita entered in i	table	s throughout t				
D. EXCEPTIONAL CO	d with unedita	ble comments	because of sel	ections made	or da	ita entered in i	table	s throughout t				
This table is auto-fille	d with unedita		·				table	s throughout t				
This table is auto-fille	d with unedita		·				table	s throughout t				
This table is auto-fille	d with unedita		·								Documentati	on Software: Energy Code Ac

roject Name: Bafang		Report Page: (Page							
Project Address:		Date Prepared:			2024-04	-23T04:04:24-04:			
LIGHTING POWER ALLOWAN	ICE: COMPLETE BUILDING OR AREA CATEGORY N	METHODS							
	mplete Building or Area Category Methods per 140.6(I	* * *	s table Column	n 06 indicates if addition	nal lighting nower all	owances ner			
.40.6(c) or adjustments per 140.6		oj are mciadea in tili.	s tuble. Column	i oo maicates ij adamoi	nai lighting power and	owunces per			
Conditioned Spaces	· ·								
01	02	03	04	05	06				
	Complete Building or Area Category Primary	Allowed Density		Allowed Wattage	Additional Allowar	ice / Adjustmer			
Area Description	Function Area	(W/ft²)	Area (ft ²)	(Watts)	Area Category	PAF			
Dining Area	Restaurant	0.65	1,300	845	No	No			
Restroom	Restaurant	0.65	150	97.5	No	No			
kitchen/BOH	Restaurant	0.65	510	331.5	No	No			
Hallway	Restaurant	0.65	280	182	No	No			
Hallway					 				
Storage	Restaurant	0.65	30	19.5	No	No			
Storage	Restaurant AREA CATEGORY METHOD QUALIFYING LIGHTING	TOTALS:	30 2,270	19.5 1,475.5	No See Tables J, o				
Storage	AREA CATEGORY METHOD QUALIFYING LIGHTING	TOTALS:							
Storage ADDITIONAL ALLOWANCE: A his section does not apply to this	AREA CATEGORY METHOD QUALIFYING LIGHTING project.	TOTALS:							
Storage . ADDITIONAL ALLOWANCE: A This section does not apply to this K. TAILORED METHOD GENERA	AREA CATEGORY METHOD QUALIFYING LIGHTING PROJECT. AL LIGHTING POWER ALLOWANCE	TOTALS:							
Storage ADDITIONAL ALLOWANCE: A his section does not apply to this	AREA CATEGORY METHOD QUALIFYING LIGHTING PROJECT. AL LIGHTING POWER ALLOWANCE	TOTALS:							
Storage . ADDITIONAL ALLOWANCE: A This section does not apply to this K. TAILORED METHOD GENERA This section does not apply to this	AREA CATEGORY METHOD QUALIFYING LIGHTING PROJECT. AL LIGHTING POWER ALLOWANCE	TOTALS:							
Storage . ADDITIONAL ALLOWANCE: A This section does not apply to this K. TAILORED METHOD GENERA This section does not apply to this ADDITIONAL LIGHTING ALLO	AREA CATEGORY METHOD QUALIFYING LIGHTING PROJECT. AL LIGHTING POWER ALLOWANCE project. DWANCE: TAILORED WALL DISPLAY	TOTALS:							
Storage . ADDITIONAL ALLOWANCE: A This section does not apply to this K. TAILORED METHOD GENERA This section does not apply to this	AREA CATEGORY METHOD QUALIFYING LIGHTING PROJECT. AL LIGHTING POWER ALLOWANCE project. DWANCE: TAILORED WALL DISPLAY	TOTALS:							
Storage . ADDITIONAL ALLOWANCE: A This section does not apply to this K. TAILORED METHOD GENERA This section does not apply to this ADDITIONAL LIGHTING ALLO This section does not apply to this	AREA CATEGORY METHOD QUALIFYING LIGHTING PROJECT. AL LIGHTING POWER ALLOWANCE project. DWANCE: TAILORED WALL DISPLAY	TOTALS:							
Storage . ADDITIONAL ALLOWANCE: A This section does not apply to this K. TAILORED METHOD GENERA This section does not apply to this ADDITIONAL LIGHTING ALLO This section does not apply to this	AREA CATEGORY METHOD QUALIFYING LIGHTING PROJECT. AL LIGHTING POWER ALLOWANCE project. DWANCE: TAILORED WALL DISPLAY project.	TOTALS:							
Storage . ADDITIONAL ALLOWANCE: A This section does not apply to this K. TAILORED METHOD GENERA This section does not apply to this ADDITIONAL LIGHTING ALLO This section does not apply to this M. ADDITIONAL LIGHTING ALLO M. ADDITIONAL ALLO M. ADDITIO	AREA CATEGORY METHOD QUALIFYING LIGHTING PROJECT. AL LIGHTING POWER ALLOWANCE project. DWANCE: TAILORED WALL DISPLAY project.	TOTALS:							
Storage . ADDITIONAL ALLOWANCE: A This section does not apply to this K. TAILORED METHOD GENERA This section does not apply to this ADDITIONAL LIGHTING ALLO This section does not apply to this M. ADDITIONAL LIGHTING ALLO M. ADDITIONAL ALLO M. ADDITIO	AREA CATEGORY METHOD QUALIFYING LIGHTING project. AL LIGHTING POWER ALLOWANCE project. DWANCE: TAILORED WALL DISPLAY project. LOWANCE: TAILORED FLOOR AND TASK LIGHTING project.	TOTALS:		1,475.5		r P for detail			
Storage . ADDITIONAL ALLOWANCE: A This section does not apply to this section does not apply to this section does not apply to this ADDITIONAL LIGHTING ALLOWANCE This section does not apply to this ADDITIONAL LIGHTING ALLOWANCE This section does not apply to this This section does not apply to this	AREA CATEGORY METHOD QUALIFYING LIGHTING project. AL LIGHTING POWER ALLOWANCE project. DWANCE: TAILORED WALL DISPLAY project. LOWANCE: TAILORED FLOOR AND TASK LIGHTING project.	G SYSTEM	2,270	1,475.5	See Tables J, o	e: Energy Code A			

CALIFORNIA ENERGY COMMISSION

NRCC-LTI-E

STATE OF CALIFORNIA

Indoor Lighting

CERTIFICATE OF COMPLIANCE

Project Name: Bafang

	STATE OF CALIFORNIA Indoor Lighting		CALIFORNIA ENERGY COMMISSION
	CERTIFICATE OF COMPLIANCE		NRCC-LTI-E
	Project Name: Bafang,	Report Page:	(Page 8 of 8)
			2024-04-23T04:04:24-04:00
	Project Address:	Date Prepared:	2024-04-23104:04:24-04:00
	DOCUMENTATION AUTHOR'S DECLARATION STATEMENT		
	I certify that this Certificate of Compliance documentation is accurate	and complete.	
	Documentation Author Name: TRAVUTH MOCK	Documentation Author Signature:	
	Documentation Author Name: TRAVOTH MOCK	bocumentation Author Signature.	
	Company: Empire 3 Consulting Engineers	Signature Date:	
_	Address: 3711 Long Beach Blvd. Suite 5058	CEA/ HERS Certification Identification (if app	olicable):
	City/State/Zip: Long Beach, CA. 90807	Phone:	
۱,	RESPONSIBLE PERSON'S DECLARATION STATEMENT		
_	I certify the following under penalty of perjury, under the laws of the State of California:		
	The information provided on this Certificate of Compliance is true and correct.		
	2. I am eligible under Division 3 of the Business and Professions Code to accept respons	ibility for the building design or system design identified on th	s Certificate of Compliance (responsible designer)
	3. The energy features and performance specifications, materials, components, and ma	nufactured devices for the building design or system design ide	entified on this Certificate of Compliance conform to the requirements
	of Title 24, Part 1 and Part 6 of the California Code of Regulations.		
	 The building design features or system design features identified on this Certificate o plans and specifications submitted to the enforcement agency for approval with this 	·	other applicable compliance documents, worksneets, calculations,
	5. I will ensure that a completed signed copy of this Certificate of Compliance shall be n		ng, and made available to the enforcement agency for all applicable
	inspections. I understand that a completed signed copy of this Certificate of Complia		
	Responsible Designer Name: TRAVUTH MOCK	Responsible Designer Signature:	
	Company: Empire 3 Consulting Engineers	Date Signed:	
	Address: 3711 Long Beach Blvd. Suite 5058	License:	
	City/State/Zip: Long Beach, CA. 90807	Phone:	
	^	•	
	<u>/1\</u>		
		Generated Date/Time:	Documentation Software: Energy Code Ace
	CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance	Report Version: 2022.0.000	Compliance ID: 160413-0424-0009
		Schema Version: rev 20220101	Report Generated: 2024-04-23 01:04:27

