

EQUIPMENT SYMBOLS

	EMERGENCY POWER OFF STATION (EPO)
	PULL BOX, SIZED PER N.E.C. OR AS NOTED.
	EXHAUST FAN, OR MOTOR LOAD. REFER TO MECHANICAL, PLUMBING OR KITCHEN DRAWINGS FOR SPECIFIC LOAD REQUIREMENTS OR AS NOTED.
	TRANSFORMER - SEE PLANS FOR MORE INFORMATION.
	SERVICE ENTRANCE OR DISTRIBUTION EQUIPMENT - SEE PLANS FOR MORE INFO.
	HP-RATED FUSED DISCONNECT SWITCH. SEE MOTORIZED EQUIPMENT SCHEDULE FOR SIZE.
	HP-RATED COMBINATION STARTER/DISCONNECT SWITCH. REFER TO MOTORIZED EQUIPMENT SCHEDULE STARTED AND DISCONNECT SIZES.
	HP-RATED NON-FUSED DISCONNECT SWITCH. REFER TO MOTORIZED EQUIPMENT SCHEDULE FOR DISCONNECT AND STARTER SIZES.
	ELECTRICAL PANELBOARD OR LOAD CENTER. REFER TO PLANS IF SHOWN AS SURFACE- OR RECESSED-MOUNTED.
	CIRCUIT BREAKER - SEE SINGLE-LINE DIAGRAM FOR MORE INFO.
	UTILITY COMPANY METER OR EMON/DMON METER WITH "CTS" AND "PTS" AS REQUIRED. SEE SINGLE-LINE DIAGRAM FOR MORE INFO.
	FUSED SWITCH - SEE SINGLE-LINE DIAGRAM FOR MORE INFO.
	GROUND - SEE PLANS FOR MORE INFO.
	STANDARD 20A SINGLE-POLE SWITCH, WALL MOUNTED AT +48" A.F.F. MAX. a,b - DENOTES TWO SWITCHES AND THEIR RESPECTIVE CONTROL IDENTIFICATION. 3 - DENOTES 3-WAY SWITCH 4 - DENOTES 4-WAY SWITCH M - MOTOR STARTING S - PROJECTION SCREEN

FLOOR BOX SYMBOLS

	SINGLE SERVICE DEVICE IN FLOOR BOX. PROVIDE DEVICES PER PLAN.
	TWO SERVICE DEVICE IN FLOOR BOX. PROVIDE DEVICES PER PLAN.
	THREE SERVICE DEVICE IN FLOOR BOX. PROVIDE DEVICES PER PLAN.

SMOKE & CARBON MONOXIDE DETECTORS

	CEILING MOUNT SMOKE DETECTOR
	CEILING MOUNT CARBON MONOXIDE DETECTOR

ANNOTATIONS

	PANEL OR EQUIPMENT CALLOUT.
	MECHANICAL EQUIPMENT CALL OUT WHICH INDICATES TYPE OF EQUIPMENT AND UNIT NUMBER. REFER TO MECHANICAL DRAWINGS FOR LOCATION AND ELECTRICAL REQUIREMENTS.
	LIGHTING FIXTURE CALL OUT. REFER TO LIGHTING FIXTURE SCHEDULE FOR MORE INFO.
	DETAIL REFERENCE CALL OUT.
	KEY NOTE REFERENCE.
	REVISION REFERENCE.

APPLICABLE CODES & STANDARDS

- 2019 CALIFORNIA BUILDING CODE WITH STATEWIDE AMENDMENTS
- 2019 CALIFORNIA ELECTRICAL CODE WITH STATEWIDE AMENDMENTS
- 2019 CALIFORNIA ENERGY CONSERVATION CODE
- 2019 CALIFORNIA GREEN BUILDING STANDARDS
- UNDERWRITERS LABORATORIES (UL)
- 2020 LA CITY ELECTRICAL CODE

SCOPE OF WORK

PROVIDE NEW 1200A ELECTRICAL SERVICE WITH RESIDENTIAL MULTIMETER DISTRIBUTION FOR A NEW SIX-STORY RESIDENTIAL BUILDING.

BRANCH CIRCUIT

	CONDUIT CONCEALED WITHIN BUILDING WALLS OR CEILING SPACE.	/ DENOTES #12 THHN/THWN ISOLATED GROUND WIRE U.O.N. ┌ DENOTES #12 THHN/THWN EQUIPMENT GROUND WIRE U.O.N. ALL HOMERUNS AND BRANCH CIRCUITS SHALL HAVE GROUND WIRE - U.O.N.. CROSS LINE DENOTES QUANTITY OF #12 THHN/THWN CONDUCTORS - U.O.N.. NO CROSS LINE DENOTES 2#12 & 1#12G THHN/THWN CONDUCTORS - U.O.N.. CONDUIT SHALL BE 1/2" MIN. - U.O.N..
	CONDUIT ROUTED BELOW FINISHED GRADE AND / OR CONCRETE SLAB. INCLUDE CODE SIZED COPPER BOND CONDUCTOR (NOT SHOWN ON PLAN) IN ALL NON-METALLIC CONDUIT RUNS.	
	HOMERUN TO DESTINATION AS INDICATED. REFER TO CONDUIT SYMBOL ABOVE.	
	INDICATES CONDUIT DROP WITHIN BUILDING WALL. REFER TO CONDUIT SYMBOL ABOVE.	
	INDICATES CONDUIT RISER WITHIN BUILDING WALL. REFER TO CONDUIT SYMBOL ABOVE.	
	CONDUIT STUB OUT, CAP AND MARK	
	CONTINUATION	
	FLEXIBLE CONNECTION	
	LOW-VOLTAGE WIRING BETWEEN OCCUPANCY SENSORS	

LIGHTING SYMBOLS

	RECESSED-MOUNTED LIGHTING FIXTURE.		WALL-MOUNTED DIMMER AT +48" A.F.F. (MAX). SEE SWITCH SYMBOL FOR SUBSCRIPTS.
	EMERGENCY RECESSED-MOUNTED LIGHTING FIXTURE.		CEILING/SURFACE-MOUNTED OCCUPANCY SENSOR WITH SWITCH PACK AND SLAVE PACK AS REQUIRED. CHEVRONS INDICATE EITHER 1- OR 2-WAY DIRECTIONAL SENSORS.
	SURFACE-MOUNTED FIXTURE WITH JUNCTION/OUTLET BOX.		WALL-MOUNTED OCCUPANCY SENSOR AT +48" A.F.F. (MAX.) WITH DUAL-RELAY UNLESS SHOWN OTHERWISE ON PLANS.
	EMERGENCY SURFACE-MOUNTED FIXTURE WITH JUNCTION/OUTLET BOX.		WALL-MOUNTED LOW-VOLTAGE OVERRIDE SWITCH AT +48" A.F.F. (MAX.) REFER TO LIGHTING CONTROL PANEL FOR MORE INFO.
	HARD-LID CEILING RECESSED-MOUNTED FIXTURE WITH JUNCTION/OUTLET BOX.		WALL-MOUNTED LOW-VOLTAGE LOCAL SWITCH AT +48" A.F.F. (MAX.) LOWER CASE TEXT (a,b) - DENOTES TWO SWITCHES AND THEIR RESPECTIVE CONTROL IDENTIFICATION. COMPATIBLE WITH WATSTOPPER OCCUPANCY SENSORS EQUAL TO WATSTOPPER #DCC2.
	HARD-LID CEILING EMERGENCY RECESSED-MOUNTED FIXTURE WITH JUNCTION/OUTLET BOX.		SWITCHING PHOTOSENSOR WITH SWITCH PACK AND OUTLET BOX. LOWER CASE TEXT ("X") REPRESENTS CONTROLLED SWITCHES/FIXTURE.
	SURFACE/PENDANT-MOUNTED STRIP LIGHTING FIXTURE.		WALL-MOUNTED TIME SWITCH AT +48" A.F.F. (MAX.) EQUAL TO WATSTOPPER #TS-400 OR TS-400-24 (LOW-VOLTAGE). REFER TO PLANS FOR VOLTAGE USE.
	EMERGENCY SURFACE/PENDANT-MOUNTED STRIP LIGHTING FIXTURE.		WALL-MOUNTED VACANCY SENSOR AT +48" A.F.F. (MAX.) WITH DUAL-RELAY UNLESS SHOWN OTHERWISE ON PLANS.
	RECESSED-MOUNTED DOWNLIGHT FIXTURE.		WALL-MOUNTED VACANCY SENSOR WITH DIMMING AT +48" A.F.F. (MAX.) WITH DUAL-RELAY UNLESS SHOWN OTHERWISE ON PLANS.
	EMERGENCY RECESSED-MOUNTED DOWNLIGHT FIXTURE SCHEDULE.		
	RECESSED-MOUNTED WALL WASH LIGHT FIXTURE.		
	WALL MOUNTED LIGHTING FIXTURE AND OUTLET BOX. REFER TO LIGHTING FIXTURE SCHEDULE AND PLANS FOR MOUNTING HEIGHT.		
	WALL/CEILING/UNIVERSAL-MOUNTED EXIT SIGN WITH JUNCTION/OUTLET BOX REFER TO PLANS FOR NUMBER OF FACES AND CHEVRONS.		
	POLE MOUNTED LIGHTING FIXTURE. SEE LIGHTING FIXTURE SCHEDULE FOR MORE INFO.		

POWER SYMBOLS

	DUPLEX RECEPTACLE FLUSH IN CEILING.		ISOLATED GROUND DOUBLE DUPLEX WALL MOUNTED AT +18" A.F.F. OR AS NOTED. "X" DENOTES MOUNTING HEIGHT IF HIGHER THAN +18 A.F.F.
	DOUBLE DUPLEX RECEPTACLE FLUSH IN CEILING.		DEDICATED 20A, DUPLEX RECEPTACLE, WALL MOUNTED AT +18" A.F.F. OR AS NOTED. "X" DENOTES MOUNTING HEIGHT IF HIGHER THAN +18 A.F.F.
	ISOLATED GROUND DUPLEX RECEPTACLE FLUSH IN CEILING.		HALF-SWITCHED DUPLEX RECEPTACLE WALL MOUNTED AT +18" A.F.F. OR AS NOTED. "X" DENOTES MOUNTING HEIGHT IF HIGHER THAN +18 A.F.F.
	ISOLATED GROUND DOUBLE DUPLEX FLUSH IN CEILING.		HALF-SWITCHED DUPLEX RECEPTACLE WALL MOUNTED AT +18" A.F.F. OR AS NOTED. "X" DENOTES MOUNTING HEIGHT IF HIGHER THAN +18 A.F.F.
	DUPLEX RECEPTACLE 20A DEDICATED FLUSH IN CEILING.		SIMPLEX RECEPTACLE, WALL MOUNTED AT +18" A.F.F. OR AS NOTED. "X" DENOTES MOUNTING HEIGHT IF HIGHER THAN +18 A.F.F.
	SIMPLEX RECEPTACLE FLUSH IN CEILING.		SPECIAL RECEPTACLE, WALL MOUNTED AT +18" A.F.F. OR AS NOTED. REFER TO PLAN NOTES. "X" DENOTES MOUNTING HEIGHT IF HIGHER THAN +18 A.F.F.
	SPECIAL RECEPTACLE FLUSH IN CEILING.		JUNCTION BOX 4" SQUARE x 2-1/8" DEEP MIN. MOUNTED IN ACCESSIBLE CEILING. SEE PLANS FOR SPECIFIC APPLICATION.
	DUPLEX RECEPTACLE, WALL MOUNTED AT +18" A.F.F. OR AS NOTED. "X" DENOTES MOUNTING HEIGHT IF HIGHER THAN +18 A.F.F.		JUNCTION BOX 4" SQUARE x 2-1/8" DEEP MIN. WALL MOUNTED AT +18" A.F.F. OR AS NOTED. "X" DENOTES MOUNTING HEIGHT IF HIGHER THAN +18 A.F.F.
	GFCI DUPLEX RECEPTACLE WALL MOUNTED AT +18" A.F.F. OR AS NOTED. "WP" INDICATES WEATHERPROOF. SEE PLANS FOR SPECIFIC TYPE OF WEATHERPROOF BOX AND COVER PLATE. "X" DENOTES MOUNTING HEIGHT IF HIGHER THAN +18 A.F.F.		JUNCTION BOX MOUNTED IN ACCESSIBLE CEILING SPACE FOR PREWIRED FURNITURE SYSTEM WITH FLEX CONNECTION.
	GFCI DUPLEX RECEPTACLE WALL MOUNTED AT +6" ABOVE COUNTER OR SINK. REFER TO ARCHITECTURAL ELEVATION FOR ADDITIONAL INFORMATION.		JUNCTION BOX WALL MOUNTED AT +18" A.F.F. FOR PREWIRED FURNITURE SYSTEM WITH FLEX CONNECTION.
	DOUBLE DUPLEX RECEPTACLE, WALL MOUNTED AT +18" A.F.F. OR AS NOTED. "X" DENOTES MOUNTING HEIGHT IF HIGHER THAN +18 A.F.F.		THERMOSTAT JUNCTION BOX WITH 1/2" C.O. TO ASSOCIATED HVAC UNIT.
	GFCI DOUBLE DUPLEX RECEPTACLE, WALL MOUNTED AT +18" A.F.F. OR AS NOTED. WP INDICATES WEATHERPROOF. SEE PLANS FOR SPECIFIC TYPE OF WEATHERPROOF BOX AND COVER PLATE. "X" DENOTES MOUNTING HEIGHT IF HIGHER THAN +18 A.F.F.		
	DEDICATED 20A, DOUBLE DUPLEX RECEPTACLE, WALL MOUNTED AT +18" A.F.F. OR AS NOTED. "X" DENOTES MOUNTING HEIGHT IF HIGHER THAN +18 A.F.F.		
	ISOLATED GROUND DUPLEX RECEPTACLE WALL MOUNTED AT +18" A.F.F. OR AS NOTED. "X" DENOTES MOUNTING HEIGHT IF HIGHER THAN +18 A.F.F.		

DELINEATION OF WORK

22-UNIT VOLUMETRIC MODULAR MULTI-FAMILY HOUSING 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 2019 CALIFORNIA ELECTRICAL CODE
		HCD	LAHJ	LAFD	HCD	
Electrical						
LEVEL 01: ALL WORK (SITE BUILT), ELEVATOR, GENERATOR			X		X	
LEVELS 02-06: CORRIDORS, ELEVATOR LOBBY, TRASH RECYCLE ROOM STAIRS, CONCRETE CORES (SITE BUILT)			X		X	
LEVELS 02-06: RESIDENTIAL UNITS (MODULAR)		X			X	

ABBREVIATIONS

A	AMPERE	K	KELVIN
ADA	AMERICAN WITH DISABILITIES ACT	KCMIL	THOUSAND CIRCULAR MILS
A.F.F.	ABOVE FINISH FLOOR	KWH	KILOWATT HOUR
A.F.G.	ABOVE FINISH GRADE	KW	KILOWATT
AWG	AMERICAN WIRE GAUGE	KVA	KILOVOLT AMPERES
A.I.C.	AMPERES INTERRUPTING CAPACITY	LCL	LONG CONTINUOUS LOAD
A.F.C.	AVAILABLE FAULT CURRENT	LPS	LOW PRESSURE SODIUM
A.F.C.I.	ARC-FAULT CIRCUIT-INTERRUPTER	M	METER
AF/AT	AMP FRAME, AMP TRIP	MAX.	MAXIMUM
AS/AF	AMP SWITCH, AMP FUSE	MCA	MINIMUM CIRCUIT AMPS
ATS	AUTOMATIC TRANSFER SWITCH	MCB	MAIN CIRCUIT BREAKER
C	CONDUIT	MCC	MOTOR CONTROL CENTER
CEC	CALIFORNIA ELECTRICAL CODE	MFR.	MANUFACTURER
CKT.	CIRCUIT	MH	METAL HALIDE
CONN	CONNECTED	MIN.	MINIMUM
C.O.	CONDUIT ONLY	MLO	MAIN LUGS ONLY
CSFD	COMBINATION SMOKE FIRE DAMPER	MOCP	MAXIMUM OVER-CURRENT PROTECTION
CT	CURRENT TRANSFORMER	MTD	MOUNTED
(D)	EXISTING DEVICE TO BE DEMOLISHED	NEC	NATIONAL ELECTRICAL CODE
DIA	DIAMETER	NEMA	NATIONAL ELECTRICAL MANUFACTURER'S ASSOCIATION
DISC	DISCONNECT	NF	NON-FUSED
DIST	DISTRIBUTION	NIC	NOT IN CONTRACT
E.C.	ELECTRICAL CONTRACTOR	NL	NIGHT LIGHT
EMT	ELECTRICAL METALLIC TUBING	NO. or #	NUMBER
EWC	ELECTRIC WATER COOLER	N.T.S.	NOT TO SCALE
E.G.	EQUIPMENT GROUND	P	POLE
(E)	EXISTING	PC	PHOTOCELL
FT or ' FT	FOOT OR FEET	PDU	POWER DISTRIBUTION PANEL
FA	FIRE ALARM	PH. or ∅	PHASE
FLA	FULL LOAD AMPS	PT	POTENTIAL TRANSFORMER
GEC	GROUNDING ELECTRODE CONDUCTOR	PVC	POLYVINYL CHLORIDE
GFP	GROUND FAULT PROTECTION	SFD	SMOKE FIRE DAMPER
GFCI	GROUND FAULT CIRCUIT INTERRUPTER	SQ.	SQUARE
GND	GROUND	TC	TIME CLOCK
HOA	HAND-OFF-AUTO	TEL/DATA	TELEPHONE AND DATA
HACR	HEATING AIR CONDITIONING REFRIGERATION	TV	TELEVISION
HID	HIGH INTENSITY DISCHARGE	T.V.S.	TRANSIENT VOLTAGE SURGE SUPPRESSION
HPS	HIGH PRESSURE SODIUM	TYP	TYPICAL
HP	HORSEPOWER	U.V.P.S.	UNDERGROUND PULL SECTION
IN. or "	INCH(ES)	U.O.N.	UNLESS OTHERWISE NOTED
I.G.	ISOLATED GROUND	U.P.S.	UNINTERRUPTIBLE POWER SUPPLY
IDF	INTERMEDIATE DISTRIBUTION FRAME	V	VOLTS
JBOX	JUNCTION BOX	VA	VOLTS AMPERES
		VD	VOLTAGE DROP
		W	WIRE
		WP	WEATHERPROOF
		W	WIRE
		XRRF/ TRANSF	TRANSFORMER

TELEPHONE/DATA & SIGNAL SYMB.

	TELEPHONE MUD RING, WALL MOUNTED AT +18" A.F.F. (MIN.). STUB UP 3/4" C.O. 6" ABOVE THE ACCESSIBLE CEILING. PROVIDE OUTLET BOX ON DEVICES MOUNTED ON RATED/INSULATED WALLS. "W" = WALL MOUNTED PHONE AT +48" A.F.F. (MAX) "P" = PUBLIC (PAY) PHONE PER TELEPHONE UTILITY COMPANY REQUIREMENTS. PROVIDE 1" C.O. (MIN.) TO THE MAIN TELEPHONE BACKBOARD. "X" DENOTES MOUNTING HEIGHT IF HIGHER THAN +18 A.F.F.
	DATA MUD RING MOUNTED AT +18" A.F.F. MINIMUM OR AS NOTED. STUB A 3/4" C.O. UP 6" ABOVE THE ACCESSIBLE CEILING. PROVIDE OUTLET BOX ON DEVICES MOUNTED ON RATED/INSULATED WALLS. "X" DENOTES MOUNTING HEIGHT IF HIGHER THAN +18 A.F.F.
	COMBINATION TELEPHONE AND DATA MUD RING WALL MOUNTED AT +18" A.F.F. (MIN.). STUB A 1" C.O. UP 6" ABOVE THE ACCESSIBLE CEILING. PROVIDE OUTLET BOX ON DEVICES MOUNTED ON RATED/INSULATED WALLS. "X" DENOTES MOUNTING HEIGHT IF HIGHER THAN +18 A.F.F.
	FLUSH-MOUNTED TELEPHONE OUTLET BOX IN CEILING.
	FLUSH-MOUNTED DATA OUTLET BOX IN CEILING.
	FLUSH-MOUNTED COMBINATION TELEPHONE AND DATA OUTLET BOX IN CEILING.
	TELEPHONE/DATA CONDUIT RUN WITH 3/4" C.O. MIN.
	TELEPHONE/DATA CONDUIT RUN WITH 1" C.O. MIN.
	TELEPHONE/DATA CONDUIT RUN WITH 1-1/4" C.O. MIN.
	TELEPHONE/DATA CONDUIT RUN WITH 1-1/2" C.O. MIN.
	TELEPHONE/DATA CONDUIT RUN WITH 2" C.O. MIN.
	WALL-MOUNTED COMBINATION TELEPHONE AND DATA BOX FOR CONNECTION TO FURNITURE SYSTEM MOUNTED AT +18" A.F.F. PROVIDE OUTLET BOX ON DEVICES MOUNTED ON RATED/INSULATED WALLS.
	COMBINATION TELEPHONE AND DATA BOX MOUNTED IN ACCESSIBLE CEILING SPACE FOR CONNECTION TO FURNITURE SYSTEM.
	TELEPHONE TERMINAL BACKBOARD SIZED AS INDICATED.
	WALL-MOUNTED TV OUTLET AT +18" A.F.F. (MIN.), WITH 3/4" C.O. STUB-UP 6" ABOVE THE ACCESSIBLE CEILING WITH BUSHING. PROVIDE OUTLET BOX ON DEVICES MOUNTED ON RATED/INSULATED WALLS.
	CEILING-MOUNTED TV OUTLET.
	CCTV CAMERA. SEE SPECIFICATIONS FOR MORE INFO.



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



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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: 2/27/2024 3:54:56 PM

SHEET TITLE:

ELECTRICAL GENERAL INFORMATION

SHEET NO:

E001



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

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△	PC RESUBMITTAL	02/27/24

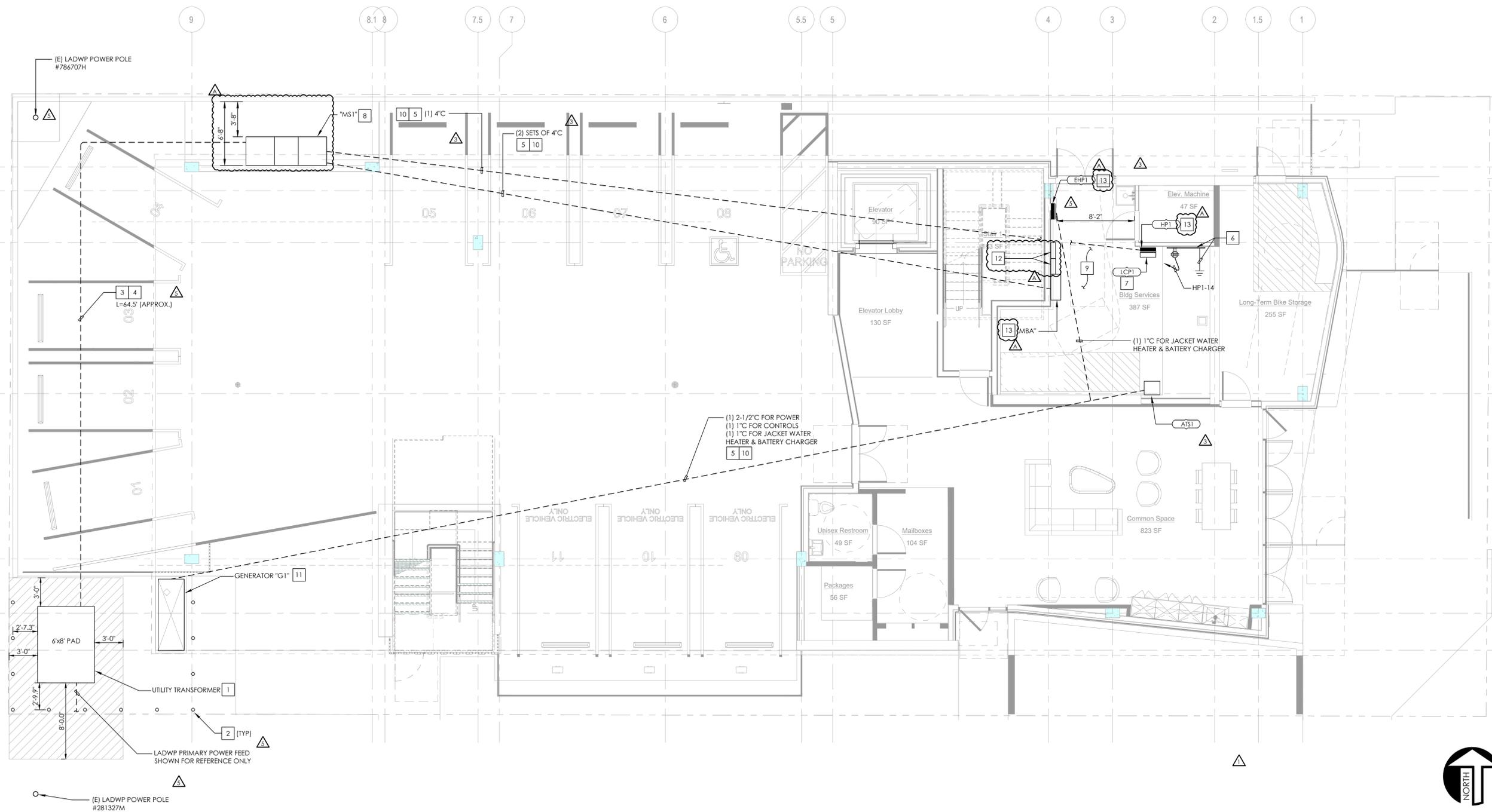
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SHEET TITLE:

SITE UTILITY PLAN

SHEET NO:

E100



SITE UTILITY PLAN SCALE 3/16" = 1'-0" 1

PLAN NOTES

- A. CALL UNDERGROUND SERVICE ALERT AT 1 (800) 227-2600 (NORTH) OR AT 1 (800) 422-4133 (SOUTH) OR APPLICABLE STATE AND LOCAL DIG SAFE OR UNDERGROUND ALERT HOTLINES 2 DAYS OR 48 HOURS PRIOR TO EXCAVATION.
- B. MINIMUM OF SIX INCHES (6") OF COMPACTED SAND, GRADED LEVEL IS REQUIRED UNDER ALL PULLBOXES, HANDHOLES AND SPLICE BOXES. SIX INCHES (6") OF GRAVEL DRAIN ROCK OR BASE ROCK IS REQUIRED FOR MANHOLES. THE FLOOR MUST BE LEVEL AND FREE OF DEBRIS.
- C. PLACEMENT OF BOXES AND MANHOLES MUST ALLOW FOR FINAL GRADE OF NEW SIDEWALK AND PARKWAYS.
- D. CONDUIT MUST ENTER AND TERMINATE AT THE END WALL OR SIDE WALL IN A TERMINATOR OR KNOCKOUT AS SPECIFIED BY UTILITY ENGINEER. ENTRY THROUGH THE BOTTOM OF A BOX OR THE MIDDLE OF SIDE WALL IS NOT ACCEPTABLE.
- E. ALL PULLBOXES, SPLICE BOX AND MANHOLES PLACED BY THE OWNER SHALL BE MAINTAINED AND OWNED BY THE PROPERTY OWNER AND APPROVED BY THE UTILITY COMPANY. THE OWNER MUST ENSURE BOXES AND MANHOLES INCLUDE APPROPRIATE RACKING, SUMP, BOLT DOWN COVER, AND PULLING EYES. LABEL ALL NON-UTILITY COMMUNICATION MANHOLES, VAULTS AND PULLBOX COVERS WITH A GENERIC TELEPHONE NAME OR "COMMUNICATIONS".
- F. ALL CONDUITS ENTERING KNOCKOUTS IN A PLASTIC OR POLYMER BOX MUST BE CUT WITHIN ONE INCH FLUSH WITH THE INSIDE OF THE WALL AND SEALED. ALL JOINTS SHALL BE MORTARED AND ALL UNUSED PORTS AND OPENINGS SHALL BE SEALED. CEMENT MORTAR, WATER PLUG CEMENT OR OTHER APPROVED MORTARS SHALL BE USED.

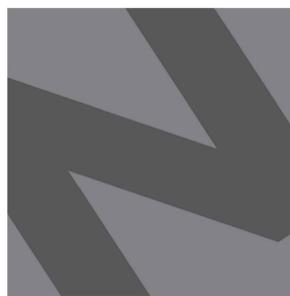
KEY NOTES

- # NUMBERS INDICATE NOTES SHOWN ON PLAN
- G. ALL COMMUNICATION CONDUITS SHALL HAVE A MAXIMUM OF TWO (2) 90 DEGREE BENDS PER SECTION, UNLESS OTHERWISE APPROVED BY UTILITY COMPANY. PULL BOXES MAY BE REQUIRED. STRAIGHT 20' LENGTHS MAY BE USED ON 90 DEGREE BENDS WITH A RADIUS GREATER THAN 40'. ALL OTHER BENDS SHALL BE FACTORY BENDS.
- H. MINIMUM RADIUS BENDS SHALL BE EQUIVALENT OF THE DIAMETER OF CONDUIT IN FEET, U.O.N.
- I. BENDS OR SWEEPS THAT HAVE A RADIUS OF 80' OR LESS, SHALL BE ENCASED IN 2500 PSI CONCRETE.
- J. ALL SITE BRANCH CIRCUIT SHALL INCLUDE AN NEC-SIZED EQUIPMENT GROUND CONDUCTOR.
- K. LOCATIONS OF UTILITY STRUCTURES AND CONDUIT ROUTING ARE SHOWN IN DIAGRAMMATIC FORMAT. CONTRACTOR SHALL EXERCISE EXTREME CAUTION IN EXCAVATING AND TRENCHING TO AVOID EXISTING DUCTS, PIPING, OR CONDUITS, ETC., AND TO PREVENT HAZARD TO PERSONNEL AND/OR DAMAGE TO EXISTING UNDERGROUND UTILITIES OR STRUCTURES. THE ENGINEER IS NOT RESPONSIBLE FOR THE LOCATION OF UNDERGROUND UTILITIES OR STRUCTURES WHETHER OR NOT SHOWN OR DETAILED AND INSTALLED BY ANY OTHER CONTRACTS. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER SHOULD SUCH UNIDENTIFIED CONDITIONS BE DISCOVERED. THESE DRAWINGS AND SPECIFICATIONS DO NOT INCLUDE THE NECESSARY ELEMENTS FOR CONSTRUCTION SAFETY.
- L. UTILITY POINT OF CONNECTIONS AND WORK/MATERIAL SHOWN ARE BASED UPON PRELIMINARY INFORMATION ONLY AND ARE SHOWN FOR BID PURPOSES ONLY. CONTRACTOR TO PROVIDE COST PER LINEAR FOOT FOR CONDUIT, TRENCHING AND BACKFILL AS BASIS OF THE BID.

KEY NOTES

- 1. PROPOSED TRANSFORMER LOCATION. SIZE OF UTILITY TRANSFORMER PAD PER LOS ANGELES DEPARTMENT OF WATER AND POWER (LADWP) SPECIFICATIONS. VERIFY EXACT LOCATION AND REQUIREMENTS WITH UTILITY COORDINATOR PRIOR TO INSTALLATION.
- 2. PROVIDE MIN. OF 5" DIAMETER GALVANIZED PIPE BARRIER POST INSTALLED IN CONCRETE FOUNDATION. COORDINATE EXACT LOCATION, REQUIREMENTS AND SPECIFICATIONS WITH LADWP PRIOR TO INSTALLATION.
- 3. CONTRACTOR TO VERIFY EXACT POINT OF CONNECTION AND REQUIREMENTS WITH UTILITY COORDINATOR PRIOR TO BID AND INSTALLATION. CONTRACTOR SHALL INCLUDE IN BID, COST PER LINEAR FOOT FOR TRENCHING AND CONDUIT.
- 4. PROVIDE REQUIRED CONDUIT UNDERGROUND ROUTED TO SERVICE ENTRANCE EQUIPMENT "MS1" UNDERGROUND PULL SECTION. PROVIDE ADDITIONAL SPARE CONDUITS AS REQUIRED. CONTRACTOR TO VERIFY EXACT REQUIREMENTS WITH UTILITY COORDINATOR AND LADWP PRIOR TO BID AND INSTALLATION.
- 5. REFER TO SINGLE-LINE DIAGRAM FOR COMPLETE FEEDER SIZE.
- 6. PROVIDE 4" X 8" X 3/4" THICK BACKBOARD PAINTED WITH FIRE RETARDANT PAINT, COLOR TO MATCH SURROUNDING WALLS. PROVIDE 1/2" C, 1#6 GROUNDING PER GROUNDING DETAIL #3 ON SHEET E402.
- 7. LIGHTING CONTROL PANEL "LCP1" TO BE MOUNTED ABOVE PANEL "HP1."
- 8. REFER TO SWITCHBOARD ELEVATION ON SHEET E402 FOR DIMENSIONS.
- 9. NO PIPING, DUCTS, OR EQUIPMENT FOREIGN TO ELECTRICAL EQUIPMENT SHALL BE PERMITTED TO BE LOCATED WITHIN THE DEDICATED SPACE ABOVE THE ELECTRICAL EQUIPMENT. ELECTRICAL ROOM DOOR(S) SHALL BE EQUIPPED WITH PANIC HARDWARE FOR EGRESS AS REQUIRED BY NEC 110-26 (OR CEC WHERE ADOPTED).
- 10. CONDUITS SHALL BE BURIED MINIMUM 24" BELOW GRADE PER CEC TABLE 300.5. COORDINATE WITH STRUCTURAL FOR CONDUIT THROUGH FOUNDATION PRIOR TO INSTALLATION.

- 11. REFER TO GENERATOR SPECIFICATIONS AND CUT SHEET ON E406 & E407 FOR SIZE AND MORE INFORMATION.
- 12. TENANT SUB-METERING. REFER TO SINGLE-LINE DIAGRAM ON SHEET E401 FOR SUB-METERING INFORMATION.
- 13. PROVIDE PERMANENT PLAQUE OR DIRECTORY DENOTING LOCATIONS OF BUILDING'S MAIN SERVICE DISCONNECT AND EMERGENCY DISCONNECT AS REQUIRED PER CEC 225.37 AND 230.2(E).



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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
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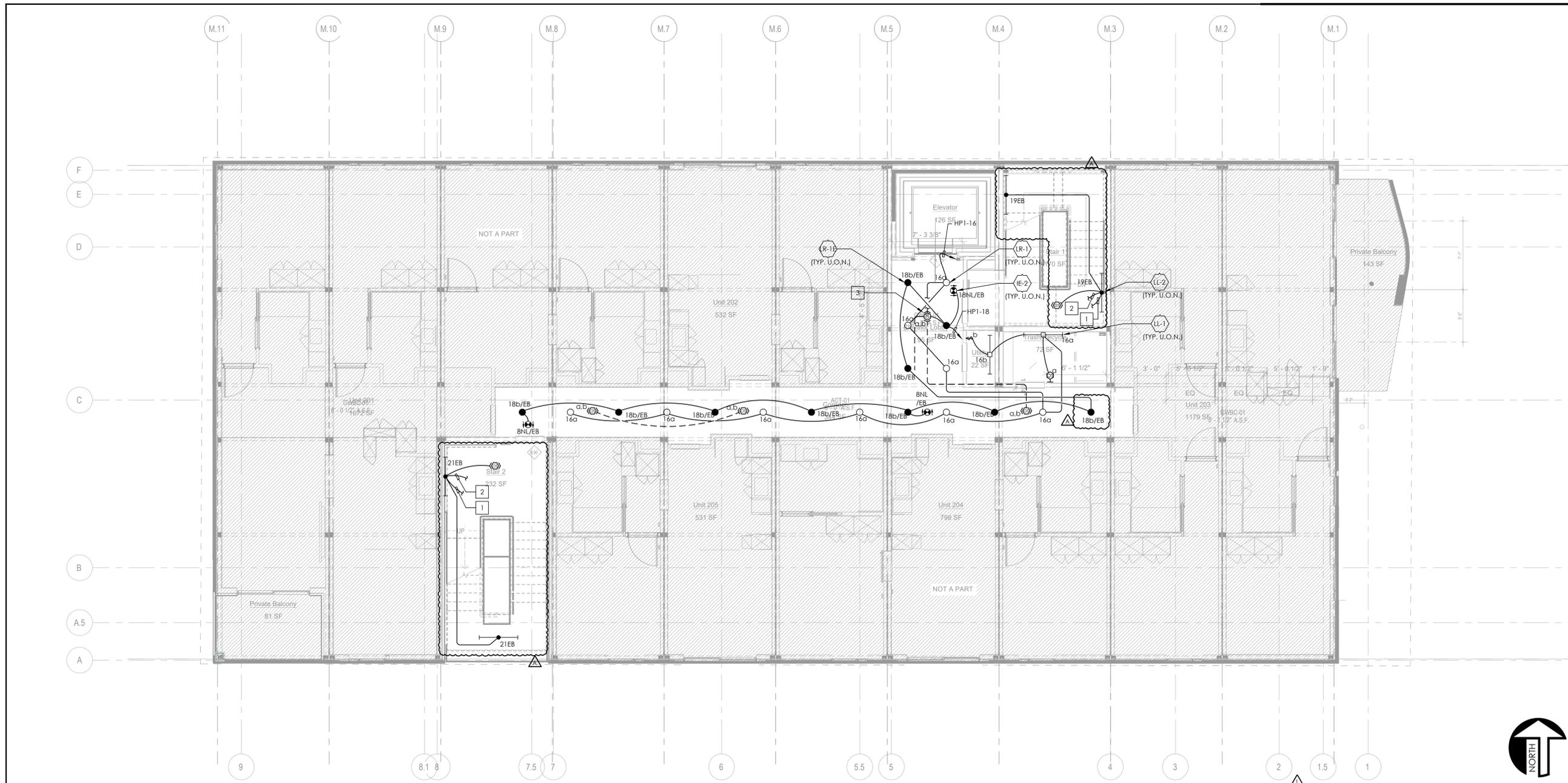
Plot Date: 2/27/2024 4:08:34 PM

SHEET TITLE:

**LEVEL 2
LIGHTING PLAN**

SHEET NO.:

E102



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

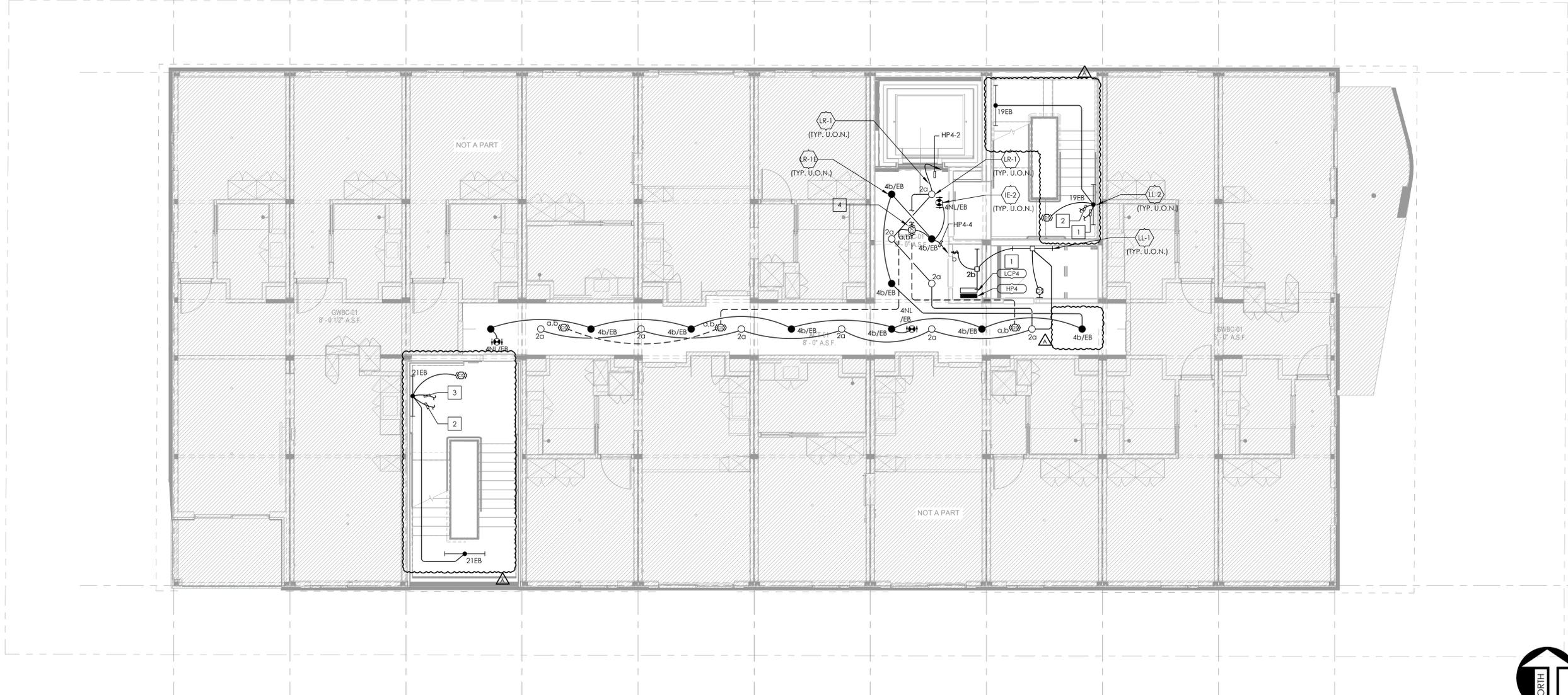
PLAN NOTES

- A. REFER TO ARCHITECTURAL REFLECTED CEILING PLAN FOR EXACT LOCATION OF ALL LIGHTING FIXTURES.
- B. COORDINATE EXACT LIGHTING FIXTURE LOCATIONS WITH MECHANICAL EQUIPMENT & DUCT WORK PRIOR TO ROUGH-IN.
- C. CONTRACTOR TO VERIFY EXACT CEILING CONSTRUCTION WITH ARCHITECT PRIOR TO ORDERING LIGHTING FIXTURES AND SHALL BE PROVIDED WITH ALL NECESSARY MOUNTING HARDWARE AND SUPPORTS.
- D. ALL RECESSED FIXTURES SHALL BE PROVIDED WITH ALL REQUIRED STRUCTURAL SUPPORTS AS REQUIRED BY THE CURRENTLY ADOPTED ISSUE OF IBC, AS WELL AS ANY LOCAL CODES.
- E. BRANCH CIRCUITS OF LIGHTING WITH DIMMING SHALL BE PROVIDED WITH A DEDICATED NEUTRAL CONDUCTOR FOR EACH ZONE OR CHANNEL.
- F. FLUORESCENT / LED DIMMING ZONE OR CHANNEL SHALL BE PROVIDED WITH 3 LINE-VOLTAGE CONDUCTORS (DIMMED HOT, SWITCHED HOT AND NEUTRAL) OR AS REQUIRED BY THE CONTROL OR BALLAST TYPE.
- G. EXIT SIGNS SHOWN SHALL BE VERIFIED WITH THE ARCHITECTURAL PLANS FOR QUANTITY, CHEVRONS AND NUMBER OF FACES PRIOR TO ORDERING.
- H. ALL EMERGENCY LIGHTING SHOWN INCLUDING EXIT SIGNS POWERED BY STORAGE BATTERIES OR ON-SITE EMERGENCY GENERATORS SHALL BE ILLUMINATED AT ALL TIMES WHEN THE BUILDING IS OCCUPIED AND SHALL HAVE A MINIMUM OF 90-MINUTE EMERGENCY POWER DURATION.
- I. ALL LOW VOLTAGE LIGHTING SYSTEMS SHALL COMPLY WITH 2019 CEC ART. 411.3 AND SHALL BE LISTED PER ART. 411.3.
- J. ALL ELECTRICAL EQUIPMENT LOCATED OUTSIDE SHALL BE WEATHERPROOF.
- K. ALL LIGHTING FIXTURES SHOWN WITH EMERGENCY BALLAST SHALL BE PROVIDED WITH AN UNSWITCHED HOT CONNECTION TO THE CHARGING LEAD.
- L. ALL WORK SHOWN SHALL BE IN ACCORDANCE WITH 2019 CALIFORNIA ELECTRICAL CODE (CEC).

