

CAL-GREEN NOTES

- ALL DUCT AND OTHER RELATED AIR DISTRIBUTION COMPONENT OPENINGS SHALL BE COVERED WITH TAPE, PLASTIC, OR SHEET METAL UNTIL THE FINAL STARTUP OF THE HVAC EQUIPMENT (CGGSC 5.504.3).
- IF THE NEW HVAC SYSTEM IS USED DURING CONSTRUCTION, USE RETURN AIR FILTERS WITH A MERV 8 RATING. REPLACE ALL FILTERS IMMEDIATELY PRIOR TO OCCUPANCY (CGBSC 5.504.1).
- THE HVAC, REFRIGERATION, AND FIRE SUPPRESSION EQUIPMENT SHALL NOT CONTAIN CFCs OR HALONS (CGBSC 5.508.1).
- A FINAL REPORT FOR THE TESTING AND ADJUSTING OF ALL NEW SYSTEMS SHALL BE COMPLETED PRIOR TO FINAL APPROVAL BY THE FIELD INSPECTOR. THIS REPORT SHALL BE SIGNED BY THE INDIVIDUAL RESPONSIBLE FOR PERFORMING THESE SERVICES (CGBSC 5.410.4.4).
- AN OPERATION & SYSTEMS MANUAL SHALL BE PROVIDED TO THE OWNER OR REPRESENTATIVE AND TO THE FIELD INSPECTOR AT THE TIME OF FINAL INSPECTION (CGBSC 5.410.4.5).

APPLICABLE CODES & STANDARDS

- 2019 CALIFORNIA BUILDING CODE WITH STATEWIDE AMENDMENTS
- 2019 CALIFORNIA MECHANICAL CODE WITH STATEWIDE AMENDMENTS
- 2019 CALIFORNIA PLUMBING CODE WITH STATEWIDE AMENDMENTS
- 2019 CALIFORNIA ENERGY CONSERVATION CODE
- 2019 CALIFORNIA GREEN BUILDING STANDARDS
- ICC/ANSI A117.1-09, ACCESSIBLE AND USABLE BUILDINGS AND FACILITIES, WITH STATEWIDE AMENDMENTS.
- NFPA 90

HVAC ABBREVIATIONS

AAV	AUTOMATIC AIR VENT ABOVE	KW	KILOWATT
ABV	ACCESS PANEL		
AP	AIR CONDITIONING	LB	POUND
AC	ABOVE FINISHED FLOOR	LRA	LOCKED ROTOR AMPERES
AFF	APPROXIMATELY	LVG	LEAVING
ARCH	ARCHITECTURAL		
AS	AIR SEPARATOR	MAX	MAXIMUM
@	AT	MCC	MOTOR CONTROL CENTER
&	AND	MD	MOTORIZED DAMPER
AUTO	AUTOMATIC	MECH	MECHANICAL
		MFR	MANUFACTURER
B	BOILER	MIN	MINIMUM
BDD	BACKDRAFT DAMPER	MISC	MISCELLANEOUS
BEL	BELOW	MTD	MOUNTED
BRD	BAROMETRIC RELIEF DAMPER	MTG	MOUNTING
BFF	BELOW FINISHED FLOOR	MVD	MANUALLY OPERATED VOLUME DAMPER
BFV	BUTTERFLY VALVE		
BHP	BRAKE HORSEPOWER	NC	NORMALLY CLOSED
BLDG	BUILDING	NO	NORMALLY OPEN
BOF	BOTTOM OF PIPE	NTS	NOT TO SCALE
BTUH	BRITISH THERMAL UNITS PER HOUR		
		OA / OSA	OUTSIDE AIR
CA	COMBUSTION AIR		
CFM	CUBIC FEET PER MINUTE	PD	PRESSURE DROP
CH	CHILLER	POC	POINT OF CONNECTION
CHP	CHILLED WATER PUMP	POD	POINT OF DISCONNECT
COP	COEFFICIENT OF PERFORMANCE	POS	POSITIVE
CONC	CONCRETE	PRESS	PRESSURE
CONN	CONNECTION	PSI	POUNDS PER SQUARE INCH
CONT	CONTINUATION		
CPF	CHEMICAL POT FEEDER	RA	RETURN AIR
CT	COOLING TOWER	REF	REFERENCE
CTF	COOLING TOWER FILTER	REL	RELIEF
CWP	CONDENSER WATER PUMP	RELA	RELIEF AIR
CWR	CONDENSER WATER RETURN	REQD/REQD	REQUIRED
CWS	CONDENSER WATER SUPPLY	RET	RETURN
		RH	RIGHT HAND
DB	DRY BULB (TEMPERATURE)	RLA	RATED LOAD AMPERES
DDC	DIRECT DIGITAL CONTROL	RM	ROOM
DET	DETAIL	RPM	REVOLUTIONS PER MINUTE
DIA	DIAMETER		
DN	DOWN	SA	SUPPLY AIR
DN	DOWN	SCBA	SELF CONTAINED BREATHING APPARATUS
DIF	DUCT/DOWN THRU FLOOR		
DTR	DUCT/DOWN THRU ROOF		
DWG	DRAWING	SCHR	SECONDARY CHILLED WATER
(E)	EXISTING	SCHS	RETURN SECONDARY CHILLED WATER
EA	EACH / EXHAUST AIR		
EAG	EXHAUST AIR GRILLE		
EAR	EXHAUST AIR REGISTER		
EER	ENERGY EFFICIENCY RATIO		
EF	EXHAUST FAN	SECT	SUPPLY SECTION
EL	ELEVATION	SEER	SEASONAL ENERGY EFFICIENCY
ENT	ENTERING	RATIO	
EQUIP	EQUIPMENT	SHT	SHEET
ET	EXPANSION TANK	SMS	SHEET METAL SCREW
		SOV	SHUT-OFF VALVE
		SP	STATIC PRESSURE
*F	DEGREES FAHRENHEIT	SPEC	SPECIFICATION
FD	FIRE DAMPER	SQ	SQUARE
FIN	FINISHED	SS	STAINLESS STEEL
FLEX	FLEXIBLE	STD	STANDARD
FLR	FLOOR	STRUCT	STRUCTURAL
FPM	FEET PER MINUTE	SW	SWITCH
FSD	FIRE SMOKE DAMPER		
FS	FLOOR SINK	TEFC	TOTALLY ENCLOSED FAN COOLED
FT	FOOT / FEET	TEMP	TEMPERATURE
FV	FACE VELOCITY	TOS	TOP OF STEEL
		TYP	TYPICAL
GA	GAUGE		
GAL	GALLON	UON	UNLESS OTHERWISE NOTED
GALV	GALVANIZED	UTR	UP THROUGH ROOF
GPM	GALLONS PER MINUTE		
		V	VENT
HGT	HEIGHT	VFD	VARIABLE FREQUENCY DRIVE
HORIZ	HORIZONTAL	VERT	VERTICAL
HP	HORSEPOWER		
HR	HOUR		
HVAC	HEATING, VENTILATING AND AIR	W/	WITH
		WB	WET BULB (TEMPERATURE)
		WT	WEIGHT
		WMS	WIRE MESH SCREEN
HZ	HERTZ	1F	FIRST FLOOR
		2F	SECOND FLOOR
		3F	THIRD FLOOR (ETC)
ID	INSIDE DIAMETER		
IEER	INTEGRATED ENERGY EFFICIENCY		
RATIO			
IN	INCH / INCHES		
IN WG	INCHES WATER GAUGE		

HVAC NOTES

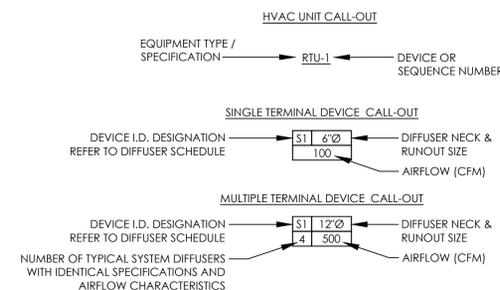
GENERAL NOTES

- ALL NOTES, INSTRUCTIONS, DIRECTIVES AND REQUIREMENTS NOTED IN THESE DRAWINGS ARE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR. IN THE ABSENCE OF A GENERAL CONTRACTOR ASSOCIATED WITH THE PROJECT, SAID NOTES, INSTRUCTIONS, DIRECTIVES AND REQUIREMENTS SHALL BECOME THE RESPONSIBILITY OF THE MECHANICAL CONTRACTOR.
- ALL EQUIPMENT, DEVICES AND DUCTWORK SHOWING ON THESE DRAWINGS ARE NEW UNLESS SPECIFICALLY CALLED OUT AS EXISTING (E) TO REMAIN.
- MECHANICAL EQUIPMENT AND INSTALLATIONS SHALL CONFORM WITH THE REQUIREMENTS OF THE CODES AS NOTED IN THE "APPLICABLE CODES" SECTION NOTED EITHER ON THESE DRAWINGS, OR ON THE ARCHITECTURAL DRAWINGS OR ON THE PROJECT COVER SHEET.
- PRIOR TO SUBMITTING BID, PURCHASING MATERIALS OR STARTING WORK, FIELD VERIFY EXISTING CONDITIONS, DUCTWORK SIZES AND LOCATIONS, EQUIPMENT, ETC. SHOWN ON THE DRAWINGS OR AFFECTING THIS WORK AND REPORT DEVIATIONS TO THE ARCHITECT.
- SHOP DRAWINGS SHALL BE SUBMITTED TO AND APPROVED BY THE ARCHITECT PRIOR TO ORDERING, PURCHASING, OR FABRICATING ANY MECHANICAL EQUIPMENT. SHOP DRAWINGS SHALL INCLUDE: EQUIPMENT SCHEDULED, SHOWN OR SPECIFIED ON THE DRAWINGS; DUCTWORK DRAWN TO 1/4" SCALE MINIMUM. REFRIGERANT PIPING AND CONTROL WIRING SCHEMATICS CERTIFIED BY THE AIR CONDITIONING EQUIPMENT MANUFACTURER. FAILURE TO SUBMIT REFRIGERANT PIPING DRAWINGS SHALL BE CAUSE FOR REJECTION OF THE ENTIRE SUBMITTAL. LONG LINE REFRIGERANT PIPING APPLICATIONS SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S CURRENT SPLIT SYSTEM LONG-LINE APPLICATION GUIDELINE.
- MECHANICAL EQUIPMENT SHALL BE INSTALLED ACCORDING TO MANUFACTURER'S RECOMMENDATIONS.
- MECHANICAL EQUIPMENT AND SYSTEMS SHALL BE GUARANTEED FOR A PERIOD OF ONE YEAR AFTER ACCEPTANCE BY OWNER.
- HVAC COMPRESSORS SHALL HAVE EXTENDED 4-YEAR MANUFACTURER'S WARRANTY FOR A 5-YEAR TOTAL WARRANTY.
- UNLESS OTHERWISE NOTED, EXISTING EQUIPMENT, DUCTWORK, DIFFUSERS, ETC. SHOWN AS BEING REMOVED AS PART OF THIS CONTRACT SHALL BECOME THE PROPERTY OF THE HVAC CONTRACTOR AND SHALL BE REMOVED FROM THE PROJECT SITE PRIOR TO PROJECT COMPLETION.
- WORK SHALL BE COORDINATED AND PERFORMED WITH PRIOR APPROVAL FROM THE OWNER TO SUIT HIS OPERATING CONDITIONS.
 - EXISTING WALL, FLOOR, OR CEILING SURFACES DISTURBED OR DAMAGED DURING THE COURSE OF THE HVAC WORK SHALL BE REPAIRED TO MATCH NEW AND/OR EXISTING CONDITIONS.
 - ROOF PENETRATIONS/REPAIR TO BE CONTRACTED THRU LANDLORD APPROVED ROOFER TO MAINTAIN WARRANTY.
- AFTER CONSTRUCTION, THE ENTIRE HVAC SYSTEM SHALL BE TESTED, ADJUSTED, AND BALANCED TO DELIVER THE AIR QUANTITIES SHOWN ON THE DRAWINGS. SUBMIT CERTIFIED (AABC, NEBB OR TABB) TEST AND BALANCE REPORT TO THE ARCHITECT FOR APPROVAL.
- COORDINATE THE INSTALLATION OF MECHANICAL EQUIPMENT, DUCTWORK, PIPING, ETC. TO FIT WITHIN THE SPACE ALLOWED BY THE ARCHITECTURAL AND STRUCTURAL CONDITIONS, CUTTING OR OTHERWISE ALTERING ANY STRUCTURAL MEMBERS SHALL NOT BE PERMITTED WITHOUT WRITTEN PERMISSION FROM THE STRUCTURAL ENGINEER.
- MECHANICAL EQUIPMENT SHALL BE LABELED WITH A SEMI-RIGID PLASTIC LAMINATE NAMEPLATE WITH 2" HIGH WHITE LETTERS ON A BLACK BACKGROUND SECURELY AFFIXED TO THE EQUIPMENT. THE NAMEPLATE SHALL SHOW THE EQUIPMENT TAG USED ON THESE DRAWINGS.
- THE LOCATIONS, ARRANGEMENT AND EXTENT OF EQUIPMENT, DEVICES, CONDUIT AND OTHER APPURTENANCES RELATED TO THE INSTALLATION OF THE ELECTRICAL WORK SHOWN ON DRAWINGS ARE APPROXIMATE. THE CONTRACTOR SHALL NOT SCALE DRAWINGS, BUT SHALL REFER TO THE ARCHITECTURAL DRAWINGS FOR EXACT DIMENSIONS OF BUILDING COMPONENTS. SHOULD A CONFLICT EXIST BETWEEN THE ARCHITECTURAL AND ENGINEERING DRAWINGS REGARDING DIMENSIONS AND SCALE, NOTIFY THE ARCHITECT OF THE DISCREPANCY.
- MATERIALS, EQUIPMENT OR LABOR NOT INDICATED BUT WHICH CAN BE REASONABLY INFERRED TO BE NECESSARY FOR A COMPLETE INSTALLATION SHALL BE PROVIDED. DRAWINGS AND SPECIFICATIONS DO NOT UNDERTAKE TO INDICATE EVERY ITEM OF MATERIAL, EQUIPMENT OR LABOR REQUIRED TO PRODUCE A COMPLETE AND PROPERLY OPERATING INSTALLATION.
- THE DRAWINGS ARE DIAGRAMMATIC AND DO NOT NECESSARILY DEPICT EXACT CONDITIONS. THE LOCATION OF EQUIPMENT, DUCTWORK, ETC. IS APPROXIMATE ONLY. THE DRAWINGS ARE SCHEMATIC IN NATURE AND ARE NOT TO BE SCALED. SCALES ARE SHOWN FOR REFERENCE AND APPROXIMATION ONLY. REFER TO THE ARCHITECTURAL DRAWINGS FOR DIMENSIONAL DATA OF BUILDING COMPONENTS.
- PROVIDE AND INSTALL ROOM SENSORS, MOUNT AT 60" AFF.

MECHANICAL/ELECTRICAL COORDINATION:

- COORDINATE ELECTRICAL CHARACTERISTICS AND REQUIREMENTS OF MECHANICAL EQUIPMENT WITH ELECTRICAL DRAWINGS PRIOR TO ORDERING EQUIPMENT OR SUBMITTING SHOP DRAWINGS. FURNISH EQUIPMENT WIRED FOR THE VOLTAGES SHOWN THEREIN. SHOP DRAWING SUBMITTALS SHALL CLEARLY STATE THAT THE ELECTRICAL CHARACTERISTICS OF ALL EQUIPMENT HAS BEEN COORDINATED WITH THE ELECTRICAL CONTRACT DOCUMENTS AND THE ELECTRICAL CONTRACTOR.
- MECHANICAL EQUIPMENT REQUIRING ELECTRICAL POWER SHALL BE INSTALLED WITH DISCONNECT SWITCHES AT EACH PIECE OF EQUIPMENT. COORDINATE SWITCH TYPE (FUSED OR NON-FUSED) WITH EQUIPMENT CHARACTERISTICS, MANUFACTURER'S RECOMMENDATIONS AND THE ELECTRICAL DRAWINGS.
- REQUIRED CONTROL WIRING (INCLUDING POWER WIRING REQUIRED FOR CONTROL PANELS, DEVICES, ETC.) NOT SHOWN ON THE ELECTRICAL DRAWINGS SHALL BE INCLUDED AS PART OF THE MECHANICAL WORK. WIRING IN HVAC PLENUM SPACES SHALL BE INSTALLED ACCORDING TO CODE REQUIREMENTS.
- UNLESS NOTED OTHERWISE, TRANSFORMERS, CONTROLS AND CONTROL WIRING REQUIRED FOR ALL MECHANICAL SYSTEMS SHALL BE FURNISHED WITH THE EQUIPMENT IT SERVES AND INSTALLED PER MANUFACTURER'S REQUIREMENTS AND SPECIFICATIONS. MOTOR STARTERS FOR HVAC EQUIPMENT SHALL BE FURNISHED WITH THE MOTOR OR APPARATUS WHICH IT OPERATES AND SIZED PER THE MANUFACTURER'S RECOMMENDATIONS. IF MOTOR STARTERS ARE NOT AVAILABLE WITH EQUIPMENT PURCHASED, STARTERS TO BE SIZED PER CURRENT EDITION OF NEC AND INSTALLED PER MANUFACTURER'S RECOMMENDATION.