CERTIFICATE OF	COMPLIANCE									NRCC-
Project Name:	Bafang,				Report Page:					(Page 3
Project Address:					Date Prepared:			2	024-04-23T0 ²	:04:24-0
E INDOOD H	CUITING ENTURE COLLEGIU									
	GHTING FIXTURE SCHEDUL	-								
	des all planned permanent an Table T. If using Table T to doc									
not included he		ument ngnting	in munificanity c	ommon use ar	eas providing share	eu provisions jo	i iiviiig, eatiiig, cot	oking or samtation	i, those lathi	nunes u
Designed Watt	age: Conditioned Spaces									
01	02	03	04	05	06	07	08	09	1	.0
		NA control one	Small	\\/atta		T I IN I	Excluded per		Field In	spector
Name or Item Tag	Complete Luminaire Description	Modular (Track) Fixture	Aperture &	Watts per Iuminaire ²	How is Wattage determined	Total Number of Luminaires	140.6(a)3 /	Design Watts		Fai
lag	Безсприон	(Huck) Fixedic	Color Change ¹	lammane	determined	or Editination	170.2(e)2C		Pass	
L-2	PENDANT LIGHT	No	NA	15	Mfr. Spec	11	No	165		
L-3	LINEAR LIGHT	No	NA	26.4	Mfr. Spec	8	No	211.2		
L-4a	RECESSED CAN LIGHTS	No	NA	22.2	Mfr. Spec	10	No	222		
L-4b	RECESSED CAN LIGHTS	No	NA	22.2	Mfr. Spec	4	No	88.8		
L-5b	LINEAR WALL WASH LIGHT RECESSED	No	NA	15	Mfr. Spec	18	Exempt			
L-6	GENERAL LIGHTS	No	NA	42.3	Mfr. Spec	9	No	380.7		
L-7	LED TRODDERS	No	NA	31	Mfr. Spec	10	No	310		
L-8	LED LIGHT COVE	No	NA	13	Mfr. Spec	2	Exempt			
L5a	LINEAR WALLWASH	No	NA	6.6	Mfr. Spec	12	Exempt			
L4c	RECESSED DOWNLIGHT	No	NA	22.2	Mfr. Spec	3	No	66.6		
L-1	PENDANT LIGHT	No	NA	8.7	Mfr. Spec	3	No	26.1		
					Total Design	ed Watts: CONI	DITIONED SPACES	1,470.4		
	esign Watts for small <mark>apertu</mark> re					70.2(e)2D is adj	usted to be 75% /8	0% of their rated w	wattage. Tak	ole F
	nakes this adjustment, the per									
-	ng Jurisdiction may ask for Lu	minaire cut she	ets to confirm w	vattage used fo	r compliance per 1	30.0(c) / 160.5(b). Wattage used i	must be the maxin	num rated fo	or the
luminaire, not t	ne iump.									
G. MODULAR	LIGHTING SYSTEMS									
This section doe	es not apply to this project.									
				Gener	ated Date/Time:			Documentation S	oftware: Ener	gy Code
CA P. II II	F.C		D.	_				.	ID 400611	
CA Building Ene	rgy Efficiency Standards - 2022 N	onresidential Cor	npliance		t Version: 2022.0.000 a Version: rev 20220			Compliar Report Genera	nce ID: 160413 nted: 2024-04	
				Scham	a version, rev 70770	11171		Kenort Genera	116U. 7074-04-	シュコロコロノ

Indoor Lighting CERTIFICATE OF COMPLIANCE		CALIFORNIA ENERGY COMMISS NRCC-
Project Name: Bafang	Report Page:	(Page 6
Project Address:	Date Prepared:	2024-04-23T04:04:24-0
N. ADDITIONAL LIGHTING ALLOWANCE: TAILORED DECORATIVE /SP This section does not apply to this project.	PECIAL EFFECTS	
O. ADDITIONAL LIGHTING ALLOWANCE: TAILORED VERY VALUABLE This section does not apply to this project.	MERCHANDISE	
P. POWER ADJUSTMENT: LIGHTING CONTROL CREDIT (POWER ADJUST) This section does not apply to this project.	JSTMENT FACTOR (PAF))	
Q. RATED POWER REDUCTION COMPLIANCE FOR ONE-FOR-ONE ALT This section does not apply to this project.	TERATIONS	
R. 80% LIGHTING POWER FOR ALL ALTERATIONS - CONTROLS EXCEP	PTIONS	
This section does not apply to this project.		
S. DAYLIGHT DESIGN POWER ADJUSTMENT FACTOR (PAF)		
This section does not apply to this project.		
T. DWELLING UNIT LIGHTING		
This section does not apply to this project.		
	Generated Date/Time:	Documentation Software: Energy Code

Consultant

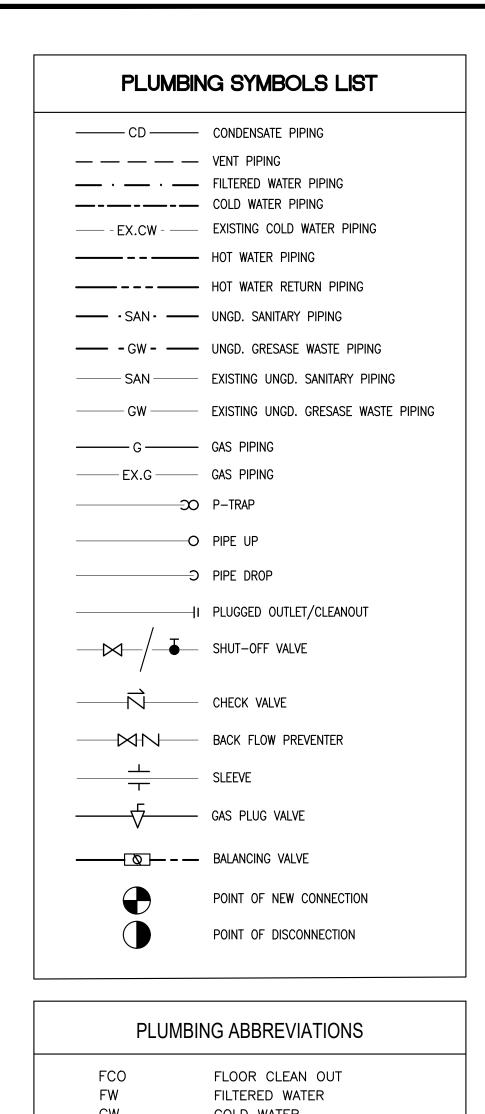
382 NE 191ST STREET, SUITE 49674, MIAMI, FL 33179 PH-914.257.3455

WWW.NY-ENGINEERS.COM

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She	et Issue & Revision Log
\triangle	04-23-2024 CITY COMMENTS
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architect ir specification codes and instructions from the a	clients responsibility prior to or during construction to notify to writing of any perceived errors or omissions in the plans are sof which a contractor thoroughly knowledgeable with the build methods of construction should reasonably be aware. Writt addressing such perceived errors or omissions shall be receive chitect prior to the client or clients subcontractors proceeding whe client will be responsible for any defects in construction if the procedures are not followed.

ENERGY COMPLIANCE

E-5



PLUM	BING ABBREVIATIONS
FCO FW CW	FLOOR CLEAN OUT FILTERED WATER COLD WATER
HW	HOT WATER
HWR	HOT WATER RETURN
SAN	SANITARY
GW	GREASE WASTE
٧	VENT
LAV	LAVATORY
WC	WATER CLOSET
TYP.	TYPICAL
DN	DOWN
EX./(E)	EXISTING
G	GAS
AFF	ABOVE FINISH FLOOR
FD	FLOOR DRAIN
SQ. FT.	SQUARE FEET
BFP	BACK FLOW PREVENTER
WH	WATER HEATER
VTR	VENT THROUGH ROOF
UR	URINAL
FS	FLOOR SINK
HD	HUB DRAIN
TP	TRAP PRIMER
RTU	ROOF TOP UNIT
MUA	MAKE UP AIR UNIT

	NON-RESIDENTIAL ENERGY
P-4	ENERGY COMPLIANCE
P-3	PLUMBING ISOMETRIC RISER DIAGRAMS
P-2	PLUMBING FLOOR PLANS
P-1	PLUMBING LEGENDS, NOTES, DETAILS & SCHEDULES
	LOINDING DILAWING LIGH

	NON-RESIDENTIAL ENERGY CONSERVATION NOTES
1.	PIPING INSULATION SHALL COMPLY WITH CALIFORNIA ENERGY CODE BUILDING EFFICIENCY STANDARD.
2.	ALL PLUMBING EQUIPMENT SHALL BE CERTIFIED PER CALIFORNIA BUILDING EFFICIENCY STANDARD.
3.	THE MANDATORY MEASURES OF THE ENERGY EFFICIENCY STANDARD HAVE BEEN REVIEWED. THE PROJECT DESIGN, DRAWINGS AND CALCULATIONS COMPLY WITH THESE CALCULATIONS.

PLUMBING GENERAL NOTES:

1.	ALL	PLUM	IBING	SYSTE	EMS ((SANIT	TARY,	WASTE,	VENT,
	WATE	:R &	: GA	S DIS	STRIBL	JTION	PIPII	NG SY	STEMS)
	SHAL	_)MPLY	WITH	202	2 CA	LIFORI	NIA PLI	UMBINĠ

- 2. DRAWING AND SPECIFICATIONS GOVERN WHERE THEY EXCEED CODE REQUIREMENTS.
- . CONTRACTOR SHALL VERIFY LOCATION AND DEPTH OF UTILITIES AT POINT OF CONNECTION BEFORE START OF WORK. 4. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT

EQUIPMENT.