KEY NOTES

- # NUMBERS INDICATE NOTES SHOWN ON PLAN
- 1. REFER TO SHEET E101 FOR STAIRWELL LIGHTING CONTINUATION.
- 2. REFER TO SHEET E103 FOR STAIRWELL LIGHTING CONTINUATION.
- 3. PROVIDE ADDITIONAL SWITCH PACK TO CEILING MOUNTED OCCUPANCY SENSORS AS REQUIRED TO ACCOMMODATE TWO CIRCUITS AS SHOWN. TYPICAL TO ALL OCCUPANCY SENSORS IN CORRIDOR.

M.11 M.10 M.9 M.8 M.7 M.6 M.5 M.4 M.3 M.2 M.1



LEVEL 4 LIGHTING PLAN SCALE 3/16" = 1'-0" 1

- ### PLAN NOTES
- A. REFER TO ARCHITECTURAL REFLECTED CEILING PLAN FOR EXACT LOCATION OF ALL LIGHTING FIXTURES.
 - B. COORDINATE EXACT LIGHTING FIXTURE LOCATIONS WITH MECHANICAL EQUIPMENT & DUCT WORK PRIOR TO ROUGH-IN.
 - C. CONTRACTOR TO VERIFY EXACT CEILING CONSTRUCTION WITH ARCHITECT PRIOR TO ORDERING LIGHTING FIXTURES AND SHALL BE PROVIDED WITH ALL NECESSARY MOUNTING HARDWARE AND SUPPORTS.
 - D. ALL RECESSED FIXTURES SHALL BE PROVIDED WITH ALL REQUIRED STRUCTURAL SUPPORTS AS REQUIRED BY THE CURRENTLY ADOPTED ISSUE OF IBC, AS WELL AS ANY LOCAL CODES.
 - E. BRANCH CIRCUITS OF LIGHTING WITH DIMMING SHALL BE PROVIDED WITH A DEDICATED NEUTRAL CONDUCTOR FOR EACH ZONE OR CHANNEL.
 - F. FLUORESCENT / LED DIMMING ZONE OR CHANNEL SHALL BE PROVIDED WITH 3 LINE-VOLTAGE CONDUCTORS (DIMMED HOT, SWITCHED HOT AND NEUTRAL) OR AS REQUIRED BY THE CONTROL OR BALLAST TYPE.
 - G. EXIT SIGNS SHOWN SHALL BE VERIFIED WITH THE ARCHITECTURAL PLANS FOR QUANTITY, CHEVRONS AND NUMBER OF FACES PRIOR TO ORDERING.
 - H. ALL EMERGENCY LIGHTING SHOWN INCLUDING EXIT SIGNS POWERED BY STORAGE BATTERIES OR ON-SITE EMERGENCY GENERATORS SHALL BE ILLUMINATED AT ALL TIMES WHEN THE BUILDING IS OCCUPIED AND SHALL HAVE A MINIMUM OF 90-MINUTE EMERGENCY POWER DURATION.
 - I. ALL LOW VOLTAGE LIGHTING SYSTEMS SHALL COMPLY WITH 2019 CEC ART. 411 AND SHALL BE LISTED PER ART. 411.3.
 - J. ALL ELECTRICAL EQUIPMENT LOCATED OUTSIDE SHALL BE WEATHERPROOF.
 - K. ALL LIGHTING FIXTURES SHOWN WITH EMERGENCY BALLAST SHALL BE PROVIDED WITH AN UNSWITCHED HOT CONNECTION TO THE CHARGING LEAD.
 - L. ALL WORK SHOWN SHALL BE IN ACCORDANCE WITH 2019 CALIFORNIA ELECTRICAL CODE (CEC).

- ### KEY NOTES
- # NUMBERS INDICATE NOTES SHOWN ON PLAN
 - 1. LIGHTING CONTROL PANEL "LCP4" TO BE MOUNTED ABOVE PANEL "HP4."
 - 2. REFER TO SHEET E103 FOR STAIRWELL LIGHTING CONTINUATION.
 - 3. REFER TO SHEET E105 FOR STAIRWELL LIGHTING CONTINUATION.
 - 4. PROVIDE ADDITIONAL SWITCH PACK TO CEILING MOUNTED OCCUPANCY SENSORS AS REQUIRED TO ACCOMMODATE TWO CIRCUITS AS SHOWN, TYPICAL TO ALL OCCUPANCY SENSORS IN CORRIDOR.



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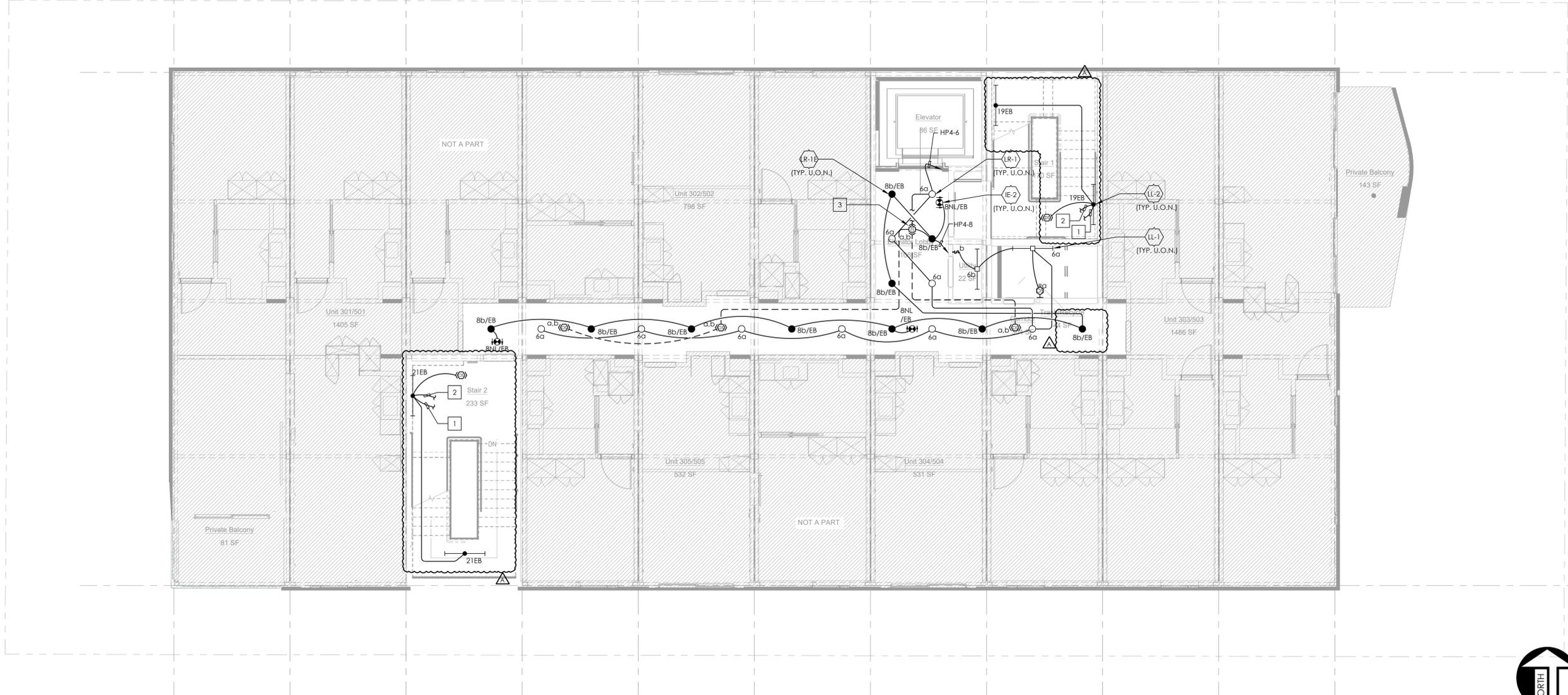
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△	PC RESUBMITTAL	07/10/23
△	PC RESUBMITTAL	02/27/24

Plot Date: 2/27/2024 4:09:51 PM

SHEET TITLE:
LEVEL 4 LIGHTING PLAN

SHEET NO:
E104

M.11 M.10 M.9 M.8 M.7 M.6 M.5 M.4 M.3 M.2 M.1



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

- ### PLAN NOTES
- A. REFER TO ARCHITECTURAL REFLECTED CEILING PLAN FOR EXACT LOCATION OF ALL LIGHTING FIXTURES.
 - B. COORDINATE EXACT LIGHTING FIXTURE LOCATIONS WITH MECHANICAL EQUIPMENT & DUCT WORK PRIOR TO ROUGH-IN.
 - C. CONTRACTOR TO VERIFY EXACT CEILING CONSTRUCTION WITH ARCHITECT PRIOR TO ORDERING LIGHTING FIXTURES AND SHALL BE PROVIDED WITH ALL NECESSARY MOUNTING HARDWARE AND SUPPORTS.
 - D. ALL RECESSED FIXTURES SHALL BE PROVIDED WITH ALL REQUIRED STRUCTURAL SUPPORTS AS REQUIRED BY THE CURRENTLY ADOPTED ISSUE OF IBC, AS WELL AS ANY LOCAL CODES.
 - E. BRANCH CIRCUITS OF LIGHTING WITH DIMMING SHALL BE PROVIDED WITH A DEDICATED NEUTRAL CONDUCTOR FOR EACH ZONE OR CHANNEL.
 - F. FLUORESCENT / LED DIMMING ZONE OR CHANNEL SHALL BE PROVIDED WITH 3 LINE-VOLTAGE CONDUCTORS (DIMMED HOT, SWITCHED HOT AND NEUTRAL) OR AS REQUIRED BY THE CONTROL OR BALLAST TYPE.
 - G. EXIT SIGNS SHOWN SHALL BE VERIFIED WITH THE ARCHITECTURAL PLANS FOR QUANTITY, CHEVRONS AND NUMBER OF FACES PRIOR TO ORDERING.
 - H. ALL EMERGENCY LIGHTING SHOWN INCLUDING EXIT SIGNS POWERED BY STORAGE BATTERIES OR ON-SITE EMERGENCY GENERATORS SHALL BE ILLUMINATED AT ALL TIMES WHEN THE BUILDING IS OCCUPIED AND SHALL HAVE A MINIMUM OF 90-MINUTE EMERGENCY POWER DURATION.
 - I. ALL LOW VOLTAGE LIGHTING SYSTEMS SHALL COMPLY WITH 2019 CEC ART. 411.3 AND SHALL BE LISTED PER ART. 411.3.
 - J. ALL ELECTRICAL EQUIPMENT LOCATED OUTSIDE SHALL BE WEATHERPROOF.
 - K. ALL LIGHTING FIXTURES SHOWN WITH EMERGENCY BALLAST SHALL BE PROVIDED WITH AN UNSWITCHED HOT CONNECTION TO THE CHARGING LEAD.
 - L. ALL WORK SHOWN SHALL BE IN ACCORDANCE WITH 2019 CALIFORNIA ELECTRICAL CODE (CEC).

- ### KEY NOTES
- # NUMBERS INDICATE NOTES SHOWN ON PLAN
 - 1. REFER TO SHEET E104 FOR STAIR LIGHTING CONTINUATION.
 - 2. REFER TO SHEET E106 FOR STAIR LIGHTING CONTINUATION.
 - 3. PROVIDE ADDITIONAL SWITCH PACK TO CEILING MOUNTED OCCUPANCY SENSORS AS REQUIRED TO ACCOMMODATE TWO CIRCUITS AS SHOWN. TYPICAL TO ALL OCCUPANCY SENSORS IN CORRIDOR.



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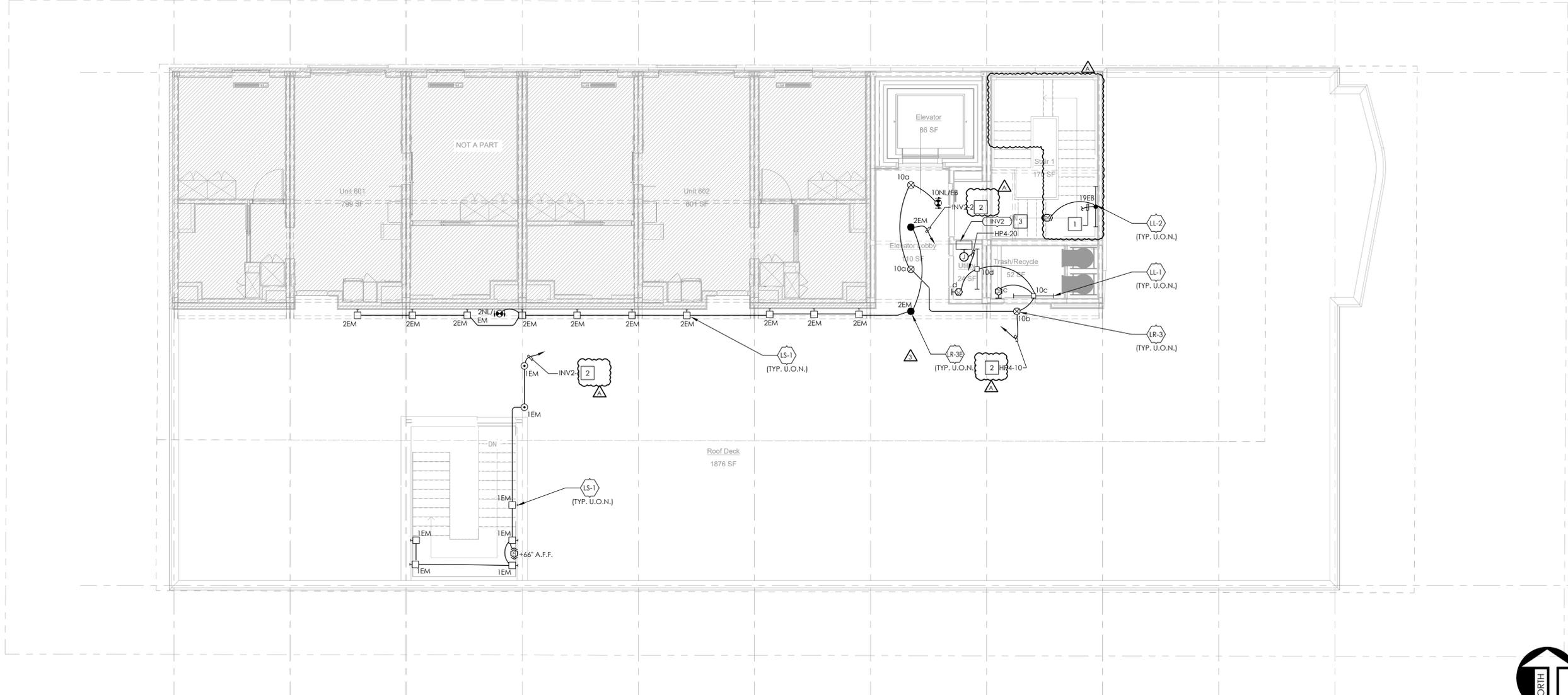
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△	PC RESUBMITTAL	07/10/23
△	PC RESUBMITTAL	02/27/24

Plot Date: 2/27/2024 3:59:07 PM

SHEET TITLE:
LEVEL 5 LIGHTING PLAN

SHEET NO:
E105

M.11 M.10 M.9 M.8 M.7 M.6 M.5 M.4 M.3 M.2 M.1



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△	PC RESUBMITTAL	07/10/23
△	PC RESUBMITTAL	02/27/24

Plot Date: 2/27/2024 4:13:10 PM

SHEET TITLE:
LEVEL 6 LIGHTING PLAN

SHEET NO:
E106

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

PLAN NOTES

- A. REFER TO ARCHITECTURAL REFLECTED CEILING PLAN FOR EXACT LOCATION OF ALL LIGHTING FIXTURES.
- B. COORDINATE EXACT LIGHTING FIXTURE LOCATIONS WITH MECHANICAL EQUIPMENT & DUCT WORK PRIOR TO ROUGH-IN.
- C. CONTRACTOR TO VERIFY EXACT CEILING CONSTRUCTION WITH ARCHITECT PRIOR TO ORDERING LIGHTING FIXTURES AND SHALL BE PROVIDED WITH ALL NECESSARY MOUNTING HARDWARE AND SUPPORTS.
- D. ALL RECESSED FIXTURES SHALL BE PROVIDED WITH ALL REQUIRED STRUCTURAL SUPPORTS AS REQUIRED BY THE CURRENTLY ADOPTED ISSUE OF IBC, AS WELL AS ANY LOCAL CODES.
- E. BRANCH CIRCUITS OF LIGHTING WITH DIMMING SHALL BE PROVIDED WITH A DEDICATED NEUTRAL CONDUCTOR FOR EACH ZONE OR CHANNEL.
- F. FLUORESCENT / LED DIMMING ZONE OR CHANNEL SHALL BE PROVIDED WITH 3 LINE-VOLTAGE CONDUCTORS (DIMMED HOT, SWITCHED HOT AND NEUTRAL) OR AS REQUIRED BY THE CONTROL OR BALLAST TYPE.
- G. EXIT SIGNS SHOWN SHALL BE VERIFIED WITH THE ARCHITECTURAL PLANS FOR QUANTITY, CHEVRONS AND NUMBER OF FACES PRIOR TO ORDERING.
- H. ALL EMERGENCY LIGHTING SHOWN INCLUDING EXIT SIGNS POWERED BY STORAGE BATTERIES OR ON-SITE EMERGENCY GENERATORS SHALL BE ILLUMINATED AT ALL TIMES WHEN THE BUILDING IS OCCUPIED AND SHALL HAVE A MINIMUM OF 90-MINUTE EMERGENCY POWER DURATION.
- I. ALL LOW VOLTAGE LIGHTING SYSTEMS SHALL COMPLY WITH 2019 CEC ART. 411 AND SHALL BE LISTED PER ART. 411.3.
- J. ALL ELECTRICAL EQUIPMENT LOCATED OUTSIDE SHALL BE WEATHERPROOF.
- K. ALL LIGHTING FIXTURES SHOWN WITH EMERGENCY BALLAST SHALL BE PROVIDED WITH AN UNSWITCHED HOT CONNECTION TO THE CHARGING LEAD.
- L. ALL WORK SHOWN SHALL BE IN ACCORDANCE WITH 2019 CALIFORNIA ELECTRICAL CODE (CEC).

KEY NOTES

- # NUMBERS INDICATE NOTES SHOWN ON PLAN
- 1. REFER TO SHEET E105 FOR BRANCH CIRCUIT CONTINUATION
- 2. ROUTE VIA LIGHTING CONTROL PANEL LC4. REFER TO LIGHTING CONTROL SCHEDULE ON SHEET E502 FOR MORE INFORMATION. PROVIDE ADDITIONAL UNSWITCHED HOT CONDUCTORS FOR EMERGENCY/NIGHT LIGHTING IF SHOWN.
- 3. PROVIDE 120V INVERTER EQUAL TO LV5#CEPS-M-2-W-1-B-20-02 SURFACE MOUNTED TO THE WALL WITH TWO 20A OUTPUT BREAKERS.



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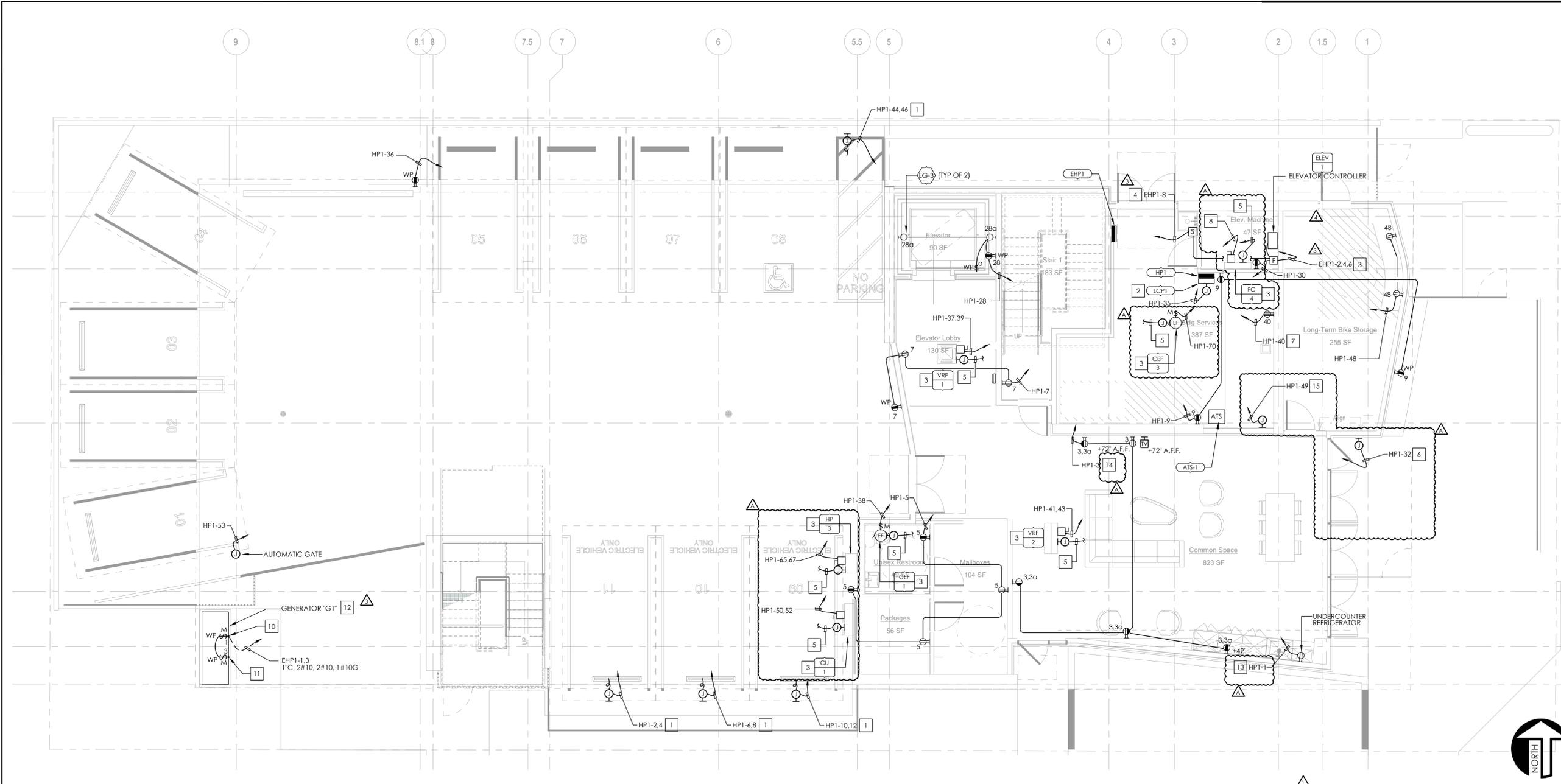
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△	PC RESUBMITTAL	07/10/23
△	PC RESUBMITTAL	02/27/24

Plot Date: 2/27/2024 3:58:02 PM
SHEET TITLE:

LEVEL 1 POWER PLAN
SHEET NO:
E201



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

SIGNAL PLAN NOTES

- A. CONDUITS SHALL (a) CONTAIN NO CONTINUOUS SECTIONS LONGER THAN 30M OR 98 FT, AND (b) CONTAIN NO MORE THAN (2) 90 DEGREE BENDS OR A REVERSE BEND WITHOUT INSTALLING A PULLBOX. CONDUITS IN PLACE OF PULLBOX IS UNACCEPTABLE.
- B. CONDUITS SHALL CONTAIN PLASTIC OR NYLON PULL TAPE RATED AT 200 LBS.
- C. CONDUIT BEND RADIUS SHALL BE (a) MINIMUM OF 6 TIMES OF THE INTERNAL CONDUIT DIAMETER FOR 2" CONDUITS OR SMALLER, AND (b) 10 TIMES THE INTERNAL DIAMETER FOR LARGER THAN 2" CONDUITS.
- D. TERMINATE CONDUITS THAT PROTRUDE THROUGH STRUCTURAL FLOORS 3" ABOVE THE FLOOR SURFACE.
- E. INSTALL BELL ENDS AND BUSHING AS REQUIRED ON ALL CONDUITS.
- F. ALL SUB-SLAB CONDUITS SHALL BE INSTALLED IN A MANNER THAT PREVENTS WATER INFILTRATION OF THE CONDUIT. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE RAIN WATER OR CONSTRUCTION WATER IS PREVENTED FROM ENTERING AND/OR REMOVED FROM THE CONDUITS PRIOR TO PLACEMENT OF COMMUNICATION CABLES.
- G. ALL PULLBOXES SHALL BE SIZES AND INSTALLED PER ANSI/TIA/EIA-569A. PULLBOXES FOR UNDER FLOOR CONDUIT RUNS ARE NOT PERMITTED UNLESS OTHERWISE NOTED. PULLBOXES FOR OVERHEAD CONDUIT RUNS SHALL BE LOCATED ABOVE ACCESSIBLE CEILINGS WITHIN THE ACCESSIBLE CEILING SPACE.
- H. CONTRACTOR SHALL SUBMIT FIRE ALARM PLANS AND OBTAIN APPROVAL PRIOR TO INSTALLATION.
- I. ALL WORK SHOWN SHALL BE IN ACCORDANCE WITH 2019 CALIFORNIA ELECTRICAL CODE (CEC).

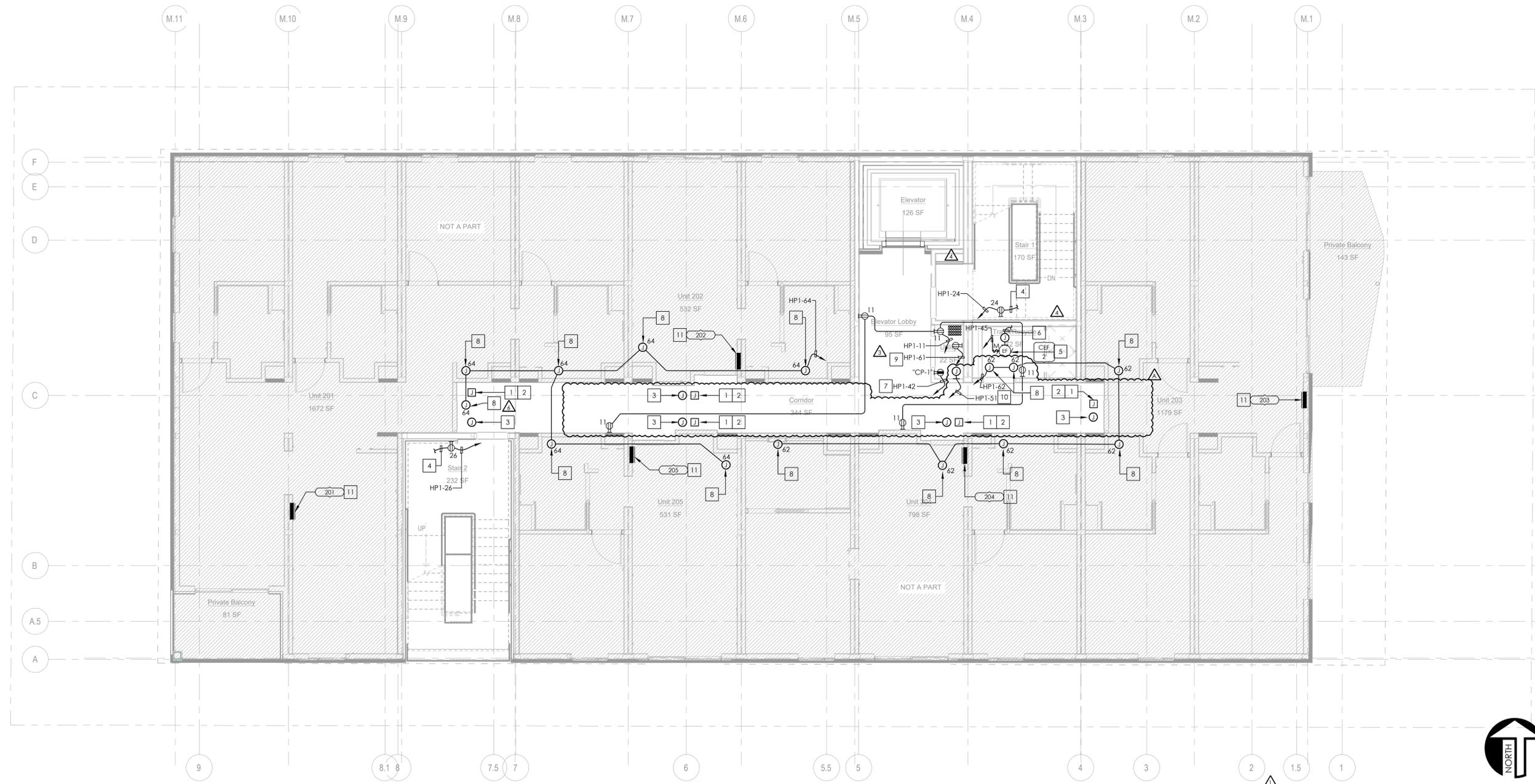
PLAN NOTES

- A. ALL RECEPTACLES ON COMMON WALLS SHALL HAVE SEPARATE BOXES AND A 24" MINIMUM OFFSET.
- B. AN APPROVED FIRESTOP SYSTEM EQUAL TO OR GREATER THAN THE FIRE RATING OF THE WALL SHALL BE PROVIDED AT ALL PENETRATIONS THROUGH FIRE-RATED WALLS.
- C. MOUNTING HEIGHT OF ALL RECEPTACLES AT COUNTER SHALL BE VERIFIED WITH OWNER'S REPRESENTATIVE PRIOR TO ROUGH-IN. RECEPTACLES MOUNTED WITHIN 6 FEET OF ANY SINK SHALL BE G.F.C.I.
- D. ALL UNDERGROUND CONDUITS SHALL BE PVC SCHED. 40, MINIMUM 3/4"C. RUN CODE-SIZED INSULATED EQUIPMENT GROUND CONDUCTOR.

KEY NOTES

- # NUMBERS INDICATE NOTES SHOWN ON PLAN
- 1. PROVIDE 40A, 208V, 1Ø FOR EV CHARGING STATION WITH 3/4"C, 2#8, & 1#10 GND.
- 2. LIGHTING CONTROL PANEL "LCP1" TO BE MOUNTED ABOVE PANEL "HP1."
- 3. REFER TO MECHANICAL EQUIPMENT SCHEDULE ON SHEET E207 FOR FEEDER/BRANCH CIRCUIT INFORMATION.
- 4. PROVIDE 250A/3Ø, 208V, 3Ø ENCLOSED CIRCUIT BREAKER WITH SHUNT TRIP. PROVIDE 120V TO SHUNT TRIP RELAY AS REQUIRED. SHUNT TRIP RELAY/MODULE SHALL BE ROUTED VIA NORMALLY OPEN FIRE ALARM RELAY PER FIRE ALARM DRAWINGS. COORDINATE EXACT REQUIREMENTS WITH FIRE ALARM VENDOR / INSTALLER PRIOR TO ROUGH-IN.
- 5. PROVIDE 1/2" C.O.(S) FOR LOCAL AREA THERMOSTAT CONTROL AND CONNECTION TO FACP FOR HVAC SHUTDOWN AS REQUIRED. REFER TO THE MECHANICAL DRAWINGS OR EQUIPMENT CONTROL WIRING DIAGRAMS FOR MORE INFORMATION.
- 6. PROVIDE 120V POWER AND TO SECURITY KEYPAD AND STUB 1"C WITH PULL-STRING TO SECURITY PANEL. COORDINATE EXACT LOCATION AND REQUIREMENTS WITH SECURITY VENDOR PRIOR TO ROUGH-IN.
- 7. PROVIDE 120V, 30A POWER WITH 1/2"C, 2#10, 1#10G TO WATER HEATER WH-1. COORDINATE EXACT LOCATION AND REQUIREMENTS WITH PLUMBING PRIOR TO ROUGH-IN.
- 8. FAN COIL UNIT (FC-4) SHALL BE POWERED BY CORRESPONDING OUTDOOR UNIT CU-1. COORDINATE EXACT LOCATION AND REQUIREMENTS WITH MECHANICAL PRIOR TO ROUGH-IN.
- 9. PROVIDE 120V TO FIRE-SMOKE DAMPER AND SMOKE DETECTOR. COORDINATE EXACT LOCATION WITH MECHANICAL PRIOR TO ROUGH-IN.
- 10. PROVIDE 120V POWER TO STAND-BY GENERATOR'S BATTERY CHARGER. COORDINATE EXACT LOCATION AND REQUIREMENTS WITH GENERATOR MANUFACTURER PRIOR TO ROUGH-IN.
- 11. PROVIDE 120V POWER TO STAND-BY GENERATOR'S JACKET WATER HEATER. COORDINATE EXACT LOCATION AND REQUIREMENTS WITH GENERATOR MANUFACTURER PRIOR TO ROUGH-IN.
- 12. REFER TO GENERATOR SPECIFICATIONS AND CUT SHEET ON E406 & E407 FOR SIZE AND MORE INFORMATION.
- 13. ROUTE CIRCUIT VIA GFCI BREAKER. REFER TO RESPECTIVE PANEL SCHEDULE FOR MORE INFORMATION.

- 14. ROUTE RECEPTACLE CIRCUIT SHOWN WITH SUBSCRIPT "g" VIA LIGHTING CONTROL PANEL "LCP1" FOR PLUG CONTROL.
- 15. PROVIDE 120V TO FIRE ALARM CONTROL PANEL (FACP). COORDINATE EXACT LOCATION AND REQUIREMENTS WITH FIRE ALARM CONSULTANT / INSTALLER PRIOR TO ROUGH-IN.



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

SIGNAL PLAN NOTES

- A. CONDUITS SHALL (a) CONTAIN NO CONTINUOUS SECTIONS LONGER THAN 30M OR 98 FT, AND (b) CONTAIN NO MORE THAN (2) 90 DEGREE BENDS OR A REVERSE BEND WITHOUT INSTALLING A PULLBOX. CONDUITS IN PLACE OF PULLBOX IS UNACCEPTABLE.
- B. CONDUITS SHALL CONTAIN PLASTIC OR NYLON PULL TAPE RATED AT 200 LBS.
- C. CONDUIT BEND RADIUS SHALL BE (a) MINIMUM OF 6 TIMES OF THE INTERNAL CONDUIT DIAMETER FOR 2" CONDUITS OR SMALLER, AND (b) 10 TIMES THE INTERNAL DIAMETER FOR LARGER THAN 2" CONDUITS.
- D. TERMINATE CONDUITS THAT PROTRUDE THROUGH STRUCTURAL FLOORS 3" ABOVE THE FLOOR SURFACE.
- E. INSTALL BELL ENDS AND BUSHING AS REQUIRED ON ALL CONDUITS.
- F. ALL SUB-SLAB CONDUITS SHALL BE INSTALLED IN A MANNER THAT PREVENTS WATER INFILTRATION OF THE CONDUIT. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE RAIN WATER OR CONSTRUCTION WATER IS PREVENTED FROM ENTERING AND/OR REMOVED FROM THE CONDUITS PRIOR TO PLACEMENT OF COMMUNICATION CABLES.
- G. ALL PULLBOXES SHALL BE SIZES AND INSTALLED PER ANSI/TIA/EIA-569A. PULLBOXES FOR UNDER FLOOR CONDUIT RUNS ARE NOT PERMITTED UNLESS OTHERWISE NOTED. PULLBOXES FOR OVERHEAD CONDUIT RUNS SHALL BE LOCATED ABOVE ACCESSIBLE CEILINGS WITHIN THE ACCESSIBLE CEILING SPACE.
- H. CONTRACTOR SHALL SUBMIT FIRE ALARM PLANS AND OBTAIN APPROVAL PRIOR TO INSTALLATION.
- I. ALL WORK SHOWN SHALL BE IN ACCORDANCE WITH 2019 CALIFORNIA ELECTRICAL CODE (CEC).