EQUIPMENT CALLOUTS



HVAC LEGEND

SYMBOL	DESCRIPTION
	EQUIPMENT TO REMAIN
	EQUIPMENT TO BE DEMOLISHED
	NEW EQUIPMENT
	PIPE, DUCT TO REMAIN
	PIPE, DUCT TO BE DEMOLISHED
	NEW PIPE, DUCT
	ACOUSTICAL LINING
	DUCT RISER OR DROP (SA)
	DUCT RISER OR DROP (RA)
	DUCT RISER OR DROP (EA)
	DUCT TRANSITION
	CEILING DIFFUSER, 4 WAY THROW
	CEILING DIFFUSER, 2 WAY THROW
	CEILING DIFFUSER, ROUND
	RETURN AIR GRILLE/REGISTER
	CEILING EXHAUST AIR GRILLE/REGISTER
	SIDE WALL SUPPLY REGISTER
	SIDE WALL RETURN REGISTER
	SIDE WALL EXHAUST REGISTER
	ROOM THERMOSTAT
	HUMIDISTAT
	BY-PASS CONTROLLER
	CO2 SENSOR
	TEMPERATURE SENSOR
	HUMIDITY SENSOR
	SWITCH
	DUCT SMOKE DETECTOR
	DOOR LOUVER
	UNDERCUT DOOR
	AUTOMATIC FIRE/SMOKE DAMPER
	MANUAL VOLUME DAMPER
	AUTOMATIC FIRE DAMPER
	MOTORIZED DAMPER
	BACKDRAFT DAMPER
	REFRIGERANT LIQUID LINE
	REFRIGERANT SUCTION LINE
	CHILLED WATER SUPPLY PIPING
	CHILLED WATER RETURN PIPING
	CONDENSER WATER SUPPLY PIPING
	CONDENSER WATER RETURN PIPING
	HEATING HOT WATER SUPPLY PIPING
	HEATING HOT WATER RETURN PIPING
	COOLING COIL CONDENSATE OR EQUIPMENT DRAIN PIPING
	POINT OF CONNECTION
	POINT OF DISCONNECTION

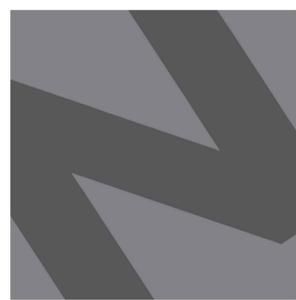
REGULATORY NOTES

FIRE RESISTIVE BUILDING MATERIALS

- INSULATION MATERIALS INSTALLED IN BUILDINGS OF ANY TYPE OF CONSTRUCTION, SHALL HAVE A FLAME-SPREAD RATING OF NOT MORE THAN 25 AND A SMOKE-DEVELOPED INDEX OF NOT MORE THAN 50 IN ACCORDANCE WITH APPLICABLE CODES LISTED ON THIS SHEET OR ON THE PROJECT COVER SHEET.
- INSULATION, INSULATION JACKET, ADHESIVES, TAPES, ETC. SHALL BE APPLIED PER MANUFACTURER'S WRITTEN INSTALLATION INSTRUCTIONS.

SCOPE OF WORK

- PROVIDE HVAC SYSTEMS WITH FRESH AIR VENTILATION CAPABILITIES FOR 6-STORY RESIDENTIAL BUILDING.
- PROVIDE AND INSTALL ALL REQUIRED HVAC EQUIPMENT, ANCHORAGE AND ASSOCIATED MATERIALS.



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CLIENT:

**JAIME PARTNERS
OF CALIFORNIA, INC.**

1050 S. FLOWER STREET
LOS ANGELES, CA 90015

PROJECT:

2853 WEST BLVD

LOS ANGELES, CA 90016

C-JAIME-001

#	DESCRIPTION	DATE
	1ST SUBMITTAL	10/04/21
	UTILITY COORDINATION	04/08/22
△	PC RESUBMITTAL	05/18/22
△	PC RESUBMITTAL	10/28/22
△	HCD REVISION 1	12/16/22
△	PC RESUBMITTAL	02/02/23
△	HCD & PC RESUBMITTAL	06/06/23
△	HCD RESUBMITTAL	06/14/23
△	PC RESUBMITTAL	07/10/23
△	PC RESUBMITTAL	02/27/24

Plot Date: 3/5/2024 2:01:20 PM

SHEET TITLE:

**MECHANICAL
GENERAL
INFORMATION**

SHEET NO:

M001

MODULAR PERMANENT SUPPORTIVE HOUSING PROJECT 2853 WEST BLVD. LOS ANGELES, CA 90013							
SCOPE OF REVIEW				REVIEWER:			
LOCAL AUTHORITY HAVING JURISDICTION (LAHJ)				CITY OF LOS ANGELES DEPT. OF BUILDING & SAFETY (LADBS)			
STATE OF CALIFORNIA HOUSING & COMMUNITY DEVELOPMENT (HCD) DESIGN APPROVAL AGENCY				NTA			
LOCAL FIRE DEPARTMENT				CITY OF LOS ANGELES FIRE DEPARTMENT (LAFD)			
SCOPE SECTION/DESCRIPTION	PLAN REVIEW			INSPECTION			APPLICABLE CODES
	HCD	LAHJ	LAFD	HCD	LAHJ	LAFD	
Plumbing							2019 CALIFORNIA MECHANICAL CODE
LEVEL 01: HVAC FOR COMMON AREAS AND RESTROOM EXHAUST		X			X		
LEVELS 02-06: HVAC SYSTEMS FOR LIVING SPACE AND RESTROOM EXHAUST FOR RESIDENTIAL UNITS		X			X		
LEVELS 02-06: RESIDENTIAL UNITS (MODULAR)	X			X			

SCHEDULES

PACKAGED HEAT PUMP SCHEDULE

UNIT NO.	MAKE	MODEL	AREA SERVING	COOLING CAPACITY (MBH)	HEATING CAPACITY (MBH)	REFRIGERANT	CFM	OSA CFM	WEIGHT (LBS.)	ELECTRICAL DATA			MOTOR HP (WATTS)	EFFICIENCY RATINGS		ACCESSORIES
										VOLTAGE	MCA	MOCP		EER (SEER)	HSPF (COP)	
HPAC-1	GE	AZ6SH12DAD	RESIDENTIAL UNITS	11.8	10.4	R-410A	449 - 300	20	91	208/1160	15	15	[2430W]	11.5	[3.5]	SEE BELOW

NOTES:
 1. REFER TO MANUFACTURER'S GUIDELINES FOR CONTROLS AND SEQUENCE OF OPERATION.
 2. INCLUDES FACTORY CLEANABLE MERV 13 FILTERS.
 3. PROVIDE WITH FACTORY WALL MOUNTED THERMOSTAT CONTROLLER, TITLE-24 COMPLIANT.
 4. PROVIDE WITH NON-FUSED DISCONNECT FOR UNITS THAT ARE HARDWIRED.

AIR COOLED OUTDOOR HEAT PUMP/CONDENSING UNIT SCHEDULE

UNIT NO.	MITSUBISHI MODEL	AREA SERVING	ASSOCIATED INDOOR UNIT	COOLING CAPACITY (MBH)	REFRIGERANT	AMBIENT AIR		INTEGRATED HEAT (MBH)	WEIGHT (LBS.)	ELECTRICAL DATA			EFFICIENCY RATINGS		ACCESSORIES
						LOW	HIGH			VOLTAGE	MCA	MOCP	EER (SEER)	HSPF	
HP-1	SUZ-KA12NA	SHORT LINE APARTMENTS	FC-1	13.3	R-410A	23	115	17.1	77	230/1160	12	15	12.0	9.6	SEE BELOW
CU-2	PUZ-A12NKA7	LONG LINE APARTMENTS	FC-2	12.0	R-410A	23	115	--	93	230/1160	11	15	16.4	--	SEE BELOW
HP-2	SUZ-KA18NAR1	01 STACK	FC-3	19.0	R-410A	23	115	24.9	119	230/1160	14	15	12.5	10.0	SEE BELOW

ACCESSORIES:
 1. COMPRESSOR CYCLE DELAY PACKAGE.
 2. AUTOMATIC RESET.
 3. LOW AMBIENT CONTROL PACKAGE.
 4. HEAD PRESSURE CONTROL PACKAGE.

INDOOR FAN COIL UNIT SCHEDULE

UNIT NO.	MANUFACTURER	MODEL	AREA SERVING	TON	WEIGHT (LBS.)	SUPPLY FAN SECTION			ESP IN. W.C.	ELECTRICAL			PERFORMANCE	
						CFM SUPPLY AIR	CFM OUTSIDE AIR	SYSTEM VOLTAGE		WATTS	MCA	MOCP	TOTAL COOLING CAPACITY	HEATING CAPACITY
FC-1	MITSUBISHI	SUZ-KA12NA	SHORT LINE APARTMENTS	1.0	36	280 - 390	50	0.0	230/1160	--	1	15	13.3	17.1
FC-2	MITSUBISHI	PLA-A12EAB	LONG LINE APARTMENTS	1.0	46	330 - 370	50	0.2	230/1160	--	1	15	12.0	--
FC-3	MITSUBISHI	SEZ-KD18NAR41.TH	01 STACK	1.5	62	423 - 635	50	0.2	230/1160	--	1	15	19.0	24.9

NOTES:
 1. PROVIDE WITH FACTORY CLEANABLE MERV 13 FILTERS.
 2. PROVIDE WITH FACTORY WALL MOUNTED THERMOSTAT CONTROLLER, TITLE-24 COMPLIANT.
 3. PROVIDE WITH NON-FUSED DISCONNECT.
 4. EXTEND REFRIGERANT PIPING TO ASSOCIATED OUTDOOR CONDENSING UNIT ON ROOF. SIZE AND INSULATE REFRIGERANT PIPING PER MANUFACTURER'S GUIDELINES.

AIR COOLED OUTDOOR VRF HEAT PUMP SCHEDULE

UNIT NO.	MITSUBISHI MODEL	AREA SERVING	ASSOCIATED INDOOR UNIT	COOLING CAPACITY (MBH)	REFRIGERANT	AMBIENT AIR		INTEGRATED HEAT (MBH)	WEIGHT (LBS.)	ELECTRICAL DATA			EFFICIENCY RATINGS		ACCESSORIES
						LOW	HIGH			VOLTAGE	MCA	MOCP	EER (SEER)	HSPF	
HP-3	MXZ-SM36NAM2	1F COMMON AREA	VRF-1 / VRF-2	36.0	R-410A	23	115	41.0	271	230/1160	35	50	15.0	11.0	SEE BELOW

ACCESSORIES:
 1. COMPRESSOR CYCLE DELAY PACKAGE.
 2. AUTOMATIC RESET.
 3. LOW AMBIENT CONTROL PACKAGE.
 4. HEAD PRESSURE CONTROL PACKAGE.

INDOOR VRF FAN COIL UNIT SCHEDULE

UNIT NO.	MANUFACTURER	MODEL	AREA SERVING	TON	WEIGHT (LBS.)	SUPPLY FAN SECTION			ESP IN. W.C.	ELECTRICAL			PERFORMANCE	
						CFM SUPPLY AIR	CFM OUTSIDE AIR	SYSTEM VOLTAGE		WATTS	MCA	MOCP	TOTAL COOLING CAPACITY	HEATING CAPACITY
VRF-1	MITSUBISHI	SUZ-KF09NA	1F COMMON AREA	0.75	31	230 - 300	50	0.0	230/1160	--	0.25	15	9.0	11.0
VRF-2	MITSUBISHI	SEZ-KD18NA4	1F COMMON AREA	1.5	62	423 - 635	50	0.2	230/1160	96	1.0	15	17.2	21.6

NOTES:
 1. PROVIDE WITH FACTORY CLEANABLE MERV 13 FILTERS.
 2. PROVIDE WITH FACTORY WALL MOUNTED THERMOSTAT CONTROLLER, TITLE-24 COMPLIANT.
 3. PROVIDE WITH NON-FUSED DISCONNECT.
 4. EXTEND REFRIGERANT PIPING TO ASSOCIATED OUTDOOR CONDENSING UNIT ON ROOF. SIZE AND INSULATE REFRIGERANT PIPING PER MANUFACTURER'S GUIDELINES.

(HIGHWALL) COOLING ONLY FAN COIL UNIT SCHEDULE

UNIT NO.	SERVING	MITSUBISHI MODEL	AIRFLOW (CFM)	TONS	COOLING CAPACITY (MBH)	HEATING CAPACITY (MBH)	REFRIGERANT		ELECTRICAL DATA					WEIGHT (lbs)	NOTES
							LIQUID (IN)	SUCTION (IN)	MCA	FLA	VOLT	PH	HZ		
FC-4	ELEVATOR MACHINE ROOM - 1ST FLOOR	MSZ-GS18NA	250 - 629	1.5	18.0	--	1/4	1/2	--	--	208	1	60	28	SEE BELOW

NOTES:
 1. PROVIDE WITH FACTORY CLEANABLE MERV 13 FILTERS.
 2. PROVIDE WITH FACTORY WALL MOUNTED THERMOSTAT CONTROLLER, TITLE-24 COMPLIANT.
 3. PROVIDE WITH FACTORY CONDENSATE PUMP WITH SEPARATE PUMP IF REQUIRED, AND ASSOCIATED CONTROLS.
 4. PROVIDE WITH NON-FUSED DISCONNECT.
 5. ROUTE REFRIGERANT PIPING TO ASSOCIATED OUTDOOR CONDENSING UNIT ON ROOF, SIZED AND INSULATED PER MFG'S RECOMMENDATIONS.
 6. POWERED BY OUTDOOR UNIT.

(OUTDOOR) COOLING ONLY CONDENSING UNIT SCHEDULE

UNIT NO.	SERVING	MITSUBISHI MODEL	TONS	COOLING CAPACITY (MBH)	HEATING CAPACITY (MBH)	EER/SEER	COP	ELECTRICAL DATA					WEIGHT (lbs)	NOTES
								MCA	MOCP	VOLT	PH	HZ		
CU-1	ELEVATOR MACHINE ROOM - 1ST FLOOR	MUZ-GS18NA	1.5	18.0	--	13.5/20.5	--	12	15	208	1	60	119	SEE BELOW

NOTES:
 1. CONDENSING UNIT SHALL BE LISTED IN TITLE 24 CALIFORNIA CERTIFIED APPLIANCE DATABASE.
 2. PROVIDE ACCESSORY TUBING KITS/VALVES, COMPATIBLE TO FAN COIL UNIT.
 3. PROVIDE WITH LOW AMBIENT KIT.
 4. PROVIDE WITH 2" NEOPRENE PAD AND ROOF CURB.

CONTROLS

HVAC CONTROLS - SPLIT SYSTEM

THERMOSTAT
PROVIDE WITH FACTORY THERMOSTAT, OR APPROVED EQUAL, 7-DAY PROGRAMMABLE MULTI-STAGE HEATING/COOLING AUTOMATIC CHANGEOVER THERMOSTAT TO CONTROL THE OPERATION OF EACH UNIT. MOUNT THERMOSTAT AT 4'-0" A.F.F.
SEQUENCE OF OPERATION
SPLIT SYSTEM HEAT PUMP: COOLING CYCLE: UPON A RISE IN SPACE TEMPERATURE ABOVE THE OCCUPIED COOLING SETPOINT OF THE THERMOSTAT, THE REFRIGERATION SYSTEM AND SUPPLY AIR FAN SHALL CYCLE AS REQUIRED TO MAINTAIN SPACE TEMPERATURE AT THE THERMOSTAT SETPOINT. HEATING CYCLE: UPON A DROP IN SPACE TEMPERATURE BELOW THE OCCUPIED HEATING SETPOINT OF THE THERMOSTAT, THE REFRIGERATION SYSTEM AND SUPPLY FAN SHALL CYCLE AS REQUIRED TO MAINTAIN SPACE TEMPERATURE AT THE THERMOSTAT SETPOINT.

HVAC CONTROLS - HIGH WALL SPLIT SYSTEM

THERMOSTAT
EACH UNIT TO BE PROVIDED WITH FACTORY THERMOSTAT.
SEQUENCE OF OPERATION
PACKAGED HIGH WALL-MOUNTED FAN COIL UNIT, DX COOLING ONLY: 1. THE SPACE WILL BE DIRECTLY CONTROLLED BY ITS OWN DEDICATED WALL-MOUNTED CONTROLLER. 2. COOLING OPERATION: THE CONTROLLER COMPARES THE COOLING SETPOINT WITH THE SPACE TEMPERATURE AND DETERMINES A COOLING SIGNAL. THIS SIGNAL SHALL ACTIVATE THE LEAD AC UNIT TO MAINTAIN THE ROOM SETPOINT. 3. OPERATION: THE AC UNIT WILL OPERATE CONTINUOUSLY TO ENSURE THE ROOM MAINTAINS SETPOINT. 4. MONITORING: THE FOLLOWING CONDITIONS SHALL BE MONITORED: ROOM TEMPERATURE, ROOM SETPOINT, CURRENT MODE (COOLING/FAN), FAN STATUS THRU CURRENT SWITCH. 5. ALARMS - THE FOLLOWING CONDITIONS SHALL TRIGGER A GENERAL ALARM AND AN EMAIL SHALL BE SENT TO THE SYSTEM OPERATOR: 5.1. IF ROOM TEMPERATURE IS GREATER THAN 5° F ABOVE SETPOINT FOR 5 MINUTES. 5.2. IF FAN IS COMMANDED ON AND FAN CURRENT SWITCH DETECTS FAN IS OFF. 5.3. IF FAN IS COMMANDED OFF AND FAN CURRENT SWITCH DETECTS FAN IS ON.

EXHAUST FAN SCHEDULE

UNIT NO.	TYPE	MAKE	AREA SERVING	DUCT SIZES	CFM	WATTS (HP)	ELECTRICAL DATA			OPER. WEIGHT (LBS.)	REMARKS
							VOLTS	PHASE	FLA		
EF-1	ROOF	GREENHECK LD-70	ELEVATOR HOISTWAY	8"x8"	250 @ .25 S.P.	73.0	120	1	--	37 LBS.	PROVIDE WITH BACKDRAFT DAMPER. INTERLOCK EXHAUST FAN WITH TIME CLOCK TO ACTIVATE DURING OCCUPIED HOURS.
CEF-1	CEILING	GREENHECK SP-A90-130-VG	BATHROOMS	6"Ø	110 @ .25 S.P.	12.7	115	1	.31	15 LBS.	PROVIDE WITH BACKDRAFT DAMPER. PROVIDE FAN SWITCH NEXT TO LIGHT SWITCH.
CEF-2	CEILING	GREENHECK SP-A190	TRASH / RECYCLE	8"x6"	185 @ .25 S.P.	49.2	115	1	.32	17 LBS.	PROVIDE WITH BACKDRAFT DAMPER. PROVIDE FAN SWITCH NEXT TO LIGHT SWITCH.
CEF-3	CEILING	GREENHECK CSP-A1050-VG	IF TRASH ROOM	10"Ø	500 @ .25 S.P.	125	115	1	4.75	49 LBS.	PROVIDE WITH BACKDRAFT DAMPER AND HANGING VIBRATION ISOLATOR KIT. EXHAUST FAN TO OPERATE CONTINUOUSLY.