. ALL UNDERGROUND SHUT-OFF VALVES OUTSIDE OF BUILDING SHALL BE IN CONCRETE BOXES WITH THE NAME OF THE SERVICE CASTED IN THE COVER.

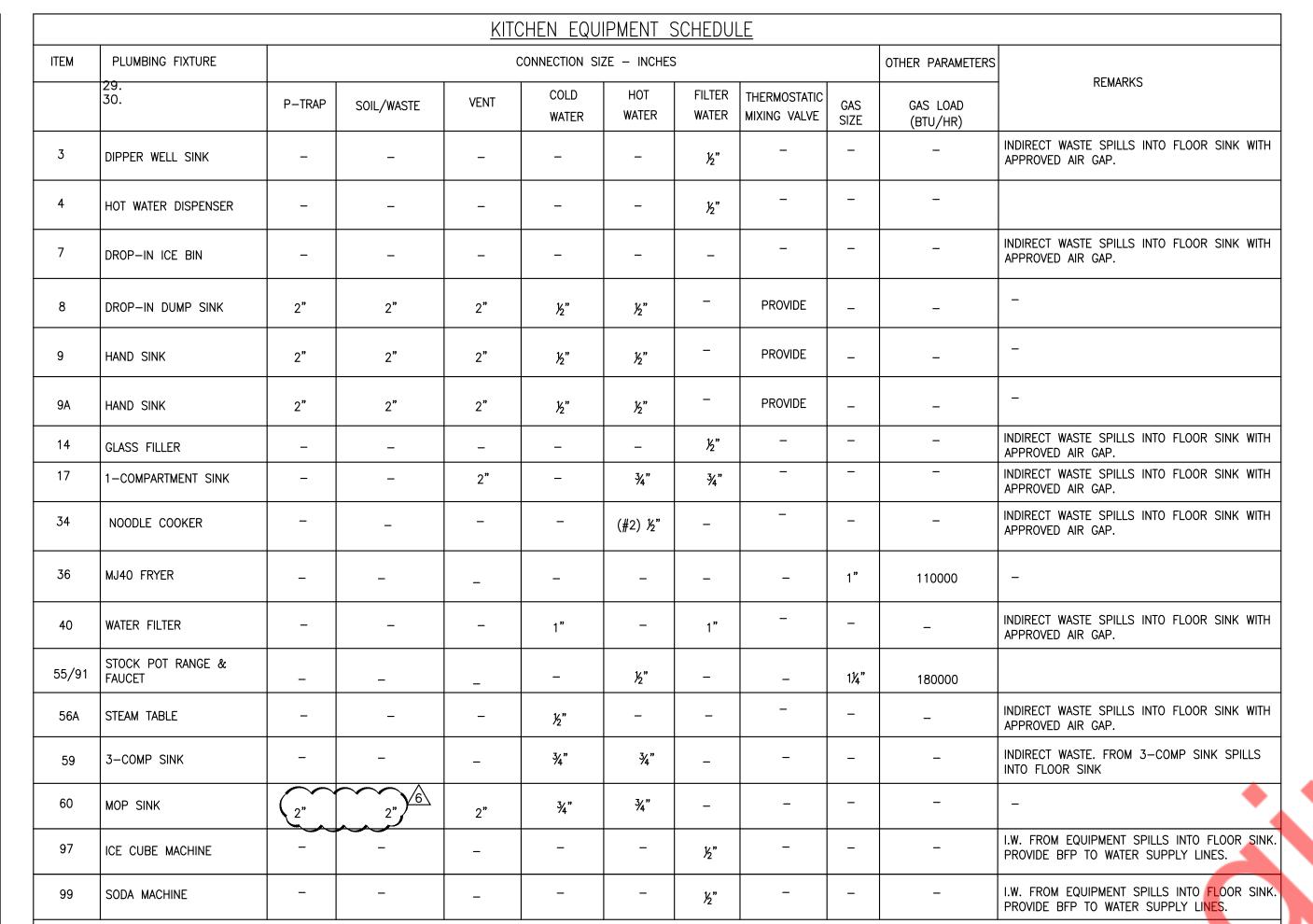
LOCATION OF PLUMBING FIXTURES AND KITCHEN

- 6. ALL PLUMBING FIXTURES AND EQUIPMENT SHALL HAVE ISOLATING VALVES ON WATER SUPPLY LINES. VALVES SHALL BE LINE SIZED UNLESS NOTED
- OTHERWISE. . ALL PLUGGED TEES AND PLUGGED WYES SHALL BE LINE SIZED UNLESS NOTED OTHERWISE.
- 8. ALL PIPING PENETRATING WALLS, CEILING, AND FLOOR SHALL BE ISOLATED FROM BUILDING STRUCTURES WITH RESILIENT SEALS.
- 9. RUN ALL INDOOR PLUMBING PIPING CONCEALED IN WALL OR ABOVE CEILING, UNLESS NOTED OTHERWISE.
- 10. PROVIDE DIELECTRIC UNIONS AT BIMETALLIC PIPE
- 11. PROVIDE CHROME PLATED CAPS FOR WALL CLEANOUTS.
- 12. SANITARY & GREASE WASTE LINE SHALL NOT BE SLOPED LESS THAN 1/4" PER FT. IN THE DIRECTION OF FLOW.
- 13. ALL VALVES AND COCKS SHALL BE LOCATED TO BE READILY ACCESSIBLE. WHERE VALVES ARE INSTALLED WITHIN OR BEHIND WALLS OR CEILING, ACCESS PANELS SHALL BE INSTALLED.
- 14. WATER SUPPLY AND DRAIN PIPES UNDER ACCESSIBLE LAVATORIES AND SINKS SHALL BE INSULATED OR OTHERWISE BE CONFIGURED TO PROTECT AGAINST CONTACT. PROTECTORS, INSULATORS, OR BOTH SHALL COMPLY WITH ASME A112.18.9.
- 15. EACH VENT SHALL TERMINATE NOT LESS THAN 10 FT. FROM OR AT LEAST 3 FT. ABOVE ANY WINDOW, DOOR, OPENING AIR INTAKE OR VENT SHAFT, NOR LESS THAN 3 FT. FROM ANY LOT LINE IN ANY DIRECTION; ALLEY AND STREET EXCEPTED.
- 16. ALL REQUIRED CLEANOUTS SHALL BE INSTALLED PER SECTION 707 & 719 OF 2022 CALIFORNIA PLUMBING CODE.
- 17. EACH VENT SHALL RISE VERTICALLY TO A POINT NOT LESS THAN SIX INCHES IN HEIGHT ABOVE THE FLOOD LEVEL RIM OF THE FIXTURE BEFORE BEING CONNECTED TO ANY OTHER VENT.
- 18. NEW OR REPAIRED POTABLE WATER SYSTEMS SHALL BE DISINFECTED PRIOR TO USE ACCORDING TO THE METHOD SET IN SECTION 609.10 OF THE 2022 CALIFORNIA PLUMBING CODE.
- 19. PROVIDE NON-LEAD SOLDER FOR POTABLE WATER PIPING JOINTS AND CONNECTION.
- 20. MAX. HOT WATER TEMPERATURE TO PUBLIC LAVATORIES TO BE MIN. 110 DEG F & MINIMUM TEMPERATURE TO KITCHEN FIXTURES TO BE 120
- 21. FLOOR DRAIN OR SIMILAR TRAPS DIRECTLY CONNECTED TO THE DRAINAGE SYSTEM AND SUBJECT TO INFREQUENT USE SHALL BE PROVIDED WITH TRAP PRIMING. TRAP PRIMING DEVICES SHALL BE ACCESSIBLE FOR MAINTENANCE (SECTION 1007 OF 2022 CALIFORNIA PLUMBING CODE).
- 22. COMBUSTIBLE PIPING INSTALLATIONS SHALL BE INSTALLED PER CHAPTER 14 OF 2022 CALIFORNIA PLUMBING CODE FOR FIRESTOP PROTECTION.
- 23. PROPOSED ADDITION, ALTERATION OR IMPROVEMENT REQUIRES THAT ALL NON-COMPLIANT FIXTURES BE REPLACED WITH WATER CONSERVING PLUMBING
- 24. CONDENSATE DRAIN ARE TRAPPED IN ACCORDANCE WITH THE APPLIANCE MANUFACTURER'S INSTRUCTION.
- 25. PROTECT RECEPTOR ON ROOF OR OUTSIDE OF THE BUILDING FROM RAIN WATER BY ELEVATING THE RIM TWO INCHES ABOVE ADJACENT SURFACE. 26. PUBLIC LAVATORIES SHALL HAVE A WATER
- TEMPERING DEVICE THAT COMPLIES WITH ASSE 1070 OR CSA B125.3. WATER HEATER THERMOSTAT SHALL NOT BE CONSIDERED A CONTROL TO MEET THIS PROVISION.
- 27. INSULATION OF DOMESTIC HOT WATER PIPING SHALL BE IN ACCORDANCE WITH SECTION 609.12 OF 2022 CALIFORNIA PLUMBING CODE.
- 28. INSULATION OF LAVATORY TAILPIPE AND HOT WATER LINES SHALL BE INSULATED OR COVERED SHALL BE IN ACCORDANCE WITH SECTION 11B-606.5 OF CALIFORNIA PLUMBING CODE.