PLAN NOTES

- A. ALL RECEPTACLES ON COMMON WALLS SHALL HAVE SEPARATE BOXES AND A 24" MINIMUM OFFSET.
- B. AN APPROVED FIRESTOP SYSTEM EQUAL TO OR GREATER THAN THE FIRE RATING OF THE WALL SHALL BE PROVIDED AT ALL PENETRATIONS THROUGH FIRE-RATED WALLS.
- C. MOUNTING HEIGHT OF ALL RECEPTACLES AT COUNTER SHALL BE VERIFIED WITH OWNER'S REPRESENTATIVE PRIOR TO ROUGH-IN. RECEPTACLES MOUNTED WITHIN 6 FEET OF ANY SINCK SHALL BE G.F.C.I.
- D. ALL UNDERGROUND CONDUITS SHALL BE PVC SCHED. 40, MINIMUM 3/4" C. RUN CODE-SIZED INSULATED EQUIPMENT GROUND CONDUCTOR.

KEY NOTES

- # NUMBERS INDICATE NOTES SHOWN ON PLAN
- 1. J-BOX TO BE PLACED IN ACCESSIBLE CEILING FOR CONNECTION TO MODULAR UNITS LOAD CENTER.
- 2. CONNECTION TO MODULAR UNITS LOAD CENTER TO BE COMPLETED ON SITE THROUGH UNITS CORRIDOR SPACE.
- 3. J-BOX IN ACCESSIBLE CEILING FOR BRANCH CIRCUITS FROM MODULAR UNITS LOAD CENTER TO DEVICES/LOADS. UP TO (4) BRANCH CIRCUITS PER J-BOX. PROVIDE AS REQUIRED PER UNIT PLANS.
- 4. SEE SHEET E203 FOR BRANCH CIRCUIT CONTINUATION.
- 5. REFER TO MECHANICAL EQUIPMENT SCHEDULE ON SHEET E207 FOR MOTOR FEEDER/BRANCH CIRCUIT INFORMATION.
- 6. PROVIDE 1/2" C.O.(S) FOR LOCAL AREA THERMOSTAT CONTROL AND CONNECTION TO FACP FOR HVAC SHUTDOWN AS REQUIRED. REFER TO THE MECHANICAL DRAWINGS OR EQUIPMENT CONTROL WIRING DIAGRAMS FOR MORE INFORMATION.
- 7. PROVIDE 120V TO RECIRC PUMP "CP-1". VERIFY EXACT LOCATION AND REQUIREMENTS WITH PLUMBING PRIOR TO ROUGH-IN.
- 8. PROVIDE 120V TO FIRE-SMOKE DAMPER AND SMOKE DETECTOR. COORDINATE EXACT LOCATION AND REQUIREMENTS WITH MECHANICAL PRIOR TO ROUGH-IN.
- 9. PROVIDE 120V TO (5) REMOTE PULSE METER READERS FOR UTILITY WATER SUB-METERING. COORDINATE EXACT LOCATION AND REQUIREMENTS WITH PLUMBING PRIOR TO ROUGH-IN.
- 10. PROVIDE 120V TO FIRE ALARM SYSTEM'S "PBS". COORDINATE EXACT LOCATION AND REQUIREMENTS WITH FIRE ALARM CONSULTANT / INSTALLER PRIOR TO ROUGH-IN.
- 11. MODULAR UNITS LOAD CENTER IS SHOWN FOR REFERENCE ONLY.



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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: 2/27/2024 4:00:43 PM

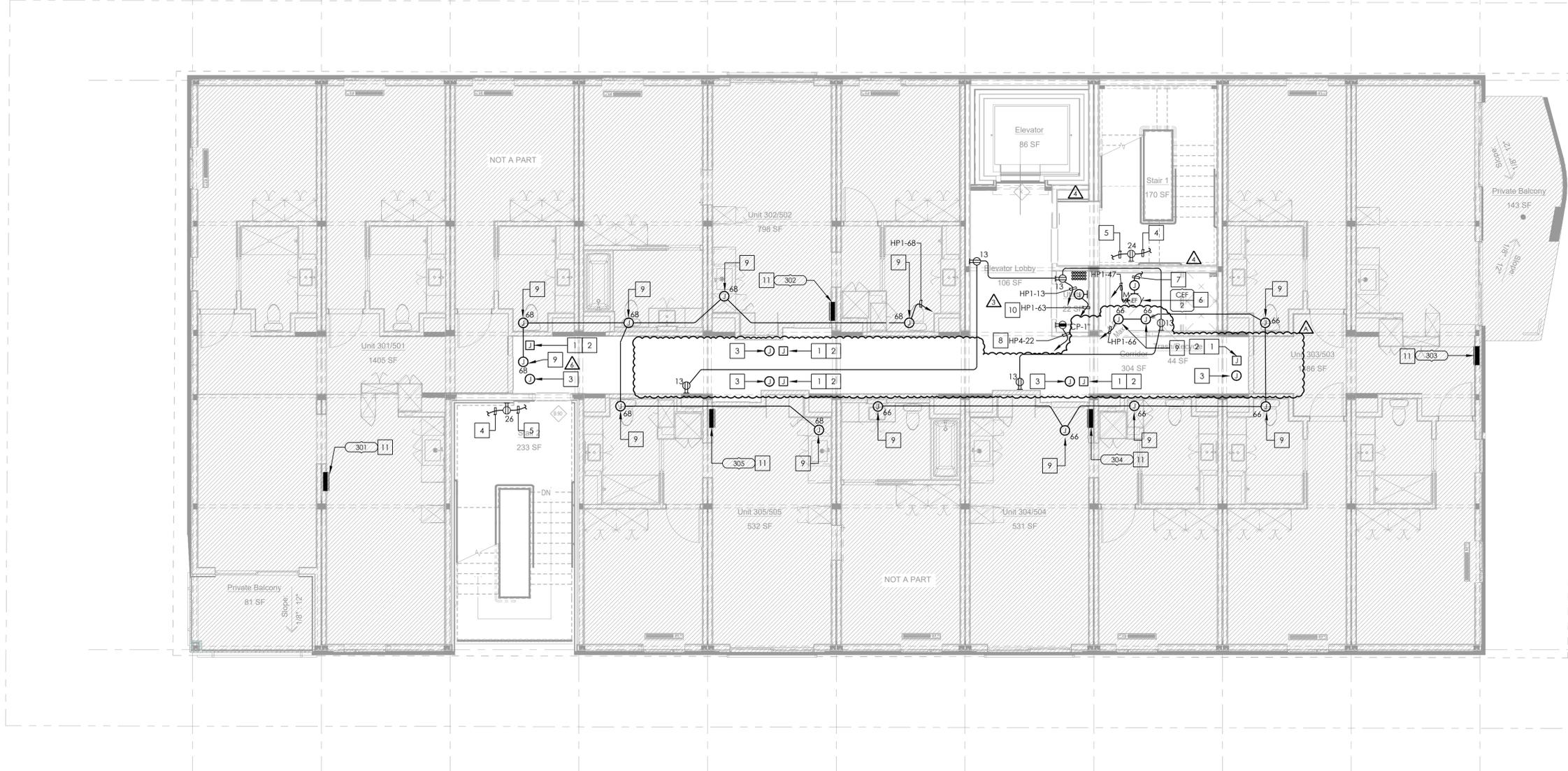
SHEET TITLE:

LEVEL 2 POWER PLAN

SHEET NO:

E202

M.11 M.10 M.9 M.8 M.7 M.6 M.5 M.4 M.3 M.2 M.1



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LOS ANGELES, CA 90015

PROJECT:
2853 WEST BLVD
LOS ANGELES, CA 90016



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

SIGNAL PLAN NOTES

- A. CONDUITS SHALL (a) CONTAIN NO CONTINUOUS SECTIONS LONGER THAN 30M OR 98 FT, AND (b) CONTAIN NO MORE THAN (2) 90 DEGREE BENDS OR A REVERSE BEND WITHOUT INSTALLING A PULLBOX. CONDUITS IN PLACE OF PULLBOX IS UNACCEPTABLE.
- B. CONDUITS SHALL CONTAIN PLASTIC OR NYLON PULL TAPE RATED AT 200 LBS.
- C. CONDUIT BEND RADIUS SHALL BE (a) MINIMUM OF 6 TIMES OF THE INTERNAL CONDUIT DIAMETER FOR 2" CONDUITS OR SMALLER, AND (b) 10 TIMES THE INTERNAL DIAMETER FOR LARGER THAN 2" CONDUITS.
- D. TERMINATE CONDUITS THAT PROTRUDE THROUGH STRUCTURAL FLOORS 3" ABOVE THE FLOOR SURFACE.
- E. INSTALL BELL ENDS AND BUSHING AS REQUIRED ON ALL CONDUITS.
- F. ALL SUB-SLAB CONDUITS SHALL BE INSTALLED IN A MANNER THAT PREVENTS WATER INFILTRATION OF THE CONDUIT. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE RAIN WATER OR CONSTRUCTION WATER IS PREVENTED FROM ENTERING AND/OR REMOVED FROM THE CONDUITS PRIOR TO PLACEMENT OF COMMUNICATION CABLES.
- G. ALL PULLBOXES SHALL BE SIZES AND INSTALLED PER ANSI/TIA/EIA-569A. PULLBOXES FOR UNDER FLOOR CONDUIT RUNS ARE NOT PERMITTED UNLESS OTHERWISE NOTED. PULLBOXES FOR OVERHEAD CONDUIT RUNS SHALL BE LOCATED ABOVE ACCESSIBLE CEILINGS WITHIN THE ACCESSIBLE CEILING SPACE.
- H. CONTRACTOR SHALL SUBMIT FIRE ALARM PLANS AND OBTAIN APPROVAL PRIOR TO INSTALLATION.
- I. ALL WORK SHOWN SHALL BE IN ACCORDANCE WITH 2019 CALIFORNIA ELECTRICAL CODE (CEC).

PLAN NOTES

- A. ALL RECEPTACLES ON COMMON WALLS SHALL HAVE SEPARATE BOXES AND A 24" MINIMUM OFFSET.
- B. AN APPROVED FIRESTOP SYSTEM EQUAL TO OR GREATER THAN THE FIRE RATING OF THE WALL SHALL BE PROVIDED AT ALL PENETRATIONS THROUGH FIRE-RATED WALLS.
- C. MOUNTING HEIGHT OF ALL RECEPTACLES AT COUNTER SHALL BE VERIFIED WITH OWNER'S REPRESENTATIVE PRIOR TO ROUGH-IN. RECEPTACLES MOUNTED WITHIN 6 FEET OF ANY SINK SHALL BE G.F.C.I.
- D. ALL UNDERGROUND CONDUITS SHALL BE PVC SCHED. 40, MINIMUM 3/4" C. RUN CODE-SIZED INSULATED EQUIPMENT GROUND CONDUCTOR.

KEY NOTES

- # NUMBERS INDICATE NOTES SHOWN ON PLAN
- 1. J-BOX TO BE PLACED IN ACCESSIBLE CEILING FOR CONNECTION TO MODULAR UNITS' LOAD CENTER.
- 2. CONNECTION TO MODULAR UNITS' LOAD CENTER TO BE COMPLETED ON SITE THROUGH UNITS' CORRIDOR SPACE.
- 3. J-BOX IN ACCESSIBLE CEILING FOR BRANCH CIRCUITS FROM MODULAR UNITS' LOAD CENTER TO DEVICES/LOADS. UP TO (4) BRANCH CIRCUITS PER J-BOX. PROVIDE AS REQUIRED PER UNIT PLANS.
- 4. REFER TO SHEET E204 FOR BRANCH CIRCUIT CONTINUATION.
- 5. REFER TO SHEET E202 FOR BRANCH CIRCUIT CONTINUATION.
- 6. REFER TO MECHANICAL EQUIPMENT SCHEDULE ON SHEET E207 FOR MOTOR FEEDER/BRANCH CIRCUIT INFORMATION.
- 7. PROVIDE 1/2" C.O.(S) FOR LOCAL AREA THERMOSTAT CONTROL AND CONNECTION TO FACP FOR HVAC SHUTDOWN AS REQUIRED. REFER TO THE MECHANICAL DRAWINGS OR EQUIPMENT CONTROL WIRING DIAGRAMS FOR MORE INFORMATION.
- 8. PROVIDE 120V TO RECIRC PUMP "CP-1". VERIFY EXACT LOCATION AND REQUIREMENTS WITH PLUMBING PRIOR TO ROUGH-IN.
- 9. PROVIDE 120V TO FIRE-SMOKE DAMPER AND SMOKE DETECTOR. COORDINATE EXACT LOCATION AND REQUIREMENTS WITH MECHANICAL PRIOR TO ROUGH-IN.
- 10. PROVIDE 120V TO (5) REMOTE PULSE METER READERS FOR UTILITY WATER SUB-METERING. COORDINATE EXACT LOCATION AND REQUIREMENTS WITH PLUMBING PRIOR TO ROUGH-IN.
- 11. MODULAR UNITS' LOAD CENTER IS SHOWN FOR REFERENCE ONLY.

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

Plot Date: 2/27/2024 3:56:38 PM

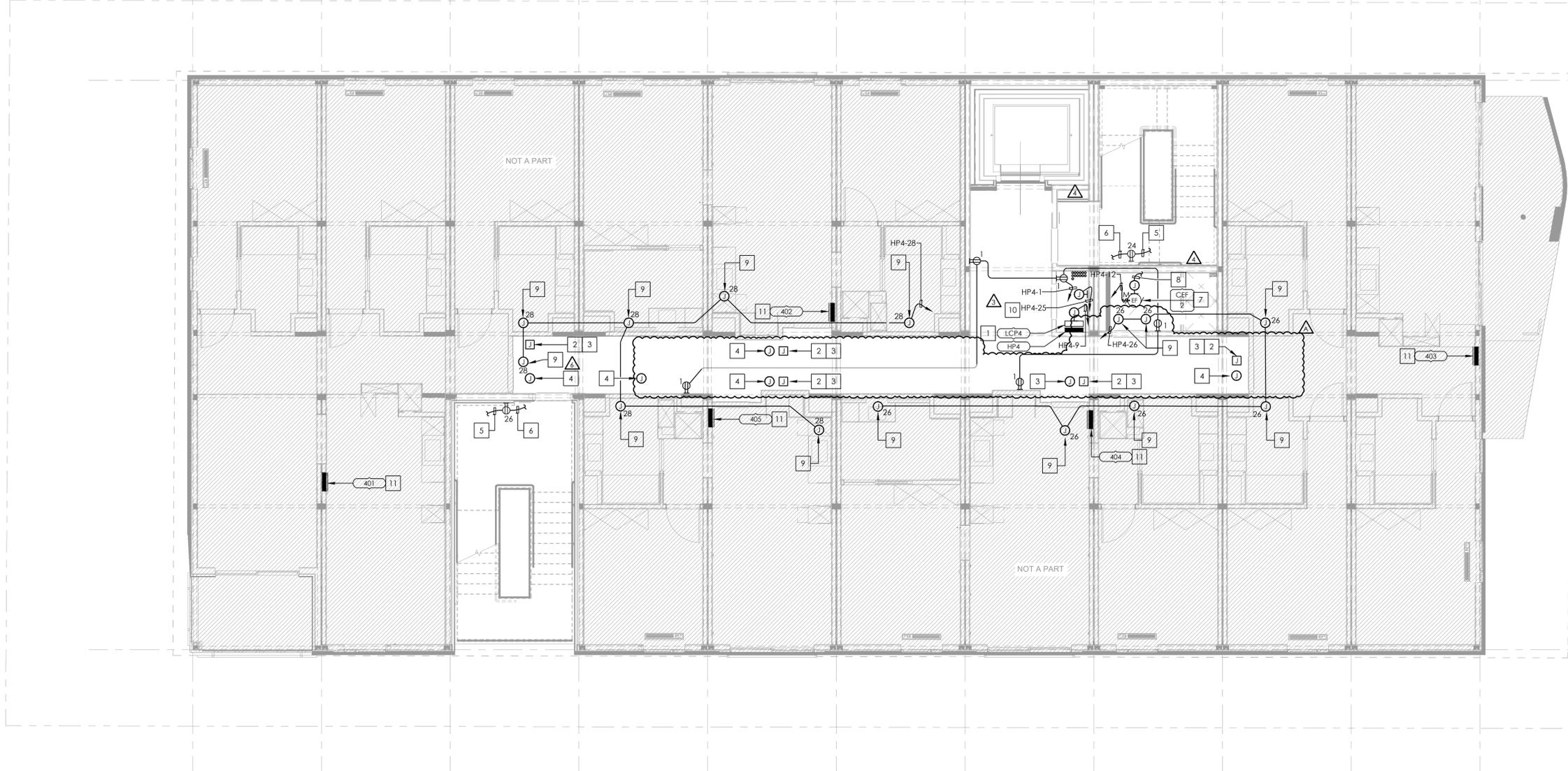
SHEET TITLE:

LEVEL 3 POWER PLAN

SHEET NO:

E203

M.11 M.10 M.9 M.8 M.7 M.6 M.5 M.4 M.3 M.2 M.1



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CLIENT:
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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
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△	HCD & PC RESUBMITTAL	06/06/23
△	HCD RESUBMITTAL	06/14/23
△	PC RESUBMITTAL	07/10/23
△	PC RESUBMITTAL	02/27/24

Plot Date: 2/27/2024 4:11:00 PM

SHEET TITLE:
LEVEL 4 POWER PLAN

SHEET NO:
E204

LEVEL 4 POWER PLAN SCALE 3/16" = 1'-0" 1

SIGNAL PLAN NOTES

- A. CONDUITS SHALL (a) CONTAIN NO CONTINUOUS SECTIONS LONGER THAN 30M OR 98 FT, AND (b) CONTAIN NO MORE THAN (2) 90 DEGREE BENDS OR A REVERSE BEND WITHOUT INSTALLING A PULLBOX. CONDUITS IN PLACE OF PULLBOX IS UNACCEPTABLE.
- B. CONDUITS SHALL CONTAIN PLASTIC OR NYLON PULL TAPE RATED AT 200 LBS.
- C. CONDUIT BEND RADIUS SHALL BE (a) MINIMUM OF 6 TIMES OF THE INTERNAL CONDUIT DIAMETER FOR 2" CONDUITS OR SMALLER, AND (b) 10 TIMES THE INTERNAL DIAMETER FOR LARGER THAN 2" CONDUITS.
- D. TERMINATE CONDUITS THAT PROTRUDE THROUGH STRUCTURAL FLOORS 3" ABOVE THE FLOOR SURFACE.
- E. INSTALL BELL ENDS AND BUSHING AS REQUIRED ON ALL CONDUITS.
- F. ALL SUB-SLAB CONDUITS SHALL BE INSTALLED IN A MANNER THAT PREVENTS WATER INFILTRATION OF THE CONDUIT. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE RAIN WATER OR CONSTRUCTION WATER IS PREVENTED FROM ENTERING AND/OR REMOVED FROM THE CONDUITS PRIOR TO PLACEMENT OF COMMUNICATION CABLES.
- G. ALL PULLBOXES SHALL BE SIZES AND INSTALLED PER ANSI/TIA/EIA-569A. PULLBOXES FOR UNDER FLOOR CONDUIT RUNS ARE NOT PERMITTED UNLESS OTHERWISE NOTED. PULLBOXES FOR OVERHEAD CONDUIT RUNS SHALL BE LOCATED ABOVE ACCESSIBLE CEILINGS WITHIN THE ACCESSIBLE CEILING SPACE.
- H. CONTRACTOR SHALL SUBMIT FIRE ALARM PLANS AND OBTAIN APPROVAL PRIOR TO INSTALLATION.
- I. ALL WORK SHOWN SHALL BE IN ACCORDANCE WITH 2019 CALIFORNIA ELECTRICAL CODE (CEC).

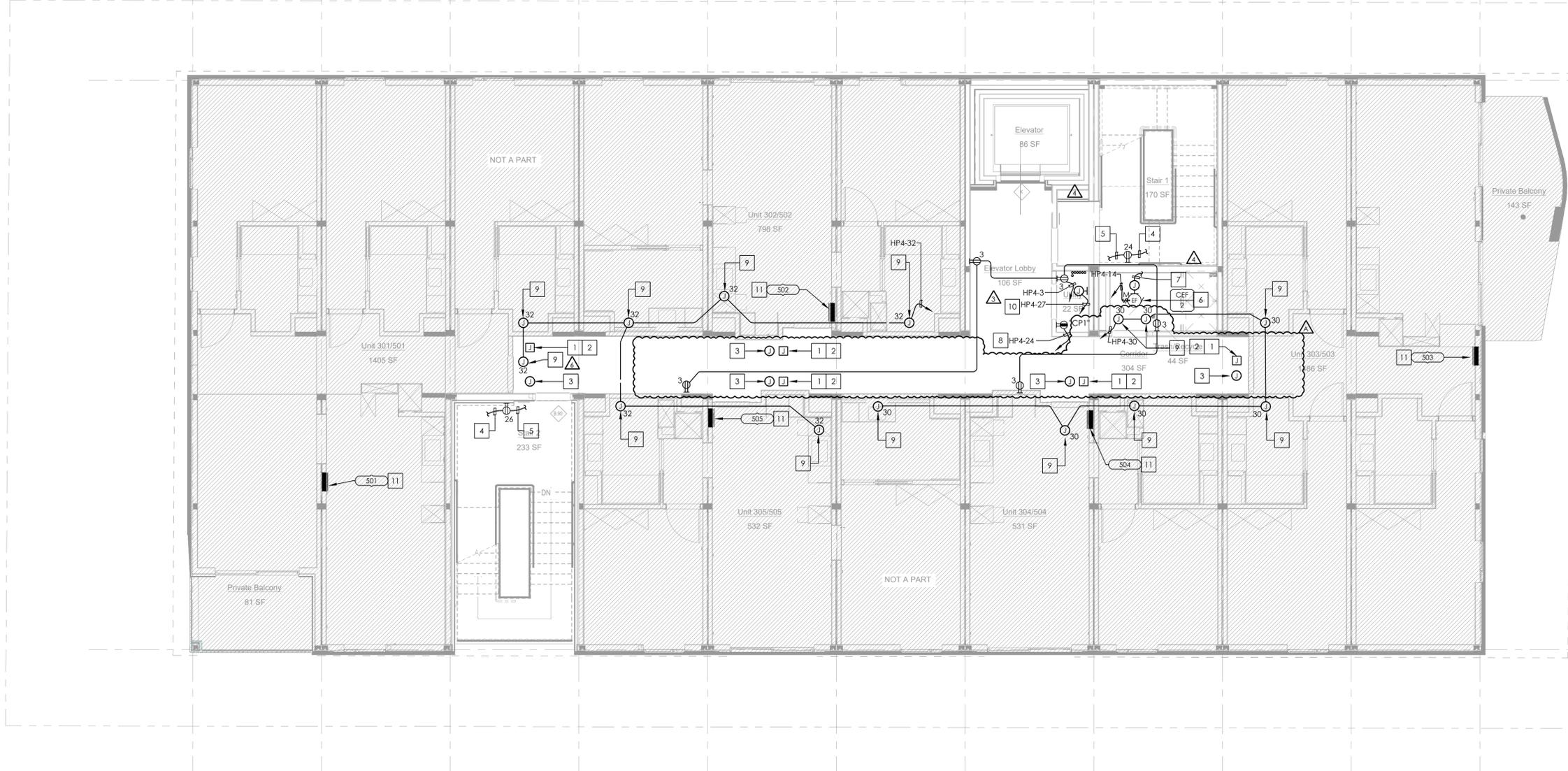
PLAN NOTES

- A. ALL RECEPTACLES ON COMMON WALLS SHALL HAVE SEPARATE BOXES AND A 24" MINIMUM OFFSET.
- B. AN APPROVED FIRESTOP SYSTEM EQUAL TO OR GREATER THAN THE FIRE RATING OF THE WALL SHALL BE PROVIDED AT ALL PENETRATIONS THROUGH FIRE-RATED WALLS.
- C. MOUNTING HEIGHT OF ALL RECEPTACLES AT COUNTER SHALL BE VERIFIED WITH OWNER'S REPRESENTATIVE PRIOR TO ROUGH-IN. RECEPTACLES MOUNTED WITHIN 6 FEET OF ANY SINK SHALL BE G.F.C.I.
- D. ALL UNDERGROUND CONDUITS SHALL BE PVC SCHED. 40, MINIMUM 3/4" C. RUN CODE-SIZED INSULATED EQUIPMENT GROUND CONDUCTOR.

KEY NOTES

- # NUMBERS INDICATE NOTES SHOWN ON PLAN
- 1. LIGHTING CONTROL PANEL "LCP4" TO BE MOUNTED ABOVE PANEL "HP4".
- 2. J-BOX TO BE PLACED IN ACCESSIBLE CEILING FOR CONNECTION TO MODULAR UNITS LOAD CENTER.
- 3. CONNECTION TO MODULAR UNITS LOAD CENTER TO BE COMPLETED ON SITE THROUGH UNITS CORRIDOR SPACE.
- 4. J-BOX IN ACCESSIBLE CEILING FOR BRANCH CIRCUITS FROM MODULAR UNITS LOAD CENTER TO DEVICES/LOADS. UP TO (4) BRANCH CIRCUITS PER J-BOX. PROVIDE AS REQUIRED PER UNIT PLANS.
- 5. REFER TO SHEET E205 FOR BRANCH CIRCUIT CONTINUATION.
- 6. REFER TO SHEET E203 FOR BRANCH CIRCUIT CONTINUATION.
- 7. REFER TO MECHANICAL EQUIPMENT SCHEDULE ON SHEET E207 FOR MOTOR FEEDER BRANCH CIRCUIT INFORMATION.
- 8. PROVIDE 1/2" C.O.(S) FOR LOCAL AREA THERMOSTAT CONTROL AND CONNECTION TO FACP FOR HVAC SHUTDOWN AS REQUIRED. REFER TO THE MECHANICAL DRAWINGS OR EQUIPMENT CONTROL WIRING DIAGRAMS FOR MORE INFORMATION.
- 9. PROVIDE 120V TO FIRE-SMOKE DAMPER AND SMOKE DETECTOR. COORDINATE EXACT LOCATION AND REQUIREMENTS WITH MECHANICAL PRIOR TO ROUGH-IN.
- 10. PROVIDE 120V TO EK4 PUSH3 GATEWAY AND TO (5) REMOTE PULSE METER READERS FOR UTILITY WATER SUB-METERING. COORDINATE EXACT LOCATION AND REQUIREMENTS WITH PLUMBING PRIOR TO ROUGH-IN.
- 11. MODULAR UNITS LOAD CENTER IS SHOWN FOR REFERENCE ONLY.

M.11 M.10 M.9 M.8 M.7 M.6 M.5 M.4 M.3 M.2 M.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
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△	HCD & PC RESUBMITTAL	06/06/23
△	HCD RESUBMITTAL	06/14/23
△	PC RESUBMITTAL	07/10/23
△	PC RESUBMITTAL	02/27/24

Plot Date: 2/27/2024 4:13:47 PM

SHEET TITLE:
LEVEL 5 POWER PLAN

SHEET NO:
E205

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

SIGNAL PLAN NOTES

- A. CONDUITS SHALL (a) CONTAIN NO CONTINUOUS SECTIONS LONGER THAN 30M OR 98 FT, AND (b) CONTAIN NO MORE THAN (2) 90 DEGREE BENDS OR A REVERSE BEND WITHOUT INSTALLING A PULLBOX. CONDUITS IN PLACE OF PULLBOX IS UNACCEPTABLE.
- B. CONDUITS SHALL CONTAIN PLASTIC OR NYLON PULL TAPE RATED AT 200 LBS.
- C. CONDUIT BEND RADIUS SHALL BE (a) MINIMUM OF 6 TIMES OF THE INTERNAL CONDUIT DIAMETER FOR 2" CONDUITS OR SMALLER, AND (b) 10 TIMES THE INTERNAL DIAMETER FOR LARGER THAN 2" CONDUITS.
- D. TERMINATE CONDUITS THAT PROTRUDE THROUGH STRUCTURAL FLOORS 3" ABOVE THE FLOOR SURFACE.
- E. INSTALL BELL ENDS AND BUSHING AS REQUIRED ON ALL CONDUITS.
- F. ALL SUB-SLAB CONDUITS SHALL BE INSTALLED IN A MANNER THAT PREVENTS WATER INFILTRATION OF THE CONDUIT. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE RAIN WATER OR CONSTRUCTION WATER IS PREVENTED FROM ENTERING AND/OR REMOVED FROM THE CONDUITS PRIOR TO PLACEMENT OF COMMUNICATION CABLES.
- G. ALL PULLBOXES SHALL BE SIZES AND INSTALLED PER ANSI/TIA/EIA-569A. PULLBOXES FOR UNDER FLOOR CONDUIT RUNS ARE NOT PERMITTED UNLESS OTHERWISE NOTED. PULLBOXES FOR OVERHEAD CONDUIT RUNS SHALL BE LOCATED ABOVE ACCESSIBLE CEILINGS WITHIN THE ACCESSIBLE CEILING SPACE.
- H. CONTRACTOR SHALL SUBMIT FIRE ALARM PLANS AND OBTAIN APPROVAL PRIOR TO INSTALLATION.
- I. ALL WORK SHOWN SHALL BE IN ACCORDANCE WITH 2019 CALIFORNIA ELECTRICAL CODE (CEC).

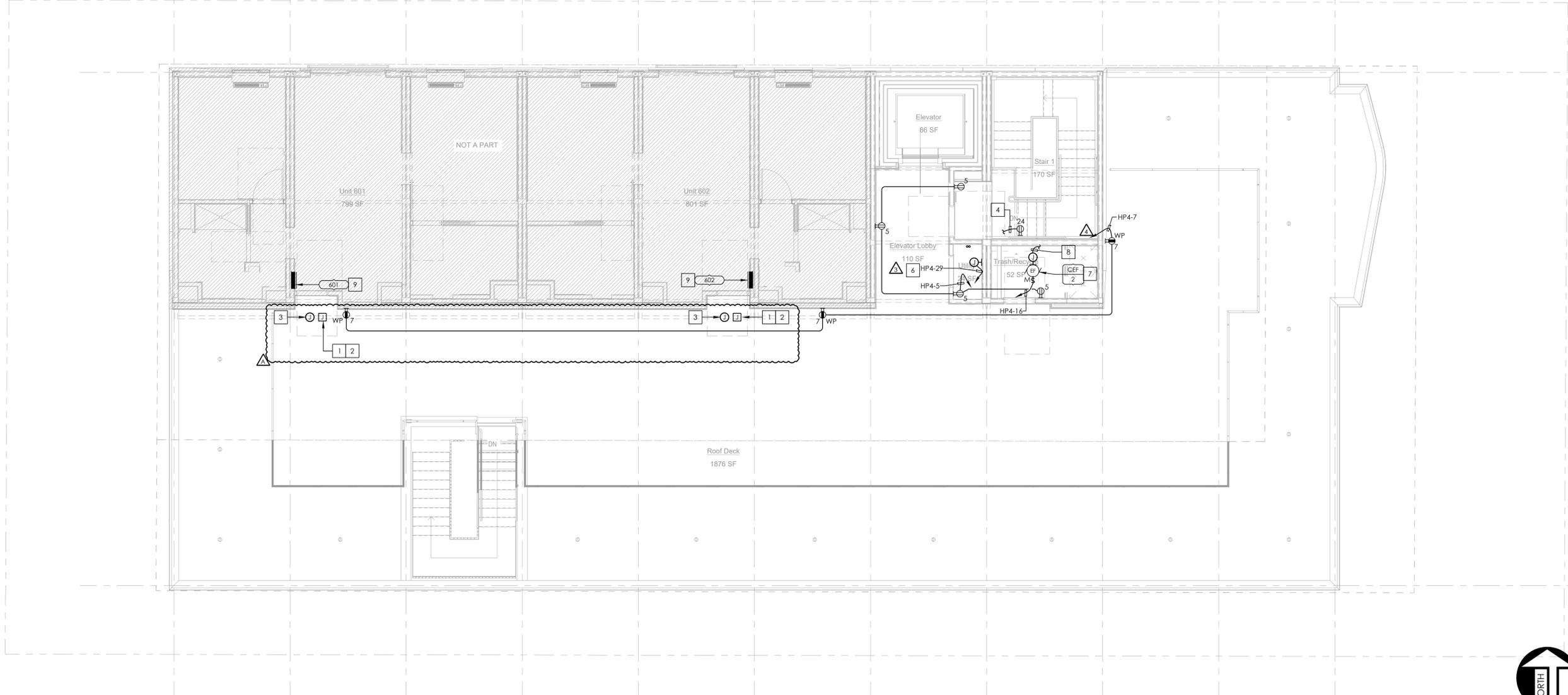
PLAN NOTES

- A. ALL RECEPTACLES ON COMMON WALLS SHALL HAVE SEPARATE BOXES AND A 24" MINIMUM OFFSET.
- B. AN APPROVED FIRESTOP SYSTEM EQUAL TO OR GREATER THAN THE FIRE RATING OF THE WALL SHALL BE PROVIDED AT ALL PENETRATIONS THROUGH FIRE-RATED WALLS.
- C. MOUNTING HEIGHT OF ALL RECEPTACLES AT COUNTER SHALL BE VERIFIED WITH OWNER'S REPRESENTATIVE PRIOR TO ROUGH-IN. RECEPTACLES MOUNTED WITHIN 6 FEET OF ANY SINCK SHALL BE G.F.C.I.
- D. ALL UNDERGROUND CONDUITS SHALL BE PVC SCHED. 40, MINIMUM 3/4" C. RUN CODE-SIZED INSULATED EQUIPMENT GROUND CONDUCTOR.

KEY NOTES

- # NUMBERS INDICATE NOTES SHOWN ON PLAN
- 1. J-BOX TO BE PLACED IN ACCESSIBLE CEILING FOR CONNECTION TO MODULAR UNITS' LOAD CENTER.
- 2. CONNECTION TO MODULAR UNITS' LOAD CENTER TO BE COMPLETED ON SITE THROUGH UNITS' CORRIDOR SPACE.
- 3. J-BOX IN ACCESSIBLE CEILING FOR BRANCH CIRCUITS FROM MODULAR UNITS' LOAD CENTER TO DEVICES/LOADS. UP TO (4) BRANCH CIRCUITS PER J-BOX. PROVIDE AS REQUIRED PER UNIT PLANS.
- 4. REFER TO SHEET E206 FOR BRANCH CIRCUIT CONTINUATION.
- 5. REFER TO SHEET E204 FOR BRANCH CIRCUIT CONTINUATION.
- 6. REFER TO MECHANICAL EQUIPMENT SCHEDULE ON SHEET E207 FOR MOTOR FEEDER/BRANCH CIRCUIT INFORMATION.
- 7. PROVIDE 1/2" C.O. (S) FOR LOCAL AREA THERMOSTAT CONTROL AND CONNECTION TO FACP FOR HVAC SHUTDOWN AS REQUIRED. REFER TO THE MECHANICAL DRAWINGS OR EQUIPMENT CONTROL WIRING DIAGRAMS FOR MORE INFORMATION.
- 8. PROVIDE 120V TO RECIRC PUMP "CP-1". VERIFY EXACT LOCATION AND REQUIREMENTS WITH PLUMBING PRIOR TO ROUGH-IN.
- 9. PROVIDE 120V TO FIRE-SMOKE DAMPER AND SMOKE DETECTOR. COORDINATE EXACT LOCATION AND REQUIREMENTS WITH MECHANICAL PRIOR TO ROUGH-IN.
- 10. PROVIDE 120V TO (S) REMOTE PULSE METER READERS FOR UTILITY WATER SUB-METERING. COORDINATE EXACT LOCATION AND REQUIREMENTS WITH PLUMBING PRIOR TO ROUGH-IN.
- △ 11. MODULAR UNITS' LOAD CENTER IS SHOWN FOR REFERENCE ONLY.

M.11 M.10 M.9 M.8 M.7 M.6 M.5 M.4 M.3 M.2 M.1



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

SIGNAL PLAN NOTES

- A. CONDUITS SHALL (a) CONTAIN NO CONTINUOUS SECTIONS LONGER THAN 30M OR 98 FT, AND (b) CONTAIN NO MORE THAN (2) 90 DEGREE BENDS OR A REVERSE BEND WITHOUT INSTALLING A PULLBOX. CONDUITS IN PLACE OF PULLBOX IS UNACCEPTABLE.
- B. CONDUITS SHALL CONTAIN PLASTIC OR NYLON PULL TAPE RATED AT 200 LBS.
- C. CONDUIT BEND RADIUS SHALL BE (a) MINIMUM OF 6 TIMES OF THE INTERNAL CONDUIT DIAMETER FOR 2" CONDUITS OR SMALLER, AND (b) 10 TIMES THE INTERNAL DIAMETER FOR LARGER THAN 2" CONDUITS.
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- E. INSTALL BELL ENDS AND BUSHING AS REQUIRED ON ALL CONDUITS.
- F. ALL SUB-SLAB CONDUITS SHALL BE INSTALLED IN A MANNER THAT PREVENTS WATER INFILTRATION OF THE CONDUIT. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE RAIN WATER OR CONSTRUCTION WATER IS PREVENTED FROM ENTERING AND/OR REMOVED FROM THE CONDUITS PRIOR TO PLACEMENT OF COMMUNICATION CABLES.
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- H. CONTRACTOR SHALL SUBMIT FIRE ALARM PLANS AND OBTAIN APPROVAL PRIOR TO INSTALLATION.
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- B. AN APPROVED FIRESTOP SYSTEM EQUAL TO OR GREATER THAN THE FIRE RATING OF THE WALL SHALL BE PROVIDED AT ALL PENETRATIONS THROUGH FIRE-RATED WALLS.
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- D. ALL UNDERGROUND CONDUITS SHALL BE PVC SCHED. 40, MINIMUM 3/4" C. RUN CODE-SIZED INSULATED EQUIPMENT GROUND CONDUCTOR.

KEY NOTES

- # NUMBERS INDICATE NOTES SHOWN ON PLAN
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- 2. CONNECTION TO MODULAR UNITS LOAD CENTER TO BE COMPLETED ON SITE THROUGH UNITS CORRIDOR SPACE.
- 3. J-BOX IN ACCESSIBLE CEILING FOR BRANCH CIRCUITS FROM MODULAR UNITS LOAD CENTER TO DEVICES/LOADS. UP TO (4) BRANCH CIRCUITS PER J-BOX. PROVIDE AS REQUIRED PER UNIT PLANS.
- 4. REFER TO SHEET E205 FOR BRANCH CIRCUIT CONTINUATION.
- 5. PROVIDE 120V TO FIRE-SMOKE DAMPER AND SMOKE DETECTOR. COORDINATE EXACT LOCATION WITH MECHANICAL PRIOR TO ROUGH-IN.
- 6. PROVIDE 120V TO (1) REMOTE PULSE METER READER FOR UTILITY WATER SUB-METERING. COORDINATE EXACT LOCATION AND REQUIREMENTS WITH PLUMBING PRIOR TO ROUGH-IN.
- 7. REFER TO MECHANICAL EQUIPMENT SCHEDULE ON SHEET E207 FOR MOTOR FEEDER/BRANCH CIRCUIT INFORMATION.
- 8. PROVIDE 1/2" C.O.(S) FOR LOCAL AREA THERMOSTAT CONTROL AND CONNECTION TO FACP FOR HVAC SHUTDOWN AS REQUIRED. REFER TO THE MECHANICAL DRAWINGS OR EQUIPMENT CONTROL WIRING DIAGRAMS FOR MORE INFORMATION.
- 9. MODULAR UNITS LOAD CENTER IS SHOWN FOR REFERENCE ONLY.