SCHEDULES OF DIFFUSERS AND GRILLES

UNIT NO.	MANUFACTURER	MODEL	SIZE OF DIFFUSER	NOTES
S1, E1	DAYTON	20UA07	12" X 12"	4, 6
R1, T1	TITUS	50F	24" X 24"	1, 4, 5
R2	TITUS	250 BL	AS SHOWN	2, 4, 5
S2	TITUS	CT-580	4 FT LONG	3, 4, 5
E2	DAYTON	20UA07	24" X 18"	4, 6
S3	TITUS	250	AS SHOWN	4, 5, 7
R3	TITUS	50F	12" X 12"	1, 4

NOTES:
 1. 1/2" X 1/2" X 1/2" EGGCRATE RETURN / RELIEF AIR GRILLE.
 2. ANGLED RETURN GRILLE, CEILING-MOUNTED; AIM VANES TOWARD NEAREST WALL. WALL-MOUNTED: AIM VANES UPWARD.
 3. ALUMINUM LINEAR BAR SUPPLY AIR GRILLE, 1/8" BARS, 1/4" SPACING, 0° DEFLECTION.
 4. FURNISH ALL AIR DEVICES WITH APPROPRIATE FRAME FOR CEILING / WALL CONSTRUCTION TYPE.
 5. IF WALL-MOUNTED, PAINT TO MATCH ADJACENT FINISH AND INSTALL W/ BLADES ANGLED UPWARD. IF CEILING MOUNTED, INSTALL W/ BLADES ANGLED TOWARDS NEAREST WALL.
 6. STATIONARY INTAKE/EXHAUST LOUVER WITH BIRD SCREEN AND FLANGE KIT.
 7. ADJUSTABLE 4 WAY DISCHARGE SUPPLY AIR CEILING DIFFUSER.

KITCHEN HOOD SCHEDULE

UNIT NO.	TYPE	MAKE	DUCT SIZES	MAX CFM	LENGTH	REMARKS
KH-1	WALL MOUNTED	GE JVX3240SJ	N/A	200	24"	REFER TO 10/M401 FOR MANUFACTURER CUTSHEETS.

ROOF-MOUNTED SUPPLY FAN SCHEDULE

SYMBOL	MAKE	MODEL	AREA SERVING	CFM	HP	ELECTRICAL DATA			OPER. WEIGHT (LBS.)	NOTES
						AMPS	VOLTS	PHASE		
SF-1	GREENHECK	SAF-112	CORRIDOR / TRASH ROOM	1,220 @ .25 S.P.	1/4	5.8	115	1	185 LBS.	SEE BELOW

NOTES:
 1. PROVIDE MIN. MERV 13 FILTERS ON ALL SUPPLY AIR FANS. CONTRACTOR TO CONSTRUCT FILTER BOX CAPABLE OF HOUSING FILTERS IF NOT INCLUDED WITH EQUIPMENT SCHEDULED.
 2. PROVIDE W/ FACTORY ROOF CURB AND FILTER BOX. SUPPLY FAN TO OPERATE CONTINUOUSLY.



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CLIENT:

JAIME PARTNERS OF CALIFORNIA, INC.

1050 S. FLOWER STREET
 LOS ANGELES, CA 90015

PROJECT:

2853 WEST BLVD
 LOS ANGELES, CA 90016

C-JAIME-001

#	DESCRIPTION	DATE
	1ST SUBMITTAL	10/04/21
	UTILITY COORDINATION	04/08/22
△	PC RESUBMITTAL	05/18/22
△	PC RESUBMITTAL	10/28/22
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△	HCD RESUBMITTAL	06/14/23
△	PC RESUBMITTAL	07/10/23
△	PC RESUBMITTAL	02/27/24

Plot Date: 3/5/2024 2:01:40 PM

SHEET TITLE:

SCHEDULES, SEQUENCES AND CONTROLS

SHEET NO:

M003

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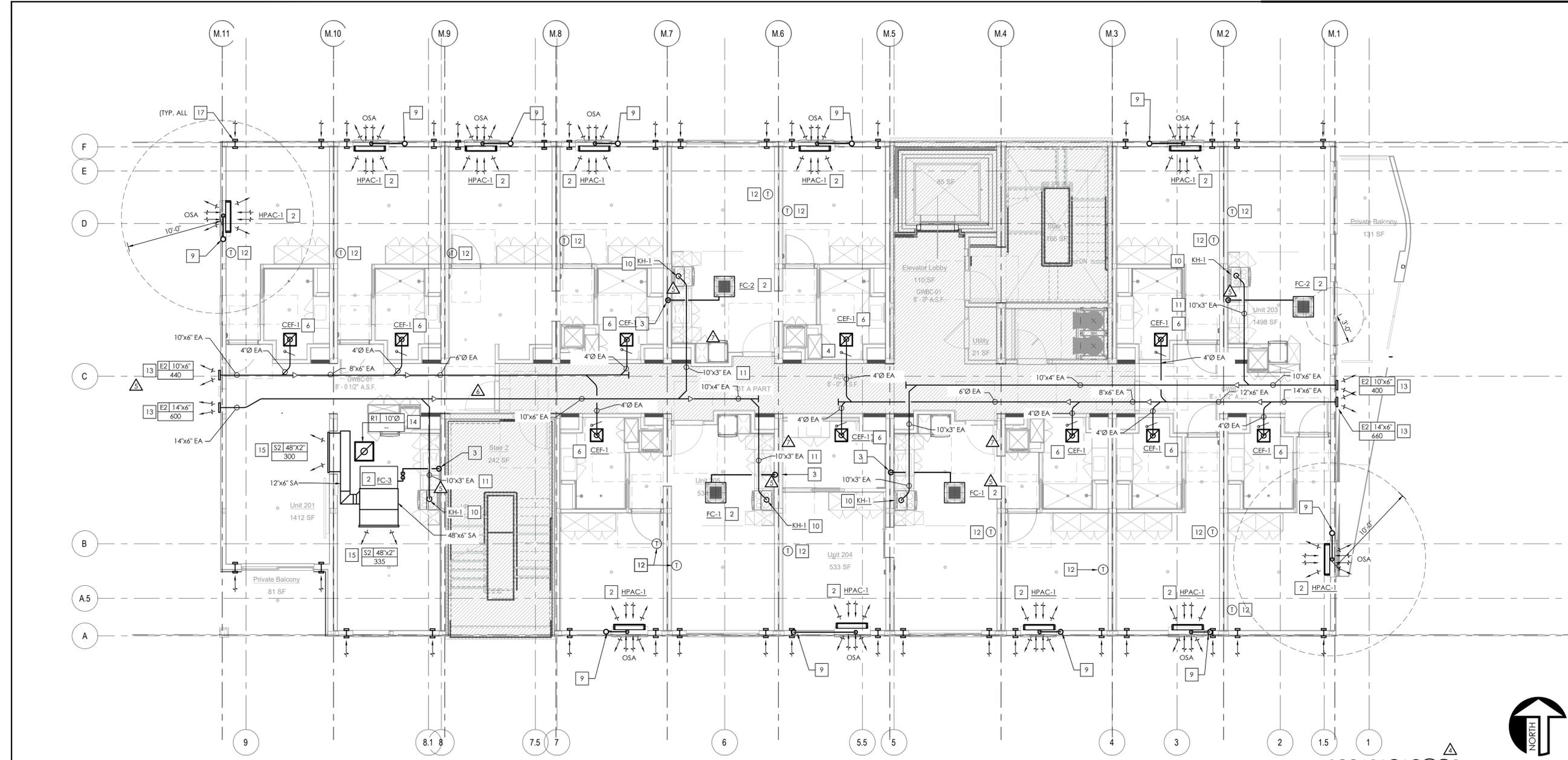
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SHEET TITLE:

**LEVEL 2
HVAC PLAN**

SHEET NO:

M102



LEVEL 2 HVAC PLAN SCALE 3/16" = 1'-0" 1

PLAN NOTES

- A. REFER TO SHEET M001 FOR GENERAL MECHANICAL INFORMATION AND M002 FOR HVAC SPECIFICATIONS.
- B. REFER TO SHEET M003 FOR ALL SCHEDULES, SEQUENCES AND CONTROLS.
- C. REFER TO SHEET M401 FOR DETAILS.
- D. REFER TO SHEET M402 FOR OSA CALCULATIONS.
- E. REFER TO SHEET M101 FOR CONTINUATIONS BELOW AND SHEET M103 FOR CONTINUATIONS ABOVE.
- F. REFER TO MANUFACTURER'S GUIDELINES FOR PROPER INSTALLATION AND EQUIPMENT CLEARANCES.
- G. ALL CONDENSATE DRAIN PIPING TO MAINTAIN MINIMUM SLOPE OF 1/8" PER FT.
- H. PROVIDE ACCESS PANEL IN DUCT FOR INSPECTION / MAINTENANCE OF EACH FSD SHOWN ON PLANS.
- I. AIR LEAKAGE IN DWELLING UNITS SHALL BE LESS THAN OR EQUAL TO 0.3 CFM PER SQFT. OF DWELLING UNIT AT A DUCT STATIC PRESSURE OF 50 PASCALS (-0.2" W.C.).

KEY NOTES

- # NUMBERS INDICATE NOTES SHOWN ON PLAN
- 1. NOT USED.
- 2. CEILING CASSETTE FCU TO SERVE CONDITIONED SPACE, AS SHOWN. UNIT TO BE COORDINATE ALL ASPECTS OF INSTALLATION IN FIELD DURING CONSTRUCTION.
- 3. ROUTE 3/4" CONDENSATE DRAIN PIPING DOWN TO DISCHARGE INTO TAILPIECE OF LAV.
- 4. NOT USED.
- 5. PROVIDE CLEANOUT AT EACH CHANGE IN DIRECTION.
- 6. CEILING-MOUNTED BATHROOM EXHAUST FAN. PROVIDE 6"Ø EA DUCT (MIN. 26 GAUGE GALVANIZED STEEL) THRU FIRE-RATED WALL WITH MIN. 12" LONG BY 0.06" THICK STEEL SLEEVE, CENTERED IN EACH DUCT OPENING. DUCT PENETRATION MEETS ALL OF THE EXCEPTIONS LISTED IN SECTION 717.5.4 OF THE IABC.
- 7. NOT USED.
- 8. NOT USED.
- 9. ROUTE 3/4" CONDENSATE DRAIN RISER DOWN TIGHT TO UNDERSIDE OF LEVEL 1 PODIUM.
- 10. KITCHEN HOOD WITH FACTORY BACKDRAFT DAMPER.
- 11. ROUTE 10"x3" EA DUCT FROM KITCHEN HOOD TO COMMON EXHAUST PLENUM. PROTECT PENETRATION THRU FIRE-RATED WALL W/ AN APPROVED FIRESTOP SYSTEM INSTALLED AS TESTED IN ACCORDANCE WITH ASTM E814 OR UL 1479. WITH A MINIMUM POSITIVE PRESSURE DIFFERENTIAL OF 0.01 INCH OF WATER AND SHALL HAVE AN F-RATING OF NOT LESS THAN THE REQUIRED FIRE-RESISTANCE RATING OF THE WALL.
- 12. ROOM T-STAT. COORDINATE FINAL LOCATION WITH OWNER.
- 13. ROUTE DUCT THRU EXTERIOR WALL TO EXHAUST LOUVER.
- 14. PROVIDE RA CEILING GRILLE FOR PLENUM RETURN.
- 15. PROVIDE SA DUCT TO SIDEWALL GRILLE FOR HORIZONTAL DISCHARGE.
- 16. NOT USED.
- 17. PROVIDE PASSIVE, TEMPERATURE CONTROLLED FRESH AIR INTAKE VENT (ALDES AIRLET 700, OR ENGINEER-APPROVED EQUAL). COORDINATE FINAL LOCATION WITH OWNER.

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1050 S. FLOWER STREET
LOS ANGELES, CA 90015

PROJECT:

2853 WEST BLVD
LOS ANGELES, CA 90016

C-JAIME-001

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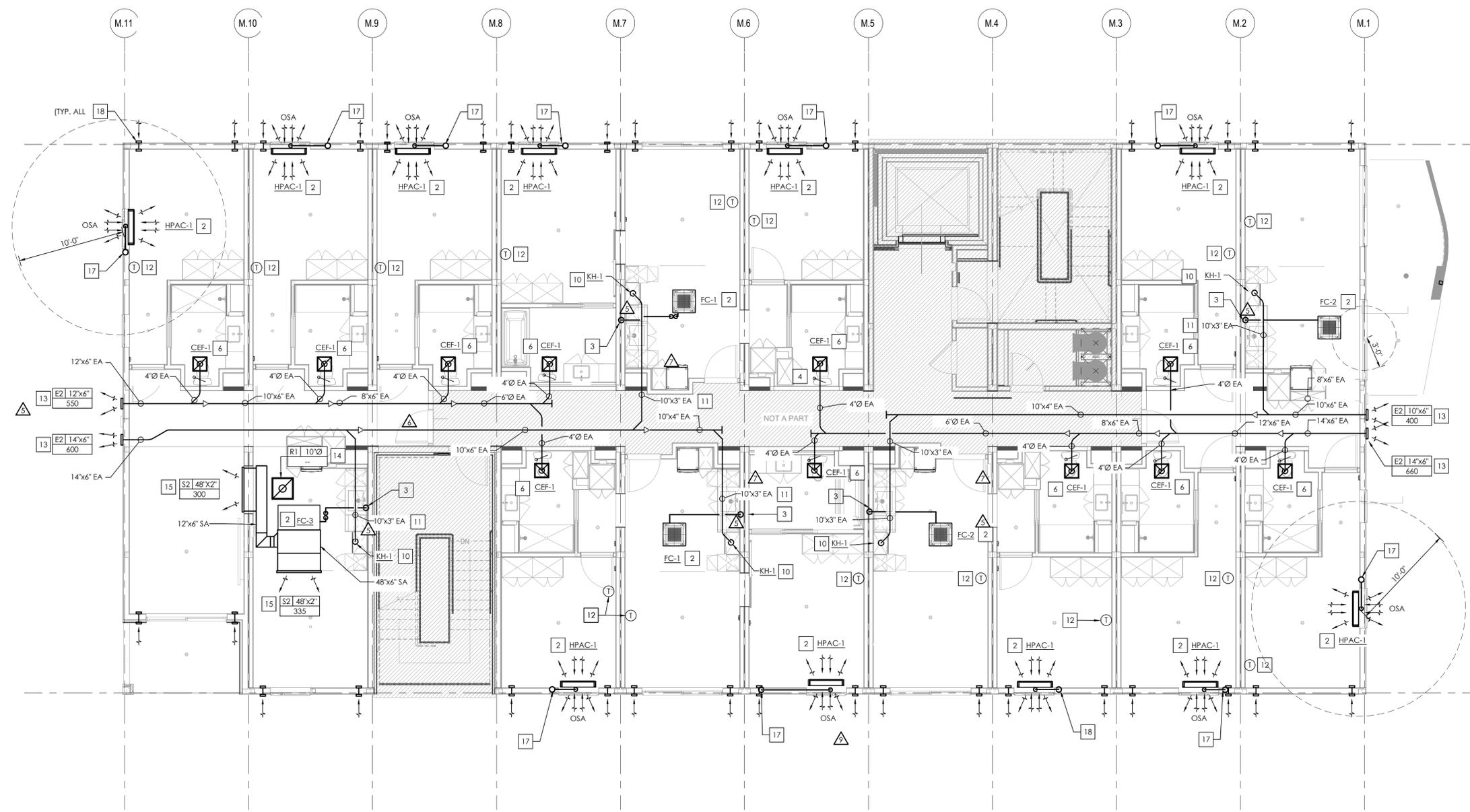
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SHEET TITLE:

**LEVEL 3
HVAC PLAN**

SHEET NO.:

M103



LEVEL 3 - HVAC PLAN SCALE 3/16" = 1'-0" 1

PLAN NOTES

- A. REFER TO SHEET M001 FOR GENERAL MECHANICAL INFORMATION AND M002 FOR HVAC SPECIFICATIONS.
- B. REFER TO SHEET M003 FOR ALL SCHEDULES, SEQUENCES AND CONTROLS.
- C. REFER TO SHEET M401 FOR DETAILS.
- D. REFER TO SHEET M402 FOR OSA CALCULATIONS.
- E. REFER TO SHEET M101 FOR CONTINUATIONS BELOW AND SHEET M103 FOR CONTINUATIONS ABOVE.
- F. REFER TO MANUFACTURER'S GUIDELINES FOR PROPER INSTALLATION AND EQUIPMENT CLEARANCES.
- G. ALL CONDENSATE DRAIN PIPING TO MAINTAIN MINIMUM SLOPE OF 1/8" PER FT.
- H. PROVIDE ACCESS PANEL IN DUCT FOR INSPECTION / MAINTENANCE OF EACH FSD SHOWN ON PLANS.
- I. AIR LEAKAGE IN DWELLING UNITS SHALL BE LESS THAN OR EQUAL TO 0.3 CFM PER SQFT. OF DWELLING UNIT AT A DUCT STATIC PRESSURE OF 50 PASCALS (-0.2" W.C.).