<u>E</u>	BACKFLOW PRE	EVENTER SCHE	DULE
TAG	LOCATION	MODEL	COMPLIES WITH ASSE CODE
BFP-1	NOODLE COOKER, STOCK POT RANGE, STEAM TABLE	WATTS SD3 DUAL CHECK VALVE	1022
BFP-2	ICE MACHINES, DIPPER WELL, WATER FILTER, SODA MACHINE	WATTS LF9D DUAL CHECK VALVE	1012
RPZ	AFTER WATER METER	WATTS LF009 REDUCED PRESSURE ZONE	1013

NOTE:
1. VERIFY BACKFLOW VALVE REQUIREMENTS FOR ALL EQUIPMENT
WITH AUTHORITIES HAVING JURISDICTIONS PRIOR TO INSTALLATION.
2. ENSURE ISOLATION VALVE BEFORE AND AFTER BFP FOR

ENTER SECUENT		1	COLD WATER					
FIXTURE/EQUIPMENT	QTY.	WSFU/FIX1	. (2022 UPC TA	BLE A 103.1)	TOTAL WSFU		J	REMARKS
		COLD	НОТ	TOTAL	COLD	НОТ	TOTAL	
WATER CLOSET	2	5		5	10	0	10	
URINAL	1	4		4	4	0	4	
LAVATORY	2	0.75	0.75	1	1.5	1.5	2	
HAND SINK	4	0.75	0.75	1	3	3	4	
DROP SINK	1	0.75	0.75	1	0.75	0.75	1	
MOP SINK	1	2.25	2.25	3	2.25	2.25	3	
3-COMP SINK	1	1.125	1.125	1.5	1.125	1.125	1.5	
1-COMP SINK	1	1.125	1.125	1.5	1.125	1.125	1.5	
MISC. FILTER WATER EQUIPMENT	5	0.5		0.5	2.5	0	2.5	ASSUMED EQUIVALENT TO DRINKING FOUNTAIN.
MISC. HOT WATER EQUIPMENT	7		0.5	0.5	0	3.5	3.5	ASSUMED EQUIVALENT TO DRINKING FOUNTAIN.
MAKE-UP AIR UNIT	1	2.5		2.5	2:5~	~~	~25~	ASSUMED EQUIVALENT TO HOSE BIB.
TOTAL WSFU				_	28.75	13.25	35.5	
TOTAL GPM				/6\	40	25	44	WSFU TO GPM PER 2022 CPC CHART A 103.1(2)



NOTE: CONTRACTOR TO COORDINATE WITH KITCHEN CONTRACTOR FOR ALL KITCHEN EQUIPMENT SPECIFICATIONS AND MOUNTING HEIGHT INSTALLATION.

			<u>PLUM</u>	<u>BING FIXT</u>	URE SCHE	<u>EDULE</u>							
ITEM	PLUMBING FIXTURE			DEMARKS									
		P-TRAP	SOIL/WASTE	VENT	COLD WATER	HOT WATER	THERMOSTATIC MIXING VALVE	- REMARKS					
WC	WATER CLOSET	-	2-1/8	2"	3/4"	_	_	FLUSH VALVE WC BOWL MODEL: KOHLER K-96057					
LAV	LAVATORY	1-1/2"	1-1/2"	1-1/2"	1/2"	1/2"	PROVIDE						
FFD	FUNNEL FLOOR DRAIN	3"	3"	2"	-	_	_	-					
HD	HUB DRAIN	2"	2"	2" 4	6 -	-	-	-					
FD	FLOOR DRAIN	2"	2"	2"	-	_	-	-					
FS	12"x12" FLOOR SINK	2"	2"	2"	_	_	_	FLOOR SINK MUST BE CAPABLE OF ACCOMMODATING 140 DEG F WATER					

NOTE: CONTRACTOR TO COORDINATE WITH ARCHITECTURAL DRAWINGS FOR ALL PLUMBING FIXTURES SPECIFICATIONS.

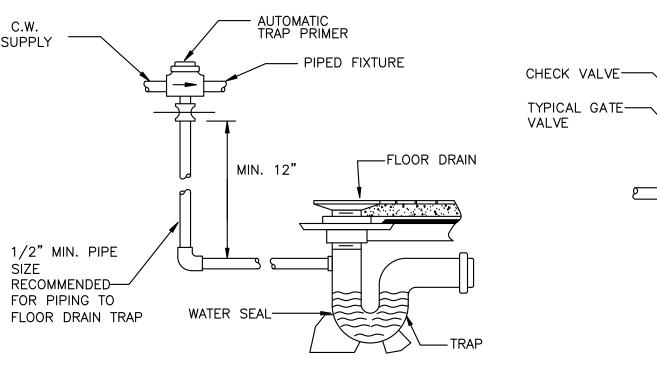
	HOT WATER HEATER SCHEDULE											
TAG	MAX INPUT (MBH)		SERVING	QUANTITY	CAPACITY GAL.	RECOVERY O 90 DEG F GPH	TYPE	THERMAL EFFICIENCY %	MANUFACTURER & MODEL NO.	REMARKS		
<u>WH</u>	130			1	34	165	GAS STORAGE TYPE WATER HEATER		A.O. SMITH POLARIS BSS-130	-DIMENSIONS 22" DIA X 48.5" HEIGHT -MOUNTED ABOVE MOP SINK		
	THERMOSTATIC MIXING VALVE SCHEDULE											
TAG	S	ERVING	SERVICE	CAPACITY (GPI MIN.		TEMP. RA (°F) MIN.	MAI	NUFACTURER MODEL NO.		REMARKS		
TMV		ND SINK, AVATORY	HOT WATER	0.25	2.25	80	120 WA	ITS MODEL JSG-B M2	-ASSE 1070	LISTED		

<u>EXPANSION TANK SCHEDULE</u>											
TAG	LOCATION	SERVICE	CAPACITY (GALLONS)	MANUFACTURER & MODEL	DIMENSIONS (DIA X HEIGHT)	WEIGHT (LBS)					
ET	REFER FLOOR PLANS	HW	2.0	THERM-X-TROL ST-5	8" X 13"	5					

	<u>RECIRO</u>	CULA	TING	<u>PUMP</u>	SCHE	<u>DULE</u>
TAG	SERVICE	QTY	GPM	TOTAL HEAD FT.	MOTOR HP	MANUFACTURER & REMARKS
RCP	HOT WATER RETURN RECIRCULATION	1	2	10	0.115	GRUNDFOS UPS 15-18 BUC5 W/AQUASTAT + TIMER

	PIPE MATER	RIAL SCHEDULE
SERVICE	UNDERGROUND	ABOVE GROUND
DOMESTIC WATER	HARD DRAWN COPPER TUBE TYPE "K" OR "L"	HARD DRAWN COPPER TUBE TYPE "L". SEE NOTE 1
SANITARY WASTE	"NO-HUB" CAST IRON OR ABS. SEE NOTE 2.	GALVANIZED STEEL, SCH 40, "NO-HUB" CAST IRON OR ABS. SEE NOTE 2.
INDIRECT DRAIN	_	HARD DRAWN COPPER TUBE TYPE "M".
GAS	_	BLACK STEEL, SCH 40
NOTF:		

1. ABS MAY BE USED ONLY AFTER OWNER & LOCAL AUTHORITY APPROVAL. 2. CPVC OR PEX MAY BE USED ONLY AFTER OWNER & LOCAL AUTHORITY APPROVAL.



FLOW CONTROLLED TRAP PRIMER DETAIL

1. INSTALL RECIRCULATING PUMP VERTICALLY. IF PUMP IS TO BE INSTALLED HORIZONTALLY, PROVIDE AN 2. REFER HOT WATER HEATER INSTALLATION DETAIL TO SEE HOW PUMP WILL CONNECT TO HOT WATER SYSTEM.

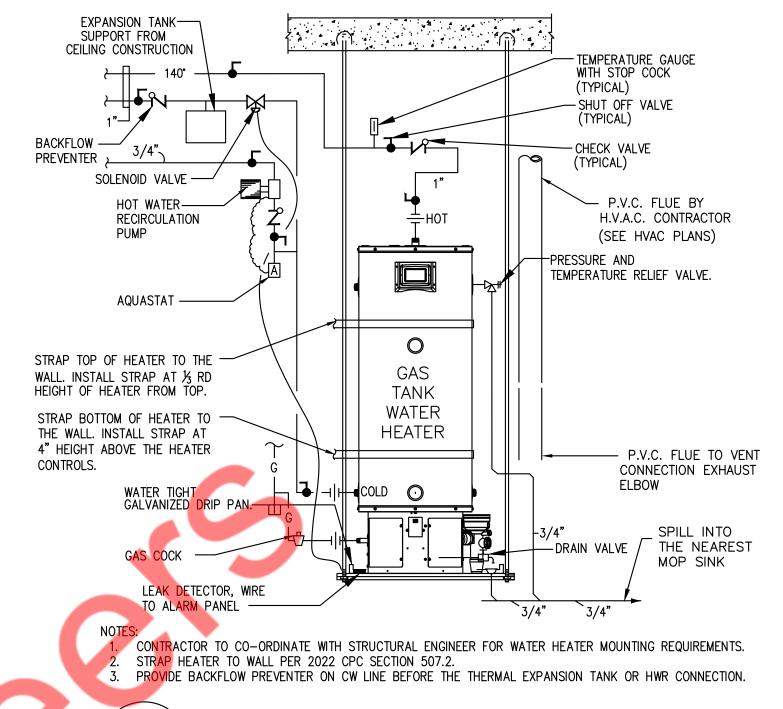


PRESSURE GAUGE

TYPICAL UNION-

(0-100 PSI)

