	EQUIPMENT SYMBOLS	BRANC
	Image: PBEmergency power off station (EPO)PBPULL 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.	— # i
	T TRANSFORMER - SEE PLANS FOR MORE INFORMATION.	
	EQUIPMENT SCHEDULE FOR SIZE.	
	EQUIPMENT SCHEDULE FOR DISCONNECT AND STARTER SIZES.	2
	SURFACE- OR RECESSED-MOUNTED.	J.
	UTILITY COMPANY METER OR EMON/DMON METER WITH "CT's" AND "PT's"	(2)
		LIGHTI
	GROUND - SEE PLANS FOR MORE INFO.	
	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	
	TWO SERVICE DEVICE IN FLOOR BOX. PROVIDE DEVICES PER PLAN.	
	THREE SERVICE DEVICE IN FLOOR BOX. PROVIDE DEVICES PER PLAN.	
Δ	SMOKE & CARBON MONOXIDE	
	DETECTORS	\leftrightarrow O
	SD CEILING MOUNT SMOKE DETECTOR	р Р
		+⊗ ⊗
	ANNOTATIONS	۰ <u>۲</u>
	X PANEL OR EQUIPMENT CALLOUT.	POWE
	EF 2 MECHANICAL EQUIPMENT CALL OUT WHICH INDICATES TYPE OF EQUIPMENT AND UNIT NUMBER. REFER TO MECHANICAL DRAWINGS FOR LOCATION AND ELECTRICAL REQUIREMENTS.	
	EX LIGHTING FIXTURE CALL OUT. REFER TO LIGHTING FIXTURE SCHEDULE FOR MORE INFO.	
	DETAIL REFERENCE CALL OUT.	⊕ _{IG} ISOLATEI ∯ HALF-SW
	I KEY NOTE REFERENCE.	⊕ _{IG} ISOLATEI ∳ DUPLEX
	A REVISION REFERENCE.	
	APPLICABLE CODES & STANDARDS	₩ DUPLEX "X" "X" DENG
	 2019 CALIFORNIA BUILDING CODE WITH STATEWIDE AMENDMENTS 2019 CALIFORNIA ELECTRICAL CODE WITH STATEWIDE AMENDMENTS 	
	2019 CALIFORNIA ENERGY CONSERVATION CODE2019 CALIFORNIA GREEN BUILDING STANDARDS	GFCI DU REFER TO
	 UNDERWRITERS LABORATORIES (UL) 2020 LA CITY ELECTRICAL CODE 	⊕ DOUBLE "X" "X" DENG
		GFCI DC
		DEDICA MOTED.
		2853 WES LOS ANG
	SCOPE OF WORK	
	PROVIDE NEW 1200A ELECTRICAL SERVICE WITH RESIDENTIAL MULTIMETER DISTRIBUTION FOR A NEW SIX-STORY RESIDENTIAL BUILDING. SCOPE INCLUDES POWER AND LIGHTING DESIGN FOR PRE-FABRICATED RESIDENTIAL UNITS BY OTHERS.	
		Electrical
		LEVEL 01: LEVELS 02 STAIRS C
		LEVELS 02

CH CIRCUIT

	CONDUIT CONCEALED WITHIN BUILDING WALLS OR CEILING SPACE.)	DENOTES #12 THHN/THWN ISOLATED GROUND WIRE 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.		∫ DENOTES #12 THHN/THWN EQUIPMENT GROUND WIRE U.O.N. ALL HOMERUNS AND BRANCH CIRCUITS SHALL HAVE GROUND WIRE - U.O.N				
>	HOMERUN TO DESTINATION AS INDICATED. REFER TO CONDUIT SYMBOL ABOVE.		CROSS LINE DENOTES QUANTITY OF #12 THHN/THWN CONDUCTORS - U.O.N				
—— •	INDICATES CONDUIT DROP WITHIN BUILDING WALL. REFER TO CONDUIT SYMBOL ABOVE.		NO CROSS LINE DENOTES 2#12 & 1#12G THHN/THWN CONDUCTORS - U.O.N				
—0	INDICATES CONDUIT RISER WITHIN BUILDING WALL. REFER TO CONDUIT SYMBOL ABOVE.	J	CONDUIT SHALL BE 1/2" MIN U.O.N				
]	CONDUIT STUB OUT, CAP AND MARK						
ζ	CONTINUATION						
٩	FLEXIBLE CONNECTION						
₃ > — — —	LOW-VOLTAGE WIRING BETWEEN OCCUPANCY SENSORS						

ING SYMBOLS

	RECESSED-MOUNTED LIGHTING FIXTURE.		Ю	WALL-MOUNTED DIMMER AT +48" A.F.F. (MAX). SEE SWITCH SYMBOL FOR SUBSCRIPTS.
	EMERGENCY RECESSED-MOUNTED LIGHTING FIXTURE.	(©	» ô	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.		Ŷ	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.		Q	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.		<u>Г</u>	WALL-MOUNTED LOW-VOLTAGE LOCAL SWITCH AT +48" A.F.F. (MAX.) LOWER CASE TEXT (a,b) - DEN TWO SWITCHES AND THEIR RESPECTIVE CONTROL IDENTIFICATION. COMPATIBLE WITH WATTSTOPPER OCCUPANCY SENSORS EQUAL TO WATTSTOPPER #DCC2.
	HARD-LID CEILING EMERGENCY RECESSED-MOUNTED FIXTURE WITH JUNCTION/OUTLET BOX.		©	SWITCHING PHOTOSENSOR WITH SWITCHPACK AND OUTLET BOX. LOWER CASE TEXT ("X") REPRESENT CONTROLLED SWITCHLEG/FIXTURE.
	SURFACE/PENDANT-MOUNTED STRIP LIGHTING FIXTURE. EMERGENCY SURFACE/PENDANT-MOUNTED STRIP FIXTURE.	Λ	TS	WALL-MOUNTED TIME SWITCH AT +48" A.F.F. (MAX.) EQUAL TO WATTSTOPPER #TS-400 OR TS-400-24 (LOW-VOLTAGE). REFER TO PLANS FOR VOLTAGE USE.
)	RECESSED-MOUNTED DOWNLIGHT FIXTURE.	<u>/10</u>	VS T	WALL-MOUNTED VACANCY SENSOR AT +48" A.F.F. (MAX.) WITH DUAL-RELAY UNLESS SHOWN OTHERWISE ON PLANS.
	EMERGENCY RECESSED-MOUNTED DOWNLIGHT FIXTURE SCHEDULE.		V3 ^D	WALL-MOUNTED VACANCY SENSOR WITH DIMMING AT +48" A.F.F. (MAX.) WITH DUAL-RELAY UNLESS SHOWN OTHERWISE ON PLANS.
\gg	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.			

R SYMBOLS

PLEX RECEPTACLE FLUSH IN CEILING.	

- E DUPLEX RECEPTACLE FLUSH IN CEILING.
- ED GROUND DUPLEX RECEPTACLE FLUSH IN CEILING. WITCHED DUPLEX RECEPTACLE FLUSH IN CEILING.
- ED GROUND DOUBLE DUPLEX FLUSH IN CEILING.
- X RECEPTACLE 20A DEDICATED FLUSH IN CEILING.
- RECEPTACLE FLUSH IN CEILING.
- L RECEPTACLE FLUSH IN CEILING.
- X RECEPTACLE, WALL MOUNTED AT +18" A.F.F. OR AS NOTED. NOTES MOUNTING HEIGHT IF HIGHER THAN +18 A.F.F.
- DUPLEX RECEPTACLE WALL MOUNTED AT +18" A.F.F. OR AS NOTED. "WP" ATES WEATHERPROOF. SEE PLANS FOR SPECIFIC TYPE OF WEATHERPROOF BOX COVER PLATE. "X" DENOTES MOUNTING HEIGHT IF HIGHER THAN +18 A.F.F.

POLE MOUNTED LIGHTING FIXTURE. SEE LIGHTING FIXTURE SCHEDULE FOR MORE INFO.