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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

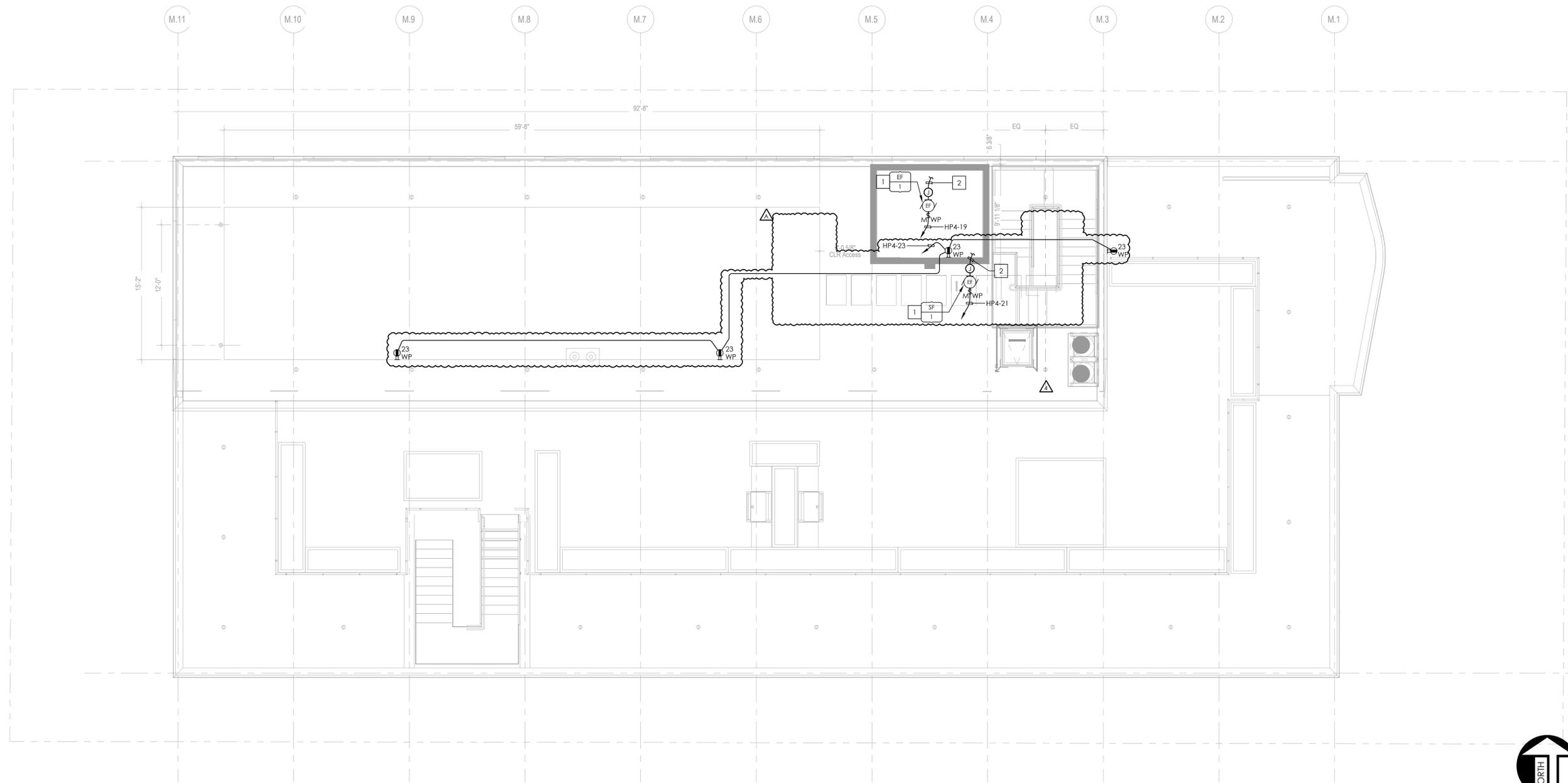
C-JAIME-001

#	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: 2/27/2024 4:09:09 PM

SHEET TITLE:
LEVEL 6 POWER PLAN

SHEET NO:
E206



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LOS ANGELES, CA 90015

PROJECT:

2853 WEST BLVD
LOS ANGELES, CA 90016



ROOF PLAN SCALE 3/16" = 1'-0" 1

MECHANICAL EQUIPMENT SCHEDULE

UNIT	V/P	HP/W	FLA	MCA	MOCP	DISC. SIZE/ FUSE SIZE	FEEDER	KEYED NOTES
HP 3	230-1	-	28	35	50	60AS/NF 2P, WP	1" C, 2#6, 1#10G	A B
VRF 1	230-1	-	0.2	0.25	15	30AS/NF 2P	1/2" C, 2#12, 1#12G	A B
VRF 2	230-1	-	0.8	1.0	15	30AS/NF 2P	1/2" C, 2#12, 1#12G	A B
FC 4	230-1	-	0.8	1	15	30AS/NF 2P	1/2" C, 2#12, 1#12G	A B C
CU 1	208-1	-	9.6	12	15	30AS/NF 2P, WP	1/2" C, 2#12, 1#12G	A B
EF 1	120-1	73W	0.61	0.76	20	M ₂ WP	1/2" C, 2#12, 1#12G	A D
CEF 2	115-1	49.2W	0.43	0.53	20	M ₂	1/2" C, 2#12, 1#12G	A
CEF 3	115-1	125W	1.08	1.36	20	M ₂	1/2" C, 2#12, 1#12G	A E
SF 1	115-1	1/4	5.8	7.25	20	M ₂ WP	1/2" C, 2#12, 1#12G	A E

- A INDICATED FUSE SIZE IS BASED ON THE MOCP AS SHOWN ON THE MECHANICAL DRAWINGS. CONTRACTOR TO VERIFY AND PROVIDE FUSE SIZE PER THE MANUFACTURER'S NAMEPLATE. FUSE RATING SHOWN ON THE MANUFACTURER'S EQUIPMENT NAMEPLATE TAKES PRECEDENCE OVER THE MOCP.
- B NON-FUSED DISCONNECT BY OTHERS.
- C POWERED VIA CU-1.
- D INTERLOCK FAN WITH TIME CLOCK.
- E FAN TO OPERATE CONTINUOUSLY.

PLAN NOTES

- A. CONTRACTOR TO VERIFY EXACT LOCATION AND REQUIREMENTS WITH MECHANICAL PRIOR TO ROUGH-IN.
- B. ALL ELECTRICAL DEVICES MOUNTED ON THE ROOF SHALL BE WEATHERPROOF TYPE. COMPLETE INSTALLATION SHALL CONFORM TO THE REQUIREMENTS OF CALIFORNIA ELECTRICAL CODE (CEC) ARTICLES 430 AND 440. RECEPTACLES SHALL BE GFCI TYPE.

KEY NOTES

- # NUMBERS INDICATE NOTES SHOWN ON PLAN
1. REFER TO MECHANICAL EQUIPMENT SCHEDULE FOR MOTOR FEEDER/BRANCH CIRCUIT INFORMATION.
2. PROVIDE 1/2" C.O.(S) FOR LOCAL AREA THERMOSTAT CONTROL AND CONNECTION TO FACP FOR HVAC SHUTDOWN AS REQUIRED. REFER TO THE MECHANICAL DRAWINGS OR EQUIPMENT CONTROL WIRING DIAGRAMS FOR MORE INFORMATION.

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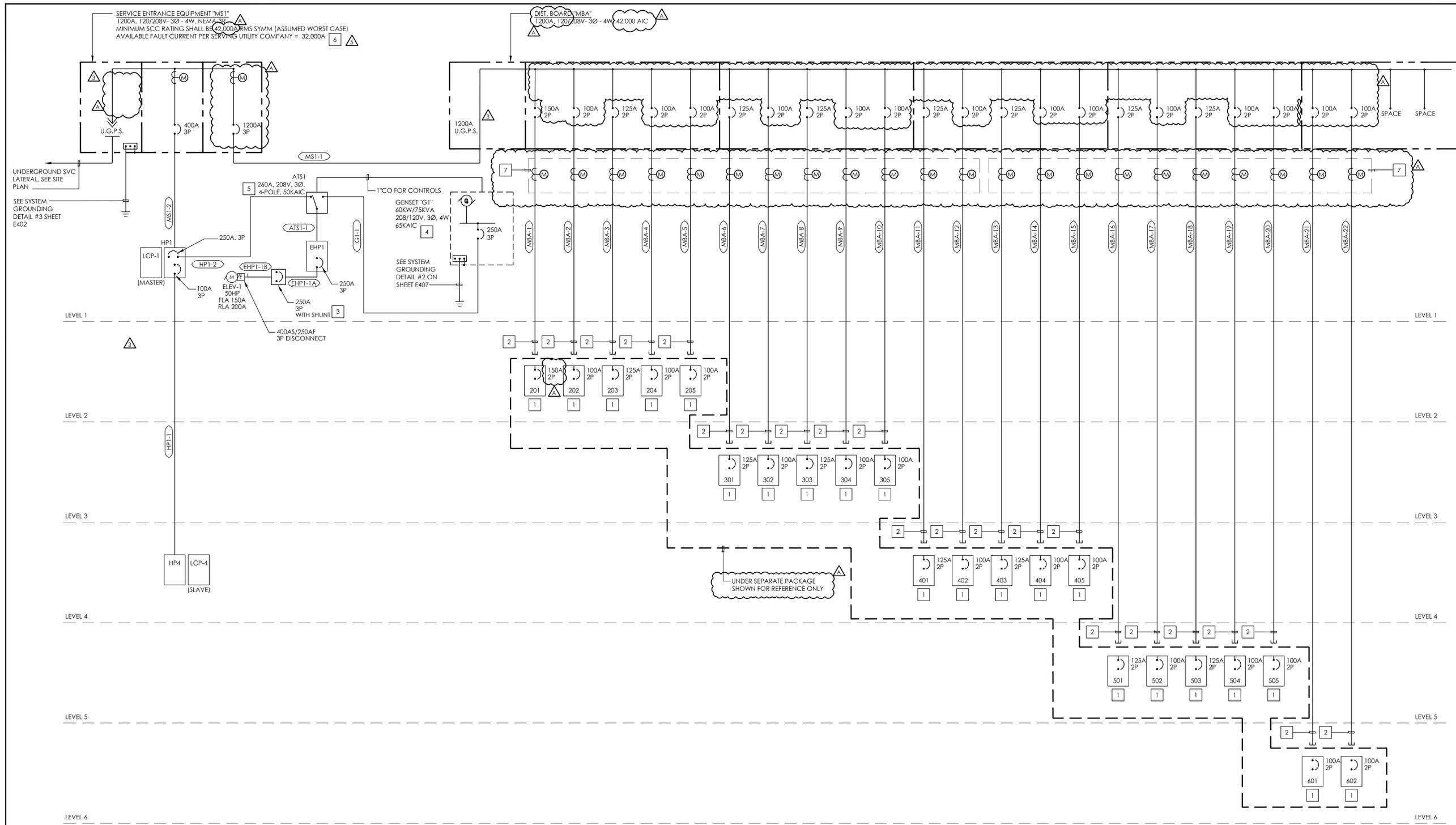
Plot Date: 2/27/2024 4:11:29 PM

SHEET TITLE:

ROOF PLAN

SHEET NO:

E207



GENERAL SINGLE-LINE DIAGRAM NOTES:

- ALL DEVICES/ITEMS SHOWN ON THE SINGLE LINE DRAWINGS ARE NEW UNLESS OTHERWISE NOTED.
- ALL OVERCURRENT DEVICES IN AN INDIVIDUAL PIECE OF EQUIPMENT SHALL HAVE AN AIC RATING EQUAL TO THE OVERALL RATING OF THE EQUIPMENT-SERIES RATING OF DEVICES WITHIN A PIECE OF EQUIPMENT IS NOT ALLOWED. SEE SPECIFICATIONS FOR MORE INFORMATION.
- ALL TERMINATIONS AND ENCLOSURES SHALL BE RATED FOR USE WITH 75 DEGREE CELSIUS CONDUCTORS.
- CONTRACTOR TO OBTAIN FAULT CURRENT RATING FROM THE UTILITY COMPANY PRIOR TO PURCHASE OF EQUIPMENT. SEE ELECTRICAL SPECIFICATION FOR ADDITIONAL REQUIREMENTS.
- HORIZONTAL BUS AND VERTICAL BUS SHALL BE FULL LENGTH AND NON-TAPERED.
- ALL OVERCURRENT DEVICES SERVING ELEVATORS SHALL BE SHUNT TRIP TYPE BREAKER. REFER TO CENTRAL MONITORING SYSTEM SCHEMATIC AND ELEVATOR DETAIL FOR ADDITIONAL INFORMATION.
- CONTRACTOR SHALL CONDUCT, WITH THE ASSISTANCE OF THE SWITCH GEAR MANUFACTURER, AN ELECTRICAL HAZARD ANALYSIS CONSISTING OF AN ARC FLASH STUDY, SHORT CIRCUIT STUDY AND AN COORDINATION STUDY TO DETERMINE APPROPRIATE LEVEL OF PERSONNEL PROTECTIVE EQUIPMENT (PPE) AS REQUIRED BY NFPA 70E & IEEE STD 1584, AND TO ENSURE PROPER COORDINATION (INCLUDING GROUND FAULT COORDINATION) EXISTS BETWEEN ALL OVER CURRENT PROTECTIVE DEVICES SHOWN ON THE SINGLE LINE.
- ALL SWITCHGEAR WITH OVERCURRENT DEVICE RATED OR CAN BE ADJUSTED AT 1200A OR HIGHER SHALL BE PROVIDED WITH ENERGY-REDUCING ACTIVE ARC FLASH MITIGATION SYSTEM OR AN APPROVED EQUIVALENT MEANS IN ACCORDANCE WITH NEC (OR CEC WHERE ADOPTED) 240.87.

KEYNOTES:

- 125A, 120/208V, 1Ø, 3W LOAD CENTER TO BE PROVIDED WITH MODULAR UNIT (BY OTHERS UNDER SEPARATE PERMIT).
- CONTRACTOR TO STUB FEEDER IN ACCESSIBLE CEILING OUTSIDE RESPECTIVE MODULAR UNIT TO BE EXTENDED TO MODULAR UNIT'S LOAD CENTER.
- PROVIDE 250A, 3P, 208V ENCLOSED CIRCUIT BREAKER WITH SHUNT TRIP. PROVIDE 120V TO SHUNT TRIP RELAY AS REQUIRED. SHUNT TRIP RELAY/MODULE SHALL BE ROUTED VIA NORMALLY OPEN FIRE ALARM RELAY PER FIRE ALARM DRAWINGS. COORDINATE EXACT REQUIREMENTS WITH FIRE ALARM VENDOR / INSTALLER PRIOR TO ROUGH-IN.
- REFER TO GENERATOR SPECIFICATIONS ON SHEET E406 AND GENERATOR CUTSHEETS ON SHEET E407 FOR MORE INFORMATION.
- REFER TO ATS SPECIFICATIONS AND CUTSHEETS ON SHEET E408 FOR MORE INFORMATION.
- REFER TO SHEET E409 LADWP APPROVED DRAWINGS FOR UTILITY COMPANIES AVAILABLE FAULT CURRENT VALUES.
- PROVIDE SUB-METERING EQUAL TO LEVITON "VERIFEYE" SERIES 8000 MULTIPLE POINT SMART METER KIT AT 120/208V, 1Ø, 3W WITH 12x2 PHASE CONFIGURATION.

REFER TO SHEET E402 FOR FEEDER SCHEDULE, VOLTAGE DROP VALUES AND AVAILABLE FAULT CURRENT VALUES. REFER TO SHEET E403 FOR LOAD CALCULATIONS.



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30 THOMAS, IRVINE, CA 92618-2703
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CLIENT:

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PROJECT:

2853 WEST BLVD
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⚠	PC RESUBMITTAL	07/10/23
⚠	PC RESUBMITTAL	02/27/24

Plot Date: 2/27/2024 4:01:41 PM

SHEET TITLE:

SINGLE-LINE DIAGRAM

SHEET NO:

E401



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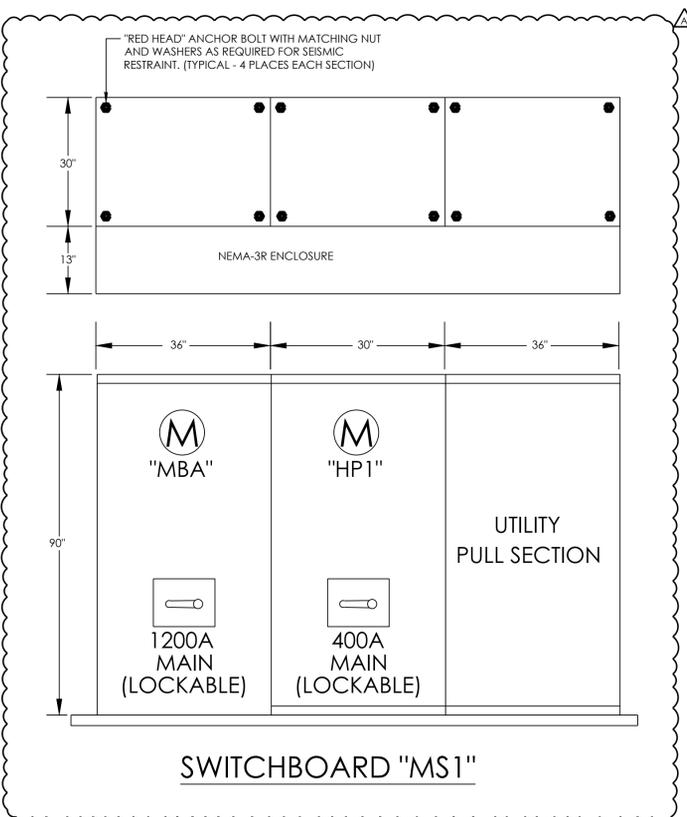
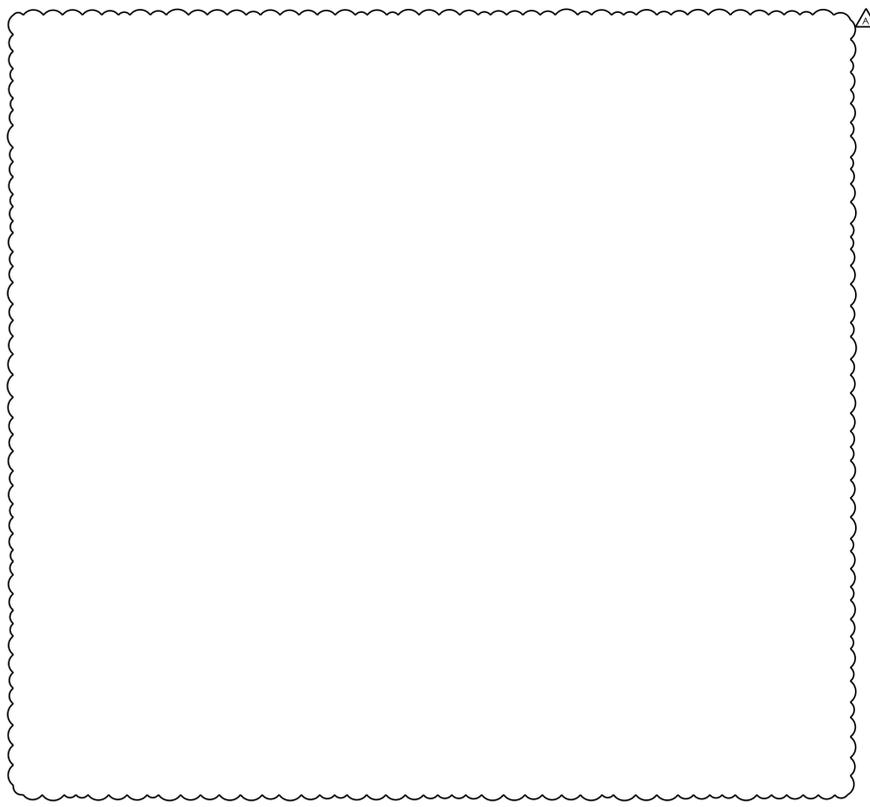
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SHEET TITLE:

FEEDER SCHEDULE AND DETAILS

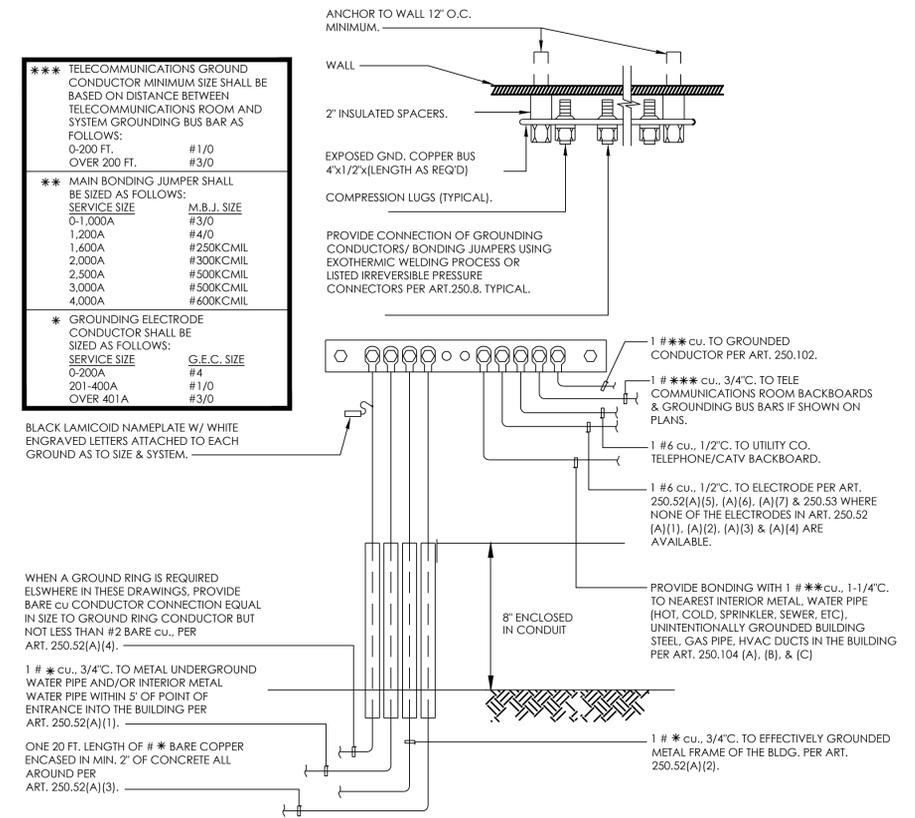
SHEET NO:

E402



SWITCHBOARD ELEVATION

SCALE: NTS 2



SYSTEM GROUNDING DETAIL

SCALE: NTS 3

FEEDER	PANEL	CONDUIT & CONDUCTORS	DIST. IN FT	V.D. %	A.F.C.	NOTES
MBA-16	501	2"C, 3#2/O CU, 1#4 GND CU	264	2.45	3.8K	ADJUSTED FOR VOLTAGE DROP
MBA-17	502	2"C, 3#1/O CU, 1#6 GND CU	219	2.56	3.7K	ADJUSTED FOR VOLTAGE DROP
MBA-18	503	2"C, 3#1/O CU, 1#6 GND CU	224	2.62	3.6K	ADJUSTED FOR VOLTAGE DROP
MBA-19	504	2"C, 3#1/O CU, 1#6 GND CU	201	2.35	4.0K	ADJUSTED FOR VOLTAGE DROP
MBA-20	505	2"C, 3#1/O CU, 1#6 GND CU	210	2.46	3.8K	ADJUSTED FOR VOLTAGE DROP
MBA-21	601	2"C, 3#1/O CU, 1#6 GND CU	253	2.35	3.9K	ADJUSTED FOR VOLTAGE DROP
MBA-22	602	2"C, 3#1/O CU, 1#6 GND CU	230	2.69	3.6K	ADJUSTED FOR VOLTAGE DROP
HP1-1	HP4	1-1/2"C, 4#1 CU, 1#8GND CU	84	1.03	6.1K	
HP1-2	ATS1	2-1/2"C, 4#250KCMIL CU, 1#4GND CU	35	0.31	14.4K	
G1-1	ATS1	2-1/2"C, 4#250KCMIL CU, 1#4GND CU	125	1.11	14.0K	
ATS1-1	EHP1	2-1/2"C, 4#250KCMIL CU, 1#4GND CU	50	0.44	10.9K	
EHP1-1A	ELEV-1 VIA ENCL CB	2-1/2"C, 3#4/O CU, 1#4GND CU	30	0.24	9.4K	
EHP1-1B	ELEV-1	2-1/2"C, 3#4/O CU, 1#4GND CU	15	0.12	8.7K	

FEEDER	PANEL	CONDUIT & CONDUCTORS	DIST. IN FT	V.D. %	A.F.C.	NOTES
MS1-1	MBA	(3) SETS OF 4"C WITH 4#600KCMIL CU, 1#3/O GND CU IN EACH	120	0.89	23.2K	
MS1-2	HP1	4"C, 4#600KCMIL CU, 1#3 GND CU	130	0.77	14.3K	
MBA-1	201	2"C, 3#2/O CU, 1#4 GND CU	231	3.22	4.2K	ADJUSTED FOR VOLTAGE DROP
MBA-2	202	1-1/2"C, 3#1 CU, 1#8 GND CU	186	2.18	4.3K	
MBA-3	203	2"C, 3#1/O CU, 1#6 GND CU	191	2.23	4.2K	
MBA-4	204	1-1/2"C, 3#1 CU, 1#8 GND CU	168	1.97	4.6K	
MBA-5	205	1-1/2"C, 3#1 CU, 1#8 GND CU	177	2.07	4.4K	
MBA-6	301	2"C, 3#1/O CU, 1#6 GND CU	242	2.83	3.4K	
MBA-7	302	1-1/2"C, 3#1 CU, 1#8 GND CU	197	2.31	4.1K	
MBA-8	303	2"C, 3#1/O CU, 1#6 GND CU	202	2.36	4.0K	
MBA-9	304	1-1/2"C, 3#1 CU, 1#8 GND CU	179	2.09	4.4K	
MBA-10	305	1-1/2"C, 3#1 CU, 1#8 GND CU	188	2.20	4.2K	
MBA-11	401	2"C, 3#1/O CU, 1#6 GND CU	253	2.96	3.3K	ADJUSTED FOR VOLTAGE DROP
MBA-12	402	2"C, 3#1/O CU, 1#6 GND CU	208	2.43	3.9K	
MBA-13	403	2"C, 3#1/O CU, 1#6 GND CU	213	2.49	3.8K	
MBA-14	404	2"C, 3#1/O CU, 1#6 GND CU	190	2.22	4.2K	ADJUSTED FOR VOLTAGE DROP
MBA-15	405	1-1/2"C, 3#1 CU, 1#8 GND CU	199	2.33	4.0K	

FEEDER SCHEDULE GENERAL NOTES:

- ALL FEEDERS SHOWN, UNLESS SPECIFICALLY NOTED OTHERWISE, ARE PRESUMED TO BE ROUTED IN METAL RACEWAYS. IF P.V.C. CONDUITS ARE UTILIZED, THE CONTRACTOR SHALL PROVIDE AN EQUIPMENT GROUND PER NEC, OR CEC WHERE ADOPTED, TABLE 250.122 OR, WHERE REQUIRED, PROVIDE A MAIN BONDING JUMPER PER TABLE 250.66 AND INCREASE THE CONDUIT SIZE ACCORDINGLY.
- THE VALUE INDICATED IS THE VOLTAGE DROP AT THE END OF THE FEEDER.
- DISTANCE SHOWN IS FOR DESIGN PURPOSES ONLY AND IS NOT INTENDED FOR MATERIAL TAKEOFF.
- CALCULATIONS ARE BASED UPON INITIAL VALUES RECEIVED FROM THE SERVING UTILITY OR ASSUMED WORST-CASE VALUE AND LENGTH/IMPEDANCE OF THE FEEDER. THE VALUE INDICATED IS THE AVAILABLE FAULT CURRENT AT THE END THE FEEDER.

FEEDER SCHEDULE

SCALE: NTS 1

Feeder	Voltage	Phase	I(SC)	C	L	I (SC)
* MS1-2	208	3	32000	28033	130	14322.4 Amps
Three phase fault current						
f =	1.23	M =	0.4476			
* HP1-1	208	3	14322.42	7493	84	6132.66 Amps
Three phase fault current						
f =	1.34	M =	0.4282			
* MBA-1	208	1	23192.23	9317	231	3552.2 Amps
Three phase fault current						
f =	5.53	M =	0.1532			
* MBA-2	208	1	23192.23	9317	186	4253.97 Amps
Three phase fault current						
f =	4.45	M =	0.1834			
* MBA-3	208	1	23192.23	9317	191	4162.59 Amps
Three phase fault current						
f =	4.57	M =	0.1795			
* MBA-4	208	1	23192.23	9317	168	4618.98 Amps
Three phase fault current						
f =	4.02	M =	0.1992			
* MBA-5	208	1	23192.23	9317	177	4428.96 Amps
Three phase fault current						
f =	4.24	M =	0.191			
* MBA-6	208	1	23192.23	9317	242	3414.51 Amps
Three phase fault current						
f =	5.79	M =	0.1472			
* MBA-7	208	1	23192.23	9317	197	4058 Amps
Three phase fault current						
f =	4.72	M =	0.175			
* MBA-8	208	1	23192.23	9317	202	3974.77 Amps
Three phase fault current						
f =	4.83	M =	0.1714			
* MBA-9	208	1	23192.23	9317	179	4388.84 Amps
Three phase fault current						
f =	4.28	M =	0.1892			
* MBA-10	208	1	23192.23	9317	188	4216.94 Amps
Three phase fault current						
f =	4.50	M =	0.1818			
* MBA-11	208	1	23192.23	9317	253	3287.09 Amps
Three phase fault current						
f =	6.06	M =	0.1417			
* MBA-12	208	1	23192.23	9317	208	3879.29 Amps
Three phase fault current						
f =	4.98	M =	0.1673			
* MBA-13	208	1	23192.23	9317	213	3803.16 Amps
Three phase fault current						
f =	5.10	M =	0.164			

Feeder	Voltage	Phase	I(SC)	C	L	I (SC)
* MBA-14	208	1	23192.23	9317	190	4180.55 Amps
Three phase fault current						
f =	4.55	M =	0.1803			
* MBA-15	208	1	23192.23	9317	199	4024.29 Amps
Three phase fault current						
f =	4.76	M =	0.1735			
* MBA-16	208	1	23192.23	11423	264	3768.73 Amps
Three phase fault current						
f =	5.15	M =	0.1625			
* MBA-17	208	1	23192.23	9317	219	3715.66 Amps
Three phase fault current						
f =	5.24	M =	0.1602			
* MBA-18	208	1	23192.23	9317	224	3645.75 Amps
Three phase fault current						
f =	5.36	M =	0.1572			
* MBA-19	208	1	23192.23	9317	201	3991.14 Amps
Three phase fault current						
f =	4.81	M =	0.1721			
* MBA-20	208	1	23192.23	9317	210	3848.47 Amps
Three phase fault current						
f =	5.03	M =	0.1659			
* MBA-21	208	1	23192.23	11423	253	3904.99 Amps
Three phase fault current						
f =	4.94	M =	0.1684			
* MBA-22	208	1	23192.23	9317	230	3565.27 Amps
Three phase fault current						
f =	5.51	M =	0.1537			

TYPE 4: UNITS "301", "401" & "501" FOR REFERENCE ONLY

SQUARE-FOOTAGE	=	1353 SF
GENERAL LOAD @ 3VA/SF	=	4059 VA
SMALL APPLIANCE @ 1500 VA / EA (2)	=	3000 VA
OVEN RANGE	=	8100 VA
WASHER / DRYER	=	1240 VA
RANGE HOOD	=	300 VA
MICROWAVE	=	1000 VA
GARBAGE DISPOSAL	=	1176 VA
REFRIGERATOR	=	1500 VA
DISHWASHER	=	1176 VA
EXHAUST FANS	=	200 VA
TOTAL LOAD	=	21751 VA
PER NEC 220.82	=	
FIRST 10KVA LOAD AT 100%	=	10000 VA
REMAINDER OF OTHER LOADS AT 40%	=	4700 VA
(1) FC/HP-2 UNITS @ 2330 VA EACH	=	2330 VA
(3) HPAC UNITS @ 2430 VA EACH	=	7290 VA
TOTAL	=	24320 VA OR
22 UNIT RESIDENTIAL	=	116.9 A @ 120/208V, 1Ø, 3W
LOAD CENTER SIZE	=	125.0 A

TYPE 5: UNIT "201" FOR REFERENCE ONLY

SQUARE-FOOTAGE	=	1612 SF
GENERAL LOAD @ 3VA/SF	=	4836 VA
SMALL APPLIANCE @ 1500 VA / EA (2)	=	3000 VA
OVEN RANGE	=	8100 VA
WASHER / DRYER	=	1240 VA
RANGE HOOD	=	300 VA
MICROWAVE	=	1000 VA
GARBAGE DISPOSAL	=	1176 VA
REFRIGERATOR	=	1500 VA
DISHWASHER	=	1176 VA
EXHAUST FANS	=	200 VA
TOTAL EXISTING LOAD	=	22528 VA
PER NEC 220.82	=	
FIRST 10KVA LOAD AT 100%	=	10000 VA
REMAINDER OF OTHER LOADS AT 40%	=	5011 VA
(1) FC/HP-2 UNITS @ 2330 VA EACH	=	2330 VA
(4) HPAC UNITS @ 2430 VA EACH	=	9720 VA
TOTAL	=	27061 VA OR
22 UNIT RESIDENTIAL	=	130.1 A @ 120/208V, 1Ø, 3W
LOAD CENTER SIZE	=	150.0 A

TYPE 2: UNITS "204", "302", "305", "402", "502", "601" & "602" FOR REFERENCE ONLY

SQUARE-FOOTAGE	=	781 SF
GENERAL LOAD @ 3VA/SF	=	2343 VA
SMALL APPLIANCE @ 1500 VA / EA (2)	=	3000 VA
OVEN RANGE	=	8100 VA
WASHER / DRYER	=	1240 VA
RANGE HOOD	=	300 VA
MICROWAVE	=	1000 VA
GARBAGE DISPOSAL	=	1176 VA
REFRIGERATOR	=	1500 VA
DISHWASHER	=	1176 VA
EXHAUST FANS	=	200 VA
TOTAL EXISTING LOAD	=	20035 VA
PER NEC 220.82	=	
FIRST 10KVA LOAD AT 100%	=	10000 VA
REMAINDER OF OTHER LOADS AT 40%	=	4014 VA
(1) FC/HP-1 UNITS @ 1997 VA EACH	=	1997 VA
(2) HPAC UNITS @ 2430 VA EACH	=	4860 VA
TOTAL	=	20871 VA OR
22 UNIT RESIDENTIAL	=	100.3 A @ 120/208V, 1Ø, 3W
LOAD CENTER SIZE	=	100.0 A

TYPE 2: UNITS "404", "505" FOR REFERENCE ONLY

SQUARE-FOOTAGE	=	781 SF
GENERAL LOAD @ 3VA/SF	=	2343 VA
SMALL APPLIANCE @ 1500 VA / EA (2)	=	3000 VA
OVEN RANGE	=	8100 VA
WASHER / DRYER	=	1240 VA
RANGE HOOD	=	300 VA
MICROWAVE	=	1000 VA
GARBAGE DISPOSAL	=	1176 VA
REFRIGERATOR	=	1500 VA
DISHWASHER	=	1176 VA
EXHAUST FANS	=	200 VA
TOTAL EXISTING LOAD	=	20035 VA
PER NEC 220.82	=	
FIRST 10KVA LOAD AT 100%	=	10000 VA
REMAINDER OF OTHER LOADS AT 40%	=	4014 VA
(1) FC/HP-1 UNITS @ 1997 VA EACH	=	1997 VA
(2) HPAC UNITS @ 2430 VA EACH	=	4860 VA
TOTAL	=	20705 VA OR
22 UNIT RESIDENTIAL	=	99.5 A @ 120/208V, 1Ø, 3W
LOAD CENTER SIZE	=	100.0 A

TYPE 3: UNITS "203", "303", "403" & "503" FOR REFERENCE ONLY

SQUARE-FOOTAGE	=	1130 SF
GENERAL LOAD @ 3VA/SF	=	3390 VA
SMALL APPLIANCE @ 1500 VA / EA (2)	=	3000 VA
OVEN RANGE	=	8100 VA
WASHER / DRYER	=	1240 VA
RANGE HOOD	=	300 VA
MICROWAVE	=	1000 VA
GARBAGE DISPOSAL	=	1176 VA
REFRIGERATOR	=	1500 VA
DISHWASHER	=	1176 VA
EXHAUST FANS	=	200 VA
TOTAL EXISTING LOAD	=	21082 VA
PER NEC 220.82	=	
FIRST 10KVA LOAD AT 100%	=	10000 VA
REMAINDER OF OTHER LOADS AT 40%	=	4433 VA
(1) FC/HP-2 UNITS @ 1831 VA EACH	=	1831 VA
(2) HPAC UNITS @ 2430 VA EACH	=	4860 VA
TOTAL	=	21124 VA OR
22 UNIT RESIDENTIAL	=	101.6 A @ 120/208V, 1Ø, 3W
LOAD CENTER SIZE	=	125.0 A

LOAD SUMMARY "MSA"

TOTAL	=	24320 VA OR
22 UNIT RESIDENTIAL	=	116.9 A @ 120/208V, 1Ø, 3W
PNL HP1	=	128093.8 VA
TOTAL	=	343888.2 VA OR
RECOMMENDED SERVICE SIZE	=	955.2 A @ 120/208V, 3Ø, 4W

LOAD SUMMARY (22 UNITS) FOR REFERENCE ONLY

EQUIPMENT	LEVEL 2	LEVEL 3	LEVEL 4	LEVEL 5	LEVEL 6	CONN VA (100%)
LIGHTING	5	5	5	5	2	62235 VA
SMALL APPLIANCE CIRCUITS	5	5	5	5	2	66000 VA
OVEN / RANGE	5	5	5	5	2	178200 VA
WASHER / DRYER	5	5	5	5	2	27280 VA
RANGE HOOD	5	5	5	5	2	6600 VA
MICROWAVE	5	5	5	5	2	22000 VA
DISPOSAL	5	5	5	5	2	25872 VA
REFRIGERATOR	5	5	5	5	2	33000 VA
DISHWASHER	5	5	5	5	2	23496 VA
EXHAUST FANS	5	5	5	5	2	4400 VA
FC/HP-1	2	2	1	1	2	15976 VA
FC/HP-2	1	1	1	1	0	9320 VA
FC/HP-2	2	2	3	3	0	18310 VA
HPAC UNITS	11	11	11	11	4	106740 VA
TOTAL						599429 VA

LOAD SUMMARY "HP1"

EQUIPMENT		
LIGHTING (X 1.25)	=	3619 VA
REFRIGERATOR	=	900 VA
CONVENIENCE OUTLET	=	6840 VA
HVAC	=	9355 VA
EV CHARGERS (4) (X 1.25)	=	33280 VA
WATER HEATER	=	2880 VA
PUMP	=	25 VA
ELEVATOR	=	56480 VA
MISC. LOADS	=	1460 VA
PARKING GARAGE GATE	=	800 VA
INVERTER (X 1.25)	=	125 VA
PANEL "HP4"	=	8927 VA
25% OF LARGEST MOTOR (ELEVATOR)	=	14120 VA
TOTAL	=	124691.0 VA OR
	=	346.4 A @ 120/208V, 3Ø, 4W