GAUGE COCK-



\ HOT WATER HEATER INSTALLATION DETAIL

USED AS FLASHING

TO VENT-

SEE SPECIFICATIONS

FINISHED FLOOR

WATERPROOF MEMBRANE

NO-HUB CLAMP-

P-TRAP----

FLOOR DRAIN DETAIL

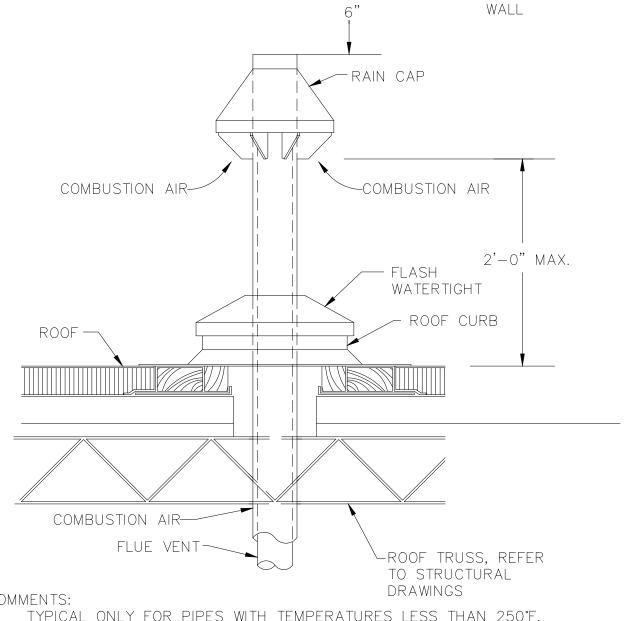
∕—AQUASTAT

- IN-LINE CIRCULATION

N.T.S

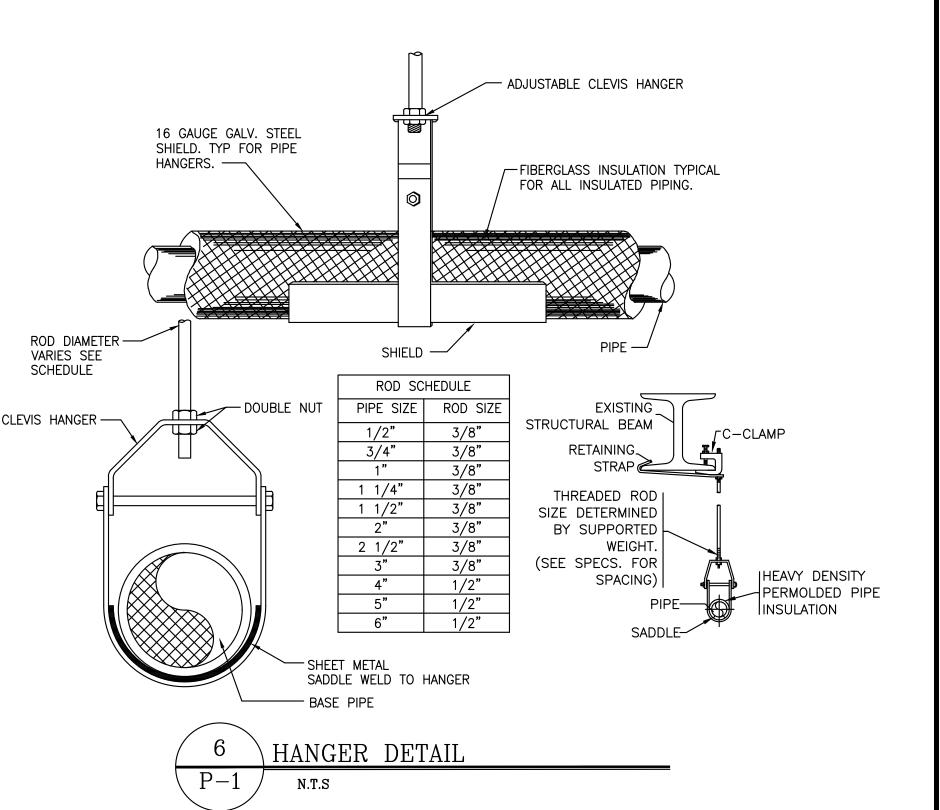
1/2" CW ————

TRAP PRIMER CONNECTION



TYPICAL ONLY FOR PIPES WITH TEMPERATURES LESS THAN 250°F. ROOF PENETRATION SHALL BE WEATHERPROOF. PITCH FLUE PIPING BACK TOWARDS UNIT. 4. THE FLUE VENT SHOULD BE 6" BELOW PARAPET.

FLUE VENT DETAIL N.T.S



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-EXISTING PARAPET

Sheet Issue & Revision Log 1 04-08-2024 PERMIT COMMENTS

<u></u>	07-02-2024 CLIENT CHANGES
<u>~</u>	
<u></u>	03-25-2025 SITE COORDINATION
\wedge	
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$\langle \rangle$	
It is the cl	ients responsibility prior to or during construction to notify the

architect in writing of any perceived errors or omissions in the plans and

specifications of which a contractor thoroughly knowledgeable with the building

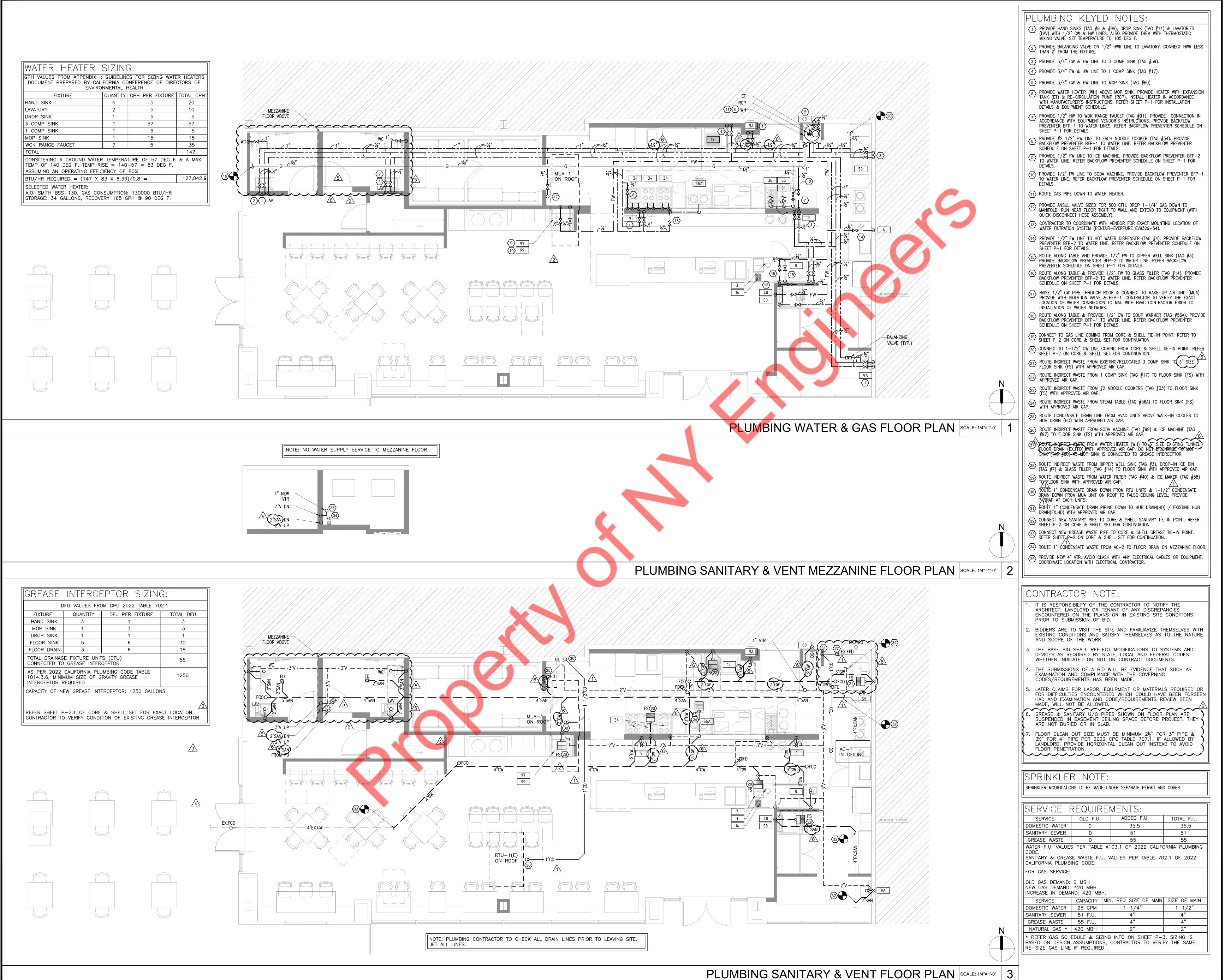
codes and methods of construction should reasonably be aware. Written

instructions addressing such perceived errors or omissions shall be received

the work. The client will be responsible for any defects in construction if these