- DUPLEX RECEPTACLE WALL MOUNTED AT +6" ABOVE COUNTER OR SINK. TO ARCHITECTURAL ELEVATION FOR ADDITIONAL INFORMATION.
- E DUPLEX RECEPTACLE, WALL MOUNTED AT +18" A.F.F. OR AS NOTED. NOTES MOUNTING HEIGHT IF HIGHER THAN +18 A.F.F.
- DOUBLE DUPLEX RECEPTACLE, WALL MOUNTED AT 18 A.F.F. ON AS INCIDE. ATES WEATHERPROOF. SEE PLANS FOR SPECIFIC TYPE OF WEATHERPROOF BOX
- ATED 20A, DOUBLE DUPLEX RECEPTACLE, WALL MOUNTED AT +18" A.F.F. OR AS
- "X" DENOTES MOUNTING HEIGHT IF HIGHER THAN +18 A.F.F.
- ED GROUND DUPLEX RECEPTACLE WALL MOUNTED AT +18" A.F.F. OR AS NOTED. NOTES MOUNTING HEIGHT IF HIGHER THAN +18 A.F.F.

- $\bigoplus_{X''}$ 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.
- PDEDICATED 20A, DUPLEX RECEPTACLE, WALL MOUNTED AT +18" A.F.F. OR AS NOTED."X""X" DENOTES MOUNTING HEIGHT IF HIGHER THAN +18 A.F.F.
- SIMPLEX RECEPTACLE, WALL MOUNTED AT +18" A.F.F. OR AS NOTED.
- SPECIAL RECEPTACLE, WALL MOUNTED AT +18" A.F.F. OR AS NOTED. REFER TO
- JUNCTION BOX 4"SQUARE x 2-1/8" DEEP MIN., MOUNTED IN ACCESSIBLE CEILING. SEE PLANS FOR SPECIFIC APPLICATION.
- \bigcirc JUNCTION BOX MOUNTED IN ACCESSIBLE CEILING SPACE FOR PREWIRED FURNITURE SYSTEM WITH FLEX CONNECTION.
- JUNCTION BOX WALL MOUNTED AT +18" A.F.F. FOR PREWIRED FURNITURE SYSTEM WITH FLEX CONNECTION.
- THERMOSTAT JUNCTION BOX WITH 1/2"C.O. TO ASSOCIATED HVAC UNIT.

$\sqrt{5}$ IEATION OF WORK

VOLUMETRIC MODULAR MULTI-FAMILY HOUSING

WEST	BĽ	VD.	
	FC	~	000

AN	GEL	ES,	CA	900	13

ANGELES, CA 90013							REVIEWER:	
LOCAL AUTHORITY HAVING JURISDICTION (LAHJ)						CITY OF LOS ANGELES DEPT. OF BUILDING & SAFETY (LADBS		
	STATE OF CALIFORNIA HOUSING &	COMMUNI	TY DEVELC	OPMENT (H	CD) DESIGI	N APPROV	ALAGENCY	NTA
	LOCAL FIRE DEPARTMENT							CITY OF LOS ANGELES FIRE DEPARTMENT (LAFD)
SCOPE SECTION/DESCRIPTION		PLAN REVIEW INSPECTION		APPLICABLE CODES				
		HCD	LAHJ	LAFD	HCD	LAHJ	LAFD	
rical								
L 01: ALL WORK (SITE BUILT), ELEVATOR, GENERATOR			Х			X		
LS 02-06: CORRIDORS, ELEVATOR LOBBY, TRASH RECYCLE ROOM			Y			v		
RS, CONCRETE CORES (SITE BUILT)			^			^		
LS 02-06: RESIDENTIAL UNITS (MODULAR)					Х			

ABBREVIATIONS

	А	AMPERE	К	KELVIN
	ADA	AMERICAN WITH DISABILITIES ACT	KCMIL KWH	THOUSAND CIRCULAR MILS KILOWATT HOUR
	A.F.F.	ABOVE FINISH FLOOR	KW	KILOWATT
	A.F.G.	ABOVE FINISH GRADE	KVA	KILOVOLT AMPERES
	AWG	AMERICAN WIRE GAUGE	LCL	LONG CONTINUOUS LOAD
	A.I.C.	AMPERES INTERRUPTING	LTG	LIGHTING
^		CAPACITY	LPS	LOW PRESSURE SODIUM
<u>_5</u>	A.F.C.	AVAILABLE FAULT CURRENT	M	METER
	A.F.C.I.	ARC-FAULT	MAX.	MAXIMUM
	A E / A T		MCA	
	AF/AI		MCB	
	AS/AF		MER	
	C		MH.	MFTAL HALIDE
	CEC	CALIFORNIA ELECTRICAL CODE	MIN.	MINIMUM
	CKT.	CIRCUIT	MLO	MAIN LUGS ONLY
	CONN	CONNECTED	MOCP	MAXIMUM OVER-CURRENT
	C.O.	CONDUIT ONLY		PROTECTION
	CSFD	COMBINATION SMOKE FIRE	MTD	MOUNTED
	<u></u>	DAMPER	NEC	NATIONAL ELECTRICAL CODE
	CT		NEMA	
	(D)		NE	
			NI	NIGHT LIGHT
	DISC	DISTRIBUTION	NO. or #	NUMBER
	E.C.	ELECTRICAL CONTRACTOR	N.T.S.	NOT TO SCALE
	EMT	ELECTRICAL METALLIC TUBING	Р	POLE
	EWC	ELECTRIC WATER COOLER	PC	PHOTOCELL
	E.G.	EQUIPMENT GROUND	PDU	POWER DISTRIBUTION PANEL
	(E)	EXISTING	PH. or Ø	PHASE
	FT or '	FOOT OR FEET	PI	
	FA		PVC SED	
	FLA		SC	SMORE FIRE DAMPER
	GLC		IC	
	GFP	GROUND FAULT PROTECTION	TEL/DATA	TELEPHONE AND DATA
	GFCI	GROUND FAULT CIRCUIT	ΤV	TELEVISION
		INTERRUPTER	T.VS.	TRANSIENT VOLTAGE SURGE
	GND	GROUND		SUPPRESSION
	HOA	HAND-OFF-AUTO	TYP	TYPICAL
	HACR	HEATING AIR CONDITIONING	U.V.P.S.	UNDERGROUND PULL SECTION
ER		REFRIGERATION	U.O.N.	UNLESS OTHERWISE NOTED
	HID		U.P.S.	
	НРЗ ЦР		V	
NTS	IN or "		VA	
	I.G.	ISOLATED GROUND	VD	VOLTAGE DROP
	IDF	INTERMEDIATE DISTRIBUTION	W	WIRE
		FRAME	WP	WEATHERPROOF
	JBOX	JUNCTION BOX	W	WIRE
			XRFR/	TRANSFORMER

	IRANS-
TELE	PHONE/DATA & SIGNAL SYMB
۲ "X"	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.
⊲ _{"X"}	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.
∀ "X"	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.
\triangleleft	FLUSH-MOUNTED DATA OUTLET BOX IN CEILING.
\triangleleft	FLUSH-MOUNTED COMBINATION TELEPHONE AND DATA OUTLET BOX IN CEILING
T1	TELEPHONE/DATA CONDUIT RUN WITH 3/4"C MIN.
—T2—	TELEPHONE/DATA CONDUIT RUN WITH 1"C MIN.
—T3—	TELEPHONE/DATA CONDUIT RUN WITH 1-1/4"C MIN.
——T4——	TELEPHONE/DATA CONDUIT RUN WITH 1-1/2"C MIN.
—— T5——	TELEPHONE/DATA CONDUIT RUN WITH 2"C MIN.
H De	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.
D-O-	COMBINATION TELEPHONE AND DATA BOX MOUNTED IN ACCESSIBLE CEILING SPACE FOR CONNECTION TO FURNITURE SYSTEM.
<u></u>	TELEPHONE TERMINAL BACKBOARD SIZED AS INDICATED.
H™	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.
TV	CEILING-MOUNTED TV OUTLET.
Þ	CCTV CAMERA. SEE SPECIFICATIONS FOR MORE INFO.