KEY NOTES

- # NUMBERS INDICATE NOTES SHOWN ON PLAN
- 1. NOT USED.
- 2. CEILING CASSETTE FCU TO SERVE CONDITIONED SPACE, AS SHOWN. UNIT TO BE COORDINATE ALL ASPECTS OF INSTALLATION IN FIELD DURING CONSTRUCTION.
- 3. ROUTE 3/4" CONDENSATE DRAIN PIPING DOWN TO DISCHARGE INTO TAILPIECE OF LAV.
- 4. NOT USED.
- 5. PROVIDE CLEANOUT AT EACH CHANGE IN DIRECTION.
- 6. CEILING-MOUNTED BATHROOM EXHAUST FAN. PROVIDE 6"Ø EA DUCT (MIN. 26 GAUGE GALVANIZED STEEL) THRU FIRE-RATED WALL WITH MIN. 12" LONG BY 0.06" THICK STEEL SLEEVE, CENTERED IN EACH DUCT OPENING. DUCT PENETRATION MEETS ALL OF THE EXCEPTIONS LISTED IN SECTION 717.5.4 OF THE IBC.
- 7. NOT USED.
- 8. NOT USED.
- 9. NOT USED.
- 10. KITCHEN HOOD WITH FACTORY BACKDRAFT DAMPER.
- 11. ROUTE 10"x3" EA DUCT FROM KITCHEN HOOD TO COMMON EXHAUST PLENUM. PROTECT PENETRATION THRU FIRE-RATED WALL W/ AN APPROVED FIRESTOP SYSTEM INSTALLED AS TESTED IN ACCORDANCE WITH ASTM E814 OR UL 1479. WITH A MINIMUM POSITIVE PRESSURE DIFFERENTIAL OF 0.01 INCH OF WATER AND SHALL HAVE AN F-RATING OF NOT LESS THAN THE REQUIRED FIRE-RESISTANCE RATING OF THE WALL.
- 12. ROOM T-STAT. COORDINATE FINAL LOCATION WITH OWNER.
- 13. ROUTE DUCT THRU EXTERIOR WALL TO EXHAUST LOUVER.
- 14. PROVIDE RA CEILING GRILLE FOR PLENUM RETURN.
- 15. PROVIDE SA DUCT TO SIDEWALL GRILLE FOR HORIZONTAL DISCHARGE.
- 16. NOT USED.
- 17. ROUTE 3/4" CONDENSATE DRAIN RISER DOWN TIGHT TO UNDERSIDE OF LEVEL 1 PODIUM.
- 18. PROVIDE PASSIVE, TEMPERATURE CONTROLLED FRESH AIR INTAKE VENT (ALDES AIRLET 700, OR ENGINEER-APPROVED EQUAL). COORDINATE FINAL LOCATION WITH OWNER.

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LOS ANGELES, CA 90015

PROJECT:

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LOS ANGELES, CA 90016

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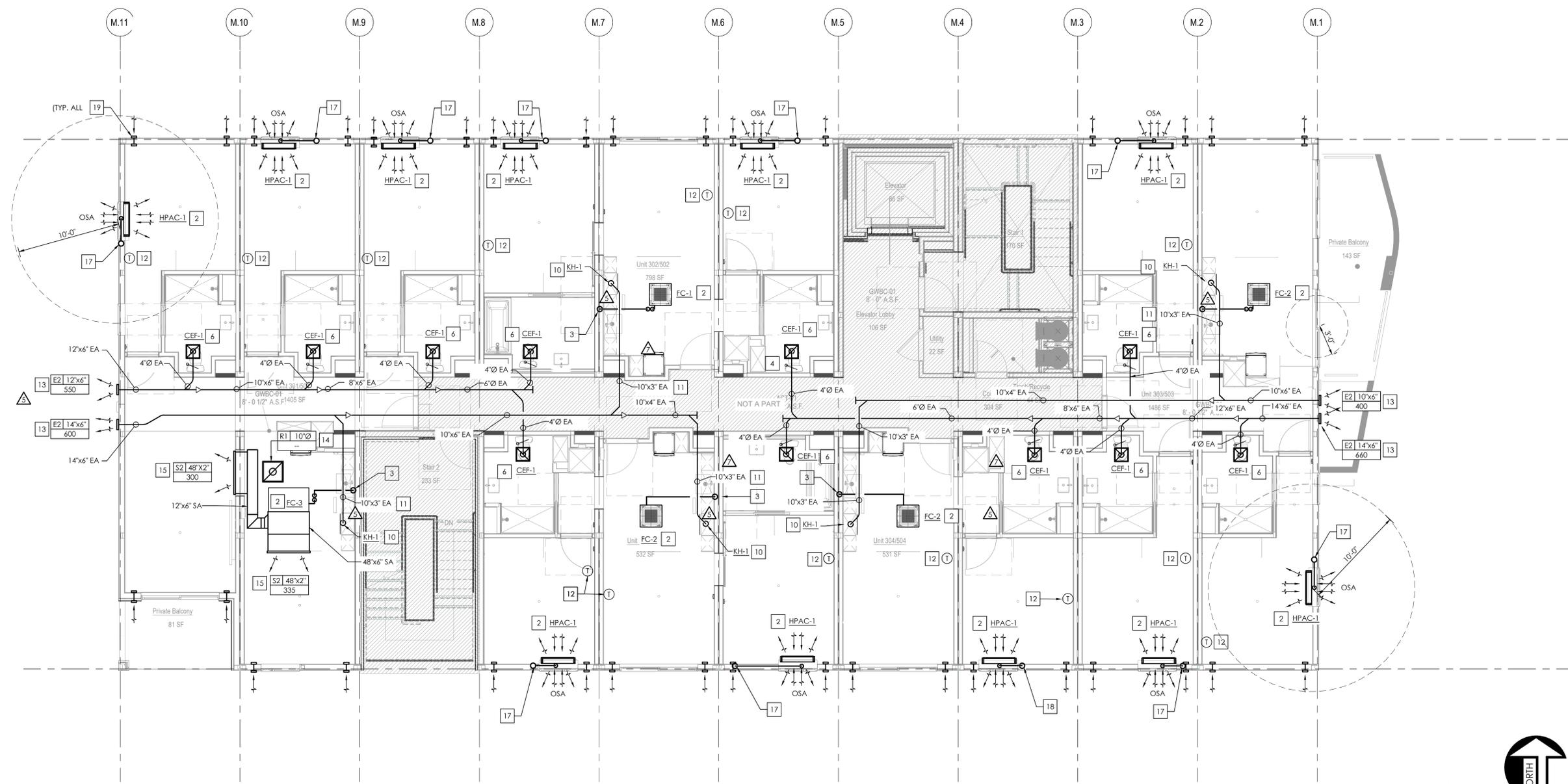
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SHEET TITLE:

**LEVEL 5
HVAC PLAN**

SHEET NO.:

M105



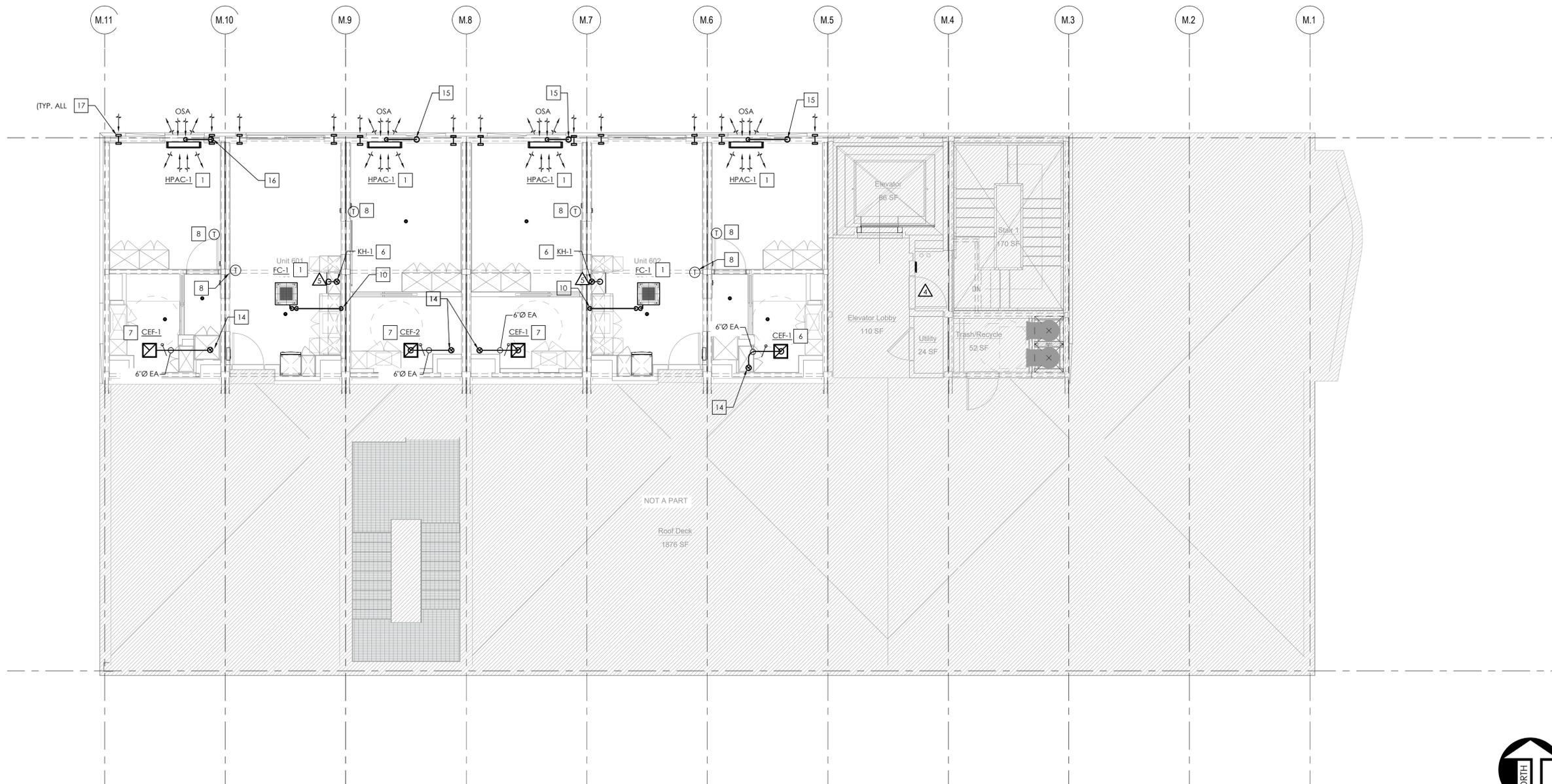
LEVEL 5 HVAC PLAN SCALE 3/16" = 1'-0" 1

PLAN NOTES

- A. REFER TO SHEET M001 FOR GENERAL MECHANICAL INFORMATION AND M002 FOR HVAC SPECIFICATIONS.
- B. REFER TO SHEET M003 FOR ALL SCHEDULES, SEQUENCES AND CONTROLS.
- C. REFER TO SHEET M401 FOR DETAILS.
- D. REFER TO SHEET M402 FOR OSA CALCULATIONS.
- E. REFER TO SHEET M101 FOR CONTINUATIONS BELOW AND SHEET M103 FOR CONTINUATIONS ABOVE.
- F. REFER TO MANUFACTURER'S GUIDELINES FOR PROPER INSTALLATION AND EQUIPMENT CLEARANCES.
- G. ALL CONDENSATE DRAIN PIPING TO MAINTAIN MINIMUM SLOPE OF 1/8" PER FT.
- H. PROVIDE ACCESS PANEL IN DUCT FOR INSPECTION / MAINTENANCE OF EACH FSD SHOWN ON PLANS.
- I. AIR LEAKAGE IN DWELLING UNITS SHALL BE LESS THAN OR EQUAL TO 0.3 CFM PER SQFT. OF DWELLING UNIT AT A DUCT STATIC PRESSURE OF 50 PASCALS (-0.2" W.C.).

KEY NOTES

- # NUMBERS INDICATE NOTES SHOWN ON PLAN
- 1. NOT USED.
- 2. CEILING CASSETTE FCU TO SERVE CONDITIONED SPACE, AS SHOWN.
- 3. ROUTE 3/4" CONDENSATE DRAIN PIPING DOWN TO DISCHARGE INTO TAILPIECE OF LAV.
- 4. NOT USED.
- 5. PROVIDE CLEANOUT AT EACH CHANGE IN DIRECTION.
- 6. CEILING-MOUNTED BATHROOM EXHAUST FAN. PROVIDE 6"Ø EA DUCT (MIN. 26 GAUGE GALVANIZED STEEL) THRU FIRE-RATED WALL WITH MIN. 12" LONG BY 0.06" THICK STEEL SLEEVE, CENTERED IN EACH DUCT OPENING. DUCT PENETRATION MEETS ALL OF THE EXCEPTIONS LISTED IN SECTION 717.5.4 OF THE LABC.
- 7. NOT USED.
- 8. NOT USED.
- 9. NOT USED.
- 10. KITCHEN HOOD WITH FACTORY BACKDRAFT DAMPER.
- 11. ROUTE 10"x3" EA DUCT FROM KITCHEN HOOD TO COMMON EXHAUST PLENUM. PROTECT PENETRATION THRU FIRE-RATED WALL W/ AN APPROVED FIRESTOP SYSTEM INSTALLED AS TESTED IN ACCORDANCE WITH ASTM E814 OR UL 1479. WITH A MINIMUM POSITIVE PRESSURE DIFFERENTIAL OF 0.01 INCH OF WATER AND SHALL HAVE AN F RATING OF NOT LESS THAN THE REQUIRED FIRE-RESISTANCE RATING OF THE WALL.
- 12. ROOM T-STAT. COORDINATE FINAL LOCATION WITH OWNER.
- 13. ROUTE DUCT THRU EXTERIOR WALL TO EXHAUST LOUVER.
- 14. PROVIDE RA CEILING GRILLE FOR PLENUM RETURN.
- 15. PROVIDE FULL SIZE SA DUCT TO SIDEWALL GRILLE FOR HORIZONTAL DISCHARGE.
- 16. NOT USED.
- 17. ROUTE 3/4" CONDENSATE DRAIN RISER DOWN TIGHT TO UNDERSIDE OF LEVEL 1 PODIUM.
- 18. 3/4" CONDENSATE DRAIN PIPING FROM HVAC UNIT ABOVE.
- 19. PROVIDE PASSIVE, TEMPERATURE CONTROLLED FRESH AIR INTAKE VENT (ALDES AIRLET 700, OR ENGINEER-APPROVED EQUAL). COORDINATE FINAL LOCATION WITH OWNER.



LEVEL 6 HVAC PLAN SCALE 3/16" = 1'-0" 1

PLAN NOTES

- A. REFER TO SHEET M001 FOR GENERAL MECHANICAL INFORMATION AND M002 FOR HVAC SPECIFICATIONS.
- B. REFER TO SHEET M003 FOR ALL SCHEDULES, SEQUENCES AND CONTROLS.
- C. REFER TO SHEET M401 FOR DETAILS.
- D. REFER TO SHEET M402 FOR OSA CALCULATIONS.
- E. REFER TO SHEET M101 FOR CONTINUATIONS BELOW AND SHEET M103 FOR CONTINUATIONS ABOVE.
- F. REFER TO MANUFACTURER'S GUIDELINES FOR PROPER INSTALLATION AND EQUIPMENT CLEARANCES.
- G. ALL CONDENSATE DRAIN PIPING TO MAINTAIN MINIMUM SLOPE OF 1/8" PER FT.
- H. PROVIDE ACCESS PANEL IN DUCT FOR INSPECTION / MAINTENANCE OF EACH FSD SHOWN ON PLANS.
- I. AIR LEAKAGE IN DWELLING UNITS SHALL BE LESS THAN OR EQUAL TO 0.3 CFM PER SQFT. OF DWELLING UNIT AT A DUCT STATIC PRESSURE OF 50 PASCALS (-0.2" W.C.).

KEY NOTES

- # NUMBERS INDICATE NOTES SHOWN ON PLAN
- 1. CEILING CASSETTE FCU TO SERVE CONDITIONED SPACE, AS SHOWN. COORDINATE ALL ASPECTS OF INSTALLATION IN FIELD DURING CONSTRUCTION.
- 2. NOT USED.
- 3. NOT USED.
- 4. NOT USED.
- 5. NOT USED.
- 6. KITCHEN RANGE HOOD W/ FACTORY BACKDRAFT DAMPER. PROVIDE 7" Ø EA DUCT THRU ROOF WITH FACTORY ROOF JACK. PROTECT PENETRATION THRU FIRE-RATED STRUCTURE W/ AN APPROVED FIRESTOP SYSTEM INSTALLED AS TESTED IN ACCORDANCE WITH ASTM E814 OR UL 1479. WITH A MINIMUM POSITIVE PRESSURE DIFFERENTIAL OF 0.01 INCH OF WATER AND SHALL HAVE AN F RATING OF NOT LESS THAN 1 HOUR BUT NOT LESS THAN THE REQUIRED FIRE-RESISTANCE RATING OF THE STRUCTURE PENETRATED.
- 7. CEILING MOUNTED BATHROOM EXHAUST FAN. PROVIDE 6" Ø EA DUCT (MIN. 26 GAUGE GALVANIZED STEEL) THRU FIRE-RATED WALL WITH MIN. 12" LONG BY 0.06" THICK STEEL SLEEVE, CENTERED IN EACH DUCT OPENING.
- 8. ROOM T-STAT. COORDINATE FINAL LOCATION WITH OWNER.
- 9. ROUTE DUCT THRU EXTERIOR WALL TO EXHAUST LOUVER.
- 10. ROUTE 3/4" CONDENSATE DRAIN PIPING DOWN TO DISCHARGE INTO TAILPIECE OF LAV.
- 11. PROVIDE RA CEILING GRILLE FOR PLENUM RETURN.
- 12. PROVIDE FULL SIZE SA DUCT TO SIDEWALL GRILLE FOR HORIZONTAL DISCHARGE.
- 13. NOT USED.
- 14. 6" Ø EA DTR W/ ROOF CAP.
- 15. ROUTE 3/4" CONDENSATE DRAIN RISER DOWN TO SERVE LOWER LEVELS.
- 16. ROUTE 3/4" CONDENSATE DRAIN DOWN THRU FIN. FLOOR INTO LVL 5 CEILING SPACE.
- 17. PROVIDE PASSIVE, TEMPERATURE CONTROLLED FRESH AIR INTAKE VENT (ALDES AIRLET 700, OR ENGINEER-APPROVED EQUAL). COORDINATE FINAL LOCATION WITH OWNER.

NATIONAL
ENGINEERING & CONSULTING, INC
30 THOMAS, IRVINE, CA 92618-2703
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△	HCD RESUBMITTAL	06/14/23
△	PC RESUBMITTAL	07/10/23
△	PC RESUBMITTAL	02/27/24

Plot Date: 3/5/2024 2:02:53 PM
 SHEET TITLE:

**LEVEL 6
 HVAC PLAN**

SHEET NO:
M106

JVX3240SJ

GE Appliances 24" Under the Cabinet Hood

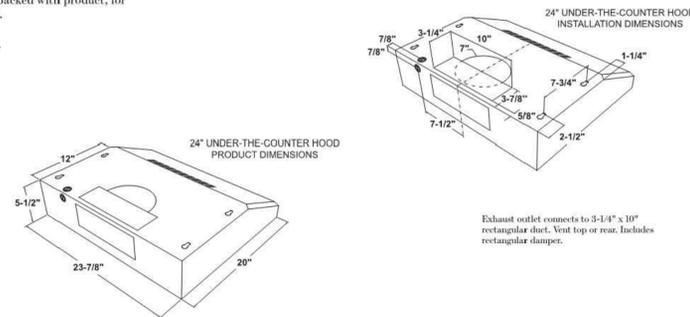
DIMENSIONS AND INSTALLATION INFORMATION (IN INCHES)

WB02X11537 replacement grease filter and JXCF53 replacement charcoal filter are available for additional cost. Call toll-free 800.626.2000.