PLUMBING LEGENDS, NOTES, DETAILS & SCHEDULES

P-1



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of looks & Davidian

nee	et Issue & Revision Log
	04-08-2024 PERMIT COMMENTS
	07-02-2024 CLIENT CHANGES
	07-17-2024 CLIENT CHANGES
	08-07-2024 CLIENT CHANGES
	08-16-2024 CLIENT CHANGES
	03-25-2025 SITE COORDINATION
_	
_	
<u> </u>	

It is the clients responsibility prior to or during construction to notify the architect in writing of any perceived errors or omissions in the plans and specifications of which a contractor thoroughly knowledgeable with the buildin

codes and methods of construction should reasonably be aware. Written instructions addressing such perceived errors or omissions shall be received

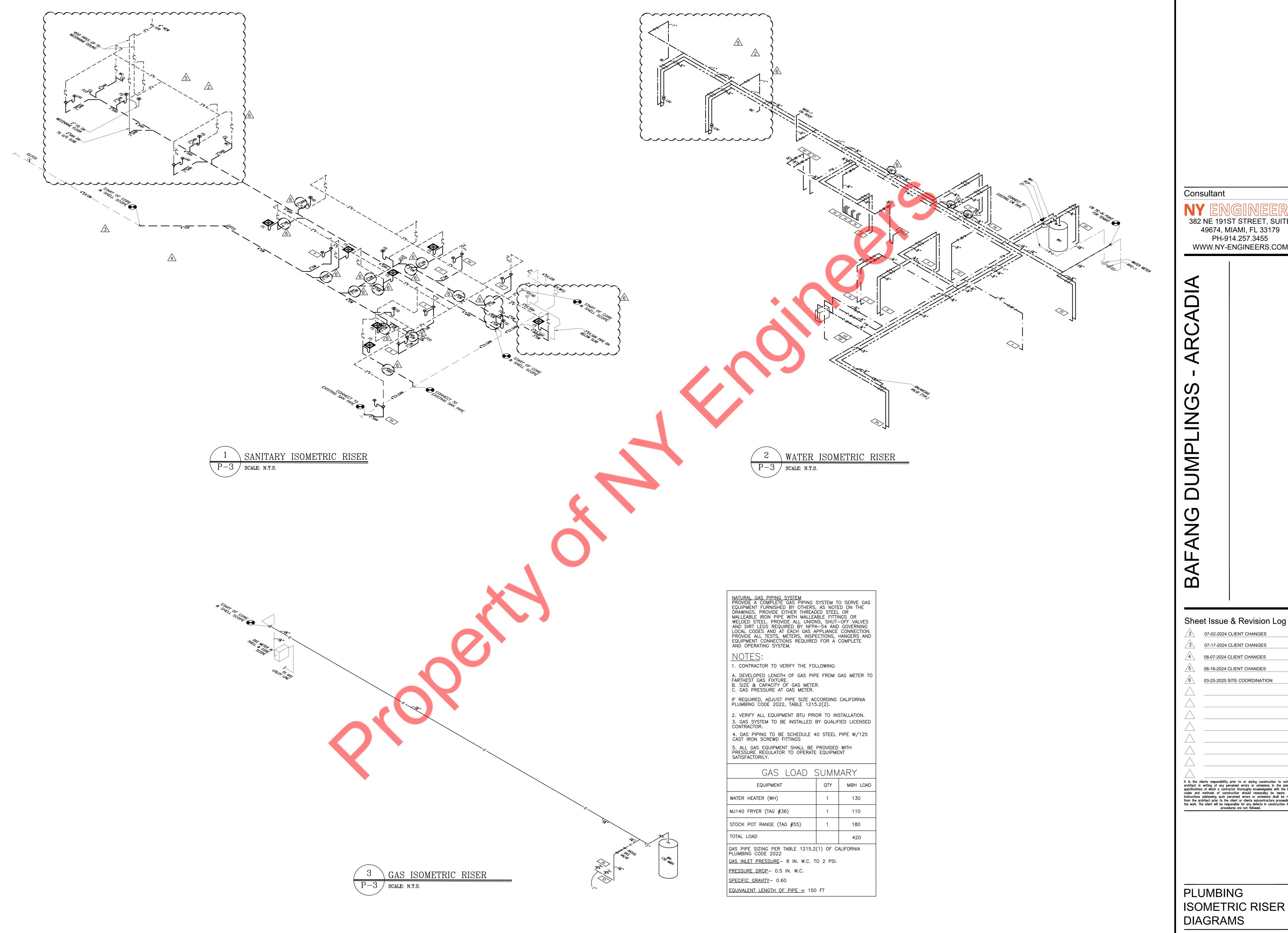
the work. The client will be responsible for any defects in construction if these

procedures are not followed.

PLUMBING FLOOR

PLANS

P-2



49674, MIAMI, FL 33179 PH-914.257.3455 WWW.NY-ENGINEERS.COM

2	07-02-2024 CLIENT CHANGES
<u></u>	07-17-2024 CLIENT CHANGES
4	08-07-2024 CLIENT CHANGES
5	08-16-2024 CLIENT CHANGES
<u></u>	03-25-2025 SITE COORDINATION

It is the clients responsibility prior to or during construction to notify the architect in writing of any perceived errors or omissions in the plans and specifications of which a contractor thoroughly knowledgeable with the building codes and methods of construction should reasonably be aware. Written instructions addressing such perceived errors or omissions shall be received from the architect prior to the client or clients subcontractors proceeding with the work. The client will be responsible for any defects in construction if these procedures are not followed.

PLUMBING ISOMETRIC RISER DIAGRAMS

P-3

	tem			C.F	ALIFORNIA ENERGY	
CERTIFICATE OF COMPLIANCE			110.1.110.2.120.2	·		NRCC-PLB-
This document is used to demonstrate co alterations, for domestic water heating s		•		•	•	
110.1, 110.3, 160.4 and 170.2(d), and wi			Thotaly moter occupantices comp	sharice is demonstr	ratea with regainer	meries in
Project Name: BAFANG DUMPLING		Report Pag	e:			(Page 1 of
Project Address:		Date Prepa	red:		2024-02-23	T02:10:53-22:0
A. GENERAL INFORMATION			,			
01 Project Location (city)	Cerritos	02	Climate Zone		8	
03 Occupancy Types Within Proje	ect (select all that apply):					
Restaurant						
3. PROJECT SCOPE						,
This table includes domestic water heatii	ng systems that are within the scope of	the permit application	and are demonstrating compli	ance using the pre	scriptive paths out	lined in 140./
70.2(d) and 141.0(a)/ 180.1, or 141.0(b)						
ydronic water heating systems are docu	mented on the NRCC-MCH compliance	document.				
01			02	03		
My project consists of (check all that apply):	Sys	tem Type ^{1,2}	System Components		
New system (DHW system being instead of the system) New system (DHW system) New system)	talled for the first time)	Individual System (se	erving nonresidential spaces)	□ Equipment	□ Distribution	
			☐ Equipment	☐ Distribution	☐ Contro	
☐ System Alteration (equipment, distri	a delicit of controlly					
	·	L serve nonresidential spo	ces, are considered individual :	systems.		I
FOOTNOTES: Point of use water heaters, Dwelling units refers to hotel/motel gue	or other non-central systems used to sest rooms and units in a multifamily res	sidential occupancy.		systems.		
FOOTNOTES: Point of use water heaters, Dwelling units refers to hotel/motel gue	or other non-central systems used to sest rooms and units in a multifamily res	sidential occupancy.		systems.		
FOOTNOTES: Point of use water heaters, Dwelling units refers to hotel/motel gue DHW systems serving 2 or more dwellin	or other non-central systems used to sest rooms and units in a multifamily res	sidential occupancy.		systems.		
FOOTNOTES: Point of use water heaters, Dwelling units refers to hotel/motel gue DHW systems serving 2 or more dwelling. C. COMPLIANCE RESULTS	or other non-central systems used to set rooms and units in a multifamily reset units are considered "Central System	sidential occupancy. ns" for multifamily occup	pancies		COMPLY! or !!COM	DI IEC with
FOOTNOTES: Point of use water heaters, Dwelling units refers to hotel/motel gue DHW systems serving 2 or more dwelling. C. COMPLIANCE RESULTS Table C will indicate if the project data in	or other non-central systems used to set rooms and units in a multifamily resignants are considered "Central System put into the compliance document is co	sidential occupancy. ns" for multifamily occup mompliant with water hea	pancies		COMPLY" or "COM	PLIES with
FOOTNOTES: Point of use water heaters, Dwelling units refers to hotel/motel gue DHW systems serving 2 or more dwelling. C. COMPLIANCE RESULTS Table C will indicate if the project data in	or other non-central systems used to set rooms and units in a multifamily resignants are considered "Central System put into the compliance document is co	sidential occupancy. ns" for multifamily occup mompliant with water hea	nancies ating requirements. If this table	e says "DOES NOT (COMPLY" or "COM	PLIES with
FOOTNOTES: Point of use water heaters, Dwelling units refers to hotel/motel gue DHW systems serving 2 or more dwelling. C. COMPLIANCE RESULTS Table C will indicate if the project data in exceptional Conditions" refer to Table D.	or other non-central systems used to set rooms and units in a multifamily resignants are considered "Central System put into the compliance document is control to the table indicated as not compliant 02	sidential occupancy. ns" for multifamily occup compliant with water hea t for guidance.	nancies ating requirements. If this table	e says "DOES NOT ()4	PLIES with
FOOTNOTES: Point of use water heaters, Dwelling units refers to hotel/motel gue DHW systems serving 2 or more dwelling. C. COMPLIANCE RESULTS Table C will indicate if the project data in exceptional Conditions" refer to Table D. 01 Domestic Hot Water Equipment	or other non-central systems used to set rooms and units in a multifamily resignants are considered "Central Systems used to see units are considered "Central Systems up to the compliance document is controlled to the compliance document is controlled to the table indicated as not compliant	ompliant with water hed to guidance.	nancies ating requirements. If this table arols	e says "DOES NOT (PLIES with
FOOTNOTES: Point of use water heaters, Dwelling units refers to hotel/motel gue DHW systems serving 2 or more dwelling. C. COMPLIANCE RESULTS Table C will indicate if the project data in exceptional Conditions" refer to Table D.	or other non-central systems used to set rooms and units in a multifamily resign units are considered "Central Systems used to set to units are considered "Central Systems used to set to units are compliance document is considered as not compliant used to units and units are considered as not compliant used used used to units and units are used to use use use used to use use used to use use used to use used to use use use used to use use use use used to use used to use	ompliant with water hed	nancies ating requirements. If this table rols e H	e says "DOES NOT (C Complian)4	PLIES with
FOOTNOTES: Point of use water heaters, Dwelling units refers to hotel/motel gue DHW systems serving 2 or more dwelling. C. COMPLIANCE RESULTS Table C will indicate if the project data in exceptional Conditions" refer to Table D. O1 Domestic Hot Water Equipment Table F	or other non-central systems used to set rooms and units in a multifamily resignation of the considered "Central Systems or the table indicated as not compliant of Distribution Systems Table G	ompliant with water hed to for guidance. One Table	nancies ating requirements. If this table rols e H	e says "DOES NOT (C Complian	04 ce Results	PLIES with
FOOTNOTES: Point of use water heaters, Dwelling units refers to hotel/motel gue DHW systems serving 2 or more dwelling. COMPLIANCE RESULTS able C will indicate if the project data in exceptional Conditions" refer to Table D. 01 Domestic Hot Water Equipment Table F	or other non-central systems used to set rooms and units in a multifamily resignation of the considered "Central Systems or the table indicated as not compliant of Distribution Systems Table G	ompliant with water hed to for guidance. One Table	nancies ating requirements. If this table rols e H	e says "DOES NOT (C Complian	04 ce Results	PLIES with