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D. 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				
Λ	PC RESUBMITTAL	05/18/22				
Δ	PC RESUBMITTAL	10/28/22				
$\overline{\mathbb{A}}$	HCD REVISION 1	12/16/22				
	PC RESUBMITTAL	02/02/23				
$\overline{\underline{5}}$	HCD & PC RESUBMITTAL	06/06/23				
$\underline{\land}$	hcd resubmittal	06/14/23				
$\underline{\mathbb{A}}$	PC RESUBMITTAL	07/10/23				
$\underline{\mathbb{A}}$	CLIENT REVISIONS	07/11/23				
$\boxed{\land}$	CLIENT REVISIONS	08/04/23				
$\overline{\mathbb{A}}$	PC RESUBMITTAL (ELEC)	09/12/23				
$\overline{\mathbb{A}}$	PC RESUBMITTAL (ELEC)	10/05/23				
Λ	CLIENT REVISIONS	10/12/23				
Plot Date: 10/11/2023 4:03:3						

SHEET TITLE:

ELECTRICAL GENERAL INFORMATION

Sheet no:

SECTION 26 00 00 - ELECTRICAL REQUIREMENTS

- PART 1 GENERAL
- 1.1 RELATED DOCUMENTS
- A. DRAWINGS AND GENERAL PROVISIONS OF CONTRACT, INCLUDING GENERAL AND SUPPLEMENTARY CONDITIONS AND DIVISION-1 SPECIFICATION SECTIONS, APPLY TO WORK OF THIS SECTION.
- 1.2 SCOPE:
- A. PROVIDE ALL ELECTRICAL WORK FOR A COMPLETE AND OPERABLE SYSTEM AS SHOWN ON THE DRAWINGS AND AS SPECIFIED IN THIS SECTION,
- INCLUDING BUT NOT LIMITED TO THE FOLLOWING
- 1. SITE INVESTIGATIONS PRIOR TO BIDDING TO ESTABLISH EXISTING
- CONDITIONS.
- 2. SWITCHBOARDS, PANEL BOARDS, DRY TYPE TRANSFORMERS, AND FEEDERS FOR POWER AND LIGHTING AS SHOWN ON THE DRAWINGS.
- COMPLETE GROUNDING SYSTEM AS REQUIRED.
- 4. LIGHTING FIXTURES AND LAMPS, POWER BRANCH CIRCUIT WIRING, INCLUDING DISCONNECT SWITCHES, TIME SWITCHES, CONTACTORS, PHOTOCELL CONTROLS, RELAYS, OUTLETS, DEVICES, PLATES, MATERIALS, ETC., FOR A COMPLETE INSTALLATION AS SHOWN ON THE DRAWINGS.
- 5. A TELECOMUNICATION SYSTEM INCLUDING CONDUITS, BACKBOARDS, TERMINAL CABINETS AND GROUNDING.
- 6. CUTTING AND PATCHING AND SEALING OF PENETRATIONS.
- 7. FLASHING OF CONDUITS AT ROOF PENETRATIONS.
- 8. PROVIDE MATERIALS AND LABOR FOR ELECTRICAL WORK AS SPECIFIED IN OTHER SECTIONS.
- 9. RECORD DRAWINGS.
- 10. TEST OF ALL ELECTRICALLY-OPERATED EQUIPMENT.
- 11. COMPLETE 1-YEAR GUARANTEE OF SYSTEMS, MATERIALS AND
- WORKMANSHIP.
- 12. PAINTING OF EXPOSED CONDUIT OR EQUIPMENT.
- 13. CUTTING AND PATCHING.
- 1.3 QUALITY ASSURANCE
- A. IN ADDITION TO THE REQUIREMENTS OF ALL GOVERNING CODES, ORDINANCES AND AGENCIES, CONFORM TO THE REQUIREMENTS OF THE FOLLOWING GUIDELINES AND STANDARDS:
- 1. INSTITUTE OF ELECTRICAL AND ELECTRONIC ENGINEERS IEEE
- 2. NATIONAL ELECTRICAL MANUFACTURERS' ASSOCIATION NEMA
- 3. UNDERWRITERS' LABORATORIES, INC. UL
- 4. NATIONAL FIRE PROTECTION ASSOCIATION NFPA
- 5. AMERICAN SOCIETY FOR TESTING AND MATERIALS ASTM
- 6. AMERICAN NATIONAL STANDARDS INSTITUTE ANSI
- 7. NATIONAL ELECTRICAL CODE NEC, 2017 EDITION
- 8. NATIONAL ELECTRICAL SAFETY CODE NESC
- 9. INSULATED CABLE ENGINEERS ASSOCIATION ICEA
- 10. AMERICAN INSTITUTE OF STEEL CONSTRUCTION AISC
- 11. OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA)
- 12. ELECTRONICS INDUSTRIES ASSOCIATION/ TELECOMMUNICATIONS INDUSTRY ASSOCIATION (EIA/TIA)
- 13. 2019 CALIFORNIA ELECTRICAL CODE CEC

14. 2019 CALIFORNIA ENERGY CODE

- 1.4 JOB CONDITIONS A. DRAWINGS:
 - 1. THE DRAWINGS ARE DIAGRAMMATIC AND INDICATE THE LOCATIONS OF THE COMPONENTS OF THE WORK, AND FURTHER INDICATE THE REQUIRED SIZE AND POINTS OF TERMINATION OF THE CONDUIT, NUMBER AND SIZE OF WIRES. PROVIDE ALL CONDUIT, WIRE AND NECESSARY CONNECTIONS FOR THE COMPLETE ELECTRICAL SERVICE, COORDINATING CONDUIT RUNS WITH BUILDING STRUCTURE, AND ALL WORK OF OTHER TRADES.
 - 2. UNLESS OTHERWISE APPROVED BY THE ARCHITECT, THE FOLLOWING CONDITIONS SHALL BE ADHERED TO:
 - a. GROUP OUTLETS AND WIRING DEVICES WITHIN CLOSE PROXIMITY HORIZONTALLY OR VERTICALLY FOR A UNIFORM AND NEAT APPEARANCE.
 - b. ALL EQUIPMENT AND MATERIAL LOCATED OUTDOORS OR IN HAZARDOUS OR OTHER SPECIAL AREAS SHALL BE UL LABELED FOR THE CONDITIONS TO BE ENCOUNTERED.
 - c. OUTLETS IN GYPSUM BOARD ARE TO BE SYMMETRICAL WITH RESPECT TO WALLS AND OTHER ARCHITECTURAL FEATURES.
 - d. DO NOT LOCATE PANELBOARDS, CABINETS, OUTLETS OR OTHER
 - APERTURES IN TWO-HOUR RATED WALLS.
 - e. PRIOR TO INSTALLATION, THE OWNER RESERVES THE RIGHT TO RELOCATE ANY OUTLET OR DEVICE WITHIN SIX FEET OF THE LOCATION INDICATED ON THE DRAWINGS AT NO ADDITIONAL COST.

1.5 PERMITS, FEES AND INSPECTIONS

- A. OBTAIN AND PAY FOR ALL PERMITS AND LICENSES REQUIRED FOR THE ELECTRICAL WORK, AND ARRANGE AND SCHEDULE ALL REQUIRED INSPECTIONS. OBTAIN PERMITS PRIOR TO COMMENCING ANY WORK.
- B. PAY ALL FEES OR CHARGES LEVIED BY THE UTILITY COMPANY OR CITY FOR PERMANENT OR TEMPORARY SERVICES TO THE PROJECT OR ANY OTHER IMPOSED FEES.
- 1.6 COORDINATION
- A. VERIFY AND COORDINATE ALL SIZES OF EQUIPMENT TO BE INSTALLED WITH THE MANUFACTURER OF EQUIPMENT, INSURING ADEQUATE CLEARANCES, VENTILATION AND ACCESS.
- B. COORDINATE WORK OF MECHANICAL TRADES WITH WORK REQUIRED AS A PART OF THIS SECTION, AND VERIFY QUANTITY, SIZES AND LOCATION OF ALL WORK.
- C. COORDINATE THE WORK OF ALL OTHER TRADES, VERIFYING ALL REQUIRED CLEARANCES, PROPER SLEEVES, SUPPORTS, DOOR SWINGS AND OTHER ITEMS AFFECTING THIS WORK. DETERMINE IN ADVANCE THE METHODS OF INSTALLING AND CONNECTING ALL EQUIPMENT, OUTLETS AND OTHER ITEMS.
- D. INCLUDE ALLOWANCES FOR SITE CONDITIONS AND CIVIL, ARCHITECTURAL AND OTHER DRAWINGS.
- 1.7 SUBMITTALS
- A. EQUIPMENT ORDER LIST:
- 1. AFTER AWARD OF CONTRACT, DELIVER TO THE ARCHITECT SIX (6) COPIES OF A COMPLETE LIST OF EQUIPMENT AND MATERIALS ORDERED GIVING DESCRIPTION, PLATE NUMBERS, DATE OF ORDERS AND REQUESTED DELIVERY DATES. ARRANGE DELIVERY OF PROPER QUANTITIES SO THAT THE PROGRESS OF THE WORK WILL NOT BE DELAYED.
- B. MATERIAL LIST:
- SUBMIT COMPLETE MATERIAL LIST FOR ALL PRODUCTS TO BE USED IN THIS WORK.