LOAD SUMMARY "HP4"

EQUIPMENT		
LIGHTING (X 1.25)	=	774 VA
CONVENIENCE OUTLET	=	3780 VA
PUMP	=	50 VA
HVAC	=	886 VA
INVERTER (X 1.25)	=	438 VA
MISC. LOADS	=	3000 VA
TOTAL	=	8927.3 VA OR
	=	24.8 A @ 120/208V, 3Ø, 4W

TYPE 1A: UNITS "202", "304", "405" & "504" FOR REFERENCE ONLY

SQUARE-FOOTAGE	=	521 SF
GENERAL LOAD @ 3VA/SF	=	1563 VA
SMALL APPLIANCE @ 1500 VA / EA (2)	=	3000 VA
OVEN RANGE	=	8100 VA
WASHER / DRYER	=	1240 VA
RANGE HOOD	=	300 VA
MICROWAVE	=	1000 VA
GARBAGE DISPOSAL	=	1176 VA
REFRIGERATOR	=	1500 VA
DISHWASHER	=	1176 VA
EXHAUST FANS	=	200 VA
TOTAL EXISTING LOAD	=	19255 VA
PER NEC 220.82	=	
FIRST 10KVA LOAD AT 100%	=	10000 VA
REMAINDER OF OTHER LOADS AT 40%	=	3702 VA
(1) FC/HP-2 UNITS @ 1831 VA EACH	=	1831 VA
(1) HPAC UNITS @ 2430 VA EACH	=	2430 VA
TOTAL	=	17963 VA OR
22 UNIT RESIDENTIAL	=	86.4 A @ 120/208V, 1Ø, 3W
LOAD CENTER SIZE	=	100.0 A

TYPE 1A: UNITS "205" FOR REFERENCE ONLY

SQUARE-FOOTAGE	=	521 SF
GENERAL LOAD @ 3VA/SF	=	1563 VA
SMALL APPLIANCE @ 1500 VA / EA (2)	=	3000 VA
OVEN RANGE	=	8100 VA
WASHER / DRYER	=	1240 VA
RANGE HOOD	=	300 VA
MICROWAVE	=	1000 VA
GARBAGE DISPOSAL	=	1176 VA
REFRIGERATOR	=	1500 VA
DISHWASHER	=	1176 VA
EXHAUST FANS	=	200 VA
TOTAL EXISTING LOAD	=	19255 VA
PER NEC 220.82	=	
FIRST 10KVA LOAD AT 100%	=	10000 VA
REMAINDER OF OTHER LOADS AT 40%	=	3702 VA
(1) FC/HP-1 UNITS @ 1997 VA EACH	=	1997 VA
(1) HPAC UNITS @ 2430 VA EACH	=	2430 VA
TOTAL	=	18129 VA OR
22 UNIT RESIDENTIAL	=	87.2 A @ 120/208V, 1Ø, 3W
LOAD CENTER SIZE	=	100.0 A



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



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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: 2/27/2024 4:04:22 PM
SHEET TITLE:

LOAD CALCULATIONS

SHEET NO: **E403**

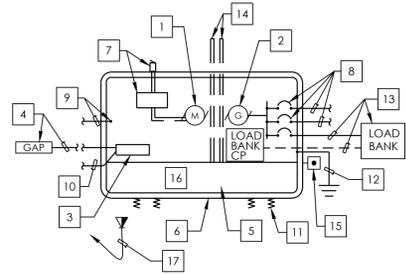
AVAILABLE-FAULT CURRENT CALCULATIONS

SCALE: 2 NTS

LOAD CALCULATIONS

SCALE: 1 NTS

GENERATOR SCHEDULE													
GENERATOR	KW KVA	VOLTAGE	PHASE	WIRE	RUN TIME	SUB-BASE TANK CAPACITY	SOUND ATTEN. LEVEL	REMOTE ANNUNC. PANEL	NETWORK/ COMMUNICATIONS (USEABLE)	LOAD BANK	GEN. SYS. HEIGHT	GEN. SYS. WEIGHT	REMARKS
G1	60 75	120/208	3	4	24 HRS	N/A	STAGE 2 OR LEVEL 2	YES	STD	NONE	53"	2416 LB	NATURAL GAS



- ENGINE SHALL BE FOUR CYCLE ONLY, 4, 6, 12 OR 16 CYLINDER, POWERED BY NATURAL GAS, WATER COOLED, TURBOCHARGED AND AFTERCOOLED. ENGINE SHALL PERFORM AS SPECIFIED UTILIZING FUEL COMPLYING WITH LOCAL AIR QUALITY MANAGEMENT DISTRICT. SEE SYSTEM SPECIFICATIONS FOR MORE INFORMATION.
- GENERATOR SHALL BE SINGLE BEARING, FOUR POLE, TWO-THIRDS PITCH DRIP PROOF AND AIR COOLED. SEE SYSTEM SPECIFICATIONS FOR MORE INFORMATION.
- GENERATOR CONTROL PANEL WITH RUN/OFF/AUTO SWITCH, MUSHROOM PUSH BUTTON "EMERGENCY STOP" AND THE SENSORS, RELAYS, CONTROLS AND WIRING TO INITIATE SHUTDOWN, AUTOMATIC TRANSFER SWITCH LOADS INDICATING ALARM AND SHUTDOWN CONDITIONS, DIGITAL METERING, AND VOLTAGE AND FREQUENCY TRIM CONTROLS AS DESCRIBED IN THE SYSTEM SPECIFICATIONS.
- REMOTE GENERATOR ANNUNCIATOR PANEL(S), LOCATED PER PLANS. SEE GENERATOR SCHEDULE AND SYSTEM SPECIFICATIONS FOR MORE INFORMATION. PROVIDE A 3/4", MINIMUM, WITH CONDUCTORS AS REQUIRED PER MANUFACTURERS RECOMMENDATIONS.
- SUB-BASE FUEL TANK NOT APPLICABLE.
- SOUND ATTENUATED AND/OR WEATHER PROTECTIVE ENCLOSURE AS INDICATED IN GENERATOR SCHEDULE.
- SILENCER (25dbA ATTENUATION) OR SILENCER/PARTICULATE MATTER FILTER, WITH RAIN CAP, CONDENSATION DRAIN AND STAINLESS STEEL CONNECTION TO ENGINE. SEE DRAWINGS AND GENERATOR SYSTEM SPECIFICATIONS FOR EXTENT OF EXHAUST SYSTEM (GT EXHAUST, NELSON OR EQUAL, PARTICULATE MATTER FILTERS BY CLEANAIRE OR EQUAL).
- PROVIDE 100% RATED, ELECTRONIC TRIP, DISTRIBUTION CIRCUIT BREAKER(S), BREAKER LUGS, BREAKER CONTACTS AND FEEDERS PER SINGLE LINE DIAGRAM. PROVIDE CODE-REQUIRED CLEARANCES AS NECESSARY. SEE ATS SYSTEM REQUIREMENTS FOR SHORT CIRCUIT COORDINATION INFORMATION.
- FOR GENERATORS WITH A CAPACITY LESS THAN 600KW, PROVIDE DEDICATED 20 AMP 120 VOLT CIRCUIT TO BATTERY CHARGER, DEDICATED 20 OR 30 AMP 120/208/240 VOLT CIRCUIT TO EACH JACKET WATER HEATER. PROVIDE ADDITIONAL CIRCUITS AS REQUIRED PER PLAN. FOR GENERATORS WITH A CAPACITY OF 600KW OR LARGER, PROVIDE DEDICATED 120/208V, 3PH, 4W 100 AMP(MIN) FEEDER CONNECTED TO INTEGRAL GENERATOR LOAD CENTER. SEE SINGLE LINE DIAGRAM AND GENERATOR SYSTEM SPECIFICATIONS FOR MORE INFORMATION.
- PROVIDE START, STOP, AND LOAD SHED CONNECTIONS TO ALL AUTOMATIC TRANSFER SWITCH(ES). PROVIDE 3/4" C. MINIMUM, WITH CONDUCTORS AS REQUIRED PER MANUFACTURERS RECOMMENDATIONS. PROVIDE COPPER OR FIBER OPTIC NETWORK AS INDICATED ON GENERATOR SCHEDULE.
- VIBRATION ISOLATION MOUNTING CERTIFIED FOR ZONE 4 INSTALLATIONS. PROVIDE NUMBER OF SUPPORTS AS REQUIRED.
- GROUNDING ELECTRODE CONDUCTOR PER NEC, OR CEC WHERE ADOPTED, ARTICLE 250.30. SEE THE GENERATOR SCHEDULE FOR GEC SIZING. SEE GENERATOR GROUNDING DETAIL FOR MORE INFORMATION.
- PORTABLE, UNIT-MOUNTED OR REMOTE LOAD BANK. SEE GENERATOR SCHEDULE AND SYSTEM SPECIFICATIONS FOR MORE INFORMATION.
- NOT USED.
- PROVIDE FACTORY-FURNISHED AND INSTALLED WEATHER-PROOF GENERATOR EMERGENCY-POWER SHUT DOWN SWITCH IN COMPLIANCE WITH NFPA37 REQUIREMENTS (60KW AND LARGER). PROVIDE A PLACARD INDICATING "GENERATOR EMERGENCY SHUTDOWN SWITCH" PERMANENTLY AFFIXED TO THE GENSET ENCLOSURE ABOVE THE SWITCH. SEE GENERAL ELECTRICAL SPECIFICATIONS FOR ADDITIONAL PLACARD REQUIREMENTS. VERIFY EXACT DEVICE LOCATION REQUIREMENTS WITH LOCAL AHJ PRIOR TO ORDERING.
- PROVIDE I/O MODULES WITH A INPUTS/OUTPUTS AS REQUIRED TO MONITOR ABOVE GROUND STORAGE TANKS, SUB BASE TANKS, FUEL MAINTENANCE SYSTEM(S) ALARMS, ETC., PLUS 4 SPARE INPUTS. I/O MODULE SHALL COMMUNICATE INPUT STATUS TO THE GENERATOR CONTROL SYSTEM AND BUILDING MANAGEMENT SYSTEM (BMS) IF PROVIDED ON PROJECT.
- PROVIDE 3/4" C WITH ANALOG FAX/MODEM LINE/DATA LINE FROM NEAREST TELEPHONE BACKBOARD TO GENERATOR GATEWAY OR INTERFACE DEVICE TO ALLOW COMMUNICATIONS PER THE GENERATOR SYSTEM SCHEDULE AND SPECIFICATIONS.

Application Data

Cooling

Radiator System	60 Hz	50 Hz
Ambient temperature, °C (°F)	45 (113)	
Radiator system capacity, including engine, L (gal)	21.3 (5.6)	
Engine jacket water flow, Lpm (gpm)	131 (34.8)	109 (28.8)
Heat rejected to cooling water at rated kW, dry exhaust, kW (Btu/min.)	54 (3070)	49 (2790)
Water pump type	Centrifugal	
Fan diameter, mm (in.)	Qty. 3 @ 356 (14)	
Fan power requirements (powered by engine battery charging alternator)	12VDC, 18 amps each	

Operation Requirements

Air Requirements	60 Hz	50 Hz
Radiator-cooled cooling air, m³/min. (scfm)	62.2 (2200)	62.2 (2200)
Air over engine, m³/min. (cfm)	31.1 (1100)	31.1 (1100)
Combustion air, m³/min. (cfm)	5.5 (195)	4.6 (162)
† Air density = 1.20 kg/m³ (0.075 lbm/ft³)		

Fuel Consumption†

Natural Gas, m³/hr. (cfh) at % load	60 Hz	50 Hz
100%	28.7 (1013)	24.9 (878)
75%	21.6 (781)	18.7 (669)
50%	14.0 (493)	12.1 (427)
25%	7.0 (248)	6.1 (215)

LP Gas, m³/hr. (cfh) at % load

60 Hz	50 Hz	
100%	10.1 (357)	8.8 (309)
75%	7.2 (255)	6.3 (221)
50%	5.4 (191)	4.7 (166)
25%	3.2 (113)	2.8 (98)

† Nominal Fuel Rating: Natural Gas, 37 MJ/m³ (1000 Btu/ft³)
LP Vapor, 93 MJ/m³ (2500 Btu/ft³)

LP vapor conversion factors:
0.59 ft³ = 1 lb.
0.535 m³ = 1 gal.
36.39 ft³ = 1 gal.

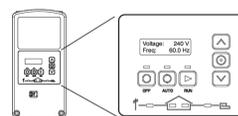
Sound Enclosure Features

- Sound-attenuating enclosure uses acoustic insulation that meets UL 94 HF1 flammability classification and repels moisture absorption.
- Internally mounted critical silencer.
- Skid-mounted, aluminum construction with two removable access panels.
- Scratch- and corrosion-resistant Kohler® cashmere powder-based finish.

Sound Data

Model 60RCLB sound levels are 62 dB(A) during weekly engine exercise and 63 dB(A) during normal operation. All sound levels are measured at a distance of 23 ft. (7 m) from the generator set. Actual sound levels may vary based on installation parameters.

RDC2 Controller



The RDC2 controller provides integrated control for the generator set, Kohler® Model RXT transfer switch, programmable interface module (PIM), and load shed kit.

The RDC2 controller's 2-line LCD screen displays status messages and system settings that are clear and easy to read, even in direct sunlight or low light.

RDC2 Controller Features

- Membrane keypad.
- OFF, AUTO, and RUN pushbuttons
- Select and arrow buttons for access to system configuration and adjustment menus
- LED indicators for OFF, AUTO, and RUN modes
- LED indicators for utility power and generator set source availability and ATS position (Model RXT transfer switch required)
- LCD screen:
 - Two lines x 16 characters per line
 - Backlit display with adjustable contrast for excellent visibility in all lighting conditions
- Scrolling system status display
 - Generator set status
 - Voltage and frequency
 - Engine temperature
 - Oil pressure
 - Battery voltage
 - Engine runtime hours
- Date and time displays
- Smart engine cooldown senses engine temperature
- Digital isochronous governor to maintain steady-state speed at all loads
- Digital voltage regulation: ±1.0% RMS no-load to full-load
- Automatic start with programmed cranking cycle
- Programmable exerciser can be set to start automatically on any future day and time, and to run every week or every two weeks
- Exercise modes
 - Unloaded exercise with complete system diagnostics
 - Unloaded full-speed exercise
 - Loaded full-speed exercise (Model RXT ATS required)
- Front-access mini USB connector for SiteTech™ connection
- Integral Ethernet connector for Kohler® OnCue® Plus
- Built-in 2.5 amp battery charger
- Remote two-wire start/stop capability for optional connection of a Model RDT transfer switch

See additional controller features on the next page.

KOHLER

Model: 60RCLB

Multi-Fuel
LPG/Natural Gas

ISO 9001
NATIONALLY REGISTERED



The Kohler® Advantage

- High Quality Power**
Kohler generators provide advanced voltage and frequency regulation along with ultra-low levels of harmonic distortion for excellent generator power quality to protect your valuable electronics.
- Extraordinary Reliability**
Kohler is known for extraordinary reliability and performance and backs that up with a 5-year/2000-hour limited warranty.
- Aluminum Enclosure**
Attractive aluminum enclosure allows installation as close as 18 inches from your home or small business. Optional 291 kph (181 mph) wind-load-rated enclosure door kit is available for field installation.
- Fast Response**
Kohler's Fast-Response® X excitation system delivers excellent voltage response and short-circuit capability using a rare-earth permanent magnet (PM)-excited alternator.
- Quiet Operation**
Kohler home generators provide quiet, neighborhood-friendly performance.

Generator Set Ratings

Alternator	Voltage	Ph	Hz	Standby Ratings			
				Natural Gas kVA	LPG Amps	LPG Amps	
4P10X	120/240	1	60	58/58	242	60/60	250
	120/208	3	60	60/75	209	60/75	209
	127/220	3	60	60/75	197	60/75	197
	120/240	3	60	60/75	181	60/75	181
4Q10X	277/480	3	60	60/75	91	60/75	91

* 50 Hz options available. Contact your Customer Service representative.

NOTES: All three-phase units are rated at 0.8 power factor. All single phase units are rated at 1.0 power factor. Standby ratings: Standby ratings apply to installations served by a reliable utility source. The standby rating is applicable to varying loads for the duration of a power outage. There is no overhead capability for the rating. Ratings are in accordance with ISO 8528-1 and ISO 8529-1. Check technical information bulletin TB-101 for ratings guidelines, complete ratings definitions, and site condition details. The generator set manufacturer reserves the right to change the design or specifications without notice and without any obligation or liability whatsoever. Availability is subject to change without notice. Contact your local Kohler generator distributor for availability.

Alternator Specifications

Specifications	Alternator
Manufacturer	Kohler
Type	4-Pole, Rotating Field
Exciter type	Brushless, Rare-Earth Permanent Magnet
Leads: quantity, type	12, Reconnectable
4P10X	4Q10X
Voltage regulator	4, 110-120/220-240 Solid State, Volts/Hz
Insulation:	NEMA MG1 Class H
Material	130° C, Standby
Temperature rise	1, Sealed
Bearing: quantity, type	Flexible Disc
Coupling	Full
Amortisseur windings	±1.0% RMS
Voltage regulation, no-load to full-load	100% of Rated Standby
Unbalanced load capability	100% of Rating
One-step load acceptance	35% dip for voltages below
Peak motor starting kVA:	480 V: 400 V: 4P10X (12 lead): 275 (60 Hz), 220 (50 Hz)
240 V: 220 V: 4Q10X (4 lead): 144 (60 Hz), 132 (50 Hz)	

- The unique Fast-Response® X excitation system delivers excellent voltage response and short-circuit capability using a rare-earth, permanent magnet (PM)-excited alternator.
- Brushless, rotating-field alternator.
- NEMA MG1, IEEE, and ANSI standards compliance for temperature rise and motor starting.
- Sustained short-circuit current of up to 300% of the rated current for up to 10 seconds.
- Sustained short-circuit current enabling downstream circuit breakers to trip without collapsing the alternator field.
- Self-ventilated and dripproof construction.
- Windings are vacuum-impregnated with epoxy varnish for dependability and long life.
- Superior voltage waveform from a two-thirds pitch stator and skewed rotor.
- Total harmonic distortion (THD) from no load to full load with a linear load is less than 3.5%.

Application Data

Engine	60 Hz	50 Hz
Engine Specifications		
Manufacturer	Kohler	
Engine: model, type	K6208 6.2L Natural Aspiration	
Cylinder arrangement	V-6	
Rated rpm	1800	1500
Displacement, L (cu. in.)	6.2 (378)	
Bore and stroke, mm (in.)	101.6 x 95.25 (4.00 x 3.75)	
Compression ratio	10.5:1	
Max. power at rated rpm, kW (HP)	77.0 (103)	64.3 (86)
Cylinder head material	Cast Aluminum	
Piston type and material	High Silicon Aluminum	
Crankshaft material	Cast Iron	
Valve (exhaust) material	Forged Steel	
Governor type	Electronic	
Frequency regulation, no-load to full-load	Isochronous	
Frequency regulation, steady state	±1.0%	
Frequency	Fixed	
Air cleaner type	Dry	

Exhaust	60 Hz	50 Hz
Exhaust System		
Exhaust manifold type	Dry	
Exhaust flow at rated kW, m³/min. (cfm)	16.4 (580)	13.6 (480)
Exhaust temperature at rated kW, dry exhaust, °C (°F)	649 (1200)	
Maximum allowable back pressure, kPa (in. Hg)	10.2 (3.0)	
Exhaust outlet size at engine hookup, mm (in.)	76 (3.0) OD	

Fuel	60 Hz	50 Hz
Fuel System		
Fuel type	LP Gas or Natural Gas	
Fuel supply line inlet	in. NPT	
Natural gas fuel supply pressure, kPa (in. H ₂ O)	1.2-2.7 (5-11)	
LPG vapor withdrawal fuel supply pressure, kPa (in. H ₂ O)	1.2-2.7 (5-11)	

Fuel Composition Limits *	Nat. Gas	LP Gas
Methane, % by volume	92 min.	—
Ethane, % by volume	4.5 max.	—
Propane, % by volume	1.0 max.	87 min.
Propene, % by volume	0.1 max.	5.0 max.
C ₄ and higher, % by volume	0.3 max.	2.5 max.
Sulfur, ppm mass	25 max.	
Lower heating value, MJ/m³ (Btu/ft³), min.	33.2 (890)	84.2 (2260)

* Fuels with other compositions may be acceptable. If your fuel is outside the listed specifications, contact your local distributor for further analysis and advice.

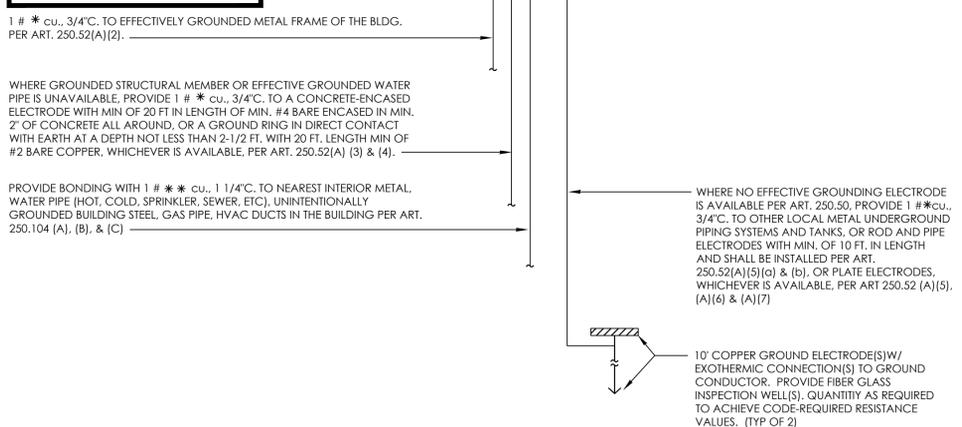
Lubrication System	Full Pressure
Type	5.7 (6.0)
Oil pan capacity, L (qt.)	7.1 (7.5)
Oil pan capacity with filter, L (qt.)	1, Cartridge
Oil filter: quantity, type	

GENERATOR SYSTEM DIAGRAM

SCALE
NTS 3

** MAIN BONDING JUMPER SHALL BE SIZED AS FOLLOWS:	
SERVICE SIZE	M.B.J. SIZE
0-1,000A	#3/0
1,200A	#4/0
1,600A	#250KCMIL
2,000A	#300KCMIL
2,500A	#500KCMIL
3,000A	#500KCMIL
4,000A	#600KCMIL

* GROUNDING ELECTRODE CONDUCTOR SHALL BE SIZED AS FOLLOWS:	
SERVICE SIZE	G.E.C. SIZE
0-200A	#4
201-400A	#1/0
OVER 401A	#3/0



GENERATOR SEPARATELY DERIVED GROUNDING SYSTEM

SCALE
NTS 2

KOHLER

KOHLER CO., Kohler, Wisconsin 53044 USA
Phone 920-437-4441 | Fax 920-459-1846
For the nearest sales and service outlet in the US and Canada, phone 1-800-544-2444
KOHLENTower.com

Additional RDC2 Controller Features

- Diagnostic messages
 - Displays diagnostic messages for the engine, generator, Model RXT transfer switch, programmable interface module (PIM), and load shed kit
 - Over 70 diagnostic messages can be displayed
- Maintenance reminders
- System settings
 - System voltage, frequency, and phase
 - Voltage adjustment
 - Measurement system, English or metric
- ATS status (Model RXT ATS required)
 - Source availability
 - ATS position (normal/utility or emergency/generator)
 - Source voltage and frequency
- ATS control (Model RXT ATS required)
 - Source voltage and frequency settings
 - Engine start time delay
 - Transfer time delays
 - Fixed pickup and dropout settings
 - Voltage calibration
- Programmable Interface Module (PIM) status displays
 - Input status (active/inactive)
 - Output status (active/inactive)
- Load control menus
 - Load status
 - Test function

Generator Set Standard Features

- Aluminum sound enclosure with enclosed silencer
- Battery rack and cables
- cULUL 2200 listed, CSA certified
- Electronic, isochronous governor
- Engine-generator set is designed and manufactured in facilities certified to ISO 9001.
- Flexible fuel line
- Gas fuel system (includes fuel mixer, electronic secondary gas regulator, two gas solenoid valves, and flexible fuel line between the engine and the skid-mounted fuel system components)
- GFCl service outlet (120/240 V) for customer connections
- Integral vibration isolation
- Line circuit breaker
- NEC prime mover shutdown switch
- Oil drain extension
- Gas fuel system (includes fuel mixer, electronic secondary gas regulator, two gas solenoid valves, and flexible fuel line between the engine and the skid-mounted fuel system components)
- OnCue® Plus Generator Management System for remote monitoring (see specification sheet G6-140)
- Operation and installation literature
- RDC2 controller with built-in battery charger
- Standard 5-year/2000-hour limited warranty

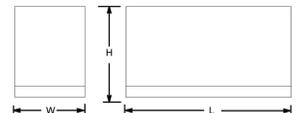
Available Options

- Electrical System
 - Battery
 - Battery Heater
 - OnCue® Plus Wireless Radio Kit

Available Options (continued)

- Enclosure Option
 - 291 kph (181 mph) wind load rated enclosure
- Starting Aids §
 - Block Heater, 120 V
 - Block Heater, 240 V
- Recommended for ambient temperatures below 0°C (32°F)
- Controller Accessories
 - Lockable Emergency Stop (lockout/tagout)
 - Programmable Interface Module (PIM) load management board
- Automatic Transfer Switches and Accessories
 - Model RXT Automatic Transfer Switch
 - Model RXT Automatic Transfer Switch with combined interface/load management board
 - Model RDT Automatic Transfer Switch
 - Load shed kit for RDT or RXT
 - Power relay modules (use up to 4 relay modules for each load management device)
 - Other Kohler® ATS
- Miscellaneous
 - Rated Power Factor Testing
 - Maintenance kit (includes air filter, oil, oil filter, and spark plugs)
- Literature
 - General Maintenance Literature Kit
 - Overhaul Literature Kit
 - Production Literature Kit
- Warranty
 - Extended 5-Year/2000 Hour Comprehensive Limited Warranty
 - Extended 10-Year/2000 Hour Comprehensive Limited Warranty

Dimensions and Weights	60 Hz	50 Hz
Overall Size, L x W x H, mm (in.):	2280 x 836 x 1182 (89.8 x 32.9 x 46.5)	
Shipping Weight, wet, kg (lb.):	659 (1894)	



NOTE: This drawing is provided for reference only and should not be used for planning installation. Contact your local distributor for more detailed information.

DISTRIBUTED BY:

Engine Electrical	60 Hz	50 Hz
Ignition system	Electronic	
Battery charging alternator:	Negative	
Ground (negative/positive)	Volts (DC)	
Ampere rating	130	
Starter motor rated voltage (DC)	12	
Battery, recommended cold cranking amps (CCA):	One, 630	
Qty., rating for -18°C (0°F)	12	
Battery voltage (DC)	24	
Battery group size		

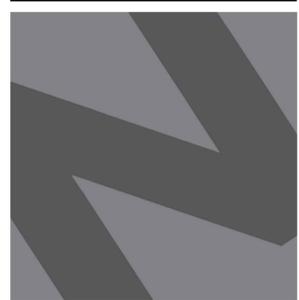
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04-307 (60RCLB) 6/21

04-307 (60RCLB) 6/21

GENERATOR CUT SHEETS

SCALE
NTS 1



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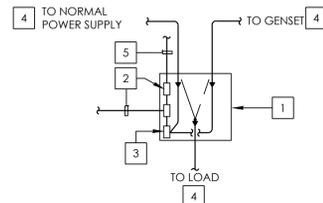


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CLIENT:

AUTOMATIC TRANSFER SWITCH SCHEDULE									
ATS	AMPS	VOLTAGE	PHASE	WIRE	POLE	NEMA 3R	NETWORK	ISOLATION BYPASS	REMARKS
ATS1	260	120/208	3	4	4	-	-	-	-

ATS SYSTEM SCHEMATIC



ATS SYSTEM KEYED NOTES:

- 1 AUTOMATIC TRANSFER SWITCH PER AUTOMATIC TRANSFER SWITCH SCHEDULE AND SYSTEM SPECIFICATIONS.
- 2 ATS DISTRIBUTED CONTROLS, PROVIDING FOR AUTOMATIC SELECTIVE LOAD SHED/LOAD PICK-UP PER NEC (OR CEC WHERE ADOPTED) ART. 700.4(B) REQUIREMENTS, START, STOP, AND MONITORING/ALARM FUNCTIONS PER SYSTEM SPECIFICATIONS. PROVIDE 3/4" C. MINIMUM, WITH CONDUCTORS AS REQUIRED PER MANUFACTURERS RECOMMENDATIONS. PROVIDE COPPER OR FIBER OPTIC NETWORK AS INDICATED ON ATS SCHEDULE. SEE SYSTEM SPECIFICATIONS FOR MORE INFORMATION.
- 3 FACTORY INSTALLED ATS AUTOMATIC CONTROLS. SEE SYSTEM SPECIFICATIONS FOR MORE INFORMATION.
- 4 REFER TO SINGLE LINE DIAGRAM FOR MORE INFORMATION.
- 5 PROVIDE ELEVATOR PRETRANSFER CONTACTS, 1 NORMALLY OPEN, 1 NORMALLY CLOSED-EQUIPPED WITH 0-45 SEC, 2 AMP MINIMUM ADJUSTABLE TIME DELAY. PROVIDE CONDUIT AND CONDUCTORS TO ELEVATOR CONTROLLER(S) AS REQUIRED.

ATS SYSTEM REQUIREMENTS:

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE FURNISHING OF ALL FINAL DESIGN, AGENCY APPROVALS, PLAN CHECK FEES, LABOR, EQUIPMENT, MATERIALS, AND PERFORMANCE OF OPERATIONS IN CONNECTION WITH THE INSTALLATION OF A COMPLETE AND FULLY FUNCTIONING CODE APPROVED AUTOMATIC TRANSFER SWITCH SYSTEM.
2. IT IS THE INTENT OF THE CONTRACT DOCUMENTS, WHICH ARE PRESENTED IN A DIAGRAMMATIC, "DESIGN-BUILD" FORMAT, FOR THE CONTRACTOR TO DESIGN, PROVIDE AND INSTALL A COMPLETE AND FULLY FUNCTIONING, CODE APPROVED AUTOMATIC TRANSFER SWITCH SYSTEM.

3. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE ALL MATERIAL AND EQUIPMENT WHICH IS USUALLY FURNISHED WITH SUCH SYSTEMS, IN ORDER TO PROVIDE A COMPLETE AND FULLY FUNCTIONING INSTALLATION, WHETHER MENTIONED HEREIN OR NOT.
4. THE CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE A.T.S. SHORT CIRCUIT WITHSTAND REQUIREMENTS WITH SWITCHGEAR, GENERATOR & ATS MFR. PROVIDE A.T.S. MFR.- APPROVED CURRENT LIMITING CIRCUIT BREAKER(S) TO PROTECT EACH A.T.S. AS REQUIRED. IF CONTRACTOR ELECTS TO INCREASE ATS AMPACITY TO MEET SHORT CIRCUIT WITHSTAND REQUIREMENTS, CONTRACTOR SHALL ENSURE ATS(S) WILL FIT IN SPACE DESIGNATED FOR ATS(S) PER PLANS.
5. REFER TO AUTOMATIC TRANSFER SWITCH SCHEDULE, SCHEMATIC AND SPECIFICATIONS FOR MORE INFORMATION.

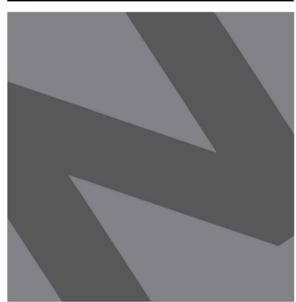
ATS SYSTEM SPECIFICATIONS:

1. ALL EQUIPMENT SHALL BE NEW, OF CURRENT DESIGN, AND SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE APPLICABLE REQUIREMENTS OF IEEE, NEMA, UL, ANSI AS WELL AS LOCAL JURISDICTION REQUIREMENTS. ALL EQUIPMENT SHALL BE FACTORY ASSEMBLED AND TESTED. THE FOLLOWING DOCUMENTS SHALL APPLY TO THE MANUFACTURING AND INSTALLATION OF THE ATS SYSTEM:
 - IEEE 587 SURGE TESTING
 - NEMA MGI MOTORS AND GENERATORS
 - NFPA 110 EMERGENCY/STANDBY SYSTEMS
 - NFPA 37 INSTALLATION AND USE
 - UL 1008 AUTOMATIC TRANSFER SWITCHES
2. ALL PRODUCTS SHALL BE WARRANTED AGAINST DEFECTS IN MATERIAL AND WORKMANSHIP FOR 2 YEARS FROM START UP INCLUDING PARTS, LABOR AND TRAVEL EXPENSES.
3. AUTOMATIC TRANSFER SWITCH SHALL BE A 4-POLE 600 VOLT CLASS, CONTACTOR TYPE, OVER-CENTER MECHANISM, DOUBLE-THROW CONSTRUCTION, POSITIVE ELECTRICALLY AND MECHANICALLY HELD IN BOTH NORMAL AND EMERGENCY POSITIONS. TRANSFER SWITCHES WITH INTERLOCKED CIRCUIT BREAKERS OR MOLDED CASE SWITCHES ARE NOT ACCEPTABLE. 3-POLE TRANSFER SWITCHES ARE NOT ACCEPTABLE UNLESS SPECIFICALLY NOTED ON THE SCHEDULE.

THE TRANSFER SWITCH SHALL HAVE THE FOLLOWING CHARACTERISTICS:

 - FULL LOAD MANUAL TRANSFER CAPABILITIES.
 - ALL CONTACTS SHALL BE 600V HIGH PRESSURE, SILVER ALLOY TYPE WITH SEPARATE ARCING CONTACTS. ALL CONTACTS SHALL BE SIMULTANEOUSLY SWITCHED.
 - ALL LUGS SHALL BE FULL RATED.
 - PROGRAM TRANSITION SWITCHING SCHEME. IN-PHASE MONITOR SWITCHING SCHEMES ARE UNACCEPTABLE.
4. ATS DISTRIBUTED CONTROLS SHALL BE FACTORY INSTALLED IN THE ATS CABINET, AND SHALL ALLOW FOR START, STOP AND LOAD SHED FUNCTIONS. WHEN A FIBER OPTIC NETWORK IS INDICATED PROVIDE CONTACTS TO COMMUNICATE POWER SUPPLY LOW VOLTAGE AND FAILURE CONDITIONS AT THE GENERATOR ANNUNCIATOR PANEL.

5. ATS AUTOMATIC CONTROLS SHALL BE FACTORY INSTALLED IN THE ATS CABINET. ALL SENSORS AND TIME DELAYS SHALL BE SOLID STATE. ALL SENSORS SHALL MONITOR EACH PHASE OF BOTH NORMAL AND GENERATOR SOURCES. POWER FOR TRANSFER AND RE-TRANSFER SHALL BE OBTAINED FROM THE LOAD SOURCE BEING TRANSFERRED TO.
6. PROVIDE THE FOLLOWING TIME DELAYS AND COMPONENTS: START DELAY, TRANSFER TO EMERGENCY DELAY, RETRANSFER TO NORMAL DELAY, KEY OPERATED RETRANSFER DELAY BYPASS, STOP RUNNING DELAY, NEUTRAL POSITION DELAY - BOTH DIRECTIONS (ISOLATING INDUCTIVE LOADS FROM BOTH SOURCES), TEST SWITCH, PILOT LIGHTS FOR POSITION AND SOURCE AUXILIARY CONTACTS FOR BOTH SOURCES, LOAD SHED CONTROL FOR AUTOMATIC SELECTIVE LOAD PICK-UP & LOAD SHED, EXERCISER CLOCK, ADJUSTABLE DELAYS TO MFR'S RECOMMENDATIONS.
7. WHEN ISOLATION BYPASS TYPE TRANSFER SWITCHES ARE INDICATED IN THE SCHEDULE, THE FOLLOWING CONDITIONS SHALL BE MET:
 - BYPASS ISOLATION AND TRANSFER SWITCH SHALL BE IN A FACTORY ASSEMBLED ENCLOSURE.
 - SWITCHES REQUIRING ELECTRICAL OPERATION ARE NOT ACCEPTABLE.
 - NORMAL, TEST, AND FULLY ISOLATED SWITCH POSITIONS SHALL MAINTAIN CONTINUOUS FULLY RATED OPERATION.
 - SWITCH SHALL BE CAPABLE OF BY-PASSING TO EITHER SOURCE.
 - AUTOMATIC, SOLENOID PER THE GENERAL SPECIFICATIONS REQUIREMENTS ACTIVATED MECHANICAL STOPS SHALL BE PROVIDED TO PREVENT DEAD SOURCE BYPASS.
8. SHOP DRAWING INFORMATION SHALL BE PROVIDED SHOWING COMPLIANCE WITH THE ABOVE SPECIFICATION PER GENERAL SPECIFICATION REQUIREMENTS. INCLUDE ALL REQUIRED NETWORK WIRING DIAGRAMS, COMPONENTS, ETC.
9. FINAL INSTALLATION SHALL BE TESTED AND APPROVED BY THE MANUFACTURER'S FACTORY TRAINED TECHNICIAN. TEST TO INCLUDE LOAD BANK AND ATS TRANSFER TEST.
10. ATS SYSTEM SHALL BE PROVIDED AND WARRANTED BY THE GENERATOR SYSTEM EQUIPMENT MANUFACTURER. SEE GENERATOR SPECIFICATIONS FOR MORE INFORMATION.
11. ATS EQUIPMENT SHALL BE PROVIDED BY ASCO OR EQUAL BY ONAN OR GE/ZENITH.



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ENGINEERING & CONSULTING, INC
30 THOMAS, IRVINE, CA 92618-2703
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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: 2/27/2024 4:06:09 PM

SHEET TITLE:

ATS SPECIFICATIONS & CUT SHEETS

SHEET NO:

E408

Automatic transfer switch (ATS) – contactor-based

Technical Data TD01602018E
Effective February 2013

Automatic transfer switch—open transition



ATC-300+ Controller

Product description

Eaton's automatic transfer switch (ATS) provides unmatched performance, reliability, and versatility for critical standby power applications. All switches can be equipped with the ATC-100, ATC-300+, and ATC-800 controllers to match any application need. Each controller offers rock-solid monitoring, status reporting, and transfer control operation.

Superior design and robust construction make Eaton's transfer switch the industry benchmark for critical and distributed power systems.