Report Version: 2022.0.000 Schema Version: rev 20220101

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance

Compliance ID: 117481-0623-0004 Report Generated: 2024-02-23 22:00:50

Report Page: Repo	ge 4 of 6) 53-22:00
DOMESTIC HOT WATER CONTROLS As table is used to demonstrate compliance with control requirements in 110.3 for all occupancies. For multifamily residential and hotel/motel occupancies, compliance is also remonstrated with requirements in 160.4(e) / 170.2(d). Yes No Not Applicable Construction documents require manufacturer certification that service water-heating systems are equipped with autom temperature controls capable of adjusting temperature settings per 110.3(a). Systems with capacity > 167,000 BTUH equipped with outlet temperature controls per 110.3(c)1 unless covered by Califor Plumbing Code 613.0. Controls for circulating pumps or electrical heat trace systems are capable of automatically turning off the system per \$110.3(c)2 unless systems servies healthcare facility. For recirculation systems serving multiple dwelling units, design includes automatic pump controls per 170.2(d) or 180.1(additions. For recirculation systems serving individual dwelling units, design includes manual on/off controls as specified in Reference Appendix RAA.4.9 per 170.2(d).	53-22:00
The stable is used to demonstrate compliance with control requirements in 110.3 for all occupancies. For multifamily residential and hotel/motel occupancies, compliance is also remonstrated with requirements in 160.4(e) / 170.2(d). Yes No Not Applicable Construction documents require manufacturer certification that service water-heating systems are equipped with automous temperature controls capable of adjusting temperature settings per 110.3(a). Systems with capacity > 167,000 BTUH equipped with outlet temperature controls per 110.3(c)1 unless covered by Califor Plumbing Code 613.0. Controls for circulating pumps or electrical heat trace systems are capable of automatically turning off the system per \$110.3(c)2 unless systems serves healthcare facility. For recirculation systems serving multiple dwelling units, design includes automatic pump controls per 170.2(d) or 180.1(a) additions. For recirculation systems serving individual dwelling units, design includes manual on/off controls as specified in Reference Appendix RA4.4.9 per 170.2(d).	
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Yes	
Yes No Applicable Requirement 01 □ □ Construction documents require manufacturer certification that service water-heating systems are equipped with autom temperature controls capable of adjusting temperature settings per 110.3(a). 02 □ □ Systems with capacity > 167,000 BTUH equipped with outlet temperature controls per 110.3(c)1 unless covered by Califor Plumbing Code 613.0. 03 □ □ Controls for circulating pumps or electrical heat trace systems are capable of automatically turning off the system per \$110.3(c)2 unless systems serves healthcare facility. 04 □ □ □ For recirculation systems serving multiple dwelling units, design includes automatic pump controls per 170.2(d) or 180.1(additions. 05 □ □ □ For recirculation systems serving individual dwelling units, design includes manual on/off controls as specified in Reference Appendix RA4.4.9 per 170.2(d).	
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Plumbing Code 613.0. Controls for circulating pumps or electrical heat trace systems are capable of automatically turning off the system per \$110.3(c)2 unless systems serves healthcare facility. For recirculation systems serving multiple dwelling units, design includes automatic pump controls per 170.2(d) or 180.1(additions. For recirculation systems serving individual dwelling units, design includes manual on/off controls as specified in Reference Appendix RA4.4.9 per 170.2(d).	atic
5110.3(c)2 unless systems serves healthcare facility. O4 □ □ □ ⊠ For recirculation systems serving multiple dwelling units, design includes automatic pump controls per 170.2(d) or 180.1(additions. For recirculation systems serving individual dwelling units, design includes manual on/off controls as specified in Reference Appendix RA4.4.9 per 170.2(d).	rnia
additions. For recirculation systems serving individual dwelling units, design includes manual on/off controls as specified in Reference Appendix RA4.4.9 per 170.2(d).	
Appendix RA4.4.9 per 170.2(d).	b)3 for
Complication air positive shut off shall be provided nor 160 4(3) on all powly installed commercial boilers as follows:	ce
Boilers with input capacity >= 2.5 MMBtu/h, in which the boiler is designed to operate with a nonpositive vent stap pressure Boilers where one stack serves two or more boilers with a total combined input capacity per stack of 2.5 MMBtu/h	
Boiler combustion air fans with motor >= 10 hp shall meet one of the following The fan motor shall be driven by a variable speed drive OR The fan motor shall include controls that limit the fan motor demand to <=30% of the total design wattage at 50% design air volume.	of the
Newly installed boilers with an input capacity {d:gte/] 5MMBtu/h and a steady state full-load combustion efficiency < 909 maintain excess (stack-gas) oxygen concentrations <= 5% by volume on a dry basis over firing rates of 20-100%. Combustivolume shall be controlled with respect to firing rate or flue gas oxygen concentration. Use of a common gas and combustion control linkage or jack shaft is prohibited.	ion air

state of cal Domest	_{FORNIA} ic Water Heatir	ng Systei	m					CALIFORNIA	ENERGY COMMISSION	
CERTIFICAT	OF COMPLIANCE								NRCC-PLB-E	
Project Nan	ne: BAFANG DUMPLING	G	,			Report Page: (Page 2 of				
Project Add	roject Address:					Date Prepared: 2024-02-23T02:10:53				
E. ADDITI	ONAL REMARKS									
	ncludes remarks mad	e by the per	rmit applicant	to the Authority	Having Jurisdicti	ion.				
F. DOMES	TIC HOT WATER EQ	UIPMENT								
	s used to demonstrate trated and with 141.0					110.1 and 110.3.	Compliance with presc	riptive requirements in 140.5(c)	/ 170.2(d) must also	
quipmen	Schedule: Water Hea	ating Efficie	ncy and Stan	dby Loss						
	03		04		C	05		06		
System Name	WH		to 140.5(c)/).2(d)3	Exceptions Do Not Apply		Gas Service Water Heating System >= 1MMBtu/h ¹	Capacity-weighted Average Efficiency %			
07	08	09		10	11	12	13	14	15	
Name or Item Tag	Equipment Type	Volume (gal)	Rated Input Capacity (Btu/h)	Max GPM/ First Hour Rating (FHR)	Rated Efficiency	Minimum Efficiency Required	Efficiency Unit	Designed Standby Loss	Maximum Standby Loss	
WH	Commercial Gas Storage Water Heater	34	130,000		0.96	0.8	TE	650	2,032.5	
¹ FOOTNOT average.	E: In systems >= 1MM	Btu/h with	multiple units	, gas water heate	ers with input ca	pacity > 100,000	Btu/h may meet 90% E	t requirements via an input cap	acity-weighted	
Nater Hea	ting Equipment All O	ccupancies								
	Yes	No	Not Applicable	Requirement						
18	\boxtimes			Unfired storage	tank insulation s	shall have Interna	l + External >=R-16 OR	External >=R-3.5. Label required	d per 110.3(c)3	
19			⊠	New state buildi	ngs 60% of ener	gy for service wa	ter heating from site so	olar energy or recovered energy	per 110.3(c)5	
20				Isolation valves	for instantaneou	ıs water heater w	ith input rating >6.8 kB	BTUH or 2 kW has been specified	d per 110.3(c)6	
21			×	_			install a heat pump wa ny be an instantaneous	ater heating system per 140.5(a electric water heater.)1. Water heating	
					Genera	ated Date/Time:		Documentation So	ftware: Energy Code Ace	
CA Building	g Energy Efficiency Stand	lards - 2022 I	Nonresidential	Compliance	•	t Version: 2022.0.00 na Version: rev 2022			te ID: 117481-0623-0004 ed: 2024-02-23 22:00:50	