C. RECORD DRAWINGS:

MARK AND DIMENSION ACTUAL ROUTINGS OF ALL UNDERGROUND CONDUITS INSTALLED EXTERIOR TO BUILDINGS AND ALL FEEDERS UNDER BUILDING SLABS. DIMENSION THE TERMINAL LOCATION AND SHOW ITS DEPTH BELOW FINISHED GRADE FOR EACH UNDERGROUND STUB-OUT. PROVIDE OWNER WITH ONE SET REPRODUCIBLE AS-BUILT DRAWINGS UPON COMPLETION OF PROJECT.

1.8 GUARANTEE

A. ALL MATERIALS AND EQUIPMENT FURNISHED AND INSTALLED UNDER THIS SECTION OF THE SPECIFICATIONS SHALL BE GUARANTEED IN WRITING FOR A PERIOD OF ONE (1) YEAR FROM THE DATE OF FINAL ACCEPTANCE OF THE BUILDING AGAINST DEFECTIVE MATERIAL, DESIGN AND WORKMANSHIP. UPON RECEIPT OF NOTICE FROM THE OWNER OF THE FAILURE OF ANY PART OF THE WORK DURING THE GUARANTEE PERIOD, THE AFFECTED WORK SHALL BE REPLACED PROMPTLY WITH NEW WORK BY AND AT THE EXPENSE OF THE CONTRACTOR AND AT NO COST TO THE OWNER.

PART 2 - PRODUCTS

2.1 MATERIALS

- A. EXCEPT WHERE SPECIFICALLY INDICATED OTHERWISE, PROVIDE ONLY NEW MATERIALS HAVING ALL LEGALLY REQUIRED APPROVALS AND/OR LABELS.
- B. PROVIDE MATERIALS COMPLYING WITH THE STANDARDS OF NATIONALLY RECOGNIZED ORGANIZATIONS (SUCH AS ANSI, NEMA AND UL).
- C. PROTECTION: TAKE ALL MEANS NECESSARY TO PROTECT THE MATERIALS BEFORE, DURING, AND AFTER INSTALLATION.
- D. REPLACEMENTS: IN THE EVENT OF DAMAGE, IMMEDIATELY REPAIR DAMAGED OR DEFECTIVE WORK AT NO ADDITIONAL COST TO THE OWNER.

2.2 MAIN SWITCHBOARD

- A. PROVIDE MAIN SWITCHBOARDS CONTAINING SERVICE, METERING, CURRENT TRANSFORMER COMPARTMENT, MAIN DISCONNECT AND DISTRIBUTION SECTION AS INDICATED AND AS REQUIRED.
- B. ENCLOSURES:
- 1. TOTALLY ENCLOSED SECTIONS BOLTED TOGETHER TO FORM A SINGLE FLOOR-STANDING ASSEMBLY, NEMA TYPE 1 FOR GENERAL PURPOSE FOR INDOOR INSTALLATION, AND NEMA 3R GENERAL PURPOSE FOR OUTDOOR INSTALLATION, FRONT ACCESS ONLY UNLESS INDICATED. PROVIDE SERVICE PULL SECTIONS WHERE REQUIRED AND SIZE AS REQUIRED BY THE SERVING UTILITY. SECTIONS 90 IN. HIGH AND ALL OF THE SAME DEPTH WITH REAR WIRE-WAY IN DISTRIBUTION SECITIONS. LEGAL GAUGE SHEET STEEL FINISHED MANUFACTURER'S STANDARD GRAY BAKED ENAMEL. IT IS THE CONTRACTOR'S RESPONSIBILITY TO FURNISH A SWITCHBOARD TO FIT THE SPACE INDICATED.
- 2. PERMANENT PLACARD(S) MARKED PER THE SPECIFICATIONS AND PER NEC (OR CEC-WHERE ADOPTED) SECTIONS 225.37, 230.2(E), 690.56(B) & (C), 692.56, 700.8, 701.9, AND 702.8 DENOTING PRESENCE OF ADDITIONAL SERVICES, PHOTOVOLTAICSYSTEMS, FUEL CELLS, EMERGENCY OR STAND-BY POWER SOURCES AS APPLICABLE.

C. BUSBARS:

- 1. RECTANGULAR CROSS-SECTION, FULL HEIGHT IN-EACH DISTRIBUTION SECTION WITH HORIZONTAL CROSS BUS BARS BETWEEN SECTIONS. SILVER PLATED COPPER OR TIN PLATED ALUMINUM BUSSING, JOINTS AND CONNECTIONS, THROUGHOUT. ALL BUSSING SHALL HAVE MINIMUM WITHSTANDING RATING EQUAL TO THE AVAILABLE FAULT CURRENT INDICATED. ALL HORIZONTAL BUSSING SHALL BE RATED AT FULL CAPACITY IN ALL SWITCHBOARD AND DISTRIBUTION SECTIONS. WHENEVER FUTURE SECTIONS OR SPACE FOR FUTURE EXPANSION IS INDICATED ON THE PLANS, PROVIDE BUSSING AND COVERED OPENING IN SWITCHBOARD AS REQUIRED FOR FUTURE EXPANSION.
- 2. LUGS SUITABLE FOR USE WITH ALUMINUM OR COPPER CONDUCTORS LISTED FOR USE WITH 75° CELSIUS AMPACITY CONDUCTORS.

D. LUGS:

1. LUGS FOR ALL EXTERNAL AND INTERNAL CONNECTIONS, PLATES OR OTHERWISE SHALL BE SUITABLE FOR EITHER COPPER OR ALUMINUM CONDUCTORS LISTED FOR USE WITH 75 DEGREE CELSIUS AMPACITY CONDUCTORS.

E. CIRCUIT BREAKERS:

- CIRCUIT BREAKERS AS INDICATED. SERIES RATED MINIMUM INTERRUPTING CAPACITY SYMMETRICAL RMS AMPERE RATING AS SHOWN ON SINGLE-LINE DIAGRAM.
- a. CIRCUIT BREAKERS: MOLDED CASE, THERMAL MAGNETIC TYPE, PAD LOCKABLE IN THE "OFF" POSITION.
- 2. CIRCUIT BREAKERS FOR SERVICE ENTRANCE EQUIPMENT RATED AT 400 AMPS OR GREATER SHALL BE PROVIDED WITH A SOLID STATE MAIN OVER CURRENT DEVICE AND BUSSING RATED AT 100% OPERATION.

F. FUSED SWITCHES:

1. QUICK-MAKE, QUICK-BREAK, VISIBLE BLADE, HORSEPOWER RATED SPRING PRESSURE FUSE CLIP AND BLADE JAW CONTACTS, PADLOCKABLE IN THE "OFF" POSITION, WITH POSITION-INDICATING OPERATING HANDLES AND DEFEATABLE COVER INTERLOCK TO PREVENT ACCESS TO THE FUSES UNLESS THE SWITCH IS IN THE OPEN POSITION. MINIMUM INTERRUPTING CAPACITY, WITH SPECIFIED FUSES, OF 100,000 SYMMETRICAL RMS AMPERES AT ALL VOLTAGES 600 VOLTS AND BELOW.