Installation Information: Before installing, consult installation instructions, packed with product, for current dimensional data.

Additional accessories:
JXDA22 optional damper

AMP RATING	
120V	2.5



For answers to your Monogram, GE Café™, GE Profile™ or GE Appliances product questions, visit our website at appliances.com or call GE Answer Center® Service, 800.626.2000.



Specification Revised 6/20

JVX3240SJ

GE Appliances 24" Under the Cabinet Hood

FEATURES AND BENEFITS

- Easy installation - 10 minutes or less by one person
- Two-speed, 200-CFM venting system - Removes smoke, grease, odors and moisture
- Front controls - Enjoy easy access and a subtle appearance
- Cooktop lighting - Illuminate cooking space and surrounding surface
- Convertible venting options - Select recirculating or external venting
- Vertical and rear exhaust - Exhausts from the top or rear of the hood
- Appearance (Partially enclosed bottom) - Enjoy easy access to hood interior
- Dishwasher safe filter - Filters grease and is dishwasher-safe
- Model JVX3240SJSS - Stainless steel

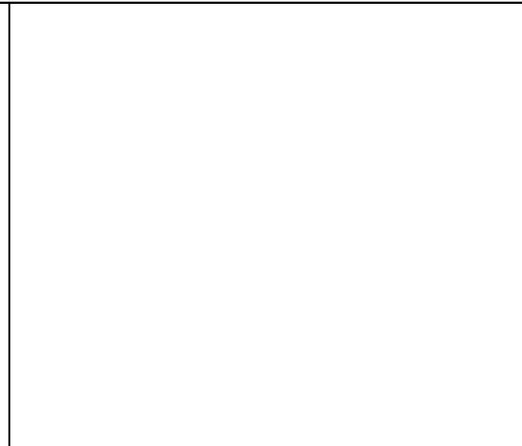


CFM/SONES RATINGS	
Exhaust High Speed (HS)	200/6.5
Exhaust Low Speed (LS)	130/5.0



Specification Revised 6/20

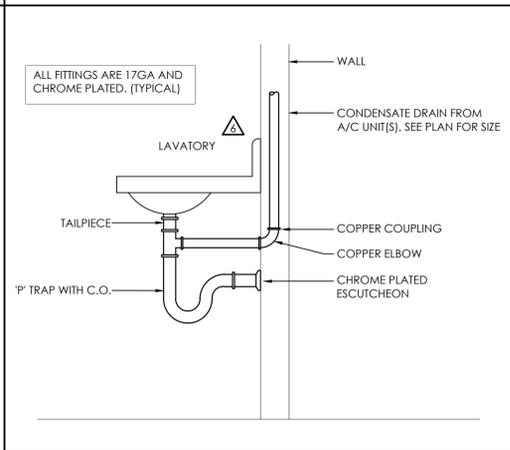
KITCHEN HOOD (KH-1) SCALE: NO SCALE 10



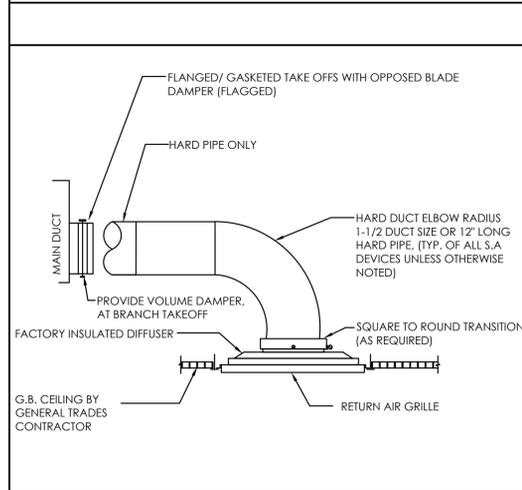
INDOOR FAN COIL UNIT SCALE: N.T.S. 4



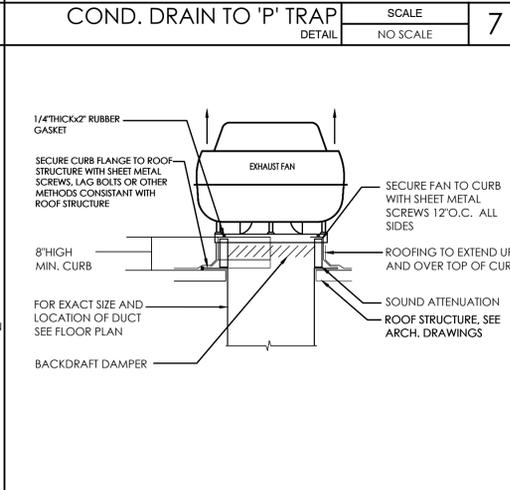
COND. DRAIN TO 'P' TRAP SCALE: NO SCALE 7



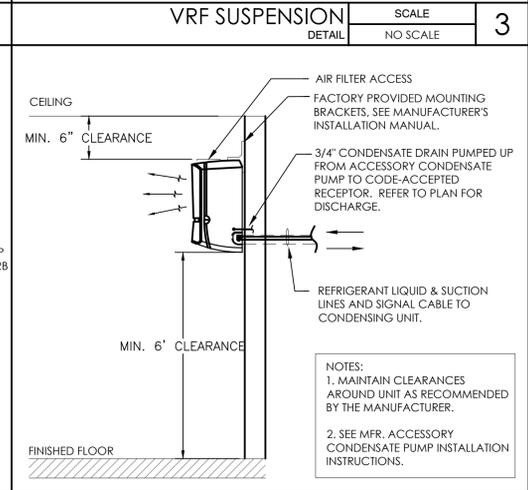
VRF SUSPENSION SCALE: NO SCALE 3



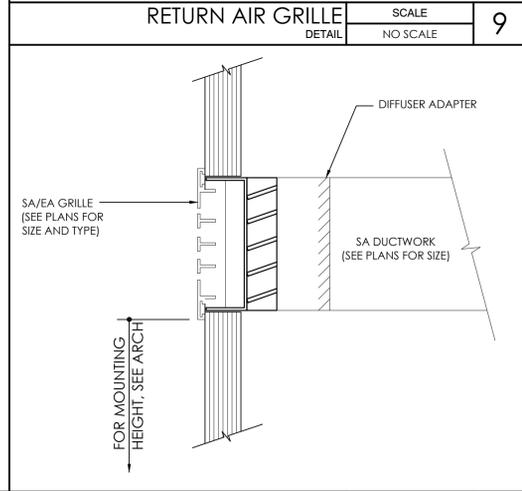
RETURN AIR GRILLE SCALE: NO SCALE 9



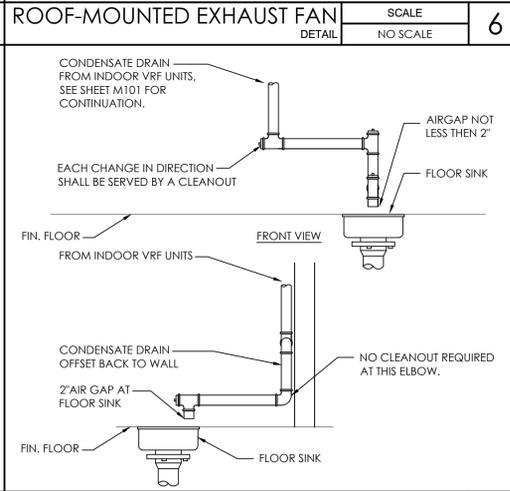
ROOF-MOUNTED EXHAUST FAN SCALE: NO SCALE 6



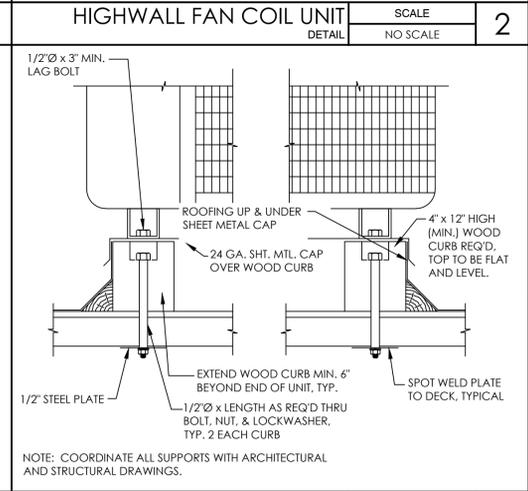
HIGHWALL FAN COIL UNIT SCALE: NO SCALE 2



SIDEWALL GRILLE SCALE: NO SCALE 8



CONDENSATE DRAIN SCALE: NO SCALE 5



CU / HP MOUNTING SCALE: NO SCALE 1

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CLIENT:
JAIME PARTNERS OF CALIFORNIA, INC.
1050 S. FLOWER STREET
LOS ANGELES, CA 90015

PROJECT:
2853 WEST BLVD
LOS ANGELES, CA 90016

C-JAIME-001		
#	DESCRIPTION	DATE
	1ST SUBMITTAL	10/04/21
	UTILITY COORDINATION	04/08/22
△	PC RESUBMITTAL	05/18/22
△	PC RESUBMITTAL	10/28/22
△	HCD REVISION 1	12/16/22
△	PC RESUBMITTAL	02/02/23
△	HCD & PC RESUBMITTAL	06/06/23
△	HCD RESUBMITTAL	06/14/23
△	PC RESUBMITTAL	07/10/23
△	PC RESUBMITTAL	02/27/24

Plot Date: 3/5/2024 2:03:12 PM

SHEET TITLE:

DETAILS

SHEET NO:

M401



OUTDOOR AIRFLOW RATE CALCULATIONS (COMMON CORRIDORS) (COMPLIANT WITH 2019 CMC SECTION 403.0)	
$V_{bz} = R_p P_z + R_o A_z$ (Breathing Zone CFM; Equation 403.2.1)	V_{bz} = 34 CFM
$R_p = 5$ CFM/Occupant (People outdoor air rate; Table 402.1 - Pg 77)	
$P_z = 2$ Occupants (Zone Population)	
$R_o = 0.06$ CFM/ft ² (Area outdoor air rate; Table 402.1 - Pg 77 [ASHRAE 62.1:6.2.2.1])	
$A_z = 395$ ft ² (Net Occupiable Floor Area)	
$V_{bz} = 5 \times 2 + 0.06 \times 395$	
$V_{bz} = 34$	
$V_{oz} = V_{bz}/E_z$ (Zone outdoor airflow; Equation 403.2.3)	V_{oz} = 34 CFM
$E_z = 1$ (Zone air distribution effectiveness; Table 403.2.2 - Pg 79)	
$V_{oz} = 34 \div 1$	
$V_{o1} = V_{oz} = 34$ CFM (Single zone system outdoor airflow rate; Equation 4.3)	

OUTDOOR AIRFLOW RATE CALCULATIONS (LVL. 1) (COMPLIANT WITH 2019 CMC SECTION 403.0)	
$V_{bz} = R_p P_z + R_o A_z$ (Breathing Zone CFM; Equation 403.2.1)	V_{bz} = 116 CFM
$R_p = 5$ CFM/Occupant (People outdoor air rate; Table 402.1 - Pg 77)	
$P_z = 12$ Occupants (Zone Population)	
$R_o = 0.06$ CFM/ft ² (Area outdoor air rate; Table 402.1 - Pg 77 [ASHRAE 62.1:6.2.2.1])	
$A_z = 930$ ft ² (Net Occupiable Floor Area)	
$V_{bz} = 5 \times 12 + 0.06 \times 930$	
$V_{bz} = 116$	
$V_{oz} = V_{bz}/E_z$ (Zone outdoor airflow; Equation 403.2.3)	V_{oz} = 116 CFM
$E_z = 1$ (Zone air distribution effectiveness; Table 403.2.2 - Pg 79)	
$V_{oz} = 116 \div 1$	
$V_{o1} = V_{oz} = 116$ CFM (Single zone system outdoor airflow rate; Equation 4.3)	

OUTDOOR AIRFLOW RATE CALCULATIONS (LVL. 2-5, UNIT #4) (COMPLIANT WITH 2019 CMC SECTION 403.0)	
$V_{bz} = R_p P_z + R_o A_z$ (Breathing Zone CFM; Equation 403.2.1)	V_{bz} = 63 CFM
$R_p = 5$ CFM/Occupant (People outdoor air rate; Table 402.1 - Pg 77)	
$P_z = 3$ Occupants (Zone Population)	
$R_o = 0.06$ CFM/ft ² (Area outdoor air rate; Table 402.1 - Pg 77 [ASHRAE 62.1:6.2.2.1])	
$A_z = 798$ ft ² (Net Occupiable Floor Area)	
$V_{bz} = 5 \times 3 + 0.06 \times 798$	
$V_{bz} = 63$	
$V_{oz} = V_{bz}/E_z$ (Zone outdoor airflow; Equation 403.2.3)	V_{oz} = 63 CFM
$E_z = 1$ (Zone air distribution effectiveness; Table 403.2.2 - Pg 79)	
$V_{oz} = 63 \div 1$	
$V_{o1} = V_{oz} = 63$ CFM (Single zone system outdoor airflow rate; Equation 4.3)	

OUTDOOR AIRFLOW RATE CALCULATIONS (LVL. 2-5, UNIT #1) (COMPLIANT WITH 2019 CMC SECTION 403.0)	
$V_{bz} = R_p P_z + R_o A_z$ (Breathing Zone CFM; Equation 403.2.1)	V_{bz} = 104 CFM
$R_p = 5$ CFM/Occupant (People outdoor air rate; Table 402.1 - Pg 77)	
$P_z = 4$ Occupants (Zone Population)	
$R_o = 0.06$ CFM/ft ² (Area outdoor air rate; Table 402.1 - Pg 77 [ASHRAE 62.1:6.2.2.1])	
$A_z = 1,395$ ft ² (Net Occupiable Floor Area)	
$V_{bz} = 5 \times 4 + 0.06 \times 1,395$	
$V_{bz} = 104$	
$V_{oz} = V_{bz}/E_z$ (Zone outdoor airflow; Equation 403.2.3)	V_{oz} = 104 CFM
$E_z = 1$ (Zone air distribution effectiveness; Table 403.2.2 - Pg 79)	
$V_{oz} = 104 \div 1$	
$V_{o1} = V_{oz} = 104$ CFM (Single zone system outdoor airflow rate; Equation 4.3)	

OUTDOOR AIRFLOW RATE CALCULATIONS (LVL. 2-5, UNIT #5) (COMPLIANT WITH 2019 CMC SECTION 403.0)	
$V_{bz} = R_p P_z + R_o A_z$ (Breathing Zone CFM; Equation 403.2.1)	V_{bz} = 63 CFM
$R_p = 5$ CFM/Occupant (People outdoor air rate; Table 402.1 - Pg 77)	
$P_z = 3$ Occupants (Zone Population)	
$R_o = 0.06$ CFM/ft ² (Area outdoor air rate; Table 402.1 - Pg 77 [ASHRAE 62.1:6.2.2.1])	
$A_z = 801$ ft ² (Net Occupiable Floor Area)	
$V_{bz} = 5 \times 3 + 0.06 \times 801$	
$V_{bz} = 63$	
$V_{oz} = V_{bz}/E_z$ (Zone outdoor airflow; Equation 403.2.3)	V_{oz} = 63 CFM
$E_z = 1$ (Zone air distribution effectiveness; Table 403.2.2 - Pg 79)	
$V_{oz} = 63 \div 1$	
$V_{o1} = V_{oz} = 63$ CFM (Single zone system outdoor airflow rate; Equation 4.3)	

OUTDOOR AIRFLOW RATE CALCULATIONS (LVL. 2-5, UNIT #2) (COMPLIANT WITH 2019 CMC SECTION 403.0)	
$V_{bz} = R_p P_z + R_o A_z$ (Breathing Zone CFM; Equation 403.2.1)	V_{bz} = 63 CFM
$R_p = 5$ CFM/Occupant (People outdoor air rate; Table 402.1 - Pg 77)	
$P_z = 3$ Occupants (Zone Population)	
$R_o = 0.06$ CFM/ft ² (Area outdoor air rate; Table 402.1 - Pg 77 [ASHRAE 62.1:6.2.2.1])	
$A_z = 798$ ft ² (Net Occupiable Floor Area)	
$V_{bz} = 5 \times 3 + 0.06 \times 798$	
$V_{bz} = 63$	
$V_{oz} = V_{bz}/E_z$ (Zone outdoor airflow; Equation 403.2.3)	V_{oz} = 63 CFM
$E_z = 1$ (Zone air distribution effectiveness; Table 403.2.2 - Pg 79)	
$V_{oz} = 63 \div 1$	
$V_{o1} = V_{oz} = 63$ CFM (Single zone system outdoor airflow rate; Equation 4.3)	

OUTDOOR AIRFLOW RATE CALCULATIONS (LVL. 6, UNIT #1) (COMPLIANT WITH 2019 CMC SECTION 403.0)	
$V_{bz} = R_p P_z + R_o A_z$ (Breathing Zone CFM; Equation 403.2.1)	V_{bz} = 63 CFM
$R_p = 5$ CFM/Occupant (People outdoor air rate; Table 402.1 - Pg 77)	
$P_z = 3$ Occupants (Zone Population)	
$R_o = 0.06$ CFM/ft ² (Area outdoor air rate; Table 402.1 - Pg 77 [ASHRAE 62.1:6.2.2.1])	
$A_z = 798$ ft ² (Net Occupiable Floor Area)	
$V_{bz} = 5 \times 3 + 0.06 \times 798$	
$V_{bz} = 63$	
$V_{oz} = V_{bz}/E_z$ (Zone outdoor airflow; Equation 403.2.3)	V_{oz} = 63 CFM
$E_z = 1$ (Zone air distribution effectiveness; Table 403.2.2 - Pg 79)	
$V_{oz} = 63 \div 1$	
$V_{o1} = V_{oz} = 63$ CFM (Single zone system outdoor airflow rate; Equation 4.3)	