Domestic Water Heating System		CALIFORNIA ENERGY COMMISSI
CERTIFICATE OF COMPLIANCE		NRCC-PL
Project Name: BAFANG DUMPLING	Report Page:	(Page 5 o
roject Address:	Date Prepared:	2024-02-23T02:10:53- <mark>22</mark>
. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION Selections have been made based on information provided in this docume		, an explanation should be included in Table E.
Additional Remarks. These documents must be provided to the building in	Form/Title	
NRCI-PLB-E - Must be submitted for all buildings	· ·	
DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE		<u> </u>
here are no forms required for this project.		
. DECLARATION OF REQUIRED CERTIFICATES OF VERIFICATION		
here are no forms required for this project.		

	E OF COMPLIA	ANCE						NRCC-PLB-	
roject Nar	me: BAFAN	G DUMPLING			Report P	age:		(Page 3 of 6	
Project Add	dress:				Date Pre	Date Prepared:		2024-02-23T02:10:53-22:00	
			UTION SYSTEM Iliance for nonreside	ential occupancies with	distribution require	ments in 120.3 and	d 140.5. For multifamily and h	notel/motel occupancies,	
			rements 110.3(c), 1	60.4, 170.2(d).					
/landator	y Pipe Insula	tion All Occupa							
13		Piping penetr Insulat Piping Insulat Piping Insulat Piping	that penetrates frar ates metal framing s ion shall abut secur installed in interior ion Installation (QII)	ning members shall not shall use grommets, plu ely against all framing n or exterior walls shall n as specified in the Refe	be required to have gs, wrapping or oth nembers ot be required to he erence Residential A	e pipe insulation for ner insulating mate ave pipe insulation Appendix RA3.5.	if all of the requirements are		
14	×	Recircu The first	ulating system piping st 8 ft of hot and co	al spaces, pipe insulatio g, including supply and Id outlet piping, includir	return piping of the	water heater		20.3-A (see below) per 120.3:	
			hat are externally h						
15		Insulation sha be installed w	II be protected from	n damage, including tha	t due to sunlight, n	noisture, equipmen		sulation exposed to weather shall	
15	⊠	Insulation sha be installed w	II be protected from	n damage, including tha	t due to sunlight, n 120.3(b) / 160.4(f)	noisture, equipmen . Pipe insulation bu	nt maintenance, and wind. Insuried below grade must be ins	sulation exposed to weather shall	
15	⊠	Insulation sha be installed w non-crushable	Il be protected from ith a cover suitable e casing or sleeve.	n damage, including tha for outdoor service per	t due to sunlight, n 120.3(b) / 160.4(f)	noisture, equipmen . Pipe insulation bu	nt maintenance, and wind. Insuried below grade must be ins	sulation exposed to weather shall stalled in a water proof and	
	mperature Ra	Insulation shabe installed with non-crushable Coruspe (°F)	Il be protected from ith a cover suitable e casing or sleeve.	n damage, including tha for outdoor service per	t due to sunlight, n 120.3(b) / 160.4(f)	noisture, equipmen . Pipe insulation bu	nt maintenance, and wind. Insuried below grade must be ins	sulation exposed to weather shall stalled in a water proof and	
		Insulation shabe installed wonon-crushable Cornge (°F)	Ill be protected from ith a cover suitable e casing or sleeve. Inductivity ge (Btu-in Insulat	n damage, including tha for outdoor service per TABLE 120.3-A / 1 ion Mean Rating Temp	t due to sunlight, n 120.3(b) / 160.4(f)	noisture, equipmen . Pipe insulation bu ILATION THICKNE 1 to < 1.5	at maintenance, and wind. Insuried below grade must be insuried. ESS Nominal Pipe Diameter (in)	sulation exposed to weather shall stalled in a water proof and 1.5 to < 4 Multifamily & Hotel/Motel	
		Insulation shabe installed wonon-crushable Coruspinge (°F)	Il be protected from ith a cover suitable e casing or sleeve. Inductivity ge (Btu-in nour per ft²	n damage, including tha for outdoor service per TABLE 120.3-A / 1 ion Mean Rating Temp	t due to sunlight, n 120.3(b) / 160.4(f) .60.4-A PIPE INSU	noisture, equipmen . Pipe insulation bu ILATION THICKNE 1 to < 1.5	at maintenance, and wind. Instructed below grade must be installed. ESS Nominal Pipe Diameter (in) 1.5 to < 4	sulation exposed to weather shall stalled in a water proof and 1.5 to < 4 Multifamily & Hotel/Motel	
	mperature Ra	Insulation shabe installed wonon-crushable Coruspinge (°F)	Ill be protected from ith a cover suitable e casing or sleeve. Inductivity ge (Btu-in nour per ft² per °F)	n damage, including tha for outdoor service per TABLE 120.3-A / 1 ion Mean Rating Temp °F)	t due to sunlight, n 120.3(b) / 160.4(f) .60.4-A PIPE INSU	noisture, equipmen . Pipe insulation bu JLATION THICKNE 1 to < 1.5	at maintenance, and wind. Instrict maintenance, and wind. Instrict maintenance, and wind. Instrict maintenance, and wind. Instrict maintenance, and wind maintenance, and wind. Instruction maintenance, and wind. I	sulation exposed to weather shall stalled in a water proof and 1.5 to < 4 Multifamily & Hotel/Motel	
	mperature Ra	Insulation shabe installed wonon-crushable Coruspinge (°F)	Ill be protected from ith a cover suitable e casing or sleeve. Inductivity ge (Btu-in nour per ft² per °F)	n damage, including tha for outdoor service per TABLE 120.3-A / 1 ion Mean Rating Temp °F)	t due to sunlight, n 120.3(b) / 160.4(f) .60.4-A PIPE INSU	noisture, equipmen . Pipe insulation bu ILATION THICKNE 1 to < 1.5 1.5 in or R-12.5	et maintenance, and wind. Instried below grade must be instried. ESS Nominal Pipe Diameter (in) 1.5 to < 4 Minimum Insulation Required 1.5 in or R-11	sulation exposed to weather shall stalled in a water proof and 1.5 to < 4 Multifamily & Hotel/Motel	

CERTIFICATE OF COMPLIANCE		NRCC-PLB-I
Project Name: BAFANG DUMPLING	Report Page:	(Page 6 of 6
Project Address:	Date Prepared:	2024-02-23T02:10:53-22:00
OOCUMENTATION AUTHOR'S DECLARATION STATEMENT certify that this Certificate of Compliance documentation is accurat	te and complete.	
Oocumentation Author Name:	Documentation Author Signature:	
Company: NY ENGINEERS	Signature Date: 2024-02-23	
ddress: 382 NE 191st ST, Suite 49674	CEA/ HERS Certification Identification (if applicable	e):
ity/State/Zip:Miami, Florida 33179	Phone:	
plans and specifications submitted to the enforcement agency for approval with this I will ensure that a completed signed copy of this Certificate of Compliance shall be inspections. I understand that a completed signed copy of this Certificate of Compliance sponsible Designer Name: MICHAEL TOBIAS	made available with the building permit(s) issued for the building, and	
ompany: Y ENGINEERS	Date Signed: 2024-02-23	
ddress: 382 NE 191st ST, Suite 49674	License: M33750	
ity/State/Zip:Miami, Florida 33179	Phone: 212-575-5300	
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		Documentation Software: Energy Code Ace

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WWW.NY-ENGINEERS.C

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Sheet Issue & Revision Log			
2	07-02-2024 CLIENT CHANGES		

is the clients responsibility prior to or during construction to notify chitect in writing of any perceived errors or omissions in the plans ecifications of which a contractor thoroughly knowledgeable with the buildes and methods of construction should reasonably be aware. We structions addressing such perceived errors or omissions shall be recome the architect prior to the client or clients subcontractors proceeding to work. The client will be responsible for any defects in construction if the procedures are not followed.	and ilding itter eived with

ENERGY COMPLIANCE