G. FUSES:

- 1. CURRENT LIMITING, REJECTION TYPE WITH MINIMUM 100,000 SYMMETRICAL RMS AMPERES INTERRUPTING CAPACITY, BUSS OR EQUAL BY BUSSMAN, UNLESS OTHER CLASS OR TYPE INDICATED. PROVIDE 10% BY VOLUME BUT MINIMUM OF THREE SPARE FUSES FOR EACH SIZE AND TYPE SHOWN ON SINGLE LINE DIAGRAM AND MOUNT IN A SUITABLE CABINET EQUAL TO BUSSMAN SFC SPARE FUSE CABINET, BEHIND A HINGED DOOR WITH NAMEPLATE ENGRAVED "SPARE FUSES". LOCATE CABINET NEAR SWITCHBOARD. CABINETS SHALL HAVE 3 SHELVES MINIMUM WITH CURVED UP EDGES FOR STORAGE OF FUSES.
- H. METERING PROVISIONS:
- 1. SEQUENCE OF METER TO MAIN, PULL SECTION LANDING LUGS, BUS BARS AND PROVISIONS FOR CURRENT TRANSFORMER AS REQUIRED BY SERVING UTILITY.
- I. DISTRIBUTION SECTIONS SHALL BE CONVERTIBLE TYPE WITH FULL LENGTH RECTANGULAR BUSSING AND CROSS BUSSING OF CAPACITY AND POLES AS REQUIRED ON THE DRAWINGS AND BRACED TO WITHSTAND SYMMETRICAL SHORT CIRCUIT CURRENT INICATED ON SINGLE-LINE DIAGRAM.
- J. ENDS OF SWITCHBOARD SHALL BE LOUVERED. EACH SWITCH OR BREAKER SHALL HAVE AN ENGRAVED BAKELITE NAMEPLATE INDICATING EQUIPMENT OR PANEL CONTROLLED. PROVIDE GOULD AMP-TRAP FUSES OR EQUAL BY BUSS OR ECONOMY, OF PROPER SIZE FOR EACH SWITCH. INSTALL WITH REJECTION CLIPS.
- K. SERVICE SWITCHBOARDS SHALL BE AS MANUFACTURED BY, EATON, SIEMENS, G.E., MYERS OR SQUARE D.
- L. USE LEVELING SCREWS TO SET THE SWITCHBOARD PLUMB AND TRUE.
- M. SUBMIT SWITCHBOARD SHOP DRAWINGS TO THE SERVING UTILITY FOR APPROVAL PRIOR TO FABRICATION. SECURE CONFIRMATION THAT THE PROPOSED SWITCHBOARD COMPLIES WITH THE ELECTRICAL UTILITY COMPANY REGULATIONS.
- N. SUBMIT SHOP DRAWINGS PER THE SPECIFICATIONS FOR THE SWITCHBOARDS. DISTRIBUTION BOARDS, TRANSFORMERS, PANEL BOARDS AND ALL OTHER DEVICES AS SHOWN ON THE SINGLE LINE DIAGRAM PRIOR TO FABRICATION. IF SHOP DRAWINGS ARE NOT PART OF THE SUBMISSION DOCUMENTS, ONLY APPROVED DRAWINGS WILL BE ACCEPTED.

- O. CONTRACTOR TO VERIFY EXISTING CONDITIONS INCLUDING SECONDARY FEEDERS FROM UTILITY TRANSFORMER AND ANY OTHER ASSOCIATED EXISTING FEEDERS, IF BEING REUSED, TO ENSURE LENGTH OF FEEDERS IS SUFFICIENT TO LAND IN LUGS OF NEW EQUIPMENT. COORDINATE WITH SERVING UTILITY COMPANY APPROVED METHODS OF EXTENDING FEEDERS AS REQUIRED.
- P. CONDUCT, WITH THE ASSISTANCE OF THE SWITCH GEAR MANUFACTURER OR A QUALIFIED POWER SYSTEM STUDIES ANALYST, AN ELECTRICAL HAZARD ANALYSIS CONSISTING OF AN ARC FLASH STUDY, SHORT CIRCUIT STUDY AND A 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. IN ADDITION:
 - 1. THE STUDY SHALL INCLUDE ALL PORTIONS OF THE ELECTRICAL SINGLE LINE DIAGRAM. NORMAL SYSTEM CONNECTIONS AND THOSE THAT RESULT IN THE MAXIMUM FAULT CONDITION SHALL BE ADEQUATELY COVERED IN THE STUDY. PERFORM THE STUDY WITH THE AID OF A DIGITAL COMPUTER PROGRAM, SKM CAPTOR OR EQUAL. THE STUDY SHALL INCLUDE SELECTIVE COORDINATION SO THAT THE DEVICE CLOSEST TO THE FAULT WILL TRIP BEFORE ANY OF THE UPSTREAM DEVICES TRIPS. THE GROUND FAULT PORTION OF THE STUDY SHALL DEMONSTRATE COORDINATION OF THE MAIN BREAKER AND ANY FEEDER GROUND FAULT DEVICES WITH DOWNSTREAM CIRCUIT BREAKERS, 30A OR LESS.
 - 2. THE CONTRACTOR SHALL BE RESPONSIBLE TO ADJUST SETTINGS OF ALL DEVICES, TO INCLUDE GROUND FAULT SETTINGS, TO ACHIEVE SYSTEM COORNINATION. THE CONTRACTOR SHALL FIELD ADJUST SETTING ACCORDINGLY UTILIZING A QUALIFIED MANUFACTURER'S REPRESENTATIVE.
 - 3. THE CONTRACTOR SHALL SET GROUND FAULT RELAYS TO THE SHORTEST AVAILABLE DELAY DURING THE CONTRACTUCTION PHASE.
 - 4. PERFORM ARC FLASH ANALYSIS STUDY TO DETERMINE THE FLASH BOUNDARY, FLASH HAZARD CATEGORY, PPE REQUIREMENTS, AND MINIMUM ARC RATING (CAL/SQUARE CM). THE ABOVE INFORMATION SHALL BE INDICATED AT EACH ARC FLASH SOURCE ONA NBEC, OR CEC WHERE ADOPTED, COMPLIANT ARC FLASH HAZARD LABEL(S) AS MANUFACTURED BY BRADY.
 - 5. A GROUND FAULT SYSTEM TEST SHALL BE CONDUCTED BY AN INDEPENDENT TESTING AGENCY PER NEC (OR CEC-WHERE ADOPTED) 230.95(C). THE GROUND FAULT SYSTEM TEST SHALL BE PERFORMED IN THE PRESENCE OF THE LOCAL AUTHORITY HAVING JURISDICTION. VERIFICATION OF THE DEVICE SETTINGS PER THE COORDINATION STUDY SHALL BE PERFORMED BY THE SAME INDEPENDENT TESTING AGENCY. THE GROUND FAULT TEST RESULTS SHALL BE DELIVERED TO THE ENGINEER OF RECORDS.
 - 6. RESULT OF THE COORDINATION STUDY SHALL BE SUBMITTED AS PART OF THE OVERALL SWITCH GEAR SUBMITTAL AND SHALL INCLUDE PROTECTIVE DEVICE TIME VERSUS CURRENT COORDINATION CURVES, GROUPING APPROPRIATE DEVICES TOGETHER, TABULATIONS OF RELAY AND CIRCUIT BREAKER TRIP SETTINGS, FUSE ELECTION, AND COMMENTARY REGARDING SAME
- 2.3 PANEL BOARDS
- A. PROVIDE PANEL BOARDS WITH RATINGS, COMPONENTS AND FEATURES IN ACCORDANCE WITH THE SINGLE-LINE DIAGRAM AND PANEL SCHEDULES ON DRAWINGS.