OUTDOOR AIRFLOW RATE CALCULATIONS (LVL. 2-5, UNIT #3) (COMPLIANT WITH 2019 CMC SECTION 403.0)	
$V_{bz} = R_p P_z + R_o A_z$ (Breathing Zone CFM; Equation 403.2.1)	V_{bz} = 69 CFM
$R_p = 5$ CFM/Occupant (People outdoor air rate; Table 402.1 - Pg 77)	
$P_z = 3$ Occupants (Zone Population)	
$R_o = 0.06$ CFM/ft ² (Area outdoor air rate; Table 402.1 - Pg 77 [ASHRAE 62.1:6.2.2.1])	
$A_z = 903$ ft ² (Net Occupiable Floor Area)	
$V_{bz} = 5 \times 3 + 0.06 \times 903$	
$V_{bz} = 69$	
$V_{oz} = V_{bz}/E_z$ (Zone outdoor airflow; Equation 403.2.3)	V_{oz} = 69 CFM
$E_z = 1$ (Zone air distribution effectiveness; Table 403.2.2 - Pg 79)	
$V_{oz} = 69 \div 1$	
$V_{o1} = V_{oz} = 69$ CFM (Single zone system outdoor airflow rate; Equation 4.3)	

OUTDOOR AIRFLOW RATE CALCULATIONS (LVL. 6, UNIT #2) (COMPLIANT WITH 2019 CMC SECTION 403.0)	
$V_{bz} = R_p P_z + R_o A_z$ (Breathing Zone CFM; Equation 403.2.1)	V_{bz} = 63 CFM
$R_p = 5$ CFM/Occupant (People outdoor air rate; Table 402.1 - Pg 77)	
$P_z = 3$ Occupants (Zone Population)	
$R_o = 0.06$ CFM/ft ² (Area outdoor air rate; Table 402.1 - Pg 77 [ASHRAE 62.1:6.2.2.1])	
$A_z = 799$ ft ² (Net Occupiable Floor Area)	
$V_{bz} = 5 \times 3 + 0.06 \times 799$	
$V_{bz} = 63$	
$V_{oz} = V_{bz}/E_z$ (Zone outdoor airflow; Equation 403.2.3)	V_{oz} = 63 CFM
$E_z = 1$ (Zone air distribution effectiveness; Table 403.2.2 - Pg 79)	
$V_{oz} = 63 \div 1$	
$V_{o1} = V_{oz} = 63$ CFM (Single zone system outdoor airflow rate; Equation 4.3)	



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CLIENT:

**JAIME PARTNERS
OF CALIFORNIA, INC.**

1050 S. FLOWER STREET
LOS ANGELES, CA 90015

PROJECT:

2853 WEST BLVD
LOS ANGELES, CA 90016

C-JAIME-001		
#	DESCRIPTION	DATE
	1ST SUBMITTAL	10/04/21
	UTILITY COORDINATION	04/08/22
△	PC RESUBMITTAL	05/18/22
△	PC RESUBMITTAL	10/28/22
△	HCD REVISION 1	12/16/22
△	PC RESUBMITTAL	02/02/23
△	HCD & PC RESUBMITTAL	06/06/23
△	HCD RESUBMITTAL	06/14/23
△	PC RESUBMITTAL	07/10/23
△	PC RESUBMITTAL	02/27/24

Plot Date: 3/5/2024 2:03:16 PM

SHEET TITLE:

DETAILS

SHEET NO:

M402



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CLIENT:

**JAIME PARTNERS
OF CALIFORNIA, INC.**

1050 S. FLOWER STREET
LOS ANGELES, CA 90015

PROJECT:

2853 WEST BLVD
LOS ANGELES, CA 90016



C-JAIME-001

#	DESCRIPTION	DATE
	1ST SUBMITTAL	10/04/21
	UTILITY COORDINATION	04/08/22
⚠	PC RESUBMITTAL	05/18/22
⚠	PC RESUBMITTAL	10/28/22
⚠	HCD REVISION 1	12/16/22
⚠	PC RESUBMITTAL	02/02/23
⚠	HCD & PC RESUBMITTAL	06/06/23
⚠	HCD RESUBMITTAL	06/14/23
⚠	PC RESUBMITTAL	07/10/23
⚠	PC RESUBMITTAL	02/27/24

Plot Date: 3/5/2024 2:02:21 PM

SHEET TITLE:

**TITLE 24
COMPLIANCE**

SHEET NO:

M802

STATE OF CALIFORNIA
Mechanical Systems
NRCC-MCH-E CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE NRCC-MCH-E
This document is used to demonstrate compliance for mechanical systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in §140.4, or §141.0(b)2 for alterations.

Project Name: JAIME-001 Report Page: (Page 2 of 20)
Project Address: 2853 WEST BLVD Date Prepared: 10/4/2021

A. GENERAL INFORMATION

01 Project Location (city)	LOS ANGELES	04 Total Conditioned Floor Area	3725
02 Climate Zone	8	05 Total Unconditioned Floor Area	309
03 Occupancy Types Within Project:		06 # of Stories (Habitable Above Grade)	6
<input type="checkbox"/> Office (B)	<input type="checkbox"/> Retail (M)	<input checked="" type="checkbox"/> Non-refrigerated Warehouse (S)	
<input type="checkbox"/> Hotel/ Motel Guest Rooms (R-1)	<input type="checkbox"/> School (E)	<input type="checkbox"/> Healthcare Facility (I)	
<input type="checkbox"/> High-Rise Residential (R-2/R-3)	<input type="checkbox"/> Relocatable Class Bldg (E)	<input checked="" type="checkbox"/> Other (write in)	See Table J

B. PROJECT SCOPE
This table includes mechanical systems or components that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in §140.5, or §141.0(b)2 for alterations.

01	02	03
Air System(s)	Wet System Components	Dry System Components
<input checked="" type="checkbox"/> Heating Air System	<input type="checkbox"/> Water Economizer	<input type="checkbox"/> Air Economizer
<input checked="" type="checkbox"/> Cooling Air System	<input type="checkbox"/> Pumps	<input type="checkbox"/> Electric Resistance Heat
<input type="checkbox"/> Mechanical Controls	<input type="checkbox"/> System Piping	<input type="checkbox"/> Fan Systems
<input checked="" type="checkbox"/> Mechanical Controls (existing to remain, altered or new)	<input type="checkbox"/> Cooling Towers	<input checked="" type="checkbox"/> Ductwork (existing to remain, altered or new)
	<input type="checkbox"/> Chillers	<input checked="" type="checkbox"/> Ventilation
	<input type="checkbox"/> Boilers	<input type="checkbox"/> Zonal Systems/ Terminal Boxes

Registration Number: CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance
Registration Date/Time: Report Version: 2019.1.003
Registration Provider: Energysoft
Report Generated: 2021-10-04 17:25:12
Schema Version: rev 20200601

STATE OF CALIFORNIA
Mechanical Systems
NRCC-MCH-E CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE NRCC-MCH-E
This document is used to demonstrate compliance for mechanical systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in §140.4, or §141.0(b)2 for alterations.

Project Name: JAIME-001 Report Page: (Page 2 of 20)
Project Address: 2853 WEST BLVD Date Prepared: 10/4/2021

C. COMPLIANCE RESULTS
Table C will indicate if the project data input into the compliance document is compliant with mechanical requirements. This table is not editable by the user. If this table says "DOES NOT COMPLY" or "COMPLIES with Exceptional Conditions" refer to Table D., or the table indicated as not compliant for guidance.

01	02	03	04	05	06	07	08	09
System Summary \$110.1 \$110.2 \$140.4	AND Pumps \$140.4(k)	AND Fans/ Economizers \$140.4(l) \$140.4(m)	AND System Controls \$110.2 \$120.2 \$140.4(f)	AND Ventilation \$120.1	AND Terminal Box Controls \$140.4(d)	AND Distribution \$120.3 \$140.4(i)	AND Cooling Towers \$140.2(e)(2)	Compliance Results
(See Table F)	(See Table G)	(See Table H)	(See Table I)	(See Table J)	(See Table K)	(See Table L)	(See Table M)	
Yes	AND	AND	No	AND	Yes	AND	Yes	AND
Mandatory Measures Compliance (See Table Q for Details)								COMPLIES

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

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

Registration Number: CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance
Registration Date/Time: Report Version: 2019.1.003
Registration Provider: Energysoft
Report Generated: 2021-10-04 17:25:12
Schema Version: rev 20200601

STATE OF CALIFORNIA
Mechanical Systems
 CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE NRCC-MCH-E
 Project Name: JAIME-001 Report Page: (Page 3 of 20)
 Project Address: 2853 WEST BLVD Date Prepared: 10/4/2021

F. HVAC SYSTEM SUMMARY (DRY & WET SYSTEMS)
 This table is used to demonstrate compliance for mechanical equipment with mandatory requirements found in §110.1 and §110.2(a) and prescriptive requirements found in §140.4(a), §140.4(b) and §140.4(c) or §141.0(b)(2) for alterations.

Dry System Equipment Sizing (Includes air conditioners, condensers, heat pumps, VRF, furnaces and unit heaters)										
01	02	03	04	05	06	07	08	09	10	11
Name or Item Tag	Equipment Category per Tables 110.2	Equipment Type per Tables 110.2 / Title 20	Smallest Size Available ¹ §140.4(a)	Heating Output ^{2,3}		Cooling Output ^{2,3}		Total Heating Load (kBtu/h)	Total Sensible Cooling Load (kBtu/h)	Load Calculations ^{2,4}
				Per Design (kBtu/h)	Rated (kBtu/h)	Supp. Heating Output (kBtu/h)	Sensible Per Design (kBtu/h)			
HP-1 / VRF-1 / VRF-2	Variable Refrigerant Flow	VRF heat pump, air cooled	NA: Load Controls	69.56	66	0	59.82	57	86.16	102.43
VHP-1 / HPAC-1	Unitary Heat Pumps	Air-cooled, pkg (1phase)	NA: Load Controls	154.03	11.5	0	173.83	10	-108.54	193.92
VHP-1 / HPAC-1	Unitary Heat Pumps	Air-cooled, pkg (1phase)	NA: Load Controls	154.03	11.5	0	173.82	10	-122.51	189.69
VHP-1 / HPAC-1	Unitary Heat Pumps	Air-cooled, pkg (1phase)	NA: Load Controls	154.03	11.5	0	173.81	10	-126.3	188.52
VHP-1 / HPAC-1	Unitary Heat Pumps	Air-cooled, pkg (1phase)	NA: Load Controls	154.03	11.5	0	173.87	10	-114.85	208.45

FOOTNOTES: Equipment shall be the smallest size, within the available options of the desired equipment line, necessary to meet the design heating and cooling loads of the building per §140.4(a). Healthcare facilities are exempt.
² It is common practice to show rated output capacity on the equipment schedule. Sensible cooling output comes from specification sheet tables.
³ If equipment is heating only, leave cooling output and load blank. If equipment is cooling only, leave heating output and load blank.
⁴ Authority Having Jurisdiction may ask for load calculations used for compliance per §140.4(b).

Registration Number: Registration Date/Time: Registration Provider: Energysoft
 CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance Report Version: 2019.1.003 Schema Version: rev 20200601 Report Generated: 2021-10-04 17:25:12

STATE OF CALIFORNIA
Mechanical Systems
 CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE NRCC-MCH-E
 Project Name: JAIME-001 Report Page: (Page 4 of 20)
 Project Address: 2853 WEST BLVD Date Prepared: 10/4/2021

F. HVAC SYSTEM SUMMARY (DRY & WET SYSTEMS)
 Dry System Equipment Efficiency (other than Package Terminal Air Conditioners (PTAC) and Package Terminal Heat Pumps (PTHP))

Dry System Equipment Efficiency (other than Package Terminal Air Conditioners (PTAC) and Package Terminal Heat Pumps (PTHP))										
01	02	03	04	05	06	07	08	09		
Name or Item Tag	Size Category (Btu/h)	Rating Condition ("F)	Efficiency Unit	Design Efficiency	Efficiency Unit	Design Efficiency	Minimum Efficiency Required per Tables 110.2 / Title 20	Minimum Efficiency Required per Tables 110.2 / Title 20	Heating Mode	
									Minimum Efficiency Required per Tables 110.2 / Title 20	Design Efficiency
HP-1 / VRF-1 / VRF-2	<65,000	47 °Fdb/43 °Fwb OSA	HSPF	10	SEER	13.0	7.7	10	18.6	
VHP-1 / HPAC-1	<65,000		HSPF	13	SEER	14.0	7.7	13	14	
VHP-1 / HPAC-1	<65,000		HSPF	13	SEER	14.0	7.7	13	14	
VHP-1 / HPAC-1	<65,000		HSPF	13	SEER	14.0	7.7	13	14	

G. PUMPS
 This section does not apply to this project.

H. FAN SYSTEMS & AIR ECONOMIZERS
 This table is used to demonstrate compliance with prescriptive requirements found in §140.4(c), §140.4(e) and §140.4(m) for fan systems. Fan systems serving only process loads are exempt from these requirements and do not need to be included in Table H.

System Name:	HP-1 / VRF-1 / VRF-2	Economizer: ¹	NA: <=54 kBtu/h cooling	Economizer Controls:	Designed per §140.4(e) and (m)	System Fan Type:	Constant Volume
01	02	03	04	05	06	07	08
Fan Name or Item Tag	Fan Function	Qty	Maximum Design Supply Airflow (CFM)	HP Unit ²	Design HP	Fan Power Pressure Drop Adjustment - Table 140.4-B Device	Design Airflow through Device (CFM)
Total System Design Supply Airflow (CFM):			0	Total System Design (BHP):		0	0

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H. FAN SYSTEMS & AIR ECONOMIZERS

System Name:	VHP-1 / HPAC-1	Economizer: ¹	NA: <=54 kBtu/h cooling	Economizer Controls:	Designed per §140.4(e) and (m)	System Fan Type:	Constant Volume
01	02	03	04	05	06	07	08
Fan Name or Item Tag	Fan Function	Qty	Maximum Design Supply Airflow (CFM)	HP Unit ²	Design HP	Fan Power Pressure Drop Adjustment - Table 140.4-B Device	Design Airflow through Device (CFM)
Total System Design Supply Airflow (CFM):			4352	Total System Design (BHP):		38.4	0.26

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H. FAN SYSTEMS & AIR ECONOMIZERS

System Name:	VHP-1 / HPAC-1	Economizer: ¹	NA: <=54 kBtu/h cooling	Economizer Controls:	Designed per §140.4(e) and (m)	System Fan Type:	Constant Volume
01	02	03	04	05	06	07	08
Fan Name or Item Tag	Fan Function	Qty	Maximum Design Supply Airflow (CFM)	HP Unit ²	Design HP	Fan Power Pressure Drop Adjustment - Table 140.4-B Device	Design Airflow through Device (CFM)
Total System Design Supply Airflow (CFM):			4352	Total System Design (BHP):		38.4	0.26

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I. SYSTEM CONTROLS
 This table is used to demonstrate compliance with mandatory controls in §110.2 and §120.2 and prescriptive controls in §140.4(f) and (n) or requirements in §141.0(b)(2) for altered space conditioning systems.

01	02	03	04	05	06	07	08	09
System Name	System Zoning	Conditioned Floor Area Being Served (ft ²)	Thermostats §110.2(b) & (c) ¹ , §120.2(a)(or §141.0(b)(2)	Shut-Off Controls §120.2(a)	Isolation Zone Controls §120.2(a)	Demand Response §110.12 and §120.2(b)	Supply Air Temp. Reset §140.4(f)	Window Interlocks per §140.4(n)
HP-1 / VRF-1 / VRF-2	Multi-zone w/ DDC to zone	<= 25,000 ft ²	Setback	Auto Timer Switch	4 Hour Timer	EMCS	Included	Provided
VHP-1 / HPAC-1	Single zone	<= 25,000 ft ²	Setback	Auto Timer Switch	4 Hour Timer	EMCS	Included	Provided
VHP-1 / HPAC-1	Single zone	<= 25,000 ft ²	Setback	Auto Timer Switch	4 Hour Timer	EMCS	Included	Provided
VHP-1 / HPAC-1	Single zone	<= 25,000 ft ²	Setback	Auto Timer Switch	4 Hour Timer	EMCS	Included	Provided
VHP-1 / HPAC-1	Single zone	<= 25,000 ft ²	Setback	Auto Timer Switch	4 Hour Timer	EMCS	Included	Provided
VHP-1 / HPAC-1	Single zone	<= 25,000 ft ²	Setback	Auto Timer Switch	4 Hour Timer	EMCS	Included	Provided

FOOTNOTES: Gravity gas wall heaters, gravity floor heaters, gravity room heaters, non-central electric heaters, fireplaces or decorative gas appliances, wood stoves are not required to have setback thermostats.
¹ Notes: Controls with a * require a note in the space below explaining how compliance is achieved. EX: system 1: SA Temp Reset: Exempt because zones compliant with §140.4(f); EXCEPTION 1 to §140.4(f)

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J. VENTILATION AND INDOOR AIR QUALITY
 This table is used to demonstrate compliance with mandatory ventilation requirements in §120.1 and §120.2(a)(3) for all nonresidential, high-rise residential and hotel/motel occupancies. For alterations, only ventilation systems being altered within the scope of the permit application need to be documented in this table. In lieu of this table, the required outdoor ventilation rates and airflow may be shown on the plans or the calculations can be presented in a spreadsheet.