Electrical ratings

- Ratings 40, 80, 100, 150, 200, 225, 260, 400, 600, 800, 1000, 1200, and 1600A
- Two-, three-, or four-pole
- Up to 600 Vac, 50/60 Hz
- NEMA® 1, 12, 3R, 4X, open
- UL® 1008 Listed
- CSA® C22.2 No. 178 Certified

Industrial design highlights

- Double-throw, mechanically interlocked transfer mechanism, preventing connection of both sources
- Field-selectable multi-tap transformer panel permits operation on a wide range of system voltages
- Methods of transfer include: open in-phase transition, time delay in neutral transition, or in-phase with a default to time delay in neutral transfer

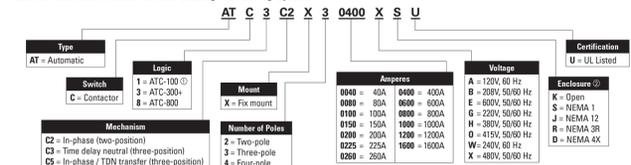
Standard features (ATC-300+)

- Source present relays:
 - Source 1 present 2NO and 2NC
 - Source 2 present 2NO and 2NC
- Switch position indication contacts:
 - Source 1 position 1NO and 1NC
 - Source 2 position 1NO and 1NC
- Source 1 and Source 2 sensing:
 - Undervoltage/underfrequency
 - Overvoltage/overfrequency
 - Three-phase rotation protection
 - Three-phase voltage unbalance
 - Pre-transfer signal contacts 1NO/1NC (with three-position mechanism)
- Go to Emergency (Source 2)
- Seven field-programmable time delays
- LCD-based display for programming, system diagnostics, and Help message display
- Mimic diagram with source available and connected LED indication
- Time-stamped history log
- System test pushbutton
- Programmable plant exerciser—OFF daily, 7-, 14-, 28-day interval selectable run time 0-600 minutes no load/load with fail-safe

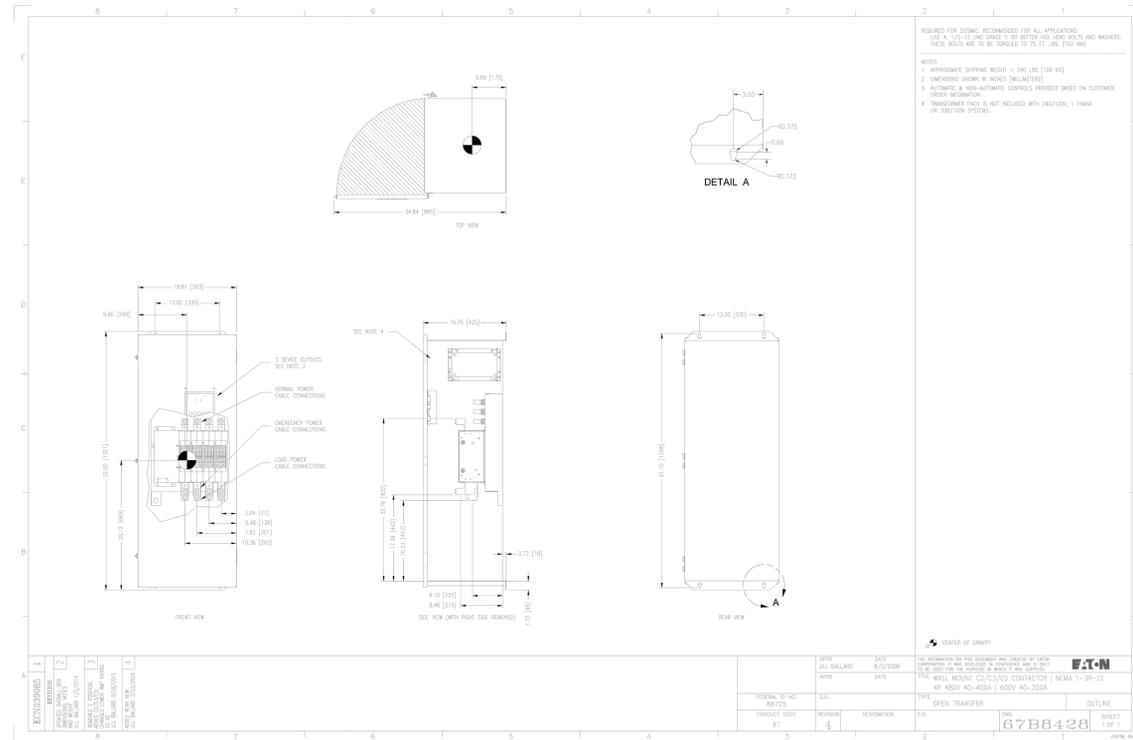
Optional features

- Available surge suppression device for power/controller, engine start circuit, phone, and cable connections
- Space heater with thermostat
- Eaton IQ and Power Xpert® Series metering
- Stainless steel cover for controller
- Open in-phase transition, time delay neutral, or in-phase with a default to time delay neutral transfer
- ATC-100 and ATC-800 controllers available
- Modbus® RTU via RS-485
- Source 2 inhibit
- Manual re-transfer to normal
- Remote annunciator with control
- Ethernet communication (PXG 400 Gateway)

Table 6. Automatic Transfer Switch Catalog Numbering System



© ATC-100 applies to 400A and below.
© NEMA 12 and 4X, 40-1200A only.



GO/NEG-AN Date:	LAED1202X2K1-0000-12/5/2022	Job Name:	2853 WEST BLVD.
Item Number:	ATC3C2X4026BSU	Designation:	ATS 260amp 120/208v 4 pole

INSPECTION:

1. FULL INSPECTION AND APPROVAL BY A DEPARTMENT OF WATER AND POWER (DWP) ELECTRIC SERVICE REPRESENTATIVE IS REQUIRED PRIOR TO THE INSTALLATION OF CABLE AND EQUIPMENT.
2. NOTIFY THE DWP ELECTRIC SERVICE REPRESENTATIVE, AREA 314 TELEPHONE NUMBER (213) 367-6248, FIVE (5) NORMAL WORKING DAYS IN ADVANCE OF CONSTRUCTION.
3. THE CUSTOMER SHALL ARRANGE FOR ELECTRICAL INSPECTION BY THE LOS ANGELES DEPARTMENT OF BUILDING AND SAFETY FOR THEIR ELECTRICAL WORK. THE SERVICE WILL NOT BE ENERGIZED UNTIL NOTIFICATION OF APPROVAL HAS BEEN RECEIVED BY THE DWP.

GENERAL:

1. ALL FACILITIES MUST BE PROVIDED AND INSTALLED IN ACCORDANCE WITH THE DWP'S ELECTRIC SERVICE REQUIREMENTS.
2. CONDUITS AND STRUCTURES SHALL BE INSTALLED PER DWP'S UNDERGROUND SPECIFICATION 104 AND APPENDIX 1 AS LAST REVISED.

SCHEDULE:

1. IN ORDER TO AVOID SCHEDULING DELAYS IN THE INSTALLATION OF DWP EQUIPMENT FOR YOUR PROJECT, THE CUSTOMER MUST COMPLETE THE INSTALLATION AND DWP'S INSPECTION OF THE CONDUIT, TRANSFORMER PAD AND SWITCHBOARD A MINIMUM OF SIX (6) WEEKS PRIOR TO THE RELEASE FROM THE DEPARTMENT OF BUILDING AND SAFETY.
2. DWP WILL INSTALL ELECTRICAL METERS AND ENERGIZE THE ELECTRICAL SERVICE TYPICALLY WITHIN TEN (10) WORKING DAYS, AFTER ALL RELEASES HAVE BEEN OBTAINED FROM BOTH DWP AND THE DEPARTMENT OF BUILDING AND SAFETY.

CONDUIT:

1. PRIMARY CONDUITS: 2-5" PLASTIC ENCASED BURIED TYPE (EB-35) CONDUITS ENCASED IN 3" OF CONCRETE. MINIMUM COVER FROM TOP OF CONCRETE ENVELOPE TO FINISHED GRADE, EXCEPT AT TRANSFORMER PAD, SHALL BE 30 INCHES IN PAVED AREAS AND 36 INCHES IN LANDSCAPED AREAS.
2. WHEN TERMINATING CONDUIT FOR SUBSEQUENT CONNECTION BY THE DWP, THE DEPTH AT THE PROPERTY LINE MUST BE A MINIMUM OF 30 INCHES IN AREAS SUPPLIED FROM UNDERGROUND DISTRIBUTION FACILITIES. DEPTH MEASUREMENTS AT PROPERTY LINE ARE TO BE TAKEN FROM GUTTER GRADE.
3. WHERE UNDERGROUND SERVICE IS TO BE SUPPLIED FROM OVERHEAD FACILITIES, THE MINIMUM DEPTH FOR THE POINT OF CONNECTION AT THE PROPERTY LINE SHALL BE 36 INCHES FOR CONDUIT NOT EXCEEDING 4 INCHES AND 60 INCHES FOR CONDUIT EXCEEDING 4 INCHES. DEPTH MEASUREMENTS AT PROPERTY LINE ARE TO BE TAKEN FROM GUTTER GRADE.
4. SECONDARY CONDUITS: 4-5" PLASTIC ENCASED BURIED TYPE (EB-35) CONDUITS. CONDUITS SHALL HAVE A MINIMUM COVER OF 24 INCHES.
5. WHEN THE PRIMARY CONDUITS ARE BEING INSTALLED ON FILLED GROUND, FOUR #4 REINFORCING BARS SHALL BE INSTALLED IN THE CONCRETE ENVELOPE.
6. ALL PLASTIC CONDUITS SHALL BE IN ACCORDANCE WITH RECOGNIZED STANDARDS, FOR PVC THE STANDARD IS ASTM F-512 AS LAST REVISED, CONDUIT MAY BE SUBJECTED TO TESTING BY THE DWP AT THE REQUEST OF THE DWP ELECTRIC SERVICE REPRESENTATIVE.
7. CONDUIT SHALL BE MANDRELLED WITH A MANDREL PROVIDED BY THE DWP. INSTALL A FLAT, WOVEN MULTI-FIBER POLYESTER RIBBON, MINIMUM 3/8-INCH NOMINAL WIDTH AND 1250 POUND MINIMUM TENSILE STRENGTH PULLING TAPE IN ALL DUCTS. THE PULLING TAPE SHALL BE PRINTED WITH THE RATED TENSILE STRENGTH AND SEQUENTIAL FOOTAGE MARKINGS WITH LEGIBLE AND STABLE PRINT. THE TAPE SHALL BE IN ONE CONTINUOUS LENGTH THROUGH EACH DUCT WITH NO CUTS, SPLICES OR TIES ALLOWED.
8. CUSTOMER TO PROVIDE STRUCTURAL DRAWINGS STAMPED AND SIGNED BY A REGISTERED STRUCTURAL ENGINEER DETAILING THE ENCASED GALVANIZED CONDUIT RUN EXPOSED ON THE GARAGE WALL OR CEILING. DRAWINGS SHALL BE SUBMITTED PRIOR TO START OF CONSTRUCTION.

STRUCTURE:

1. PROVIDE AND INSTALL ONE 6' X 8' TRANSFORMER PAD WITH HANDHOLE AND PROTECTIVE BARRIERS IN ACCORDANCE WITH DWP DRAWINGS C721-01, C721-01.1 THROUGH C721-01.8 AND UB721-03 AS LAST REVISED.
2. THE DEPARTMENT OF BUILDING AND SAFETY REQUIRES A BUILDING PERMIT FOR STRUCTURES EXCEEDING 48 INCHES IN DEPTH, INSTALLED ON PRIVATE PROPERTY.
3. THE CUSTOMER'S STRUCTURAL ENGINEER IS RESPONSIBLE FOR THE DESIGN OF FOUNDATIONS IN THE VICINITY OF THE VAULT TO ELIMINATE SURCHARGE LOADING ON THE WALLS OF THE VAULT.
4. THE CONDUIT, STRUCTURE(S) AND SERVICE POINT(S) SHALL BE LOCATED AS SHOWN UNLESS CHANGES ARE APPROVED BY THE DWP DESIGN ENGINEER AND CONFIRMED BY THE CUSTOMER.

FAULT CURRENT:

THE MAXIMUM AVAILABLE SYMMETRICAL FAULT CURRENT WILL BE AS FOLLOWS:

SERVICE PS	AMPS 1200A	VOLTAGE 208Y/120V	PHASE 3Ø	WIRE 4W	FAULT CURRENT 32,000A
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SWITCHBOARD APPROVAL:

PRIOR TO FABRICATION OF NONSTANDARD SWITCHBOARDS AND SWITCHBOARDS RATED ABOVE 800 AMPS, THE MANUFACTURER MUST SUBMIT DRAWINGS SHOWING THE PROPOSED SERVICE AND METERING FACILITIES. MAIL THREE COPIES OF SWITCHBOARD DRAWINGS TO:

METRO WEST SERVICE PLANNING
ATTENTION: VICTOR PEREZ CCEST 2345082 / P306225
2633 ARTESIAN STREET RM 250
LOS ANGELES, CA 90031

CUSTOMER CHARGES:

1. THE DWP WILL BILL THE CUSTOMER \$9,137 FOR TRANSFORMER DEPOSIT FEE, DEPOSIT FEE ELIGIBLE FOR REFUND AFTER FIVE YEARS PER DWP RULE 16-E, ELECTRIC SYSTEM OF THE RULES GOVERNING WATER AND ELECTRIC SERVICE.
2. THE DWP WILL BILL THE CUSTOMER FOR CONDUIT CONSTRUCTION AT A FUTURE DATE.
3. A SEPARATE BILL TO BE SENT FOR PERMIT FEES ONCE THE LOS ANGELES DEPARTMENT OF PUBLIC WORKS ISSUES THE PERMIT IS TO BE BILLED AT A LATER DATE.
4. YOUR PAYMENT OF A STREET DAMAGE RESTORATION FEE (SDRF), PAID DIRECTLY TO THE DEPARTMENT OF PUBLIC WORKS, IS TO BE BILLED AT A LATER DATE.

PERMIT NOTE:

AN APPROVED TRAFFIC CONTROL PLAN MAY BE REQUIRED FOR LADWP TO OBTAIN A CONSTRUCTION PERMIT FROM LOS ANGELES DEPARTMENT OF PUBLIC WORKS. THE CUSTOMER MAY BE REQUIRED TO HIRE A CONTRACTOR TO DEVELOP A TRAFFIC CONTROL PLAN AND PROVIDE LABOR AND MATERIALS TO MANAGE TRAFFIC DURING CONSTRUCTION. THE CUSTOMER SHALL OBTAIN APPROVAL OF THE PLAN BY THE LOS ANGELES DEPARTMENT OF TRANSPORTATION AND PROVIDE A COPY TO LADWP IF REQUIRED.

NON-STANDARD STAGING AREA:

THE DEPARTMENT HAS APPROVED A NON-STANDARD STAGING AREA FOR THE INSTALLATION AND MAINTENANCE OF THE LADWP TRANSFORMER IN THE CUSTOMER'S PROPOSED LOCATION. ANY REPAIRS NECESSARY TO THE SIDEWALKS, DRIVEWAYS, AND CURBS DURING THE INSTALLATION AND FUTURE MAINTENANCE OF THIS TRANSFORMER WILL BE THE RESPONSIBILITY OF THE PROPERTY OWNER IN ACCORDANCE WITH LOS ANGELES MUNICIPAL CODE SECTION 62.104.

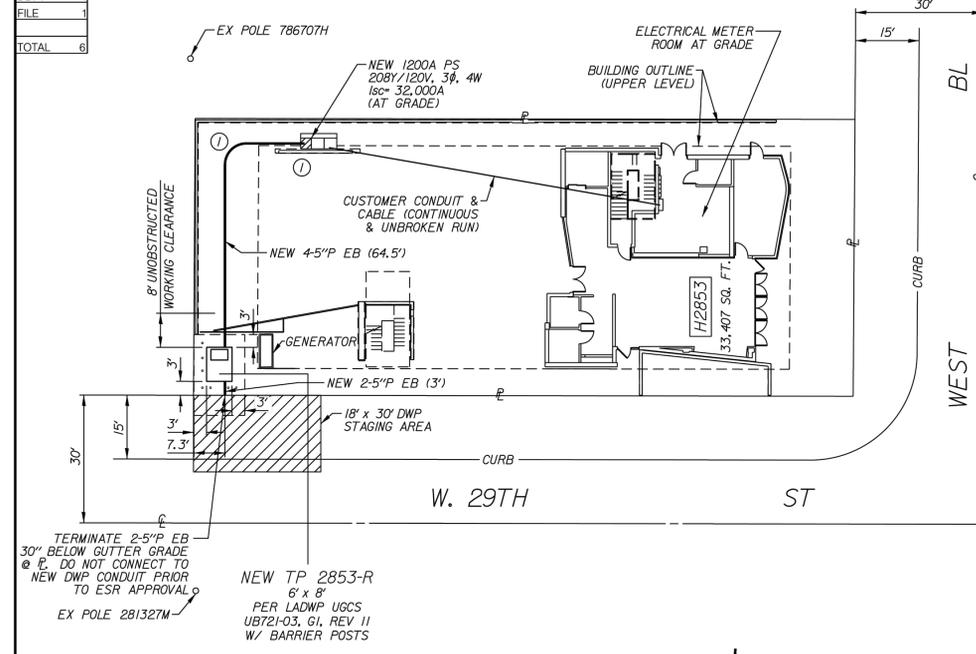
THIS COMMITMENT IS VALID FOR SIX MONTHS ONLY.
ANY CHANGE IN LOAD OR DESIGN WILL REQUIRE
REVISED PLANS TO BE SUBMITTED FOR RE-EVALUATION

No.	DATE	INITIAL	REVISION	APP'D

CITY OF LOS ANGELES DEPARTMENT OF WATER AND POWER POWER SYSTEM ENGINEERING		MR # 2345082	PROJECT # P306225	TO # 633-D7
		4.8KV CUSTOMER REQUIREMENTS 2853 WEST BL 22-UNIT RESIDENTIAL BUILDING AFFORDABLE HOUSING		
DESIGN V. PEREZ	PHONE (213) 367-6231	22P0561		SHEET 1 OF 2
DRAWING ADAN YAGUE 3/28/23	DRAFTING E. MOSQUEDA			
APPROVED MARCO WILDMANDE/AV	DATE 03/17/23			

No.	DATE	INITIAL	REVISION	APP'D

CURVE DATA	
①	Δ = 90° R = 5' L = 7.85'



REFERENCES

NBCD 2267025, 23H5020 (4.8KV LINE EXT)
 NBU2 2443543, 23E2036
 NBO2 2443551, 22F1445
 NBIAC 2419952 (HSE)

CONTACT DWP SERVICE REP. AREA 314 @ (213) 367-6248 FIVE DAYS PRIOR TO START OF CONSTRUCTION.

- TRANSFORMER PAD NOTES:**
1. MINIMUM 3' WORKSPACE CLEARANCE REQUIRED AROUND THE PAD (LEVELLED & UNOBSTRUCTED).
 2. NO ARCHITECTURAL PROJECTIONS (I.E. AWNINGS, OVERHANGS, BALCONIES, ETC.) ALLOWED ABOVE CLEARANCE AREA.
 3. NO BUILDING PROJECTION (I.E. SUBTERRANEAN GARAGE,) ALLOWED UNDERNEATH THE CLEARANCE AREA.
 4. PAD SHALL MAINTAIN A 10' RADIAL DISTANCE FROM ANY WINDOWS, DOORS, FIRE ESCAPES, AIR INTAKES AIR EXHAUST VENTS OR EGRESS PATH.
 5. ACCESS TO PAD SHALL BE 12' IN WIDTH & 14' IN LENGTH MINIMUM AND BE ABLE TO WITHSTAND A TRUCK WEIGHT OF 24 TONS. DEPARTMENT TRUCKS MUST BE ABLE TO BACK WITHIN 5' ALONG THE SIDE OF THE PAD.
 6. FOR MORE DETAILS REFER TO DWP DESIGN STANDARD C721-01 THRU C721-01.8 FOR TRANSFORMER PAD REQUIREMENTS.
 7. IF INSTALLING METALLIC OBJECTS IN PROXIMITY TO NEW TRANSFORMER PAD, I.E. CHAIN-LINK FENCE OR IRONGATE, REFER TO UB721-12 FOR GROUNDING REQUIREMENTS.

FOR LOCATION OF EXISTING UNDERGROUND SUBSTRUCTURES, NOTIFY THE UNDERGROUND SERVICE ALERT OF SOUTHERN CALIFORNIA

DIGALERT
 CONTACT DIGALERT AT
 WWW.DIGALERT.ORG OR 811
 AT LEAST TWO WORKING DAYS BEFORE YOU DIG

UNDERGROUND SERVICE ALERT OF SOUTHERN CALIFORNIA

THIS COMMITMENT IS VALID FOR SIX MONTHS ONLY.
ANY CHANGE IN LOAD OR DESIGN WILL REQUIRE
REVISED PLANS TO BE SUBMITTED FOR RE-EVALUATION

No.	DATE	INITIAL	REVISION	APP'D

CITY OF LOS ANGELES DEPARTMENT OF WATER AND POWER POWER SYSTEM ENGINEERING		MR # 2345082	PROJECT # P306225	TO # 633-D7
DESIGN V. PEREZ PHONE (213) 367-6231		4.8KV CUSTOMER REQUIREMENTS 2853 WEST BL 22-UNIT RESIDENTIAL BUILDING AFFORDABLE HOUSING		
DRAWING ADAN YAGUE 3/28/23	DRAFTING E. MOSQUEDA	22P0561		SHEET 2 OF 2
APPROVED MARCO WILDMANDE/AV	DATE 03/17/23			

LADWP APPROVED DRAWINGS

SCALE	1
NTS	



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



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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: 2/27/2024 4:02:50 PM
 SHEET TITLE:

LADWP APPROVED DRAWINGS

SHEET NO: △

E409

- VERIFY THE EXACT MOUNTING REQUIREMENTS AND CEILING CONFIGURATION WITH ARCHITECTURAL PLANS PRIOR TO ORDERING OF THE LIGHT FIXTURES. CONTRACTOR TO PROVIDE ALL NECESSARY MOUNTING HARDWARE INCLUDING HANGERS, CLIPS AND/OR SUPPORT CABLES, ETC AS REQUIRED TO PROVIDE A COMPLETE INSTALLATION. PROVIDE STRUCTURAL SUPPORTS AS REQUIRED TO MEET THE CURRENT INTERNATIONAL BUILDING CODE (IBC), AS WELL AS ANY APPLICABLE LOCAL CODES.
 - ALL WALL MOUNTED FIXTURES SHALL BE COORDINATED WITH THE ARCHITECTURAL ELEVATION PLANS PRIOR TO ROUGH-IN. EXTERIOR MOUNTED FIXTURES SHALL HAVE U.L. LABEL LISTED FOR WET LOCATION APPLICATION.
 - ALL FIXTURE FINISHES AND COLORS, UNLESS SPECIFIED AS CUSTOM COLOR, SHALL BE SELECTED BY THE ARCHITECT FROM THE AVAILABLE MANUFACTURER STANDARD COLOR OPTIONS. ALL FIXTURES SPECIFIED WITH CUSTOM COLOR SHALL BE SELECTED BY THE ARCHITECT. CONTRACTOR TO PROVIDE COLOR SAMPLE CHIP AND PRIOR APPROVAL FROM THE ARCHITECT PRIOR TO PLACING THE ORDER.
 - LIGHT FIXTURES INDICATED AS EMERGENCY, IDENTIFIED WITH "EB" SHALL BE PROVIDED WITH INTEGRAL BATTERY PACK UNIT AS FOLLOWS:
 - LED LAMPS: 1100 LUMENS MINIMUM
 - LINEAR T8 FLUORESCENT LAMPS: 1400 LUMENS MINIMUM
 - LINEAR T5 FLUORESCENT LAMPS: 1200 LUMENS MINIMUM
 - COMPACT FLUORESCENT LAMPS: 1000 LUMENS MINIMUM
- EMERGENCY BALLAST SHALL BE AS MANUFACTURED BY IOTA, ILB-CP12, I-232, I-320, ISL-540 & I-420-EM-A RESPECTIVELY OR OTHER MANUFACTURER MEETING THE MINIMUM LUMEN OUTPUT REQUIREMENTS.
- ALL RECESSED LED/COMPACT FLUORESCENT DOWN LIGHT SUPPLIED WITH BATTERY PACK UNIT SHALL BE PROVIDED WITH AN INTEGRAL TEST SWITCH / CHARGING INDICATOR LIGHT MOUNTED INSIDE THE REFLECTOR.
 - ALL FLUORESCENT BALLAST SHALL BE ELECTRONIC TYPE, HIGH POWER FACTOR, MAXIMUM TOTAL HARMONIC DISTORTION OF 20%, CLASS "A" OR BETTER SOUND RATING AND 0° FAHRENHEIT FOR OUTDOOR APPLICATION.
 - LED DRIVERS SHALL HAVE 0-10V DIMMING CAPABILITIES AT MINIMUM.
 - DIMMING FLUORESCENT BALLAST - REFER TO LIGHTING FIXTURE SCHEDULE.
 - HIGH INTENSITY DISCHARGED BALLAST SHALL BE HIGH POWER FACTOR, CONSTANT WATTAGE TYPE WITH A MAXIMUM 20% TOTAL HARMONIC DISTORTION, CLASS "A" OR BETTER SOUND RATING AND 0° FAHRENHEIT RATING FOR FIXTURES MOUNTED OUTDOOR.
 - ALL EXIT SIGNS SHALL BE INSTALLED IN ACCORDANCE WITH THE LOCAL FIRE PREVENTION CODE AND LOCAL AUTHORITIES. CONTRACTOR TO PROVIDE ALL NECESSARY MOUNTING HARDWARE AS REQUIRED. CONTRACTOR TO VERIFY CHEVRONS AND NUMBER OF FACES WITH THE ARCHITECTURAL REFLECTED CEILING PLANS. ANY DISCREPANCIES BETWEEN THE ARCHITECTURAL AND THE ELECTRICAL PLAN SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT AND CONFIRMED PRIOR TO PLACEMENT OF THE ORDER.
 - ALL FIXTURE VOLTAGES SHALL BE VERIFIED PRIOR TO PLACING THE ORDER. CONTRACTOR TO REFER TO THE LIGHTING PLAN BRANCH CIRCUIT INFORMATION TO CONFIRM VOLTAGE.

- LAMP MODEL INDICATED ON THE LAMP SECTION SHALL BE AS MANUFACTURED BY G.E., OSRAM SYLVANIA, OR PHILIPS ONLY. ALL OTHERS SHALL BE REJECTED.
- ANY DISCREPANCIES AND/OR CONFLICTS BETWEEN CATALOG NUMBERS (LAMP/FIXTURE) AND FIXTURE DESCRIPTIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER FOR CLARIFICATION PRIOR TO SUBMITTING BID AND/OR PLACING ORDER.
- PROVIDE SHOP DRAWING SUBMITTALS FOR APPROVAL PRIOR TO PLACING THE ORDER. SHOP DRAWING SUBMITTAL SHALL INCLUDE MANUFACTURER'S CUT SHEETS FOR EACH LIGHT FIXTURE, LAMP AND BALLAST. SUBSTITUTIONS OF SPECIFIED PRODUCTS ARE STRICTLY PROHIBITED - UNLESS PRIOR WRITTEN APPROVAL FROM THE ENGINEER IS PROVIDED AND THAT ALL CONDITIONS STATED HEREIN ARE MET:
 - LIGHTING FIXTURE SUBSTITUTIONS SHALL BE FORMALLY PRESENTED TO THE ENGINEER. CONTRACTOR SHALL MAKE ARRANGEMENT WITH THE ENGINEER 10 WORKING DAYS PRIOR TO BID TIME.
 - A COMPLETE AND OPERATING SAMPLE OF EACH SUBSTITUTED FIXTURES, WIRED FOR 120V OPERATION, WITH LAMP, CORD AND PLUG.
 - PROVIDE COMPLETE PHOTOMETRIC CALCULATION WITH THE PROPOSED SUBSTITUTE PRODUCT FOR ALL EXTERIOR LIGHTING AND INTERIOR LIGHTING SUBSTITUTIONS, USING THE SPECIFIED LAMP TYPE AND WATTAGE. A POINT-BY-POINT SCALED COMPUTER PRINTOUT SHALL BE PROVIDED INDICATING THE ILLUMINATION LEVELS ARE MET. THE PROPOSED SUBSTITUTE SHALL PROVIDE PERFORMANCE EQUAL TO, OR BETTER THAN THE SPECIFIED PRODUCTS. THE PHOTOMETRIC REPORT MUST BE DONE IN ACCORDANCE WITH PUBLISHED I.E.S. TESTING PROCEDURES AND CERTIFIED BY A REGISTERED ELECTRICAL ENGINEER.
 - A CURRENT ORIGINAL CATALOG DATA SHEET WITH LUMINAIRE CATALOG NUMBERS SHALL BE PROVIDED. MODIFIED CATALOG DATA SHEETS WILL NOT BE ACCEPTED.
 - ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COSTS/PAYMENTS OF ANY ESTABLISHED LIQUIDATED DAMAGES IF THE PROJECT SCHEDULE OR COMPLETION OF PROJECT IS DELAYED DUE TO THE APPROVED SUBSTITUTION.
- PROVIDE INTERNAL DISCONNECT FOR ALL DOUBLE-ENDED FLUORESCENT OR BALLASTED LIGHT FIXTURES THAT ARE SUPPLIED BY A MULTI-WIRE BRANCH CIRCUIT AND CONTAIN BALLAST WHICH CAN BE SERVICED IN PLACE. PROVIDE AN INTERNAL DISCONNECTING MEANS CAPABLE OF SIMULTANEOUSLY DISCONNECTING FROM THE SOURCE OF SUPPLY ALL CONDUCTORS OF THE BALLAST, INCLUDING THE GROUNDING CONDUCTOR IF ANY. THE LINE SIDE OF THE DISCONNECTING MEANS SHALL BE GUARDED. THE DISCONNECTING MEANS SHALL BE LOCATED SO AS TO BE ACCESSIBLE TO QUALIFIED PERSONS BEFORE SERVICING OR MAINTAINING THE BALLAST PER NEC 410.130(G). INTERNAL DISCONNECTS SHALL BE BY "IDEAL POWERPLUG DISCONNECTS", "LINEAR DISCONNECT" OR EQUAL.

LIGHTING FIXTURE SCHEDULE

TYPE	FIXTURE MANUFACTURER	RATED WATTS /LAMPS	INPUT WATTS	VOLT	LAMP MANUFACTURER		LIGHTING FIXTURE DESCRIPTION
					LAMP MODEL #		
(LC-1)	RAYON LIGHTING #RPA-6-CY-12-DL-25L-30-UNV-ID-55-S-BL-SM	31	31	120	LED		6" CYLINDER LED DOWNLIGHT WITH 0-10V DIMMING.
					INCL. IN FIXTURE		
(LC-1E)	RAYON LIGHTING #RPA-6-CY-12-DL-25L-30-UNV-ID-55-S-BL-SM-EMW	31	31	120	LED		SAME AS TYPE "LC-1" WITH 90MIN. INTEGRAL BATTERY BACK-UP
					INCL. IN FIXTURE		
(C-2)	LIGHTOLIER #C4PDL259030NZ10UCLB WITH #CASK36BK	27	27	120	LED		4" CYLINDER LED NARROW BEAM WITH 0-10V DIMMING, BLACK FINISH. PENDANT MOUNT WITH 36" STEM KIT BLACK FINISH.
					INCL. IN FIXTURE		
(C-3)	LIGHTOLIER #C6WDL25930WZ10UCLB	23	23	120	LED		6" WALL-MOUNT LED DOWNLIGHT WITH 0-10V DIMMING. BLACK FINISH.
					INCL. IN FIXTURE		
(LG-1)	COOPER LIGHTING #4VRVT3-LDS-4-P-UNV-L835-CD1-WL-MSWL20	31	31	120	LED		4" SURFACE-MOUNT VANDAL RESISTANT LED. PARKING GARAGE DISTRIBUTION, WET-LOCATION LISTED WITH 0-10V DIMMING AND INTEGRAL OCCUPANCY SENSOR.
					INCL. IN FIXTURE		
(LG-1E)	COOPER LIGHTING #4VRVT3-LDS-4-P-UNV-EL10W-L835-CD1-WL-MSWL20	31	31	120	LED		SAME AS TYPE "LG-1" WITH 90MIN. INTEGRAL BATTERY BACK-UP, 1100 MIN. LUMENS (EM).
					INCL. IN FIXTURE		
(LG-3)	COOPER LIGHTING #4VRVT3-LDS-4-G-UNV-L835-CD1-WL	31	31	120	LED		4" SURFACE-MOUNT VANDAL RESISTANT LED. GENERAL DISTRIBUTION, WET-LOCATION LISTED.
					INCL. IN FIXTURE		
(LL-1)	DAY-BRITE #CSW48-2835UDZTZO	31	31	120	LED		48" SURFACE-MOUNT LINEAR LED WITH 0-10V DIMMING.
					INCL. IN FIXTURE		
(LL-1E)	DAY-BRITE #CSW48-2835UDZTZO-EM	31	31	120	LED		SAME AS TYPE "LL-1" WITH 90MIN. INTEGRAL BATTERY BACK-UP, 1100 MIN. LUMENS (EM).
					INCL. IN FIXTURE		
(LL-2)	DAY-BRITE #CSW48-2835UDZTZO-B-EM	31	31	120	LED		48" SURFACE-MOUNT LINEAR LED WITH 0-10V DIMMING WITH BLACK PAINTED HOUSING AND 90 MIN. INTEGRAL BATTERY BACK-UP, 1100 MIN. LUMENS (EM).
					INCL. IN FIXTURE		
(P-1)	METALUMEN #M4P-2L30K-4-NN-B-L31-SS-4-NR-C	48.6	48.6	120	LED		4" LINEAR PENDANT LED WITHOUT LENS, OPEN LUMINAIRE DESIGN WITH 0-10V DIMMING.
					INCL. IN FIXTURE		
(LR-1)	RAYON LIGHTING #RPA4-10L-30-UNV-ID-80-NC-RFA-B WITH #4RFO-W-W	11	11	120	LED		4" LED DOWNLIGHT WITH FROSED FILTER AND 0-10V DIMMING. WHITE FINISH
					INCL. IN FIXTURE		
(LR-1E)	RAYON LIGHTING #RPA4-10L-30-UNV-ID-80-F-NC-RFA-B-EIB WITH #4RFO-W-W	11	11	120	LED		SAME AS TYPE "LR-1" EXCEPT WITH INTEGRAL 90-MINUTE BATTERY BACKUP.
					INCL. IN FIXTURE	⚠	
(LR-2)	LUTRON #FPDT-R-30X-65-MW WITH #FPH-NX-F1	14	14	120	LED		ROUND LED DOWNLIGHT WITH DIMMING DRIVER. MATTE WHITE TRIM.
					INCL. IN FIXTURE		
(LR-3)	COOPER LIGHTING #RA406930WH-CA WITH #H245ICAT	10	10	120	LED		4" LED ADJUSTABLE GIMBAL WITH DIMMABLE DRIVER
					INCL. IN FIXTURE		
(LR-3E)	COOPER LIGHTING #RA406930WH-CA WITH #H245ICAT	10	10	120	LED		SAME AS TYPE "LR-3" EXCEPT CONNECTED TO EMERGENCY CIRCUIT.
					INCL. IN FIXTURE		
(LR-4)	LUTRON #FPDT-R-30X-30-MW WITH #FPH-S-F1	13	13	120	LED		ROUND LED DOWNLIGHT WITH SHALLOW IC HOUSING AND 2-WIRE DIMMING SYSTEM.
					INCL. IN FIXTURE		
(LS-1)	TECH LIGHTING #700OSIKN-92730-B-120	12.2	12.2	120	LED		OUTDOOR WALL/STEP LIGHT WET LOCATION LISTED. BLACK FINISH
					INCL. IN FIXTURE		
(LS-2)	BEGA #84672-79825	12.3	12.3	120	LED		LED BOLLARD WITH ASYMMETRICAL SHIELDED LIGHT DISTRIBUTION AND 0-10V DIMMING
					INCL. IN FIXTURE		
(IE-1)	CHLORIDE #ER46L-1-W-G	2.5	2.5	120	LED		UNIVERSAL MOUNTED GREEN LED EXIT SIGN WITH SINGLE FACE AND 90 MINUTE BATTERY BACKUP
					INCL. IN FIXTURE		
(IE-2)	CHLORIDE #ER46L-2-W-G	2.5	2.5	120	LED		UNIVERSAL MOUNTED GREEN LED EXIT SIGN WITH DOUBLE FACE AND 90 MINUTE BATTERY BACKUP
					INCL. IN FIXTURE		

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Plot Date: 2/27/2024 4:07:18 PM

SHEET TITLE:

**LIGHTING
FIXTURE
SCHEDULES**

SHEET NO:

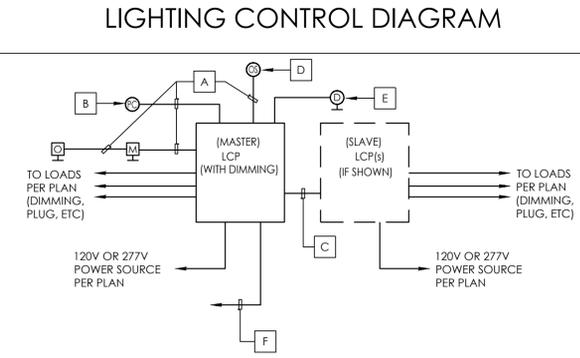
E501

MASTER PANEL: LCP1		SLAVE LIGHTING CONTROL PANEL					LCP4	
MOUNTING: SURFACE								
RELAY	PNL & CKT #	LOAD DESCRIPTION	MASTER SWITCH	OVERRIDE SWITCH	ZONE NUMBER	DIM NON-DIM PLUG-LOAD	NOTES	
1	HP4-10a	6TH FLOOR ELEVATOR LOBBY LIGHTING	A	-	2	NON-DIM	VIA EXTERIOR PHOTOCELL	
2	HP4-10b	6TH FLOOR EXTERIOR CORRIDOR LTG	A	-	2	NON-DIM	VIA EXTERIOR PHOTOCELL	
3	INV2-1	6TH FLOOR STAIR LANDING LIGHTING	A	-	2	NON-DIM	VIA EXTERIOR PHOTOCELL	
4	INV2-2	6TH FLOOR PATIO LIGHTING	A	-	2	NON-DIM	VIA EXTERIOR PHOTOCELL	
5	-	SPARE	-	-	-	-	-	
6	-	SPARE	-	-	-	-	-	
7	-	SPARE	-	-	-	-	-	
8	-	SPARE	-	-	-	-	-	

MOUNTING: SURFACE		DEMAND RESPONSE: YES		LIGHTING CONTROL PANEL					LCP1	
PHOTOCELL: YES		NETWORK: -								
RELAY	PNL & CKT #	LOAD DESCRIPTION	MASTER SWITCH	OVERRIDE SWITCH	ZONE	DIM NON-DIM PLUG-LOAD	NOTES			
1	HP1-23a	1ST FLOOR PARKING GARAGE WALKWAY LTG	A	23a	1	DIM	-			
2	HP1-23b	EXTERIOR WALL-MOUNTED LIGHTING	A	-	2	NON-DIM	VIA EXTERIOR PHOTOCELL			
3	HP1-23c	EXTERIOR WALL-MOUNTED LIGHTING	A	-	3	NON-DIM	VIA EXTERIOR PHOTOCELL			
4	HP1-25	1ST FLOOR PARKING GARAGE COVE LTG	A	25	1	NON-DIM	-			
5	HP1-27a	EXTERIOR CANOPY & STEP-LIGHTING	A	-	2	NON-DIM	VIA EXTERIOR PHOTOCELL			
6	HP1-27b	EXTERIOR CANOPY & STEP-LIGHTING	A	-	3	NON-DIM	VIA EXTERIOR PHOTOCELL			
7	HP1-29a	1ST FLOOR COMMON AREA LIGHTING	A	29a	1	DIM	VIA DAYLIGHTING PHOTOCELL			
8	HP1-29b	1ST FLOOR COMMON AREA LIGHTING	A	29b	1	DIM	VIA DAYLIGHTING PHOTOCELL			
9	HP1-29c	1ST FLOOR COMMON AREA LIGHTING	A	29c	1	DIM	-			
10	HP1-33c	1ST FLOOR ELEVATOR ENTRY & MAILBOXES LTG	A	33c	1	DIM	-			
11	INV1	EGRESS DOORS EXTERIOR LIGHTING	A	-	2	NON-DIM	VIA EXTERIOR PHOTOCELL			
12	HP1-3a	COMMON SPACE PLUG CONTROL	A	-	1	PLUG-LOAD	-			
13	-	SPARE	-	-	-	-	-			
14	-	SPARE	-	-	-	-	-			
15	-	SPARE	-	-	-	-	-			
16	-	SPARE	-	-	-	-	-			

ZONE	TIME		PHOTOCCELL		REMARKS
	ON	OFF	ON	OFF	
1	8AM	12AM	-	-	NORMAL HOURS**
2	-	-	YES	YES	SECURITY LIGHTING**
3	-	12AM	YES	-	ONE HALF OF EXTERIOR LIGHTING**
4	-	-	-	-	-

**SCHEDULE SHALL BE DETERMINED BY OWNER



- LIGHTING CONTROL KEYED NOTES:**
- A PROVIDE 3/4" CONDUIT MINIMUM, OR LARGER, WITH CONDUCTORS PER MANUFACTURER'S RECOMMENDATION.
 - B EXTERIOR PHOTOCELL MOUNTED AT THE ROOFTOP LOCATION FACING NORTH, OR INDOOR PHOTOCELL, OR PHOTOSENSOR MOUNTED INSIDE THE SPACE WHERE SHOWN FOR DAYLIGHTING.
 - C PROVIDE 3/4" CONDUIT MINIMUM, OR LARGER AS REQUIRED, WITH QUANTITY AND TYPE OF CONDUCTORS, PER MANUFACTURER'S RECOMMENDATIONS, FOR INTERCONNECTION MASTER AND SLAVE PANELS. REFER TO MASTER RELAY SCHEDULE FOR NETWORKING TYPE.
 - D LOW-VOLTAGE OCCUPANCY SENSOR.
 - E LOW-VOLTAGE PROGRAMMABLE/ADDRESSABLE DIMMING AND ON/OFF SWITCH(ES).
 - F DEMAND RESPONSE PROTOCOL AS REQUIRED.