B. ENCLOSURES:

- 1. WITH BARRIERED TOP OR SIDE SECTION HAVING SEPARATE HINGED LOCKABLE DOOR WHERE INDICATED. MAINTAIN 2 IN. OF SOLID TRIM BETWEEN DOORS.
- 2. LEGAL GAUGE SHEET STEEL BOX, GALVANIZED FOR FLUSH BOX, DOOR AND TRIM MINIMUM NO. 12 GAUGE STEEL, FLUSH OR SURFACE TYPE AS INDICATED. HINGED LOCKABLE DOOR WITH CONCEALED HINGES AND FASTENERS. WEATHERPROOF WHERE LOCATED OUTDOORS.
- 3. FINISH: PARTS EXPOSED TO VIEW TO HAVE ONE COAT ZINC CHROMATE AND ONE COAT HAMMERTONE GRAY OR MANUFACTURER'S STANDARD GRAY BAKED ENAMEL.
- 4. LOCKS AND KEYS: FURNISH FLUSH TYPE LOCK AND TWO KEYS WITH EACH PANEL BOARD. ALL LOCKS SHALL BE KEYED ALIKE.
- 5. SIZES: MINIMUM 20 IN. WIDE UNLESS INDICATED. SURFACE MOUNT 5-3/4 IN. DEEP UNLESS INDICATED. TOP AND BOTTOM GUTTERS MINIMUM 6 IN. HIGH. PROVIDE 12 IN. HIGH GUTTER WHERE DOUBLE LUGS ARE REQUIRED OR WHERE CABLE SIZE EXCEEDS BUS SIZE.
- 6. PROVIDE ADDITIONAL SIDE GUTTER SPACE OR SEPARATE BARRIERED SIDE SECTION WITH COVER WHERE REQUIRED FOR FEED THROUGH LUGS.
- 7. BUSBARS: BUS SHALL BE SILVER PLATED COPPER OR TIN PLATED ALUMINUM. PROVIDE SPLIT BUS BARS WHERE INDICATED. NEUTRAL BUS ELECTRICALLY ISOLATED FROM ENCLOSURE.
- 8. LUGS: LUGS FOR ALL EXTERNAL CONNECTIONS SHALL BE SUITABLE FOR COPPER CONDUCTORS. SHOP DRAWINGS MUST INDICATE QUANTITY AND SIZES OF LUGS BASED ON ACTUAL CONDUCTORS TO BE USED AS SHOWN ON THE PLANS.
- 9. GROUND BUS: WHENEVER GROUND CONNECTORS ARE INSTALLED OR REQUIRED, PROVIDE A SEPARATE EQUIPMENT GROUND BUS IN PANEL ELECTRICALLY CONNECTED TO THE ENCLOSURE.
- 10. WHERE INDICATED AS RECESSED MOUNTED, PROVIDE SPARE CONDUITS STUBBED UP INTO ACCESSIBLE CEILING SPACE AND SHALL BE CAPPED AND MARKED. PROVIDE (2) 1" CONDUITS FOR THREE SPARES OR SPACES.
- 11. PANEL BOARDS SHALL BE MANUFACTURED BY EATON, SIEMENS, G.E., MYERS OR SQUARE "D".
- 12. WHERE PANEL SCHEDULE IS INDICATED TO INCLUDE:
- A. 200% NEUTRAL: PANEL BOARDS WITH NEUTRAL BUSSES TO HOLD 200% OF THE CAPACITY OF THE PHASE BUSSING OR IT SHALL BE FULL SIZE IN RECTANGULAR SHAPE.
- B. DOUBLE LUGS: DOUBLE LUG KIT AT THE SAME END OF PANEL BOARD AS THE PANEL BOARD MAIN LUGS.
- C. I.G. BUS: PANEL BOARDS WITH A DRILLED AND TAPPED ISOLATED GROUND BUS FOR NUMBER OF ISOLATED GROUND CONDUCTORS SHOWN AND FOR SPARES AND SPACES AS SHOWN ON THE PANEL BOARD SCHEDULE.

13. CIRCUIT BREAKERS:

- a. MOLDED CASE CIRCUIT BREAKERS SHALL BE BOLT-ON DEVICES ONLY AND SUITABLE FOR 75 DEGREE AMPACITY CONDUCTORS. PLUG-IN TYPE BREAKERS ARE NOT ACCEPTABLE. TANDEM CIRCUIT BREAKERS ARE NOT ACCEPTABLE.
- b. MOLDED CASE CIRCUIT BREAKERS SHALL BE THERMAL-MAGNETIC, QUICK-MAKE, QUICK-BREAK, TRIP FREE. MULTI-POLE BREAKERS SHALL BE COMMON TRIP. MAIN BREAKERS TO BE BUS CONNECTED TO MAIN BUS BAR AND HORIZONTALLY MOUNTED.
- c. PROVIDE CIRCUIT BREAKER ACCESSORIES AS INDICATED ON THE DRAWINGS OR PANEL SCHEDULES.
- d. WHERE INDICATED ON PANEL SCHEDULE A.I.C RATING AS "SERIES RATED" PROVIDE CIRCUIT BREAKERS SERIES RATED WITH THE AVAILABLE FAULT CURRENT OF THE UPSTREAM SYSTEM.
- e. CIRCUIT BREAKERS SERVING MECHANICAL OR HVAC EQUIPMENT SHALL BE "HACR" TYPE BREAKER AND UL LISTED.
- 14. CIRCUIT IDENTIFICATION:
- a. CIRCUIT NUMBER ON BLACK-ON-WHITE LAMINATED PLASTIC TABS OR OTHER PERMANENT TYPE NOT READILY CHANGED FROM THE FRONT.
- b. UNDER THE PANEL DESIGNATION, IN 1/4 IN. HIGH LETTERS, INDICATE THE VOLTAGE AND PHASE, EXAMPLE: "277/480 VOLT, 3 PHASE, 4 WIRE, 100A BUS"