01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16
System Name	HP-1 / VRF-1 / VRF-2	System Design OA CFM Airflow ¹	819	System Design Transfer Air CFM	0	Air Filtration per §120.1(c) and §141.0(b)(2) ²	Provided per §120.1(c) (NR and Hotel/Motel)	DCV or Sensor Controls per §120.1(d)(3), §120.1(d)(5), and §120.1(e)(3) ⁵	Occupancy Type ⁴	Conditioned Floor Area (ft ²)	# of Shower heads/ toilets	# of people ³	Required Min OA CFM	Required Min CFM	Provided per Design CFM
LOBBY / COMMON AREAS	Lobbies	1103		551.5	0			DCV	Provided per §120.1(d)(4)						NA: Not required space type
MECH / ELEC ROOMS	All others	348		0	0			DCV	NA: Not required per §120.1(d)(3)						NA: Not required space type
CORRIDORS / LOBBY (2F)	Corridor	446		66.9	0			DCV	Provided per §120.1(d)(4)						NA: Not required space type

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J. VENTILATION AND INDOOR AIR QUALITY

01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	
System Name	VHP-1 / HPAC-1	System Design OA CFM Airflow ¹	0	System Design Transfer Air CFM	0	Air Filtration per §120.1(c) and §141.0(b)(2) ²	Provided per §120.1(c) (NR and Hotel/Motel)	DCV or Sensor Controls per §120.1(d)(3), §120.1(d)(5), and §120.1(e)(3) ⁵	Occupancy Type ⁴	Conditioned Floor Area (ft ²)	# of Shower heads/ toilets	# of people ³	Required Min OA CFM	Required Min CFM	Provided per Design CFM	
CORRIDORS / LOBBY (3F)	Corridor	446		66.9	0			DCV	NA: Not required per §120.1(d)(3)						NA: Not required space type	
CORRIDORS / LOBBY (4F)	Corridor	446		66.9	0			DCV	NA: Not required per §120.1(d)(3)						NA: Not required space type	
CORRIDORS / LOBBY (5F)	Corridor	446		66.9	0			DCV	NA: Not required per §120.1(d)(3)						NA: Not required space type	
17 Total System Required Min OA CFM 819 18 Ventilation for this System Complies? Yes																
UNIT 1 (2F)	All others	1395		0	0			DCV	Provided per §120.1(d)(4)						NA: Not required space type	
UNIT 2 (2F)	All others	798		0	0			DCV	Provided per §120.1(d)(4)						NA: Not required space type	

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J. VENTILATION AND INDOOR AIR QUALITY

01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	
System Name	VHP-1 / HPAC-1	System Design OA CFM Airflow ¹	0	System Design Transfer Air CFM	0	Air Filtration per §120.1(c) and §141.0(b)(2) ²	Provided per §120.1(c) (NR and Hotel/Motel)	DCV or Sensor Controls per §120.1(d)(3), §120.1(d)(5), and §120.1(e)(3) ⁵	Occupancy Type ⁴	Conditioned Floor Area (ft ²)	# of Shower heads/ toilets	# of people ³	Required Min OA CFM	Required Min CFM	Provided per Design CFM	
UTILITY ROOMS (2F)	All others	98		0	0			DCV	NA: Not required per §120.1(d)(3)						NA: Not required space type	
17 Total System Required Min OA CFM 0 18 Ventilation for this System Complies? Yes																
UNIT 3 (2F)	All others	903		0	0			DCV	Provided per §120.1(d)(4)						NA: Not required space type	
UNIT 4 (2F)	All others	798		0	0			DCV	Provided per §120.1(d)(4)						NA: Not required space type	
UNIT 5 (2F)	All others	801		0	0			DCV	Provided per §120.1(d)(4)						NA: Not required space type	
UNIT 1 (3F)	All others	1395		0	0			DCV	Provided per §120.1(d)(4)						NA: Not required space type	

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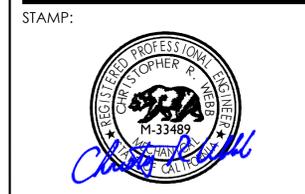
J. VENTILATION AND INDOOR AIR QUALITY

01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	
System Name	VHP-1 / HPAC-1	System Design OA CFM Airflow ¹	0	System Design Transfer Air CFM	0	Air Filtration per §120.1(c) and §141.0(b)(2) ²	Provided per §120.1(c) (NR and Hotel/Motel)	DCV or Sensor Controls per §120.1(d)(3), §120.1(d)(5), and §120.1(e)(3) ⁵	Occupancy Type ⁴	Conditioned Floor Area (ft ²)	# of Shower heads/ toilets	# of people ³	Required Min OA CFM	Required Min CFM	Provided per Design CFM	
UTILITY ROOMS (3F)	All others	98		0	0			DCV	NA: Not required per §120.1(d)(3)						NA: Not required space type	
17 Total System Required Min OA CFM 0 18 Ventilation for this System Complies? Yes																
UNIT 2 (3F)	All others	798		0	0			DCV	Provided per §120.1(d)(4)						NA: Not required space type	
UNIT 3 (3F)	All others	903		0	0			DCV	Provided per §120.1(d)(4)						NA: Not required space type	
UNIT 4 (3F)	All others	798		0	0			DCV	Provided per §120.1(d)(4)						NA: Not required space type	
UNIT 5 (3F)	All others	801		0	0			DCV	Provided per §120.1(d)(4)						NA: Not required space type	
UNIT 1 (4F)	All others	1395		0	0			DCV	Provided per §120.1(d)(4)						NA: Not required space type	

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CLIENT:
JAIME PARTNERS OF CALIFORNIA, INC.
 1050 S. FLOWER STREET
 LOS ANGELES, CA 90015

PROJECT:
2853 WEST BLVD
 LOS ANGELES, CA 90016

C-JAIME-001

#	DESCRIPTION	DATE
	1ST SUBMITTAL	10/04/21
	UTILITY COORDINATION	04/08/22
△	PC RESUBMITTAL	05/18/22
△	PC RESUBMITTAL	10/28/22
△	HCD REVISION 1	12/16/22
△	PC RESUBMITTAL	02/02/23
△	HCD & PC RESUBMITTAL	06/06/23
△	HCD RESUBMITTAL	06/14/23
△	PC RESUBMITTAL	07/10/23
△	PC RESUBMITTAL	02/27/24

Plot Date: 3/5/2024 2:02:41 PM

SHEET TITLE:
TITLE 24 COMPLIANCE

SHEET NO:
M803

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J. VENTILATION AND INDOOR AIR QUALITY

UNIT #	Occupancy Type ⁴	Conditioned Floor Area (ft ²)	# of Shower heads/ toilets	# of people ⁵	Required Min OA CFM	Provided per Design CFM	DCV or Sensor Controls per §120.1(d)3, §120.1(d)5, and §120.1(e)3 ⁶
UNIT 1 (4F)	All others	1395		0	0	0	DCV Provided per §120.1(d)4 NA: Not required space type
UNIT 2 (4F)	All others	798		0	0	0	DCV Provided per §120.1(d)4 NA: Not required space type
UNIT 3 (4F)	All others	903		0	0	0	DCV Provided per §120.1(d)4 NA: Not required space type
UNIT 4 (4F)	All others	798		0	0	0	DCV Provided per §120.1(d)4 NA: Not required space type
UNIT 5 (4F)	All others	801		0	0	0	DCV Provided per §120.1(d)4 NA: Not required space type
UTILITY ROOMS (4F)	All others	98		0	0	0	DCV Provided per §120.1(d)4 NA: Not required space type
17	Total System Required Min OA CFM			0	18		Ventilation for this System Complies? Yes

System Name: VHP-1 / HPAC-1 System Design OA CFM Airflow¹: 0 System Design Transfer Air CFM: 0
 Air Filtration per §120.1(c) and §141.0(b)2²: Provided per §120.1(c) (NR and Hotel/Motel)

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J. VENTILATION AND INDOOR AIR QUALITY

Space Name or Item Tag	Occupancy Type ⁴	Conditioned Floor Area (ft ²)	# of Shower heads/ toilets	# of people ⁵	Required Min OA CFM	Provided per Design CFM	DCV or Sensor Controls per §120.1(d)3, §120.1(d)5, and §120.1(e)3 ⁶
UNIT 1 (5F)	All others	1395		0	0	0	DCV Provided per §120.1(d)4 NA: Not required space type
UNIT 2 (5F)	All others	798		0	0	0	DCV Provided per §120.1(d)4 NA: Not required space type
UNIT 3 (5F)	All others	903		0	0	0	DCV Provided per §120.1(d)4 NA: Not required space type
UNIT 4 (5F)	All others	798		0	0	0	DCV Provided per §120.1(d)4 NA: Not required space type
UNIT 5 (5F)	All others	801		0	0	0	DCV Provided per §120.1(d)4 NA: Not required space type
UTILITY ROOMS (5F)	All others	98		0	0	0	DCV Provided per §120.1(d)4 NA: Not required space type
17	Total System Required Min OA CFM			0	18		Ventilation for this System Complies? Yes

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J. VENTILATION AND INDOOR AIR QUALITY

System Name	VHP-1 / HPAC-1	System Design OA CFM Airflow ¹	0	System Design Transfer Air CFM	0	Air Filtration per §120.1(c) and §141.0(b)2 ²		
08	09	10	11	12	13	14	15	16
UNIT 1 (6F)	All others	798		0	0	0	DCV Provided per §120.1(d)4 NA: Not required space type	
UNIT 2 (6F)	All others	799		0	0	0	DCV Provided per §120.1(d)4 NA: Not required space type	
UTILITY ROOMS (6F)	All others	98		0	0	0	DCV Provided per §120.1(d)4 NA: Not required space type	
17	Total System Required Min OA CFM			0	18		Ventilation for this System Complies? Yes	

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J. VENTILATION AND INDOOR AIR QUALITY

⁴ §120.2(a)(3) requires systems serving rooms that are required by §120.1(c) to have lighting occupancy sensing controls to also have occupancy sensing zone controls for ventilation. Examples of spaces which require lighting occupancy sensors include offices 250² or smaller, multipurpose rooms less than 1,000 ft², classrooms, conference rooms, restrooms, aisles and open areas in warehouses, library book stack aisles, corridors, stairwells, parking garages, and loading and unloading zones, unless excepted by §120.1(c).

K. TERMINAL BOX CONTROLS
 This section does not apply to this project.

L. DISTRIBUTION (DUCTWORK AND PIPING)
 This table is used to show compliance with mandatory pipe insulation requirements found in §120.3 and prescriptive requirements found in §140.40 for duct leakage testing.

Duct Leakage Sealing

The answers to the questions below apply to the following duct systems:	VHP-1 / HPAC-1	Duct leakage testing triggered for these systems?	No
11	No	The scope of the project includes only duct systems serving healthcare facilities	
12	Yes	Duct system provides conditioned air to an occupiable space for a constant volume, single zone, space-conditioning system.	
13	Yes	The space conditioning system serves less than 5,000 ft ² of conditioned floor area.	
14	No	The combined surface area of the ducts in the following locations is more than 25% of the total surface area of the entire duct system:	
		<input type="checkbox"/> Outdoors	
		<input type="checkbox"/> In a space directly under a roof that has a U-factor greater than the u-factor of the ceiling, or if the roof does not meet the requirements of §140.3(a)(1)B or if the roof has fixed vents or openings to the outside/unconditioned spaces	
		<input type="checkbox"/> In an unconditioned crawl space	
		<input type="checkbox"/> In other unconditioned spaces	
15		The scope of the project includes extending an existing duct system, which is constructed, insulated or sealed with asbestos.	
16		The scope of the project includes an existing duct system that is documented to have been previously sealed as confirmed through field verification and diagnostic testing in accordance with procedures in the Reference Nonresidential Appendix NA2.	
17	Yes	Duct system shall be sealed in accordance with the California Mechanical Code	

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L. DISTRIBUTION (DUCTWORK AND PIPING)

The answers to the questions below apply to the following duct systems:	VHP-1 / HPAC-1	Duct leakage testing triggered for these systems?	No
11	No	The scope of the project includes only duct systems serving healthcare facilities	
12	Yes	Duct system provides conditioned air to an occupiable space for a constant volume, single zone, space-conditioning system.	
13	Yes	The space conditioning system serves less than 5,000 ft ² of conditioned floor area.	
14	No	The combined surface area of the ducts in the following locations is more than 25% of the total surface area of the entire duct system:	
		<input type="checkbox"/> Outdoors	
		<input type="checkbox"/> In a space directly under a roof that has a U-factor greater than the u-factor of the ceiling, or if the roof does not meet the requirements of §140.3(a)(1)B or if the roof has fixed vents or openings to the outside/unconditioned spaces	
		<input type="checkbox"/> In an unconditioned crawl space	
		<input type="checkbox"/> In other unconditioned spaces	
15		The scope of the project includes extending an existing duct system, which is constructed, insulated or sealed with asbestos.	
16		The scope of the project includes an existing duct system that is documented to have been previously sealed as confirmed through field verification and diagnostic testing in accordance with procedures in the Reference Nonresidential Appendix NA2.	
17	Yes	Duct system shall be sealed in accordance with the California Mechanical Code	

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L. DISTRIBUTION (DUCTWORK AND PIPING)

The answers to the questions below apply to the following duct systems:	VHP-1 / HPAC-1	Duct leakage testing triggered for these systems?	No
11	No	The scope of the project includes only duct systems serving healthcare facilities	
12	Yes	Duct system provides conditioned air to an occupiable space for a constant volume, single zone, space-conditioning system.	
13	Yes	The space conditioning system serves less than 5,000 ft ² of conditioned floor area.	
14	No	The combined surface area of the ducts in the following locations is more than 25% of the total surface area of the entire duct system:	
		<input type="checkbox"/> Outdoors	
		<input type="checkbox"/> In a space directly under a roof that has a U-factor greater than the u-factor of the ceiling, or if the roof does not meet the requirements of §140.3(a)(1)B or if the roof has fixed vents or openings to the outside/unconditioned spaces	
		<input type="checkbox"/> In an unconditioned crawl space	
		<input type="checkbox"/> In other unconditioned spaces	
15		The scope of the project includes extending an existing duct system, which is constructed, insulated or sealed with asbestos.	
16		The scope of the project includes an existing duct system that is documented to have been previously sealed as confirmed through field verification and diagnostic testing in accordance with procedures in the Reference Nonresidential Appendix NA2.	
17	Yes	Duct system shall be sealed in accordance with the California Mechanical Code	

M. COOLING TOWERS
 This section does not apply to this project.

N. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION
 Selections have been made based on information provided in previous tables of this document. If any selection needs to be changed, please explain why in Table E Additional Remarks. These documents must be provided to the building inspector during construction and can be found online at https://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCL/

Yes	No	Form/Title	Field Inspector	
			Pass	Fail
<input checked="" type="checkbox"/>	<input type="checkbox"/>	NRCC-MCH-01-E - Must be submitted for all buildings	<input type="checkbox"/>	<input type="checkbox"/>

Registration Number: CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance
 Registration Date/Time: Report Version: 2019.1.003 Schema Version: rev 20200601
 Registration Provider: Energysoft Report Generated: 2021-10-04 17:25:12

STATE OF CALIFORNIA
Mechanical Systems
 NRCC-MCH-E CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE NRCC-MCH-E
 Project Name: JAIME-001 Report Page: (Page 18 of 20)
 Project Address: 2853 WEST BLVD Date Prepared: 10/4/2021

O. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE
 Selections have been made based on information provided in previous tables of this document. If any selection needs to be changed, please explain why in Table E Additional Remarks. These documents must be provided to the building inspector during construction and can be found online at https://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCA/

Yes	No	Form/Title	Systems To Be Field Verified	Field Inspector	
				Pass	Fail
<input checked="" type="checkbox"/>	<input type="checkbox"/>	NRCA-MCH-02-A - Outdoor Air must be submitted for all newly installed HVAC units. Note: MCH-02-A can be performed in conjunction with MCH-07-A Supply Fan VFD Acceptance (if applicable) since testing activities overlap.		<input type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	NRCA-MCH-03-A - Constant Volume Single Zone HVAC NOTE: This form does not automatically move to "Yes" if Constant Volume Single Zone HVAC Systems are included in the scope, permit applicant should move this form to "Yes".		<input type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	NRCA-MCH-04-A - Air Distribution Duct Leakage		<input type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	NRCA-MCH-05-A - Air Economizer Controls		<input type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	NRCA-MCH-06-A Demand Control Ventilation Systems must be submitted for all systems required to employ demand controlled ventilation (refer to §120.1(c)(3)) can vary outside ventilation flow rates based on maintaining interior carbon dioxide (CO ₂) concentration setpoints.		<input type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	NRCA-MCH-07-A Supply Fan Variable Flow Controls		<input type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	NRCA-MCH-08-A Valve Leakage Test		<input type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	NRCA-MCH-09-A Supply Water Temperature Reset Controls		<input type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	NRCA-MCH-10-A Hydronic System Variable Flow Controls		<input type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	NRCA-MCH-11-A Automatic Demand Shed Controls		<input type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	NRCA-MCH-12-A FDD for Packaged Direct Expansion Units		<input type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	NRCA-MCH-13-A Automatic FDD for Air Handling Units and Zone Terminal Units Acceptance		<input type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	NRCA-MCH-14-A Distributed Energy Storage DX AC Systems Acceptance NOTE: This form does not automatically move to "Yes". If Distributed Energy System DX AC Systems are included in the scope permit applicant should move this form to "Yes".		<input type="checkbox"/>	<input type="checkbox"/>

Registration Number: CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance
 Registration Date/Time: Report Version: 2019.1.003 Schema Version: rev 20200601
 Registration Provider: Energysoft Report Generated: 2021-10-04 17:25:12

STATE OF CALIFORNIA
Mechanical Systems
 NRCC-MCH-E CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE NRCC-MCH-E
 Project Name: JAIME-001 Report Page: (Page 19 of 20)
 Project Address: 2853 WEST BLVD Date Prepared: 10/4/2021

O. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

Yes	No	Form/Title	Field Inspector	
			Pass	Fail
<input checked="" type="checkbox"/>	<input type="checkbox"/>	NRCA-MCH-15-A Thermal Energy Storage (TES) System Acceptance NOTE: This form does not automatically move to "Yes". If Chilled water Storage, Ice-on-Coil Internal Melt, Ice-on-Coil External melt, Ice Harvested, Brine, Ice Slurry, Eutectic Salt, Caltrate Hydrate Slurry (CHS), Cryogenic or Encapsulated (Ice Ball) Systems are included in the scope, permit applicant should move this form to "Yes".	<input type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	NRCA-MCH-16-A Supply Air Temperature Reset Controls	<input type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	NRCA-MCH-17-A Condenser Water Temperature Reset Controls	<input type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	NRCA-MCH-18-A Energy Management Control Systems	<input type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	NRCA-MCH-19-A Occupancy Sensor Controls	<input type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	NRCA-MCH-20 Multi-Family Ventilation	<input type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	NRCA-MCH-21 Multi-Family Envelope Leakage	<input type="checkbox"/>	<input type="checkbox"/>

P. DECLARATION OF REQUIRED CERTIFICATES OF VERIFICATION
 Selections have been made based on information provided in previous tables of this document. If any selection needs to be changed, please explain why in Table E Additional Remarks. These documents must be completed by a HERS Rater and provided to the building inspector during construction. The final documents must be created by a HERS Provider's registry, but drafts can be found online at https://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCLV/

Yes	No	Form/Title	Field Inspector	
			Pass	Fail
<input checked="" type="checkbox"/>	<input type="checkbox"/>	NRCLV-MCH-04-H Duct Leakage Test NOTE: Must be completed by a HERS Rater	<input type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	NRCLV-MCH-24 Enclosure Air Leakage Worksheet NOTE: Must be completed by a HERS Rater	<input type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	NRCLV-MCH-27 High-rise Residential NOTE: Must be completed by a HERS Rater	<input type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	NRCLV-MCH-32 Local Mechanical Exhaust NOTE: Must be completed by a HERS Rater	<input type="checkbox"/>	<input type="checkbox"/>

Q. MANDATORY MEASURES DOCUMENTATION LOCATION
 This table is used to indicate where mandatory measures are documented in the plan set or construction documentation.