LIGHTING CONTROL SPECIFICATIONS

- LIGHTING CONTROL SYSTEM SHALL BE DIGITAL AND CONSIST OF A MASTER LCP WITH UP TO 48 INDIVIDUAL RELAYS, SLAVE LCP(S) WITH UP TO 48 INDIVIDUAL RELAYS IN EACH PANEL WHICH CAN BE SWITCHABLE OR 0-10VDC DIMMABLE. DIGITAL SWITCHES AND DIGITAL INTERFACE CARDS. ALL SYSTEM COMPONENTS SHALL CONNECT IN A DAISY CHAIN STYLE CONFIGURATION AND BE CONTROLLED VIA CATEGORY 5 PATCH CABLE WITH RJ45 CONNECTORS, PROVIDING REAL-TIME TWO-WAY COMMUNICATION WITH EACH SYSTEM COMPONENT. ANALOG SYSTEMS ARE NOT ACCEPTABLE. IF INDICATED ON THE PLANS, LIGHTING CONTROL SYSTEM SHALL BE ABLE TO FULLY INTEGRATE SMARTBREAKER PANELBOARDS. ALL CABLES SUPPLIED BY CONTRACTOR.
- RELAY PANELS SHALL BE PRE-WIRED, PRE-ASSEMBLED, PREPROGRAMMED AND LISTED TO UL 916 (NORMAL) OR ETL LISTED TO UL924 (EMERGENCY). PANELS SHALL BE PROVIDED WITH DUAL VOLTAGE POWER SUPPLY AND 1/4 GAUGE BARRIERS TO SEPARATE HIGH AND LOW VOLTAGE, NORMAL AND EMERGENCY POWER.
- STANDARD RELAYS SHALL HAVE NORMALLY CLOSED (NC) CONTACTS RATED FOR 120/277V 20A TUNGSTEN, BALLAST OR HID. STANDARD RELAYS SHALL BE ZERO-CROSS TYPE. NO EXCEPTIONS. OPTIONAL 600V, 2-POLE RELAY, NO OR NC, AND 347 SINGLE POLE RELAY SHALL BE AVAILABLE.
- ALL INCANDESCENT LIGHTING CIRCUITS SHALL BE CONTROLLED BY A NC/SOFTSTART RELAY. NO EXCEPTIONS.
- RELAY PANEL ELECTRONICS SHALL PROVIDE CURRENT VISUAL STATUS AND CONTROL OF EACH RELAY OR ZONE. ALL SYSTEM CONTROL ELECTRONICS SHALL STORE PROGRAMMING IN A NON-VOLATILE MEMORY AND PROVIDE 10 YEAR BATTERY BACK UP FOR TIME OF DAY.
- LIGHTING CONTROL SYSTEM SHALL CONSIST OF MASTER AND SLAVE PANEL(S) CONTROLLED BY A 32-CHANNEL DIGITAL TIME CLOCK (DTC) THAT CONTROLS AND PROGRAMS THE ENTIRE LIGHTING CONTROL SYSTEM. THE DTC SHALL SUPPLY ALL TIME FUNCTIONS AND ACCEPT OTHER INPUTS. THE DTC SHALL ACCEPT CONTROL LOCALLY USING BUILT IN BUTTON PROMPTS AND USE OF AN 8 LINE 21-LETTER DISPLAY, FROM A COMPUTER, MODEM, ETHERNET OR INTERNET. ALL COMMANDS SHALL BE IN PLAIN ENGLISH. HELP PAGES SHALL DISPLAY ON THE DTC SCREEN.
- ALL SWITCHES SHALL COMMUNICATE VIA RS 485, CAT 5 PATCH CABLE WITH RJ45 CONNECTORS. CONTACT CLOSURE STYLE SWITCHES ARE NOT ACCEPTABLE. ANY SWITCH BUTTON FUNCTION SHALL BE ABLE TO BE CHANGED LOCALLY (AT THE DTC OR A PC) OR REMOTELY, VIA MODEM, ETHERNET OR INTERNET. REFER TO SINGLE LINE DIAGRAM FOR WIRING DETAILS. SWITCHES WHICH CANNOT BE PROGRAMMED REMOTELY SHALL NOT BE ACCEPTABLE.
- PHOTOCELL, EXTERIOR (PCO) OR INTERIOR (PCI), SHALL PROVIDE READOUT ON THE DTC SCREEN IN NUMBER VALUES ANALOGOUS TO FOOT-CANDLES. EACH PHOTOCELL SHALL PROVIDE A MINIMUM OF 14 TRIGGER POINTS. EACH TRIGGER CAN BE PROGRAMMED TO CONTROL ANY RELAY OR ZONE. EACH TRIGGER SHALL BE SET THROUGH DTC, LOCALLY OR REMOTELY. PHOTOCELLS THAT REQUIRE THE USE OF SET SCREWS OR MANUAL ADJUSTMENTS AT THE PHOTOCELL CONTROL CARD SHALL NOT BE ACCEPTABLE.
- LIGHTING CONTROL SYSTEM INTERFACES TO INCLUDE A DRY CONTACT INPUT INTERFACE, BMS INTERFACE, DIMMING SYSTEM INTERFACE, ETHERNET/INTERNET INTERFACE AND AN INTERFACE TO SMARTBREAKER PANEL BOARDS. VERIFY AND INSTALL ONLY THOSE INTERFACES INDICATED ON THE PLANS.
- STANDARD LIGHTING CONTROL SYSTEM SOFTWARE, PRE-INSTALLED INTO THE DTC, SHALL CONSIST OF AND USE STANDARD GRAPHICAL MANAGEMENT SOFTWARE (GMS) PAGES. GMS SOFTWARE SHALL PROVIDE VIA LOCAL OR REMOTE PC A VISUAL REPRESENTATION OF EACH DEVICE ON THE BUS, SHOW REAL TIME STATUS AND THE ABILITY TO CHANGE THE STATUS OF ANY INDIVIDUAL DEVICE, RELAY OR ZONE. OPTIONAL SOFTWARE THAT ACCEPTS JOB SPECIFIC GRAPHICS SHALL BE AVAILABLE. NO EXCEPTIONS.
- MASTER PANEL SHALL HAVE A MINIMUM OF 6-INPUT DIGITAL INPUT CARD, UNLESS OTHERWISE NOTED. TO BE USED FOR DEMAND RESPONSE PROTOCOL AS REQUIRED, TO REDUCE BUILDING'S TOTAL LIGHTING POWER BY 15%.
- START UP: EC SHALL CONTACT LIGHTING CONTROL MANUFACTURER AT LEAST 7 DAYS BEFORE TURNOVER OF PROJECT. MANUFACTURER WILL REMOTELY DIAL INTO THE LIGHTING CONTROL SYSTEM, RUN DIAGNOSTICS AND CONFIRM SYSTEM PROGRAMMING. EC SHALL BE AVAILABLE AT THE TIME OF DIAL IN TO PERFORM ANY CORRECTIONS REQUIRED BY LC.S.D. EC IS RESPONSIBLE FOR COORDINATING WITH GC AND THE OWNER, THE INSTALLATION OF A DEDICATED TELEPHONE LINE OR A SHARED PHONE LINE WITH A/B SWITCH. PHONE JACK TO BE MOUNTED WITHIN 12" OF MASTER LCP. LABEL JACK WITH PHONE NUMBER. EC SHALL CONNECT PHONE LINE FROM JACK TO MASTER LCP. NO EXCEPTIONS.
- TELEPHONE FACTORY DIAL-UP SUPPORT SHALL BE AVAILABLE AT NO ADDITIONAL COST TO THE EC OR OWNER BOTH DURING AND AFTER THE 3 YEAR WARRANTY PERIOD. FACTORY TO PREPROGRAM THE LIGHTING CONTROL SYSTEM PER PLANS AND APPROVED SUBMITTAL. THE LIGHTING CONTROL MANUFACTURER, AT NO ADDED COST, SHALL PROVIDE ADDITIONAL PROGRAMMING VIA MODEM AS REQUIRED BY THE EC OR OWNER FOR THE OPERATIONAL LIFE OF THE SYSTEM. MANUFACTURER WARRANTS THAT THE DTC SOFTWARE CAN BE UPGRADED AND MONITORED REMOTELY. NO EXCEPTIONS.
- SHOP DRAWINGS: SUBMIT DIMENSIONED DRAWINGS OF LIGHTING CONTROL SYSTEM AND ACCESSORIES INCLUDING, BUT NOT NECESSARILY LIMITED TO, RELAY PANELS, SWITCHES, DTC, PHOTOCELLS AND OTHER INTERFACES. DRAWINGS SHALL INDICATE EXACT LOCATION AND PROGRAMMING OF EACH DEVICE. INDICATE ALL TIME SCHEDULES AND SWITCH BUTTON ENGRAVING.
- THE CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE A COMPLETE AND FULLY FUNCTIONING CODE APPROVED LOW VOLTAGE LIGHTING CONTROL SYSTEM INCLUDING ALL NECESSARY MATERIALS AND LABOR.
- THE LIGHTING CONTROL SYSTEM SHALL BE AS MANUFACTURED BY LC.S.D., WATSTOPPER, HUBBELL OR EQUAL. SHOP DRAWINGS SHALL BE PROVIDED SHOWING ALL COMPONENTS, SOFTWARES, WIRING DIAGRAM AND PROGRAMMING SCHEDULES. CONTRACTOR TO INCLUDE TWO HOURS OF PROGRAMMING TIME BY THE MANUFACTURER'S REPRESENTATIVE IN THE PRESENCE OF THE OWNER.
- IT IS THE INTENT OF THE CONTRACT DOCUMENTS, WHICH ARE PRESENTED IN A DIAGRAMMATIC, "DESIGN-BUILD" FORMAT, FOR THE CONTRACTOR TO DESIGN, PROVIDE AND INSTALL A COMPLETE AND FULLY FUNCTIONING, CODE APPROVED LOW VOLTAGE LIGHTING CONTROL SYSTEM.
- LIGHTING CONTROL SYSTEM SHALL COMPLY WITH LATEST ADOPTED CALIFORNIA ENERGY COMMISSION TITLE 24 REQUIREMENTS.

LUMINAIRE TYPE	MINIMUM REQUIRED CONTROL STEPS (% OF FULL-RATED POWER)	UNIFORM LEVEL OF ILLUMINANCE SHALL BE ACHIEVED BY:										
Line-voltage sockets except GU-24 Low-voltage incandescent systems LED luminaires and LED source systems GU-24 rated for LED	Continuous dimming 10-100 percent	Continuous dimming 10-100 percent										
GU-24 sockets rated for fluorescent > 20 watts Pin-based compact fluorescent > 20 watts. *2												
GU-24 sockets rated for fluorescent > 20 watts Pin-based compact fluorescent > 20 watts. *2 Linear fluorescent and U-bent fluorescent ≤ 13 watts	Continuous dimming 20-100 percent	Continuous dimming 20-100 percent										
GU-24 sockets rated for fluorescent ≤ 20 watts Pin-based compact fluorescent ≤ 20 watts. *2 Linear fluorescent and U-bent fluorescent ≤ 13 watts												
Linear fluorescent and U-bent fluorescent > 13 watts	Minimum one step between 30-70 percent	<ul style="list-style-type: none"> - Stepped dimming; or - Continuous dimming; or - Switching alternate lamps in a luminaire 										
Track Lighting	Minimum one step between 30-70 percent	<ul style="list-style-type: none"> - Stepped dimming; or - Continuous dimming; or - Separately switching circuits in multi-circuit track with a minimum of two circuits. 										
	Minimum one step in each range:											
HID > 20 watts Induction > 25 watts Other light sources	Minimum one step between 50-70 percent	<ul style="list-style-type: none"> - Stepped dimming; or - Continuous dimming; or - Switching alternate lamps in each luminaire, having a minimum of 2 lamps per luminaire, illuminating the same area and in the same manner. 										
			<table border="1"> <tr><td>20%</td><td>50%</td><td>75%</td><td>100%</td></tr> <tr><td>to</td><td>to</td><td>to</td><td></td></tr> <tr><td>40%</td><td>70%</td><td>85%</td><td></td></tr> </table>	20%	50%	75%	100%	to	to	to		40%
20%	50%	75%	100%									
to	to	to										
40%	70%	85%										

NOTES:
 * 1. Full rated input power of ballast and lamp, corresponding to maximum ballast factor
 * 2. Includes only pin based lamps: twin tube, multiple twin tube, and spiral lamps

AUTOMATIC DAYLIGHTING CONTROL INSTALLATION AND OPERATION:

FOR LUMINAIRES IN DAYLIGHT ZONES, AUTOMATIC DAYLIGHTING CONTROLS SHALL BE INSTALLED AND CONFIGURED TO OPERATE ACCORDING TO ALL OF THE FOLLOWING REQUIREMENTS:

- IT IS THE INTENT OF THE CONTRACT DOCUMENTS, WHICH ARE PRESENTED IN A DIAGRAMMATIC, "DESIGN-BUILD" FORMAT, FOR THE CONTRACTOR TO DESIGN, PROVIDE AND INSTALL A COMPLETE AND FULLY FUNCTIONING, CODE APPROVED LOW VOLTAGE LIGHTING CONTROL SYSTEM.
- PHOTOSENSORS SHALL BE LOCATED SO THAT THEY ARE NOT READILY ACCESSIBLE TO UNAUTHORIZED PERSONNEL, AND THE LOCATION WHERE CALIBRATION ADJUSTMENTS ARE MADE TO AN AUTOMATIC DAYLIGHTING CONTROLS SHALL NOT BE READILY ACCESSIBLE TO UNAUTHORIZED PERSONNEL.
- AUTOMATIC DAYLIGHTING CONTROLS SHALL PROVIDE FUNCTIONAL MULTILEVEL LIGHTING, HAVING AT LEAST THE NUMBER OF CONTROL STEPS SPECIFIED IN TABLE ON THIS SHEET.
- FOR EACH SPACE, THE COMBINED ILLUMINANCE FROM THE CONTROLLED LIGHTING AND DAYLIGHT SHALL NOT BE LESS THAN THE ILLUMINANCE FROM CONTROLLED LIGHTING WHEN NO DAYLIGHT IS AVAILABLE.
- IN AREAS SERVED BY LIGHTING THAT IS DAYLIGHT CONTROLLED, WHEN THE ILLUMINANCE RECEIVED FROM THE DAYLIGHT IS GREATER THAN 150 PERCENT OF THE DESIGN ILLUMINANCE RECEIVED FROM GENERAL LIGHTING SYSTEM AT FULL POWER, THE GENERAL LIGHTING POWER IN DAYLIGHT ZONE SHALL BE REDUCED BY A MINIMUM OF 65 PERCENT.

LIGHTING CONTROL SCHEDULE

SCALE	1
NTS	



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



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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: 2/27/2024 4:03:55 PM
 SHEET TITLE:
LIGHTING CONTROL SCHEDULES

SHEET NO:
E502

STATE OF CALIFORNIA
Indoor Lighting
 NRCC-LTI-E (Created 11/19)
 CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE
 Project Name: WEST BOULEVARD HOUSING
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<input type="checkbox"/>	<input checked="" type="checkbox"/>	NRCC-LTI-04-E - Must be submitted for two interlocked systems serving an auditorium, a convention center, a conference room, a multipurpose room, or a theater to be recognized for compliance.	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input checked="" type="checkbox"/>	NRCC-LTI-05-E - Must be submitted for a Power Adjustment Factor (PAF) to be recognized for compliance.	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input checked="" type="checkbox"/>	NRCC-LTI-06-E - Must be submitted for additional wattage installed in a video conferencing studio to be recognized for compliance.	<input type="checkbox"/>	<input type="checkbox"/>

U. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE
 Table Instructions: 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 any with "A" in the form name must be completed through an Acceptance Test Technician Certification Provider (ATTCP). For more information visit: <http://www.energy.ca.gov/title24/attcp/providers.html>

YES	NO	Form/Title	Field Inspector
<input checked="" type="checkbox"/>	<input type="checkbox"/>	NRCC-LTI-02-A - Must be submitted for occupancy sensors and automatic time switch controls.	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	NRCC-LTI-03-A - Must be submitted for automatic daylight controls.	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	NRCC-LTI-04-A - Must be submitted for demand responsive lighting controls.	<input type="checkbox"/>
<input type="checkbox"/>	<input checked="" type="checkbox"/>	NRCC-LTI-05-A - Must be submitted for institutional tuning power adjustment factor (PAF).	<input type="checkbox"/>
<input type="checkbox"/>	<input checked="" type="checkbox"/>	NRCC-ENV-03-F - Must be submitted for daylighting design power adjustment factors (PAF).	<input type="checkbox"/>

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

STATE OF CALIFORNIA
Indoor Lighting
 NRCC-LTI-E (Created 11/19)
 CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE
 Project Name: WEST BOULEVARD HOUSING
 Project Address: 2853 WEST BLVD LOS ANGELES, CA 90016
 Report Page: Page 4 of 8
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04	05	06	07	08	09	10	11	12
Area Description	Complete Building or Area Category	Area Controls §130.1(a)	Multi-Level Controls §130.1(b)	Shut-Off Controls §130.1(c)	Primary/Skylight Daylighting §130.1(d)	Secondary Daylighting §140.6(d)	Interlocked Systems §140.6(a)	Field Inspector
ELEVATOR LOBBIES	Main Entry Lobby	Manual ON/OFF	Dimmer	Auto Timeswitch	NA	NA	<input type="checkbox"/>	<input type="checkbox"/>
1ST FLOOR COMMON SPACE	Lounge	Manual ON/OFF	Dimmer	Auto Timeswitch	Included	Included	<input type="checkbox"/>	<input type="checkbox"/>
MAILBOXES	Commercial and Industrial Storage	Manual ON/OFF	Dimmer	Auto Timeswitch	NA	NA	<input type="checkbox"/>	<input type="checkbox"/>
RESIDENTIAL CORRIDORS	Corridor	Manual ON/OFF	Dimmer	Auto Timeswitch	NA	NA	<input type="checkbox"/>	<input type="checkbox"/>
ELEVATOR MACHINE ROOM	Electrical, Mechanical, Telephone Rooms	Manual ON/OFF	Dimmer	Occ. Sensor	NA	NA	<input type="checkbox"/>	<input type="checkbox"/>

13
 Plan Sheet Showing Daylit Zones:
 E101

I. LIGHTING POWER ALLOWANCE: COMPLETE BUILDING OR AREA CATEGORY METHODS
 Table Instructions: Complete the table for each area complying using the Complete Building or Area Category Methods per §140.6(b). Indicate if additional lighting power allowances per §140.6(c) or adjustments per §140.6(a) are being used.

01	02	03	04	05	06
Area Description	Complete Building or Area Category	Allowed Density (W/ft²)	Area (ft²)	Allowed Wattage (Watts)	Additional Allowances / Adjustment
ELEVATOR LOBBIES	Main Entry Lobby	0.85	648	550.8	
1ST FLOOR COMMON SPACE	Lounge	0.65	780	507	
MAILBOXES	Commercial and Industrial Storage	0.6	110	66	
RESIDENTIAL CORRIDORS	Corridor	0.6	1,431	858.6	
ELEVATOR MACHINE ROOM	Electrical, Mechanical, Telephone Rooms	0.4	50	20	
TOTAL:			3,019	2,002.4	See Tables J or P for detail

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STATE OF CALIFORNIA
Indoor Lighting
 NRCC-LTI-E (Created 11/19)
 CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE
 Project Name: WEST BOULEVARD HOUSING
 Project Address: 2853 WEST BLVD LOS ANGELES, CA 90016
 Report Page: Page 1 of 8
 Date Prepared: 04/26/2022

A. GENERAL INFORMATION

01 Project Location (city)	LOS ANGELES	04 Total Conditioned Floor Area (ft²)	3,019
02 Climate Zone	8	05 Total Unconditioned Floor Area (ft²)	8,212
03 Occupancy Types Within Project (select all that apply):	<input checked="" type="checkbox"/> Office <input checked="" type="checkbox"/> Parking Garage <input type="checkbox"/> Retail <input type="checkbox"/> Warehouse <input type="checkbox"/> Hotel/Motel <input type="checkbox"/> School <input type="checkbox"/> Support Areas <input type="checkbox"/> Other (write in):	06 # of Stories (Habitable Above Grade)	6

B. PROJECT SCOPE
 Table Instructions: Include any lighting systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in §140.6 or §141.0(b) for alterations. WARNING: Changing the Calculation Method in this table will result in the deletion of data previously input. If you need to change the calculation method, please open a new form or use "Save As".

Scope of Work	Conditioned Spaces	Unconditioned Spaces
	02	03
My Project Consists of (check all that apply):	Calculation Method	Calculation Method
<input checked="" type="checkbox"/> New Lighting System	Area Category	Area Category
<input checked="" type="checkbox"/> New Lighting System - Parking Garage		Complete Building
<input type="checkbox"/> Altered Lighting System		
Total Area of Work (ft²)	3,019	8,212

C. COMPLIANCE RESULTS
 Table Instructions: If any cell on this table says "DOES NOT COMPLY" or "COMPLIES with Exceptional Conditions" refer to Table D for guidance.

Lighting in conditioned and unconditioned spaces must not be combined for compliance per §140.6(b)1.	Allowed Lighting Power per §140.6(b) (Watts)				Total Allowed (Watts)	Adjusted Lighting Power per §140.6(a) (Watts)		Compliance Results
	01	02	03	04		05	08	
Complete Building §140.6(c)1	Area Category §140.6(c)2	Area Category Additional §140.6(c)25 (+)	Tailored §140.6(c)3 (+)	[See Table K]	= 2,002.4	Total Designed (Watts) [See Table F]	Adjustments PAF Control Credits §140.6(a)2 (-)	05 Must be ≥ 08 §140.6
[See Table I]	[See Table I]	[See Table J]	[See Table K]	[See Table F]		[See Table P]		
Conditioned:	2,002.4				= 2,002.4	1,570.6	= 1,570.6	COMPLIES

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

STATE OF CALIFORNIA
Indoor Lighting
 NRCC-LTI-E (Created 11/19)
 CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE
 Project Name: WEST BOULEVARD HOUSING
 Project Address: 2853 WEST BLVD LOS ANGELES, CA 90016
 Report Page: Page 8 of 8
 Date Prepared: 04/26/2022

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

Documentation Author Name: GABRIEL TUASON
 Signature: [Signature]
 Date: 04/26/2022

Company: NATIONAL ENGINEERING & CONSULTING, INC.
 Address: 30 THOMAS
 City/State/Zip: IRVINE, CALIFORNIA 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:

- 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 building provides to the building owner at occupancy.

Responsible Designer Name: REGINO C LAVARIAS
 Signature: [Signature]
 Date Signed: 04/26/2022

Company: NATIONAL ENGINEERING & CONSULTING, INC.
 Address: 30 THOMAS
 City/State/Zip: IRVINE, CALIFORNIA 92618
 License: E14492
 Phone: 949.716.9990

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

STATE OF CALIFORNIA
Indoor Lighting
 NRCC-LTI-E (Created 11/19)
 CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE
 Project Name: WEST BOULEVARD HOUSING
 Project Address: 2853 WEST BLVD LOS ANGELES, CA 90016
 Report Page: Page 5 of 8
 Date Prepared: 04/26/2022

01	02	03	04	05	06
Area Description	Complete Building or Area Category	Allowed Density (W/ft²)	Area (ft²)	Allowed Wattage (Watts)	Additional Allowances / Adjustment
BIKE STORAGE	Commercial and Industrial Storage	0.6	255	153	
BUILDING SERVICES	Electrical, Mechanical, Telephone Rooms	0.4	229	91.6	
STAIR #1	Stairwell	0.5	991	495.5	
STAIR #2	Stairwell	0.5	1,279	639.5	
STORAGE ROOMS	Commercial and Industrial Storage	0.6	162	97.2	
TRASH ROOMS	Commercial and Industrial Storage	0.6	263	157.8	
JANITOR ROOM	Commercial and Industrial Storage	0.6	53	31.8	
PACKAGES ROOM	Commercial and Industrial Storage	0.6	60	36	
PARKING GARAGE	Parking Garage Building	0.13	4,920	639.6	
TOTAL:			8,212	2,342	See Tables J or P for detail

J. ADDITIONAL LIGHTING ALLOWANCE: AREA CATEGORY METHOD QUALIFYING LIGHTING SYSTEM
 This Section Does Not Apply

K. TAILORED METHOD GENERAL LIGHTING POWER ALLOWANCE
 This Section Does Not Apply

L. ADDITIONAL LIGHTING ALLOWANCE: TAILORED WALL DISPLAY
 This Section Does Not Apply

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

STATE OF CALIFORNIA
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 CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE
 Project Name: WEST BOULEVARD HOUSING
 Project Address: 2853 WEST BLVD LOS ANGELES, CA 90016
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 Date Prepared: 04/26/2022

C. COMPLIANCE RESULTS

Unconditioned:	639.6	1,702.4	=	2,342	≥	1,788	=	1,788	COMPLIES
Controls Compliance (See Table H for Details) COMPLIES									
Rated Power Reduction Compliance (See Table Q for Details) Not Applicable									

D. EXCEPTIONAL CONDITIONS
 This table is auto-filled with uneditable comments because of selections made or data entered in tables throughout the form.
 No exceptional conditions apply to this project.

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

F. INDOOR LIGHTING FIXTURE SCHEDULE
 Table Instructions: Include all permanent designed lighting and all portable lighting in offices.

01	02	03	04	05	06	07	08	09	10
Name or Item Tag	Complete Luminaire Description	Modular (Track) Fixture	Small Aperture & Color Change	Watts per luminaire²	How Wattage is determined	Total number luminaires	Exempt per §140.6(a)3	Design Watts	Field Inspector
LC-1	6" LED CYLINDER DOWNLIGHT	<input type="checkbox"/>	<input type="checkbox"/>	31	Mfr. Spec²	4	<input type="checkbox"/>	124	<input type="checkbox"/>
LC-1E	SAME AS "LC-1" W/ EM	<input type="checkbox"/>	<input type="checkbox"/>	31	Mfr. Spec²	5	<input type="checkbox"/>	155	<input type="checkbox"/>
LC-2	4" LED CYLINDER	<input type="checkbox"/>	<input type="checkbox"/>	27	Mfr. Spec²	7	<input type="checkbox"/>	189	<input type="checkbox"/>
LL-1	48" LINEAR LED	<input type="checkbox"/>	<input type="checkbox"/>	31	Mfr. Spec²	1	<input type="checkbox"/>	31	<input type="checkbox"/>
LP-1	4" LINEAR PENDANT LED	<input type="checkbox"/>	<input type="checkbox"/>	48.6	Mfr. Spec²	1	<input type="checkbox"/>	48.6	<input type="checkbox"/>
LR-1	4" LED DOWNLIGHT	<input type="checkbox"/>	<input type="checkbox"/>	11	Mfr. Spec²	48	<input type="checkbox"/>	528	<input type="checkbox"/>
LR-1E	SAME AS "LR-1" W/ EM	<input type="checkbox"/>	<input type="checkbox"/>	11	Mfr. Spec²	45	<input type="checkbox"/>	495	<input type="checkbox"/>
Total Designed Watts UNCONDITIONED SPACES:								1,570.6	

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

TITLE 24 PROCEDURES FOR TESTING AND ADJUSTING

CONTRACTOR SHALL BE RESPONSIBLE FOR ALL WORK ASSOCIATED WITH FINAL INSPECTION AND APPLICABLE ACCEPTANCE REQUIREMENTS. INCLUDE ALL COST IN THE BASE BID. THIS SHALL INCLUDE, BUT NOT BE LIMITED TO CONSTRUCTION INSPECTION, MEASUREMENTS, MONITORING, FUNCTIONAL TESTING, CALIBRATING, ETC. CONTRACTOR SHALL ASSUME THE ROLE OF "FIELD TECHNICIAN" AND "RESPONSIBLE PERSON" AS DEFINED IN STATE OF CALIFORNIA 2019 BUILDING ENERGY EFFICIENCY STANDARDS NONRESIDENTIAL COMPLIANCE MANUAL SECTIONS 13.1.2.2 AND 13.1.2.3.

- LIGHTING CONTROL ACCEPTANCE TESTING AND ADJUSTING PROCEDURES - REFER TO NRCC-LTI-02-A
- AUTOMATIC DAYLIGHT CONTROL ACCEPTANCE TESTING AND ADJUSTING PROCEDURES - REFER TO NRCC-LTI-03-A
- DEMAND RESPONSE LIGHTING CONTROL ACCEPTANCE TESTING AND ADJUSTING PROCEDURES - REFER TO NRCC-LTI-04-A
- INSTITUTIONAL TUNING PAF ACCEPTANCE TESTING AND ADJUSTING PROCEDURES - REFER TO NRCC-LTI-05-A
- OUTDOOR LIGHTING CONTROL ACCEPTANCE TESTING AND ADJUSTING PROCEDURES - REFER TO NRCC-LTI-02-A
- ALL LIGHTING CONTROLS TESTING AND ADJUSTING DOCUMENTS NOTED ABOVE ARE AVAILABLE FROM THE CALIFORNIA ENERGY COMMISSION WEBSITE

STATE OF CALIFORNIA
Indoor Lighting
 NRCC-LTI-E (Created 11/19)
 CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE
 Project Name: WEST BOULEVARD HOUSING
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 Report Page: Page 6 of 8
 Date Prepared: 04/26/2022

M. ADDITIONAL LIGHTING ALLOWANCE: TAILORED FLOOR AND TASK LIGHTING
 This Section Does Not Apply

N. ADDITIONAL LIGHTING ALLOWANCE: TAILORED ORNAMENTAL/SPECIAL EFFECTS
 This Section Does Not Apply

O. ADDITIONAL LIGHTING ALLOWANCE: TAILORED VERY VALUABLE MERCHANDISE
 This Section Does Not Apply

P. POWER ADJUSTMENT: LIGHTING CONTROL CREDIT (POWER ADJUSTMENT FACTOR (PAF))
 This Section Does Not Apply

Q. RATED POWER REDUCTION COMPLIANCE FOR ALTERATIONS
 This Section Does Not Apply

R. 80% LIGHTING POWER FOR ALTERATIONS - CONTROLS EXCEPTIONS
 This Section Does Not Apply

S. DAYLIGHT DESIGN POWER ADJUSTMENT FACTOR (PAF)
 This Section Does Not Apply

T. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION
 Table Instructions: 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://www2.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCC/

YES	NO	Form/Title	Field Inspector
<input checked="" type="checkbox"/>	<input type="checkbox"/>	NRCC-LTI-01-E - Must be submitted for all buildings	<input type="checkbox"/>
<input type="checkbox"/>	<input checked="" type="checkbox"/>	NRCC-LTI-02-E - Must be submitted for a lighting control system, or for an Energy Management Control System (EMCS), to be recognized for compliance.	<input type="checkbox"/>

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

STATE OF CALIFORNIA
Indoor Lighting
 NRCC-LTI-E (Created 11/19)
 CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE
 Project Name: WEST BOULEVARD HOUSING
 Project Address: 2853 WEST BLVD LOS ANGELES, CA 90016
 Report Page: Page 3 of 8
 Date Prepared: 04/26/2022

Designed Wattage: Unconditioned Spaces

01	02	03	04	05	06	07	08	09	10
Name or Item Tag	Complete Luminaire Description	Modular (Track) Fixture	Small Aperture & Color Change	Watts per luminaire²	How Wattage is determined	Total number luminaires	Exempt per §140.6(a)3	Design Watts	Field Inspector
LC-3	6" WALL-MOUNT LED DOWNLIGHT	<input type="checkbox"/>	<input type="checkbox"/>	23	Mfr. Spec²	9	<input type="checkbox"/>	207	<input type="checkbox"/>
LG-1	4" PARKING GARAGE LED	<input type="checkbox"/>	<input type="checkbox"/>	31	Mfr. Spec²	6	<input type="checkbox"/>	186	<input type="checkbox"/>
LG-1E	SAME AS "LG-1" W/ EM	<input type="checkbox"/>	<input type="checkbox"/>	31	Mfr. Spec²	6	<input type="checkbox"/>	186	<input type="checkbox"/>
LL-1	48" LINEAR LED	<input type="checkbox"/>	<input type="checkbox"/>	31	Mfr. Spec²	14	<input type="checkbox"/>	434	<input type="checkbox"/>
LL-1E	SAME "LL-1" W/ EM	<input type="checkbox"/>	<input type="checkbox"/>	31	Mfr. Spec²	5	<input type="checkbox"/>	155	<input type="checkbox"/>
LL-2	48" SURFACE-MOUNT LINEAR LED	<input type="checkbox"/>	<input type="checkbox"/>	31	Mfr. Spec²	20	<input type="checkbox"/>	620	<input type="checkbox"/>
Total Designed Watts UNCONDITIONED SPACES:								1,788	

FOOTNOTE: Design Watts for small aperture and color changing luminaires which qualify per §140.6(a)3B is adjusted to be 75% of their rated wattage. Table F automatically makes this adjustment, the permit applicant should enter full rated wattage in column 05.
 *Authority Having Jurisdiction may ask for Luminaire cut sheets to confirm wattage used for compliance per §130.0(c) Wattage used must be the maximum rated for the luminaire, not the lamp.

G. MODULAR LIGHTING SYSTEMS
 This Section Does Not Apply

H. INDOOR LIGHTING CONTROLS (Not Including PAFs)
 Table Instructions: Please include lighting controls for conditioned and unconditioned spaces in this table. When an option having a * is selected, the notes section of this table must be completed. The lighting controls section of the Compliance Summary Table on the first page will show "DOES NOT COMPLY" if the notes are left blank.

Building Level Controls	01	02	03
	Mandatory Demand Response §110.12(c)	Shut-Off Controls §130.1(c)	Field Inspector
	Required > 10,000 SF	See Area/Space Level Controls	Pass
			Fail

Area Level Controls

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

NATIONAL ENGINEERING & CONSULTING, INC.
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 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: 2/27/2024 4:01:13 PM
 SHEET TITLE: **INDOOR LTG T-24 COMPLIANCE CERTIFICATES**
 SHEET NO: **E801**

STATE OF CALIFORNIA
Electrical Power Distribution
 NRCC-ELC-E (Created 11/19) CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE
 Project Name: WEST BOULEVARD HOUSING Report Page: Page 4 of 5
 Project Address: 2853 WEST BLVD LOS ANGELES, CA 90016 Date Prepared: 04/26/2022

I. CIRCUIT CONTROLS FOR 120-VOLT RECEPTACLES AND CONTROLLED RECEPTACLES
 Table Instructions: Please complete this table for entirely new or complete replacement electrical power distribution systems to demonstrate compliance with §130.5(d). Both controlled and uncontrolled receptacles must be provided in office areas, lobbies, conference rooms, kitchen areas in office spaces, copy rooms and hotel/motel guest rooms.

01	02	03	04	05	06
Room Name or Description	Location/ Type of Controlled Receptacles	Shut-Off Controls	Permanent Durable Marking Will be Used	Location of Requirements in Construction Documents	Field Inspector
			<input checked="" type="checkbox"/>	E201	Pass <input type="checkbox"/> Fail <input type="checkbox"/>
1ST FLOOR COMMON SPACE	Split-wired receptacles	Auto Time-Switch w/ applicable override	<input checked="" type="checkbox"/>	E201	Pass <input type="checkbox"/> Fail <input type="checkbox"/>

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

J. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION
 Table Instructions: 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://www2.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCC/

YES	NO	Form/Title	Field Inspector
<input checked="" type="radio"/>	<input type="radio"/>	NRCC-ELC-01-E - Must be submitted for all buildings.	Pass <input type="checkbox"/> Fail <input type="checkbox"/>

K. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE
 There are no Certificates of Acceptance applicable to electrical power distribution requirements.

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

STATE OF CALIFORNIA
Electrical Power Distribution
 NRCC-ELC-E (Created 11/19) CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE
 Project Name: WEST BOULEVARD HOUSING Report Page: Page 5 of 5
 Project Address: 2853 WEST BLVD LOS ANGELES, CA 90016 Date Prepared: 04/26/2022

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

Documentation Author Name: GABRIEL TUASON Documentation Author Signature:

Company: NATIONAL ENGINEERING & CONSULTING, INC Signature Date: 04/26/2022
 Address: 30 THOMAS CEA/HERS Certification Identification (if applicable):
 City/State/Zip: IRVINE, CALIFORNIA 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 builder provides to the building owner at occupancy.

Responsible Designer Name: REGINO C LAVARIAS Responsible Designer Signature:

Company: NATIONAL ENGINEERING & CONSULTING, INC Date Signed: 04/26/2022
 Address: 30 THOMAS License: E14492
 City/State/Zip: IRVINE, CALIFORNIA 92618 Phone: 949.716.9990

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

STATE OF CALIFORNIA
Electrical Power Distribution
 NRCC-ELC-E (Created 11/19) CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE
 Project Name: WEST BOULEVARD HOUSING Report Page: Page 3 of 5
 Project Address: 2853 WEST BLVD LOS ANGELES, CA 90016 Date Prepared: 04/26/2022

G. SEPARATION OF ELECTRICAL CIRCUITS FOR ENERGY MONITORING
 Table Instructions: Complete this table for entirely new or complete replacement electrical power distribution systems to demonstrate compliance with §130.5(b). Using the dropdown choices in column 01, indicate the load types included for each service. Any load types that are not included in the service do not need to be shown.

01	02	03	04	05
Load Type per Table 130.5-B ¹	Minimum Required Separation of Load per Table 130.5-B	Compliance Method ²	Location of Requirements in Construction Documents	Field Inspector
Elevators, escalators, moving walkways	All loads in aggregate	Method 2	E401	Pass <input type="checkbox"/> Fail <input type="checkbox"/>

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

H. VOLTAGE DROP
 Table Instructions: Please complete this table for entirely new or complete replacement electrical power distribution systems, or alterations that add, modify or replace both feeders and branch circuits to demonstrate compliance with §130.5(c). For alterations, only the altered circuits must demonstrate compliance per §141.0(b)(2)(B).