- 2.4 TRANSFORMERS
- A. TRANSFORMERS 15 KVA AND LARGER SHALL BE OF THE VENTILATED TYPE AND HAVE A UL RECOGNIZED 220° C INSULATION SYSTEM. THE KVA RATINGS SHALL BE BASED ON AN ALLOWABLE 150° C WINDING TEMPERATURE RISE ABOVE A 30° C HOT SPOT.
- B. "K" RATED TRANSFORMERS SHALL HAVE CLASS 220 INSULATION WITH 115 DEGREE CELSIUS TEMPERATURE RISE ABOVE 30 DEGREE CELSIUS AVERAGE AND 40 DEGREE CELSIUS MAXIMUM WHEN OPERATING AT FULL LOAD WITHOUT LOSS OF LIFE.
- C. TRANSFORMER DESIGN KVA RATING SHALL BE SUITABLE FOR A 30° AVERAGE, 40° MAXIMUM AMBIENT TEMPERATURE.
- D. CORE AND COIL:
- 1. CORE CONSTRUCTION SHALL BE OF NON-AGING GRAIN-ORIENTED SILICON STEEL TO MINIMIZE HYSTERISIS AND EDDY CURRENT LOOSED. CORE LAMINATIONS SHALL BE TIGHTLY ASSEMBLED.
- 2. WINDINGS SHALL BE WOUND OF HIGH QUALITY COPPER OR ALUMINUM AS SPECIFIED ON TRANSFORMER SCHEDULE.
- 3. VENTILATED WINDINGS SHALL BE ARRANGED TO BRACE COIL LAYERS AND PROVIDE MAXIMUM VENTILATION. CORE AND COIL ASSEMBLIES SHALL BE CONSTRUCTED TO PROVIDE SHORT CIRCUIT WITHSTAND CAPABILITY AS DEFINED BY ANSI AND NEMA STANDARDS. THE COMPLETE ASSEMBLY SHALL BE INSTALLED ON VIBRATION DAMPENING PADS TO REDUCE NOISE AND SECURELY BOLTED TO THE ENCLOSURE BASE. A FLEXIBLE GROUNDING CONDUCTOR SHALL BE INSTALLED BETWEEN THE CORE AND COIL AND THE TRANSFORMER ENCLOSURE.
- 4. TRANSFORMER DESIGN KVA RATING SHALL BE SUITABLE FOR A 30° AVERAGE, 40° MAXIMUM AMBIENT TEMPERATURE.
- 5. CORE AND COIL SEALING PROCESS:
- a. THE COMPLETE CORE AND COIL ASSEMBLY SHALL BE IMPREGNATED WITH NON-HYDROSCOPIC THERMO-SETTING POLYESTER VARNISH TO PROVIDE A HIGH DIELECTRIC AND FLAME RETARD ANT SEAL.
- b. THE SHIELD OF VARNISH TO THE COILS SHALL EFFECTIVELY IMPREGNATE THE ENTIRE CORE AND COIL ASSEMBLY THAT RESULTS IN A UNIT WHICH IS VIRTUALLY IMPERMEABLE TO MOISTURE, DUST, DIRT, SALT AIR AND OTHER INDUSTRIAL CONTAMINANTS.
- c. ENCAPSULATED CORE AND WINDINGS SHALL BE CAST IN A RESIN COMPOUND TO PROVIDE A MOISTURE-PROOF, SHOCK-RESISTANT, HIGH DIELECTRIC SEAL.
- 6. CORE LAMINATION CLAMPING ANGLE SHALL BE OF ADEQUATE THICKNESS AND HARDNESS TO INSURE A TIGHT AND RIGID CORE ASSEMBLY TO ELIMINATE MOVEMENT OF CORE PLATES. WELDED CORE DESIGNS SHALL INCLUDE MULTIPLE BEADS AS NECESSARY TO INSURE A TIGHT AND RIGID CORE ASSEMBLY TO ELIMINATE MOVEMENT.
- 7. PROVIDE FULL CAPACITY TAPS IN THE HIGH-VOLTAGE WINDINGS AS FOLLOWS:
- a. BELOW 15 KVA THREE PHASE STEP-DOWN TRANSFORMERS: 2 5% FULL CAPACITY BELOW NORMAL.
- b. 15 KVA THROUGH 500 KVA STEP-DOWN TRANSFORMERS: 2 2-1/2% FULL CAPACITY ABOVE NORMAL AND 4 - 2-1/2% FULL CAPACITY BELOW NORMAL.
- c. 750 KVA AND ABOVE STEP-DOWN TRANSFORMERS: 2 2-1/2% FULL CAPACITY ABOVE NORMAL 2 - 2-1/2% FULL CAPACITY BELOW NORMAL
- d. STEP-UP AND DUAL PRIMARY TRANSFORMERS: PROVIDE NEMA STANDARD TAPS.
- 8. FURNISH LUGS OF APPROPRIATE SIZE.
- E. ENCLOSURES:
- 1. VENTILATED ENCLOSURES SHALL BE OF HEAVY GAUGE STEEL CONSTRUCTION OF NEMA 3R CONSTRUCTION FOR OUTDOOR USE WITH THE ADDITION OF WEATHER SHIELDS AND NEMA 1 FOR INDOOR INSTALLATION. FRONT AND REAR COVERS SHALL BE REMOVABLE TO PROVIDE ACCESS TO TERMINAL COMPARTMENT(S). TERMINALS SHALL BE FULLY SIZED TO CARRY THE TRANSFORMER FULL LOAD CURRENT AND SHALL BE ARRANGED TOL ACCEPT UL LISTED CABLE CONNECTORS.
- 2. ENCLOSURE WIRING SPACE AND POSITIONING OF TERMINALS SHALL ALLOW FOR ADEQUATE CABLE BENDING SPACE.
- 3. FINISH ENCLOSURE IN ANSI 61 GRAY PAINT.
- 4. EACH TRANSFORMER SHALL HAVE A SECURELY ATTACHED NAMEPLATE PROVIDING COMPLETE ELECTRICAL RATINGS, WIRING DIAGRAM, TAP CONNECTIONS AND CATALOG NUMBER, AS APPLICABLE.
- f. Sound
- 1. UNLESS OTHERWISE SPECIFIED, SOUND LEVELS SHALL BE IN ACCORDANCE WITH VALUES ALLOWED BY NEMA ST-20.
- G. ACCESSORIES:
- 1. PROVIDE WEATHER SHIELDS FOR VENTILATED TRANSFORMERS INSTALLED OUTDOORS CONFORMING TO THE REQUIREMENTS OF NEMA 250, TYPE 3R.
- H. TRANSFORMERS SHALL BE GROUNDED TO A CODE APPROVED GROUND SOURCE PER NEC OR CEC WHERE ADOPTED. ARTICLE 250.30.
- I. TRANSFORMERS SHALL BE MANUFACTURED BY EATON, SIEMENS, G.E., MYERS OR SQUARE "D".

2.5 CONDUIT

- A. ELECTRICAL METALLIC TUBING (EMT) SHALL BE GALVANIZED. ALL COUPLINGS AND CONNECTORS SHALL BE SET SCREW OR WATERTIGHT COMPRESSION TYPE.
- B. METAL-CLAD (MC) CABLE: TYPE MC CABLE SHALL BE CORRUGATED TUBE, TYPE CS. MC CABLE SHALL INCLUDE A FULL SIZE GROUND CONDUCTOR AND ANTI-SHORT BUSHINGS AT EACH TERMINATION POINT.
- C. FLEXIBLE CONDUIT SHALL BE HOT DIPPED GALVANIZED STEEL.
- D. CONNECTIONS FOR FLEXIBLE STEEL CONDUIT SHALL BE SCREW IN TYPE (JAKE) AS MANUFACTURED BY DURO FITTING COMPANY, OR ENGINEER-APPROVED EQUAL.
- E. GALVANIZED RIGID CONDUIT SHALL BE FULL WEIGHT THREADED TYPE STEEL. STEEL CONDUIT SHALL BE PROTECTED BY OVERALL ZINC COATING TO INSIDE AND OUTSIDE SURFACES APPLIED BY THE HOT DIP, METLIZING OR SHERARDIZING PROCESS.
- F. INTERMEDIATE METAL CONDUIT SHALL BE HOT-DIPPED GALVANIZED IN ACCORDANCE WITH UL 1242 AND MEET THE LATEST REVISION OF FEDERAL SPECIFICATIONS WWC-581.
- G. NONMETALLIC FLEXIBLE TUBING (ENT) SHALL NOT BE USED. ENT SHALL ONLY BE USED IN PARKING STRUCTURES AND CMU WALLS WHEN DIRECTED IN WRITING BY THE ENGINEER.
- H. POLY-VINYL-CHLORIDE (PVC) CONDUIT, SCHEDULE 40, TYPE II CONFORMING TO UL FOR UNDERGROUND INSTALLATION.
- 2.6 OUTLET BOXES
- A. ONE-PIECE GALVANIZED PRESSED STEEL KNOCKOUT TYPE EQUAL TO STEEL CITY MANUFACTURING COMPANY, 4" X 2-1/8" SQUARE, MINIMUM (WALL), 4" SQUARE X 1-1/2" DEEP MINIMUM (CEILING).
- B. CAST BOXES SHALL BE THREADED HUB CAST FERROUS, OR ALUMINUM BOXES WHERE LEGALLY PERMITTED AND EQUAL TO CROUSE-HINDS, KILLARK, OR PYLE-NATIONAL. PROVIDE PLUGS FOR SPARE HUBS.
- C. FOR LOCATIONS WHERE STANDARD BOXES ARE NOT SUITABLE DUE TO NUMBER AND SIZE OF CONDUIT TO BE TERMINATED, SPECIAL BOXES SHALL BE DESIGNED TO FIT SPACE OR MEET OTHER REQUIREMENTS AND SUBMITTED FOR APPROVAL.