01	02
Compliance with Mandatory Measures documented through MCH Mandatory Measures Note Block	Yes Plan sheet or construction document location M-Sheets

Registration Number: CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance
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STATE OF CALIFORNIA
Mechanical Systems
 NRCC-MCH-E CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE NRCC-MCH-E
 Project Name: JAIME-001 Report Page: (Page 20 of 20)
 Project Address: 2853 WEST BLVD Date Prepared: 10/4/2021

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

Documentation Author Name: Christopher Webb
 Signature Date: 2021-10-04
 Company: National Engineering & Consulting, Inc.
 Address: 30 Thomas
 City/State/Zip: Irvine, CA 92618
 Phone: (949) 716-9990

RESPONSIBLE PERSON'S DECLARATION STATEMENT
 I certify the following under penalty of perjury, under the laws of the State of California:
 1. The information provided on this Certificate of Compliance is true and correct.
 2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer).
 3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.
 4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.
 5. I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the building provides to the building owner at occupancy.

Responsible Designer Name: Christopher Webb
 Signature Date: 2021-10-04
 Company: National Engineering & Consulting, Inc.
 Address: 30 Thomas
 City/State/Zip: Irvine, CA 92618
 Phone: (949) 716-9990

Registration Number: CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance
 Registration Date/Time: Report Version: 2019.1.003 Schema Version: rev 20200601
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NATIONAL
 ENGINEERING & CONSULTING, INC.
 30 THOMAS, IRVINE, CA 92618-2703
 PHONE: (949) 716-9990 | FAX: (949) 716-9997

STAMP:


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CLIENT:
JAIME PARTNERS OF CALIFORNIA, INC.
 1050 S. FLOWER STREET
 LOS ANGELES, CA 90015

PROJECT:
2853 WEST BLVD
 LOS ANGELES, CA 90016

C-JAIME-001

#	DESCRIPTION	DATE
	1ST SUBMITTAL	10/04/21
	UTILITY COORDINATION	04/08/22
△	PC RESUBMITTAL	05/18/22
△	PC RESUBMITTAL	10/28/22
△	HCD REVISION 1	12/16/22
△	PC RESUBMITTAL	02/02/23
△	HCD & PC RESUBMITTAL	06/06/23
△	HCD RESUBMITTAL	06/14/23
△	PC RESUBMITTAL	07/10/23
△	PC RESUBMITTAL	02/27/24

Plot Date: 3/5/2024 2:02:29 PM

SHEET TITLE:
TITLE 24 COMPLIANCE

SHEET NO:
M804



NATIONAL
ENGINEERING & CONSULTING, INC
30 THOMAS, IRVINE, CA 92618-2703
PHONE: (949) 716-9990 | FAX: (949) 716-9997

STAMP:



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CLIENT:
JAIME PARTNERS OF CALIFORNIA, INC.
1050 S. FLOWER STREET
LOS ANGELES, CA 90015

PROJECT:
2853 WEST BLVD
LOS ANGELES, CA 90016

C-JAIME-001		
#	DESCRIPTION	DATE
	1ST SUBMITTAL	10/04/21
	UTILITY COORDINATION	04/08/22
△	PC RESUBMITTAL	05/18/22
△	PC RESUBMITTAL	10/28/22
△	HCD REVISION 1	12/16/22
△	PC RESUBMITTAL	02/02/23
△	HCD & PC RESUBMITTAL	06/06/23
△	HCD RESUBMITTAL	06/14/23
△	PC RESUBMITTAL	07/10/23
△	PC RESUBMITTAL	02/27/24

Plot Date: 3/5/2024 2:02:59 PM

SHEET TITLE:

TITLE 24 COMPLIANCE

SHEET NO:

M805

STATE OF CALIFORNIA
Domestic Water Heating System
NRC-PLB-E CALIFORNIA ENERGY COMMISSION NRC-PLB-E

CERTIFICATE OF COMPLIANCE (Page 3 of 7)
Project Name: JAIME-001 Report Page: (Page 3 of 7)
Project Address: 2853 WEST BLVD Date Prepared: 10/4/2021

F. DOMESTIC HOT WATER EQUIPMENT
This table is used to demonstrate compliance with mandatory equipment requirements in §110.1 and §110.3. For high-rise residential and hotel/motel occupancies, compliance with prescriptive requirements in §150.1(c)(8) must also be demonstrated and with §150.2 for addition and alteration scopes.

01	02	03	04	05	06
Name or Item Tag	Equipment Type	Volume (gal)	Max GPM/ First Hour Rating (FHR)	Rated Uniform Energy Factor (UEF)	Minimum Required Uniform Energy Factor (UEF) ¹
A.O. SMITH PWH-1250NP	Residential-Duty Commercial Gas-Fired Storage (75,000-105,000 BTUH)	>75	GPM >= 4.0	0.82	-0.41

¹FOOTNOTE: Compliant equipment may be found in the Modernized Appliance Efficiency Database System (MAEDBS) on the Energy Commission website: <https://aces.certaplaces.energy.ca.gov/Pages/Search/AdvancedSearch.aspx>

Water Heating Equipment All Occupancies

	Yes	No	Not Applicable	Requirement
18	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Unfired storage tank insulation shall have Internal + External >=R-16 OR External >=R-12. Label required per §110.3(c)(3)
19	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	New state buildings 60% of energy for service water heating from site solar energy or recovered energy per §110.3(c)(5)
20	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Isolation valves for instantaneous water heater with input rating <= 8 kBTUH or 2 kW has been specified per §110.3(c)(6)

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Registration Provider: Energysoft Report Generated: 2021-10-04 17:25:12

STATE OF CALIFORNIA
Domestic Water Heating System
NRC-PLB-E CALIFORNIA ENERGY COMMISSION NRC-PLB-E

CERTIFICATE OF COMPLIANCE (Page 6 of 7)
Project Name: JAIME-001 Report Page: (Page 6 of 7)
Project Address: 2853 WEST BLVD Date Prepared: 10/4/2021

J. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE
There are no Certificates of Acceptance applicable to service water heating requirements.

K. DECLARATION OF REQUIRED CERTIFICATES OF VERIFICATION
Selections have been made based on information provided in this document. If any selection have been changed by permit applicant, an explanation should be included in Table E. Additional Remarks: These documents must be completed by a HERS Rater and provided to the building inspector during construction. The final documents must be created by a HERS Providers registry, but drafts can be found online at https://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRC/

Yes	No	Form/Title	Field Inspector	
			Pass	Fail
<input checked="" type="checkbox"/>	<input type="checkbox"/>	NRCV-PLB-21-H High-rise Residential Central Hot Water Distribution HERS Verification	<input type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	NRCV-PLB-22-H High-rise Residential Individual Dwelling Unit Hot Water Distribution HERS Verification	<input type="checkbox"/>	<input type="checkbox"/>

Registration Number: CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance
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STATE OF CALIFORNIA
Domestic Water Heating System
NRC-PLB-E CALIFORNIA ENERGY COMMISSION NRC-PLB-E

CERTIFICATE OF COMPLIANCE (Page 7 of 7)
Project Name: JAIME-001 Report Page: (Page 7 of 7)
Project Address: 2853 WEST BLVD Date Prepared: 10/4/2021

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

Documentation Author Name: Christopher Webb
Company: National Engineering & Consulting, Inc.
Address: 30 Thomas Irvine, CA 92618
City/State/Zip: Irvine, CA 92618
Phone: (949) 716-9990

Documentation Author Signature: *Christopher Webb*
Signature Date: 2021-10-04
ES&H HERS Certification Identification (if applicable): BD43-009A-BE1F-87D9-5A73-54D5-D438-7798-81AF-5D9D-2A75-0955-6C99-1F9B-3987-8B09

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.
- I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer).
- The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.
- The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.
- I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy.

Responsible Designer Name: Christopher Webb
Company: National Engineering & Consulting, Inc.
Address: 30 Thomas Irvine, CA 92618
City/State/Zip: Irvine, CA 92618
Phone: (949) 716-9990

Responsible Designer Signature: *Christopher Webb*
Date Signed: 2021-10-04
License: M-33489

Registration Number: CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance
Registration Date/Time: Report Version: 2019.1.003 Schema Version: rev 20190401
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STATE OF CALIFORNIA
Domestic Water Heating System
NRC-PLB-E CALIFORNIA ENERGY COMMISSION NRC-PLB-E

CERTIFICATE OF COMPLIANCE (Page 2 of 7)
Project Name: JAIME-001 Report Page: (Page 2 of 7)
Project Address: 2853 WEST BLVD Date Prepared: 10/4/2021

C. COMPLIANCE RESULTS
Table C will indicate if the project data input into the compliance document is compliant with water heating requirements. If this table says "DOES NOT COMPLY" or "COMPLIES WITH EXCEPTIONAL CONDITIONS" refer to Table D, or the table indicated as not compliant for guidance.

01	02	03	04
Domestic Hot Water Equipment	Distribution Systems	Controls	Compliance Results
Table F	Table G	Table H	
Yes	Yes	Yes	COMPLIES

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

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

Registration Number: CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance
Registration Date/Time: Report Version: 2019.1.003 Schema Version: rev 20190401
Registration Provider: Energysoft Report Generated: 2021-10-04 17:25:12

STATE OF CALIFORNIA
Domestic Water Heating System
NRC-PLB-E CALIFORNIA ENERGY COMMISSION NRC-PLB-E

CERTIFICATE OF COMPLIANCE (Page 5 of 7)
Project Name: JAIME-001 Report Page: (Page 5 of 7)
Project Address: 2853 WEST BLVD Date Prepared: 10/4/2021

H. DOMESTIC HOT WATER CONTROLS
This table is used to demonstrate compliance with control requirements in §110.3 for all occupancies. For high-rise residential and hotel/motel occupancies, compliance is also demonstrated with requirements in §150.1(c)(8).

	Yes	No	Not Applicable	Requirement
01	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Construction documents require manufacturer certification that service water-heating systems are equipped with automatic temperature controls capable of adjusting temperature settings per §110.3(a).
02	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Systems with capacity > 167,000 BTUH equipped with outlet temperature controls per §110.3(c)(1) unless covered by California Plumbing Code 613.0.
03	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Controls for circulating pumps or electrical heat trace systems are capable of automatically turning off the system per §110.3(a)(2) unless systems serve healthcare facility.
04	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	For recirculation systems serving multiple dwelling units, design includes automatic pump controls per §150.1(c)(8)(ii), or §150.2 for additions or alterations.
05	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	For recirculation systems serving individual dwelling units, design includes manual on/off controls as specified in Reference Appendix RA4.4.9 per §150.1(c)(8).
06	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	For replacement single heat pump water heaters serving individual dwelling units in climate zone 1-15, design includes communication interface that meets demand responsive control requirements of §110.1(a)(a) per §150.2(b)(1)(ii).

I. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION
Selections have been made based on information provided in this document. If any selection have been changed by permit applicant, an explanation should be included in Table E. Additional Remarks: These documents must be provided to the building inspector during construction and can be found online at https://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRC/

Yes	No	Form/Title	Field Inspector	
			Pass	Fail
<input checked="" type="checkbox"/>	<input type="checkbox"/>	NRCI-PLB-01-E - Must be submitted for all buildings	<input type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	NRCI-PLB-02-E - Must be submitted for high-rise residential and hotel/motel central hot water distribution systems to be recognized for compliance.	<input type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	NRCI-PLB-03-E - Must be submitted for high-rise residential and hotel/motel single dwelling unit hot water distribution systems to be recognized for compliance.	<input type="checkbox"/>	<input type="checkbox"/>

Registration Number: CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance
Registration Date/Time: Report Version: 2019.1.003 Schema Version: rev 20190401
Registration Provider: Energysoft Report Generated: 2021-10-04 17:25:12

STATE OF CALIFORNIA
Domestic Water Heating System
NRC-PLB-E CALIFORNIA ENERGY COMMISSION NRC-PLB-E

CERTIFICATE OF COMPLIANCE (Page 1 of 7)
Project Name: JAIME-001 Report Page: (Page 1 of 7)
Project Address: 2853 WEST BLVD Date Prepared: 10/4/2021

A. GENERAL INFORMATION

01 Project Location (city)	LOS ANGELES	02 Climate Zone	8
----------------------------	-------------	-----------------	---

03 Occupancy Types Within Project (select all that apply):
 Nonresidential High-Rise Residential Hotel/Motel
 State Building Healthcare Facility Other (Write In)

B. PROJECT SCOPE
This table includes domestic water heating systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive paths outlined in §140.5, §150.1(c)(8), and §141.0(a), or §141.0(b)(2) for additions or alterations. Solar water heating systems are documented on the NRC-SCA compliance document. Combined hydronic water heating systems are documented on the NRC-MCH compliance document.

01	02	03
My project consists of (check all that apply):	System Type ^{1,2}	System Components
<input checked="" type="checkbox"/> New system (DHW system being installed for the first time in newly constructed building)	Individual System (serving nonresidential spaces)	<input checked="" type="checkbox"/> Equipment <input checked="" type="checkbox"/> Distribution <input checked="" type="checkbox"/> Controls
<input type="checkbox"/> System Alteration (equipment, distribution or controls)		<input type="checkbox"/> Equipment <input type="checkbox"/> Distribution <input type="checkbox"/> Controls

¹FOOTNOTES: Point of use water heaters, or other non-central systems used to serve nonresidential spaces, are considered individual systems.
² Dwelling units refers to hotel/motel guest rooms and units in a high-rise residential occupancy.

Registration Number: CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance
Registration Date/Time: Report Version: 2019.1.003 Schema Version: rev 20190401
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STATE OF CALIFORNIA
Domestic Water Heating System
NRC-PLB-E CALIFORNIA ENERGY COMMISSION NRC-PLB-E

CERTIFICATE OF COMPLIANCE (Page 4 of 7)
Project Name: JAIME-001 Report Page: (Page 4 of 7)
Project Address: 2853 WEST BLVD Date Prepared: 10/4/2021

G. DOMESTIC HOT WATER DISTRIBUTION SYSTEM
This table is used to demonstrate compliance for nonresidential occupancies with distribution requirements in §120.3 and §140.5. For high-rise residential and hotel/motel occupancies, compliance is demonstrated with requirements §110.3(c), §120.3, §150.0, §150.1

Mandatory Pipe Insulation All Occupancies

	Yes	No	Not Applicable	Requirement
12	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	For systems serving nonresidential spaces, pipe insulation for the following applications is specified to comply with Table 120.3-A (see below) per §120.3: <ul style="list-style-type: none"> Recirculating system piping, including supply and return piping of the water heater The first 8 ft of hot and cold outlet piping, including between storage tank and heat trap, for a nonrecirculating storage system Pipes that are externally heated
13	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Insulation shall be protected from damage, including that due to sunlight, moisture, equipment maintenance, and wind. Insulation exposed to weather shall be installed with a cover suitable for outdoor service per §120.3(b) and §150.0(i)(3)

TABLE 120.3-A PIPE INSULATION THICKNESS

Fluid Temperature Range (°F)	Conductivity Range (BTU-in per hour per ft² per °F)	Insulation Mean Rating Temp (°F)	Nominal Pipe Diameter (in)		
			< 1	1 to < 1.5	1.5 to < 4
105-140	0.22 - 0.28	100	1.0 In or R-7.7	1.5 In or R-12.5	1.5 In or R-11

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STATE OF CALIFORNIA
Domestic Water Heating System
NRC-PLB-E CALIFORNIA ENERGY COMMISSION NRC-PLB-E

CERTIFICATE OF COMPLIANCE (Page 3 of 7)
Project Name: JAIME-001 Report Page: (Page 3 of 7)
Project Address: 2853 WEST BLVD Date Prepared: 10/4/2021

F. DOMESTIC HOT WATER EQUIPMENT
This table is used to demonstrate compliance with mandatory equipment requirements in §110.1 and §110.3. For high-rise residential and hotel/motel occupancies, compliance with prescriptive requirements in §150.1(c)(8) must also be demonstrated and with §150.2 for addition and alteration scopes.

01	02	03	04	05	06
Name or Item Tag	Equipment Type	Volume (gal)	Max GPM/ First Hour Rating (FHR)	Rated Uniform Energy Factor (UEF)	Minimum Required Uniform Energy Factor (UEF) ¹
A.O. SMITH PWH-1250NP	Residential-Duty Commercial Gas-Fired Storage (75,000-105,000 BTUH)	>75	GPM >= 4.0	0.82	-0.41

¹FOOTNOTE: Compliant equipment may be found in the Modernized Appliance Efficiency Database System (MAEDBS) on the Energy Commission website: <https://aces.certaplaces.energy.ca.gov/Pages/Search/AdvancedSearch.aspx>

Water Heating Equipment All Occupancies

	Yes	No	Not Applicable	Requirement
18	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Unfired storage tank insulation shall have Internal + External >=R-16 OR External >=R-12. Label required per §110.3(c)(3)
19	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	New state buildings 60% of energy for service water heating from site solar energy or recovered energy per §110.3(c)(5)
20	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Isolation valves for instantaneous water heater with input rating <= 8 kBTUH or 2 kW has been specified per §110.3(c)(6)

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