01	02	03	04	05
Electrical Service Designation/Description	Combined Voltage Drop on Installed Feeder/Branch Circuit Conductors Compliance Method	Location of Voltage Drop Calculations ³	Sheet Number for Voltage Drop Calculations in Construction Documents	Field Inspector
"MSA"	<input checked="" type="checkbox"/> Voltage drop < 5% <input type="checkbox"/> Permitted by CA Elec Code (Exception to §130.5(c))*	In construction documents	E402	Pass <input type="checkbox"/> Fail <input type="checkbox"/>

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

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

STATE OF CALIFORNIA
Electrical Power Distribution
 NRCC-ELC-E (Created 11/19) CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE
 Project Name: WEST BOULEVARD HOUSING Report Page: Page 1 of 5
 Project Address: 2853 WEST BLVD LOS ANGELES, CA 90016 Date Prepared: 04/26/2022

A. GENERAL INFORMATION
 01 Project Location (City): LOS ANGELES 02 Occupancy Types Within Project:
 Office Retail Warehouse Hotel/ Motel School Support Areas
 Parking Garage High-Rise Residential Relocatable Healthcare Facilities Other (Write in):

B. PROJECT SCOPE
 Table Instructions: Include any electrical service systems that are within the scope of the permit application.

01	02	03	04	05	06
Electrical Service Designation/Description	Scope of Work ¹	Rating (kVA)	Utility Provided Metering System Exception to §130.5(a) ²	System subject to CA Elec Code Article 517 Exception to §130.5(a)&(b)	Demand Response Controls
"MSA"	New electrical service equipment & meter	285.8	<input type="checkbox"/>	<input type="checkbox"/>	Where required, demand response controls must be specified which are capable of receiving and automatically responding to at least one standards based messaging protocol which enables demand response after receiving a demand response signal. Sections §120.2, §130.1 and §130.3 and compliance documents NRCC-MCH, NRCC-LTI and NRCC-LTS will indicate when demand response controls are required.

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

C. COMPLIANCE RESULTS
 Table Instructions: If this table says "DOES NOT COMPLY" refer to Table D, for guidance and review the Table that indicates "No".

01	02	03	04	05
Service Electrical Metering §130.5(a)	AND	Separation for Monitoring §130.5(b)	AND	Voltage Drop §130.5(c)
(See Table F)		(See Table G)		(See Table H)
Yes	AND	Yes	AND	Yes

Compliance Results: **COMPLIES**

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

STATE OF CALIFORNIA
Electrical Power Distribution
 NRCC-ELC-E (Created 11/19) CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE
 Project Name: WEST BOULEVARD HOUSING Report Page: Page 2 of 5
 Project Address: 2853 WEST BLVD LOS ANGELES, CA 90016 Date Prepared: 04/26/2022

D. EXCEPTIONAL CONDITIONS
 This table is auto-filled with uneditable comments because of selections made or data entered in tables throughout the form.
 No exceptional conditions apply to this project.

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

F. SERVICE ELECTRICAL METERING
 Table Instructions: Complete the table below for new or replacement electrical service systems OR equipment to demonstrate compliance with §130.5(a).

01	02	03	04	05
Electrical Service Designation/Description	Rating (kVA)	Required Metering Capabilities per Table 130.5-A	Location of Requirements in Construction Documents	Field Inspector
"MSA"	286	Instantaneous Demand (kW) <input checked="" type="checkbox"/> Historical Peak Demand (kW) <input checked="" type="checkbox"/> Tracking kWh for user-defined period <input checked="" type="checkbox"/> kWh per rate period <input type="checkbox"/>	E401	Pass <input type="checkbox"/> Fail <input type="checkbox"/>

01	02	03	04	05
Load Type per Table 130.5-B ¹	Minimum Required Separation of Load per Table 130.5-B	Compliance Method ²	Location of Requirements in Construction Documents	Field Inspector
Lighting including exit, egress and exterior	All lighting disaggregated by floor, type or area	Method 2	E401	Pass <input type="checkbox"/> Fail <input type="checkbox"/>
HVAC systems and components	All HVAC in aggregate and each HVAC load rated at least 50 kVA	Method 2	E401	Pass <input type="checkbox"/> Fail <input type="checkbox"/>
Domestic and service water systems	All loads in aggregate	Method 2	E401	Pass <input type="checkbox"/> Fail <input type="checkbox"/>

Table Continued

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

STATE OF CALIFORNIA
Electrical Power Distribution
 NRCC-ELC-E (Created 11/19) CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE
 Project Name: WEST BOULEVARD HOUSING Report Page: Page 3 of 5
 Project Address: 2853 WEST BLVD LOS ANGELES, CA 90016 Date Prepared: 04/26/2022

G. SEPARATION OF ELECTRICAL CIRCUITS FOR ENERGY MONITORING
 Table Instructions: Complete this table for entirely new or complete replacement electrical power distribution systems to demonstrate compliance with §130.5(b). Using the dropdown choices in column 01, indicate the load types included for each service. Any load types that are not included in the service do not need to be shown.

01	02	03	04	05
Load Type per Table 130.5-B ¹	Minimum Required Separation of Load per Table 130.5-B	Compliance Method ²	Location of Requirements in Construction Documents	Field Inspector
Elevators, escalators, moving walkways	All loads in aggregate	Method 2	E401	Pass <input type="checkbox"/> Fail <input type="checkbox"/>

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

H. VOLTAGE DROP
 Table Instructions: Please complete this table for entirely new or complete replacement electrical power distribution systems, or alterations that add, modify or replace both feeders and branch circuits to demonstrate compliance with §130.5(c). For alterations, only the altered circuits must demonstrate compliance per §141.0(b)(2)(B).

01	02	03	04	05
Electrical Service Designation/Description	Combined Voltage Drop on Installed Feeder/Branch Circuit Conductors Compliance Method	Location of Voltage Drop Calculations ³	Sheet Number for Voltage Drop Calculations in Construction Documents	Field Inspector
"MSA"	<input checked="" type="checkbox"/> Voltage drop < 5% <input type="checkbox"/> Permitted by CA Elec Code (Exception to §130.5(c))*	In construction documents	E402	Pass <input type="checkbox"/> Fail <input type="checkbox"/>

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

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



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



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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: 2/27/2024 4:03:27 PM

SHEET TITLE:
POWER TITLE 24 COMPLIANCE CERTIFICATES

SHEET NO:
 △ **E802**

STATE OF CALIFORNIA
Outdoor Lighting
 NRCC-LTO-E (Created 11/19) CALIFORNIA ENERGY COMMISSION NRCC-LTO-E

CERTIFICATE OF COMPLIANCE
 Project Name: WEST BOULEVARD HOUSING Report Page: Page 4 of 6
 Project Address: 2853 WEST BLVD LOS ANGELES, CA 90016 Date Prepared: 04/26/2022

01	02	03	04	05
Area Description	Shut-Off §130.2(c)1	Auto-Schedule §130.2(c)2	Motion Sensor §130.2(c)3	Field Inspector
ROOF DECK	EXEMPT FROM MOTION SENSORS BECAUSE LIGHT FIXTURES ALL ARE RATED LESS THAN 40 WATTS			Pass
WALKWAY ENTRY	EXEMPT FROM MOTION SENSORS BECAUSE LIGHT FIXTURES ALL ARE RATED LESS THAN 40 WATTS			Fail
6TH FLR ELEVATOR LOBBY	EXEMPT FROM MOTION SENSORS BECAUSE LIGHT FIXTURES ALL ARE RATED LESS THAN 40 WATTS			
GARAGE ENTRY	EXEMPT FROM MOTION SENSORS BECAUSE LIGHT FIXTURES ALL ARE RATED LESS THAN 40 WATTS			

I. LIGHTING POWER ALLOWANCE (per §140.7)
 Table Instructions: Please complete this table for areas using the allowance calculations per §140.7. General Hardscape Allowance is per Table 140.7-A while "Use it or lose it" Allowances are per Table 140.7-B. Indicate which allowances are being used to expand sections for user input. Luminaires that qualify for one of the "Use it or lose it" allowances shall not qualify for another "Use it or lose it" allowance.

Area Description	Surface Type	Area Wattage Allowance (AWA)		Linear Wattage Allowance (LWA)		Total General AWA + LWA (Watts)
		Illuminated Area (ft²)	Allowed Density (W/ft²)	Perimeter Length (ft)	Allowed Density (W/ft)	
ROOF DECK	Concrete	1,715	0.03	180	0.4	123.45
WALKWAY ENTRY	Concrete	1,116	0.03	223	0.4	122.68
6TH FLR ELEVATOR LOBBY	Concrete	102	0.03	43	0.4	20.26
GARAGE ENTRY	Concrete	326	0.03	74	0.4	39.38

Initial Wattage Allowance for Entire Site (Watts): 350
 Total General Hardscape Allowance (Watts): 655.77

J. LIGHTING ALLOWANCE: PER APPLICATION
 This Section Does Not Apply

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

STATE OF CALIFORNIA
Outdoor Lighting
 NRCC-LTO-E (Created 11/19) CALIFORNIA ENERGY COMMISSION NRCC-LTO-E

CERTIFICATE OF COMPLIANCE
 Project Name: WEST BOULEVARD HOUSING Report Page: Page 5 of 6
 Project Address: 2853 WEST BLVD LOS ANGELES, CA 90016 Date Prepared: 04/26/2022

K. LIGHTING ALLOWANCE: SALES FRONTAGE
 This Section Does Not Apply

L. LIGHTING ALLOWANCE: ORNAMENTAL
 This Section Does Not Apply

M. LIGHTING ALLOWANCE: PER SPECIFIC AREA
 This Section Does Not Apply

N. EXISTING CONDITIONS POWER ALLOWANCE (alterations only)
 This Section Does Not Apply

O. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION
 Table Instructions: 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/NRCC/

YES	NO	Form/Title	Field Inspector
<input checked="" type="radio"/>	<input type="radio"/>	NRCC-LTO-01-E - Must be submitted for all buildings.	Pass Fail
<input checked="" type="radio"/>	<input type="radio"/>	NRCC-LTO-02-E - Must be submitted for a lighting control system; or for an Energy Management Control System (EMCS), to be recognized for compliance.	Pass Fail

P. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE
 Table Instructions: 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 must be completed through an Acceptance Test Technician Certification Provider (ATTCP). For more information visit: <http://www.energy.ca.gov/title24/attcp/providers.html>

YES	NO	Form/Title	Field Inspector
<input checked="" type="radio"/>	<input type="radio"/>	NRCA-LTO-02-A - Must be submitted for all outdoor lighting controls except for alterations where controls area added to ≤ 20 luminaires.	Pass Fail

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

STATE OF CALIFORNIA
Outdoor Lighting
 NRCC-LTO-E (Created 11/19) CALIFORNIA ENERGY COMMISSION NRCC-LTO-E

CERTIFICATE OF COMPLIANCE
 Project Name: WEST BOULEVARD HOUSING Report Page: Page 6 of 6
 Project Address: 2853 WEST BLVD LOS ANGELES, CA 90016 Date Prepared: 04/26/2022

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

Documentation Author Name: GABRIEL TUASON
 Documentation Author Signature: *G. Tuason*
 Company: NATIONAL ENGINEERING & CONSULTING, INC
 Signature Date: 04/26/2022
 Address: 30 THOMAS
 City/State/Zip: IRVINE, CALIFORNIA 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:

- 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: REGINO C LAVARIAS
 Responsible Designer Signature: *R. Lavarias*
 Company: NATIONAL ENGINEERING & CONSULTING, INC
 Date Signed: 04/26/2022
 Address: 30 THOMAS
 City/State/Zip: IRVINE, CALIFORNIA 92618
 Phone: 949.716.9990

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

STATE OF CALIFORNIA
Outdoor Lighting
 NRCC-LTO-E (Created 11/19) CALIFORNIA ENERGY COMMISSION NRCC-LTO-E

CERTIFICATE OF COMPLIANCE
 Project Name: WEST BOULEVARD HOUSING Report Page: Page 1 of 6
 Project Address: 2853 WEST BLVD LOS ANGELES, CA 90016 Date Prepared: 04/26/2022

A. GENERAL INFORMATION

01 Project Location (city) LOS ANGELES 04 Total Illuminated Hardscape Area (ft²) 2,259
 02 Climate Zone 8
 03 Outdoor Lighting Zone per Title 24, Part 1 §10.1.1.4 or as designated by Authority Having Jurisdiction (AHJ):
 LZ-0: Very Low - Undeveloped Parkland LZ-2: Moderate - Rural Areas LZ-4: High - Must be reviewed by CA Energy Commission for Approval
 LZ-1: Low - Developed Parkland LZ-3: Moderately High - Urban Areas

B. PROJECT SCOPE
 Table Instructions: Include any outdoor lighting systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in §140.7 or §141.0(b)2 for alterations.
 My project consists of:

01	02
<input checked="" type="checkbox"/> New Lighting System	Must Comply with Allowances from §140.7.
<input type="checkbox"/> Altered Lighting System	Is your alteration increasing the connected lighting load (Watts)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

% of Existing Luminaires Being Altered: 0
 Sum Total of Luminaires Being Added or Altered: 456.4
 Calculation Method: 05
 FOOTNOTES: % of Existing Luminaires Being Altered = (Sum Total of Luminaires Being Added or Altered / Existing Luminaires within the Scope of the Permit Application) x 100

C. COMPLIANCE RESULTS
 Table Instructions: If any cell on this table says "DOES NOT COMPLY" or "COMPLIES with Exceptional Conditions" refer to Table D. for guidance.

Calculation of Total Allowed Lighting Power (Watts) §140.7 or §141.0(b)2						Compliance Results		
01 General Hardscape Allowance §140.7(d)1	02 Per Application §140.7(d)2	03 Sales Frontage §140.7(d)2	04 Ornamental §140.7(d)2	05 Per Specific Area §140.7(d)2	06 Existing Power §141.0(b)2	07 Total Allowed (Watts)	08 Total Actual (Watts)	09 07 Must be ≥ 08
(See Table I)	(See Table J)	(See Table K)	(See Table L)	(See Table M)	(See Table N)	655.77	456.4	COMPLIES
Cutoff Compliance (See Table G for Details)						Not Applicable		
Controls Compliance (See Table H for Details)						COMPLIES with Exceptional Conditions		

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

STATE OF CALIFORNIA
Outdoor Lighting
 NRCC-LTO-E (Created 11/19) CALIFORNIA ENERGY COMMISSION NRCC-LTO-E

CERTIFICATE OF COMPLIANCE
 Project Name: WEST BOULEVARD HOUSING Report Page: Page 2 of 6
 Project Address: 2853 WEST BLVD LOS ANGELES, CA 90016 Date Prepared: 04/26/2022

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

Table H. Outdoor Lighting Controls Permit Applicant Notes:
 ROOF DECK: EXEMPT FROM MOTION SENSORS BECAUSE LIGHT FIXTURES ALL ARE RATED LESS THAN 40 WATTS
 WALKWAY ENTRY: EXEMPT FROM MOTION SENSORS BECAUSE LIGHT FIXTURES ALL ARE RATED LESS THAN 40 WATTS
 6TH FLR ELEVATOR LOBBY: EXEMPT FROM MOTION SENSORS BECAUSE LIGHT FIXTURES ALL ARE RATED LESS THAN 40 WATTS
 GARAGE ENTRY: EXEMPT FROM MOTION SENSORS BECAUSE LIGHT FIXTURES ALL ARE RATED LESS THAN 40 WATTS
 Total Hardscape Area in Table A does not match the areas entered in Table I. Please review for compliance.

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

F. OUTDOOR LIGHTING FIXTURE SCHEDULE
 Table Instructions: For new or altered lighting systems demonstrating compliance with §140.7 (ie Table I has expanded for input), include all luminaires being installed and any existing luminaires remaining or being moved within the spaces covered by the permit application in the Table below. For altered lighting systems using the Existing Power method per §141.0(b)2, (ie Table N has expanded for input), include only new luminaires being installed and replacement luminaires being installed as part of the project scope (ie, do not include existing luminaires remaining or existing luminaires being moved).

01 Name or Item Tag	02 Complete Luminaire Description	03 Watts per luminaire ^{1,2}	04 How Wattage is determined	05 Total number luminaires ²	06 Luminaire Status ³	07 Excluded per §140.7(a)	08 Design Watts	09 Cutoff Req. ≥ 6,200 initial lumen output §130.2(b)4	10 Field Inspector
LS-1	OUTDOOR STEP LIGHT	12.2	Mfr. Spec ¹	29	New		353.8	NA: <6,200 lumens	Pass Fail
LR-2	LED DOWNLIGHT	14	Mfr. Spec ¹	28	New		28	NA: <6,200 lumens	Pass Fail
LS-2	LED BOLLARD	12.3	Mfr. Spec ¹	2	New		24.6	NA: <6,200 lumens	Pass Fail
LR-3/1/R	LED ADJUSTABLE GIM	10	Mfr. Spec ¹	5	New		50	NA: <6,200 lumens	Pass Fail
							456.4		Pass Fail

* NOTES: Selections with a * require a note in the space below explaining how compliance is achieved.
 EX: Luminaire is lighting a statue; EXCEPTION 2 to §130.2(b).
 Table Continued

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

STATE OF CALIFORNIA
Outdoor Lighting
 NRCC-LTO-E (Created 11/19) CALIFORNIA ENERGY COMMISSION NRCC-LTO-E

CERTIFICATE OF COMPLIANCE
 Project Name: WEST BOULEVARD HOUSING Report Page: Page 3 of 6
 Project Address: 2853 WEST BLVD LOS ANGELES, CA 90016 Date Prepared: 04/26/2022

01 Name or Item Tag	02 Complete Luminaire Description	03 Watts per luminaire ^{1,2}	04 How Wattage is determined	05 Total number luminaires ²	06 Luminaire Status ³	07 Excluded per §140.7(a)	08 Design Watts	09 Cutoff Req. ≥ 6,200 initial lumen output §130.2(b)4	10 Field Inspector
									Pass Fail

FOOTNOTES: Authority Having Jurisdiction may ask for Luminaire cut sheets to confirm wattage used for compliance per §130.0(c)
¹ For linear luminaires, wattage should be indicated as W/ft instead of Watts/luminaire. Total linear feet for the luminaire should be indicated in column 05 instead of number of luminaires.
² Select "New" for new luminaires in a new outdoor lighting project or for added luminaires in an alteration. Select "Altered" for replacement luminaires in an alteration. Select "Existing to Remain" for existing luminaires within the project scope that are not being altered and are remaining. Select "Existing Reinstalled" for existing luminaires which are being removed and reinstalled as part of the project scope.
³ Compliance with mandatory cutoff requirements is required for luminaires with initial lumen output ≥ 6,200 unless exempted by §130.2(b).

G. CUTOFF REQUIREMENTS (BUG)
 This Section Does Not Apply

H. OUTDOOR LIGHTING CONTROLS
 Table Instructions: Complete this table demonstrating compliance with controls requirements for all new or altered luminaires installed as part of the permit application. For alteration projects, luminaires which are existing to remain (ie untouched) and luminaires which are removed and reinstalled (wiring only) do not need to be included in this table even if they are within the spaces covered by the permit application.
 When an option having a * is selected, the notes section of this table must be completed. The lighting controls section of the Compliance Summary Table on the first page will show "DOES NOT COMPLY" if the notes are left blank. For each requirement in columns 02 through 04, do not leave the field blank, instead select NA or Exempt* from the dropdown list to indicate not applicable or an exemption.

01 Area Description	02 Shut-Off §130.2(c)1	03 Auto-Schedule §130.2(c)2	04 Motion Sensor §130.2(c)3	05 Field Inspector
ROOF DECK	Photocontrol	Yes	Exempt*	Pass Fail
WALKWAY ENTRY	Photocontrol	Yes	Exempt*	Pass Fail
6TH FLR ELEVATOR LOBBY	Photocontrol	Yes	Exempt*	Pass Fail
GARAGE ENTRY	Photocontrol	Yes	Exempt*	Pass Fail

*NOTES: Controls with a * require a note in the space below explaining how compliance is achieved.
 EX: Not permitted by health & safety to be turned off; EXCEPTION 1 to §130.2(c).
 Table Continued

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

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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: 2/27/2024 4:02:19 PM

SHEET TITLE:
OUTDOOR LTG TITLE 24 COMPLIANCE CERTIFICATES

SHEET NO:
E803



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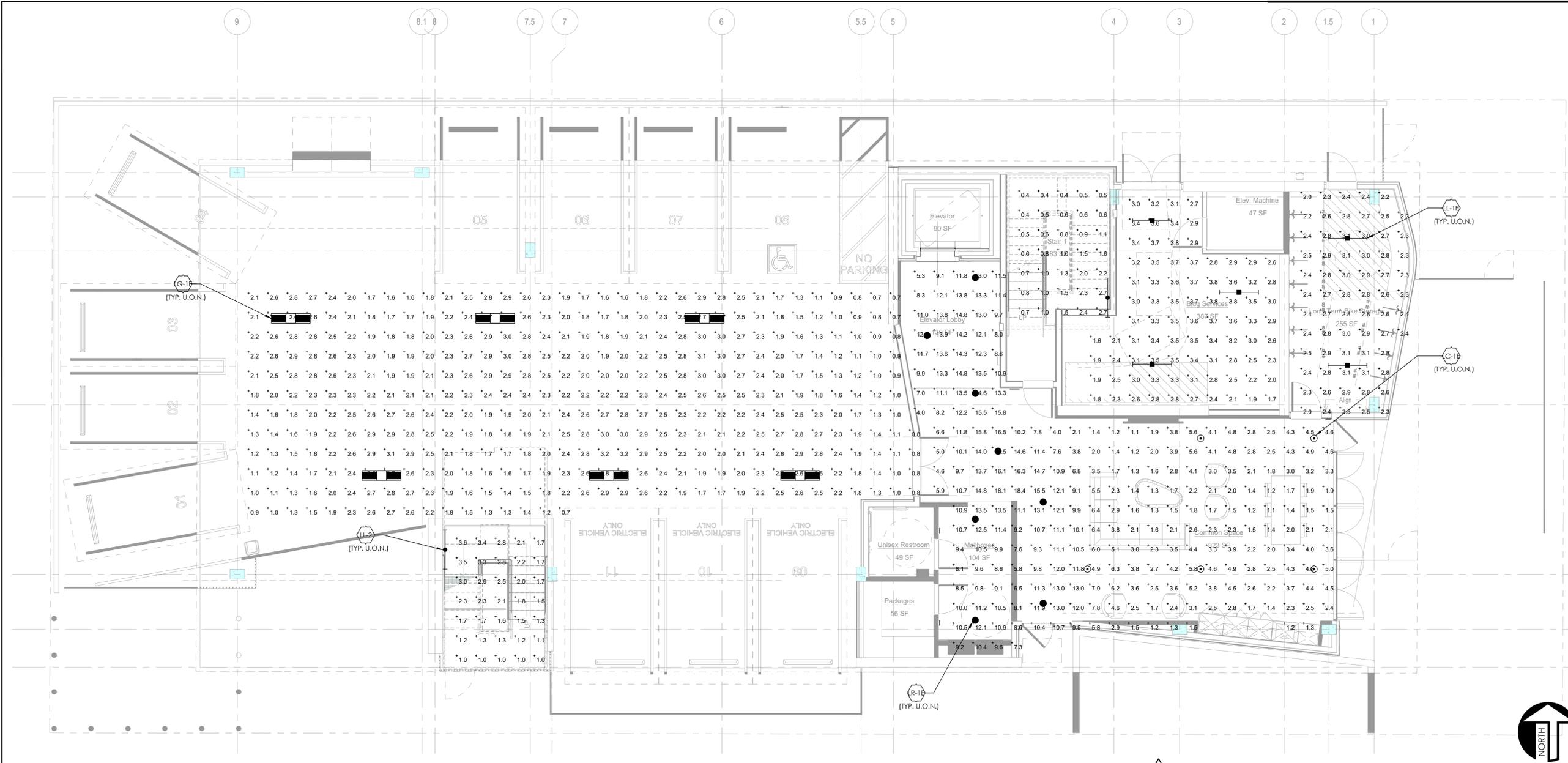
PROJECT:
2853 WEST BLVD
LOS ANGELES, CA 90016

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△	PC RESUBMITTAL	07/10/23
△	PC RESUBMITTAL	02/27/24

Plot Date: 2/27/2024 3:55:29 PM

SHEET TITLE:
**LEVEL 1
EMERGENCY
PHOTOMETRICS**

SHEET NO:
E901



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

PLAN NOTES

- A. THIS LIGHTING CALCULATION REPRESENTS ILLUMINATION LEVELS CALCULATED FROM LABORATORY DATA TAKEN UNDER CONTROLLED CONDITIONS IN ACCORDANCE WITH ILLUMINATION ENGINEERING SOCIETY APPROVED METHODS.
- B. PHOTOMETRIC DATA USED IS BASED ON ESTABLISHED IES PROCEDURES AND PUBLISHED LAMP RATINGS USING MANUFACTURER'S MEAN LUMEN VALUES. FIELD PERFORMANCE WILL DEPEND ON ACTUAL LAMP, BALLAST, ELECTRICAL, AND SITE CHARACTERISTICS. CERTAIN ELEMENTS MAY AFFECT THE LAMP & FIXTURE PERFORMANCE. ACTUAL FOOT-CANDLE LEVELS MAY VARY. DUE TO THE ABOVE CONSIDERATIONS, NATIONAL ENGINEERING & CONSULTING, INC CANNOT GUARANTEE THAT ACTUAL LIGHT LEVELS MEASURED IN THE FIELD WILL ACTUALLY MATCH THE INITIAL CALCULATIONS SHOWN ON PLAN.

BIKE STORAGE	BUILDING SERVICES
MAX. 3.1 FC	MAX. 3.8 FC
MIN. 2.0 FC	MIN. 1.6 FC
AVG. 2.6 FC	AVG. 3.0 FC
MAX./MIN. 1.6:1 FC	MAX./MIN. 2.4:1 FC
AVG./MIN. 1.3:1 FC	AVG./MIN. 1.9:1 FC

LOUNGE AREA	PARKING GARAGE
MAX. 18.4 FC	MAX. 3.2 FC
MIN. 1.1 FC	MIN. 0.7 FC
AVG. 6.2 FC	AVG. 3.0 FC
MAX./MIN. 16.7:1 FC	MAX./MIN. 4.6:1 FC
AVG./MIN. 6.2:1 FC	AVG./MIN. 3.0:1 FC

STAIRS #1	STAIRS #2
MAX. 2.7 FC	MAX. 3.6 FC
MIN. 0.4 FC	MIN. 1.0 FC
AVG. 1.1 FC	AVG. 1.9 FC
MAX./MIN. 6.8:1 FC	MAX./MIN. 3.6:1 FC
AVG./MIN. 2.8:1 FC	AVG./MIN. 1.9:1 FC



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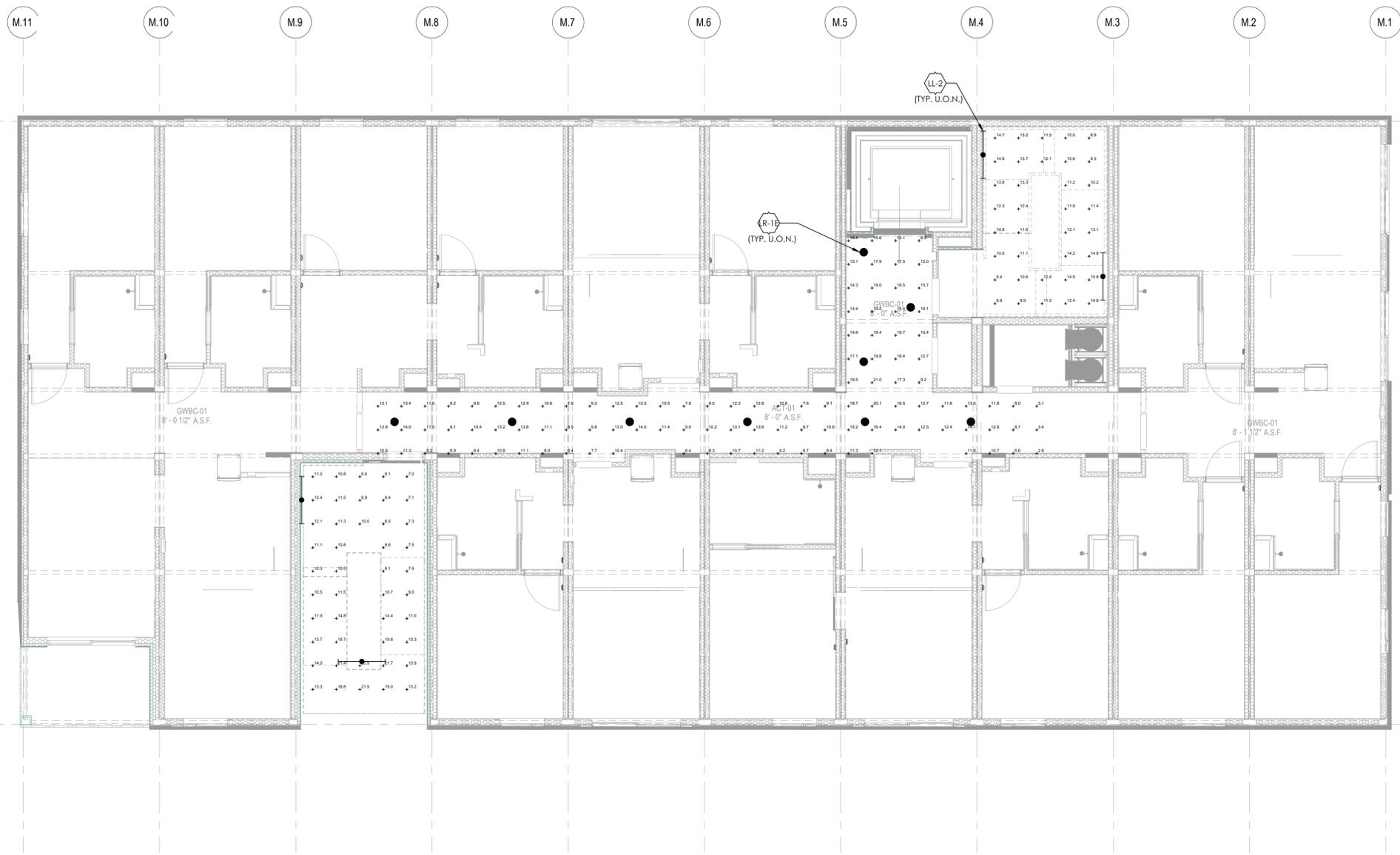
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LOS ANGELES, CA 90015

PROJECT:

2853 WEST BLVD
LOS ANGELES, CA 90016



RESIDENTIAL FLOORS 2-4 EMERGENCY PHOTOMETRICS PLAN

SCALE
3/16" = 1'-0"

1

PLAN NOTES

- A. THIS LIGHTING CALCULATION REPRESENTS ILLUMINATION LEVELS CALCULATED FROM LABORATORY DATA TAKEN UNDER CONTROLLED CONDITIONS IN ACCORDANCE WITH ILLUMINATION ENGINEERING SOCIETY APPROVED METHODS.
- B. PHOTOMETRIC DATA USED IS BASED ON ESTABLISHED IES PROCEDURES AND PUBLISHED LAMP RATINGS USING MANUFACTURER'S MEAN LUMEN VALUES. FIELD PERFORMANCE WILL DEPEND ON ACTUAL LAMP, BALLAST, ELECTRICAL, AND SITE CHARACTERISTICS. CERTAIN ELEMENTS MAY AFFECT THE LAMP & FIXTURE PERFORMANCE. ACTUAL FOOT-CANDLE LEVELS MAY VARY. DUE TO THE ABOVE CONSIDERATIONS, NATIONAL ENGINEERING & CONSULTING, INC CANNOT GUARANTY THAT ACTUAL LIGHT LEVELS MEASURED IN THE FIELD WILL ACTUALLY MATCH THE INITIAL CALCULATIONS SHOWN ON PLAN.

CORRIDOR/ELEVATOR LOBBY		STAIRS 1	
MAX.	21.8 FC	MAX.	15.8 FC
MIN.	1.0 FC	MIN.	8.8 FC
AVG.	12.6 FC	AVG.	12.1 FC
MAX./MIN.	21.8:1	MAX./MIN.	1.8:1
AVG./MIN.	12.6:1	AVG./MIN.	1.4:1
STAIRS 2			
MAX.	25.9 FC		
MIN.	7.0 FC		
AVG.	12.5 FC		
MAX./MIN.	3.7:1		
AVG./MIN.	1.8:1		

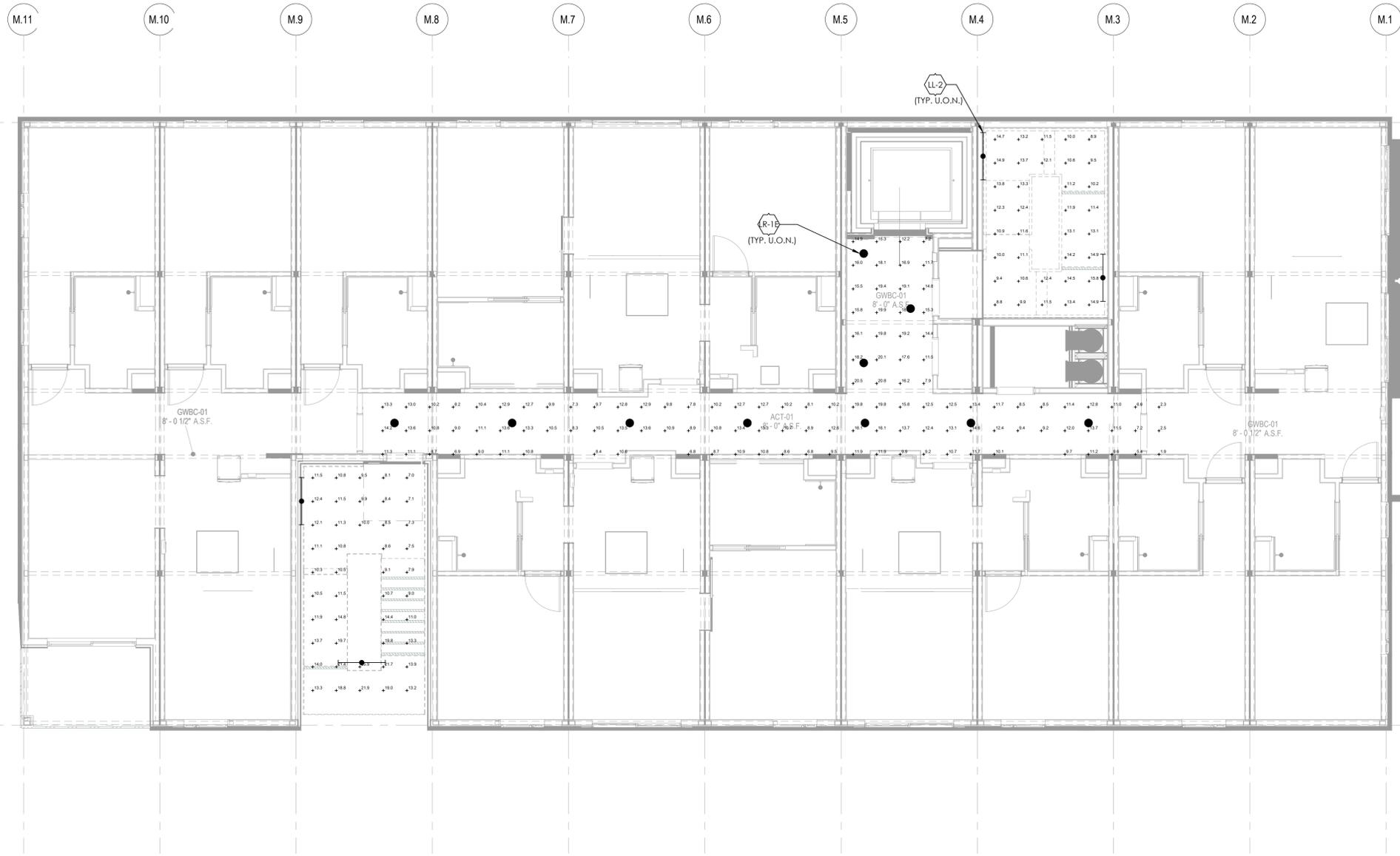
C-JAIME-001		
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△	HCD RESUBMITTAL	06/14/23
△	PC RESUBMITTAL	07/10/23
△	PC RESUBMITTAL	02/27/24

Plot Date: 2/27/2024 4:12:01 PM

SHEET TITLE:
**RESIDENTIAL FLOORS
2-4 EMERGENCY
PHOTOMETRICS**

SHEET NO:

E902



RESIDENTIAL FLOORS EMERGENCY PHOTOMETRICS PLAN SCALE: 3/16" = 1'-0" 1

PLAN NOTES

A. THIS LIGHTING CALCULATION REPRESENTS ILLUMINATION LEVELS CALCULATED FROM LABORATORY DATA TAKEN UNDER CONTROLLED CONDITIONS IN ACCORDANCE WITH ILLUMINATION ENGINEERING SOCIETY APPROVED METHODS.

B. PHOTOMETRIC DATA USED IS BASED ON ESTABLISHED IES PROCEDURES AND PUBLISHED LAMP RATINGS USING MANUFACTURER'S MEAN LUMEN VALUES. FIELD PERFORMANCE WILL DEPEND ON ACTUAL LAMP, BALLAST, ELECTRICAL, AND SITE CHARACTERISTICS. CERTAIN ELEMENTS MAY AFFECT THE LAMP & FIXTURE PERFORMANCE. ACTUAL FOOT-CANDLE LEVELS MAY VARY. DUE TO THE ABOVE CONSIDERATIONS, NATIONAL ENGINEERING & CONSULTING, INC CANNOT GUARANTY THAT ACTUAL LIGHT LEVELS MEASURED IN THE FIELD WILL ACTUALLY MATCH THE INITIAL CALCULATIONS SHOWN ON PLAN.

CORRIDOR/ELEVATOR LOBBY		STAIRS 1	
MAX.	20.8 FC	MAX.	15.8 FC
MIN.	1.9 FC	MIN.	8.8 FC
AVG.	11.9 FC	AVG.	12.1 FC
MAX./MIN.	10.9:1	MAX./MIN.	1.8:1
AVG./MIN.	6.3:1	AVG./MIN.	1.4:1
STAIRS 2			
MAX.	25.9 FC		
MIN.	7.0 FC		
AVG.	12.7 FC		
MAX./MIN.	3.7:1		
AVG./MIN.	1.8:1		



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△	PC RESUBMITTAL	02/27/24

Plot Date: 2/27/2024 4:10:24 PM

SHEET TITLE:
5TH FLOOR EMERGENCY PHOTOMETRICS

SHEET NO:
E903

M.11 M.10 M.9 M.8 M.7 M.6 M.5 M.4 M.3 M.2 M.1



LEVEL 6 EMERGENCY PHOTOMETRICS SCALE 3/16" = 1'-0" 1

PLAN NOTES

A. THIS LIGHTING CALCULATION REPRESENTS ILLUMINATION LEVELS CALCULATED FROM LABORATORY DATA TAKEN UNDER CONTROLLED CONDITIONS IN ACCORDANCE WITH ILLUMINATION ENGINEERING SOCIETY APPROVED METHODS.

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EGRESS PATH OF TRAVEL		NORTH STAIRS	
MAX.	10.8 FC	MAX.	18.0 FC
MIN.	2.2 FC	MIN.	1.0 FC
AVG.	10.8 FC	AVG.	2.9 FC
MAX./MIN.	21.0:1 FC	MAX./MIN.	18.0:1 FC
AVG./MIN.	4.9:1 FC	AVG./MIN.	2.9:1 FC
SOUTH STAIRS			
MAX.	20.0 FC		
MIN.	1.0 FC		
AVG.	8.1 FC		
MAX./MIN.	20.0:1 FC		
AVG./MIN.	8.1:1 FC		



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C-JAIME-001

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△	HCD RESUBMITTAL	06/14/23
△	PC RESUBMITTAL	07/10/23
△	PC RESUBMITTAL	02/27/24

Plot Date: 2/27/2024 4:00:09 PM

SHEET TITLE:
**LEVEL 6
EMERGENCY
PHOTOMETRICS**

SHEET NO:
E904