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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			
$\overline{\wedge}$	PC RESUBMITTAL	05/18/22			
Δ	PC RESUBMITTAL	10/28/22			
$\overline{\mathbb{A}}$	HCD REVISION 1	12/16/22			
$\overline{\mathbb{A}}$	PC RESUBMITTAL	02/02/23			
$\overline{\mathbb{A}}$	HCD & PC RESUBMITTAL	06/06/23			
$\underline{\mathbb{A}}$	hcd resubmittal	06/14/23			
\triangle	PC RESUBMITTAL	07/10/23			
$\underline{\mathbb{A}}$	CLIENT REVISIONS	07/11/23			
\land	CLIENT REVISIONS	08/04/23			
$\overline{\mathbb{A}}$	PC RESUBMITTAL (ELEC)	09/12/23			
\triangle	PC RESUBMITTAL (ELEC)	10/05/23			
Λ	CLIENT REVISIONS	10/12/23			
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SHEET TITLE:

ELECTRICAL SPECIFICATIONS

SHEET NO:

D. FLOOR BOX AS SPECIFIED ON DRAWINGS.

2.7 SH	HEET STEEL PULL BOXES	2.14
A.	IN WET LOCATIONS, OUTDOORS OR WHERE INDICATED TO BE WEATHERPROOF, PROVIDE BOXES THAT HAVE BEEN HOT-DIPPED	A
	GALVANIZED AFTER CONSTRUCTION AND GIVEN TWO COATS OF GRAY COLOR RUST-RESISTANT PAINT. INSTALL COVERS WITH STAINLESS STEEL	
	SCREWS AND NEOPRENE GASKETS. SEAL AROUND CONDUIT ENTRIES WITH SILICONE SEALANT, GENERAL ELECTRIC OR EQUAL.	2.15
В.	IN DRY LOCATIONS, FINISH ALL BOX SURFACES WITH ONE COAT OF METAL	A.
2.8 IN	PRIMER AND ONE COAT OF PRIMER SEALER. I-GRADE PULL BOXES	В.
A.	IN GRADE PULL BOXES SHALL BE PRE-CAST CONCRETE AND MANUFACTURED	
29 (BY CHRISTY, BROOKS-JENSEN OR UTILITY VAULT CO	С
2.7 C.	PROVIDE NEW CONDUCTORS MANUFACTURED WITHIN ONE YEAR OF DATE	D.
	OF DELIVERY TO JOB. DELIVER CONDUCTORS TO SITE IN THEIR ORIGINAL UNBROKEN PACKAGES OR ON THEIR ORIGINAL CABLE REELS. ALL	_
	CONDUCTOR PACKAGES AND CABLE REELS SHALL BE MARKED AND TAGGED PLAINLY WITH UL LABEL, SIZE, VOLTAGE RATING, INSULATION TYPE.	E.
	TYPE OF STRANDING, MANUFACTURER'S NAME, TRADE NAME AND MONTH AND YEAR WHEN MANUFACTURED.	
В.	CONDUCTORS SHALL BE SOFT DRAWN, MINIMUM 98% CONDUCTIVITY	
	STRANDED COPPER, TYPE THHN/THWN-2, 600 VOLT, UL APPROVED, DRY AND WET LOCATIONS RATED AT 90 DEGREE CELSIUS, FOR CONDUCTORS OF ALL	F.
	SIZES FROM #12 AWG UP TO AND INCLUDING 1000 KCMIL. POWER CONDUCTORS NO. 10 AWG AND SMALLER SHALL BE SOLID.	
C.	ALUMINUM CONDUCTORS ARE NOT ACCEPTABLE.	G
D.	USE ONLY PLATED COPPER ALLOY CONNECTORS OR LUGS. ALUMINUM CONNECTORS OR LUGS ARE NOT ACCEPTABLE. THE FOLLOWING	
	CONNECTORS ARE PROVIDED FOR COPPER CONDUCTORS:	2.16
	 FOR WIRE NO. 10 AWG AND SMALLER: 3M "SCOTCHLOC", IDEAL "SUPERNUT", BUCHANAN "B3". 	A.
	2. FOR WIRE NO. 8 AWG AND LARGER: BURNDY "VERSITAPS" AND HEAVY	В.
	DULT CONNECTORS, O.2. SOLDER LESS CONNECTORS OR THE EQUIVALENT BY BUCHANAN, KEARNEY OR PENN-UNION.	С
E.	WIRE AND CABLE SHALL BE NEW, MANUFACTURED NOT MORE THAN SIX (6)	D.
	VOLTAGE RATING AND MANUFACTURER'S NAME PERMANENTLY MARKED ON	F
F.	WIRE AND CABLE SHALL BE FACTORY COLOR-CODED BY INTEGRAL	L.
	PIGMENTATION WITH A SEPARATE COLOR FOR EACH PHASE AND NEUTRAL. EACH SYSTEM SHALL BE COLOR-CODED AND IT SHALL BF MAINTAINFD	2.17
	THROUGHOUT.	A. 2.18
G.	SYSTEMS CONDUCTOR COLOR CODING:	A.
	a. PHASE A = BLACK	
	b. PHASE B = RED	В.
	C. PHASEC = BLUE d. NEUTRAL = WHITE	
	e. SWITCHLEGS = PURPLE	
	1. IRAVELLERS = PURPLE WITH BLACK STRIPE (SWITCHLEGS SHALL ALSO BE IDENTIFIED SFPARATFLY BY NUMFRICAL TAGS)	
	2. Power 277/480V, 3PH, 4W:	
	a. PHASE A = BROWN	С
	D. PHASE B = ORANGE C. PHASE C = YELLOW	
	d. NEUTRAL = GREY	
	e. Switchlegs = Purple f. TRAVELLERS = PURPLE WITH BLACK STRIPE	
	(SWITCHLEGS SHALL ALSO BE IDENTIFIED SEPARATELY BY NUMERICAL TAGS)	
	3. GROUND CONDUCTORS: GREEN	D.
	 ISOLATED GROUND CONDUCTORS: GREEN WITH CONTINUOUS YELLOW STRIPE. 	
	5. FIRE ALARM SYSTEM: AS RECOMMENDED BY THE MANUFACTURER.	
2.10 W	VIRING DEVICES	
Α.	WIRING DEVICES SHALL BE SPECIFICATION GRADE DECORA TYPE AS MANUFACTURED BY LEVITON PASS & SEYMOUR OR HUBBELL LEVITON	
	DEVICES AND MODEL NUMBERS INDICATED BELOW:	
	DEVICE: MODEL CONVENIENCE RECEPTACIE 16252	
	DEDICATED RECEPTACLE 16352 CONVENIENCE LG 14242	
	RECEPTACLE CONVENIENCE 4599	
	G.F.C.I. RECEPTACLE 6899	E.
	DEDICATED G.F.C.I. 5691-2 RECEPTACLE SINGLE POLE 5692-2	
	SWITCH DOUBLE POLE SWITCH 5623-2 THREE WAY SWITCH FOUR WAY 5624-2	
	SWITCH PROJECTION SCREEN 5657-2 SWITCH KEYED SWITCH PILOT 1221-2KL	
	LIGHT SWITCH "ON" PILOT LIGHT 5628-2 SWITCH "OFF" RECESSED 5631-2	0.10
	CLOCK RECEPTACLE 5261-CH	2.19 A
В.	I.G. RECEPTACLE BODIES SHALL BE OF A BASIC COLOR SPECIFIED ABOVE WITH AN ORANGE TRIANGLE TO SYMBOLIZE ISOLATED GROUND.	2.4
C.	FINISH OF DEVICES SHALL BE AS SELECTED BY ARCHITECT.	
2.11 C	COVERPLATES	2.20
Α.	COVERPLATES SHALL BE NONCOMBUSTIBLE, MAR-RESISTANT THERMOSETTING PLASTIC 0.100 INCH THICK WITH PLAIN STYLE AND SMOOTH FINISH UNLESS	A.
	OTHERWISE INDICATED. COLOR TO BE PASS & SEYMOUR P LINE WHITE OR AS SELECTED BY THE ARCHITECT.	0 01
В.	WHERE SPECIFIED, STAINLESS STEEL PLATES SHALL BE TYPE 302, 0.040 INCH	2.21 A
	ihick with u.s bureau of standards satin FINISH no. 32D, PASS & Seymour s line or as selected by architect.	
2.12 PI	HOTOELECTRIC CONTROLLERS	
A. A P/	IS MANUFACTURED BY AUTOMATIC SWITCH COMPANY, SQUARE D, TORK, ARAGON, OR SANGAMO.	
2.13 C	CONTACTORS & RELAYS	
A.	MANUFACTURERS: ALLEN-BRADLEY, AUTOMATIC SWITCH CO., SQUARE D,	В.
В.	PROVIDE CONTRACTORS AND RELAYS FOR CONTROL OF LIGHTING OR	
-	OTHER LOADS AS INDICATED.	
C.	CONTRACTORS AND RELAYS SHALL BE OF THE SIZE AND WITH THE NUMBER OF POLES INDICATED OR REQUIRED. WHERE A RELAY OR CONTRACTOR	С
	CONTROLS INDIVIDUAL BRANCH CIRCUIT, PROVIDE A MINIMUM OF ONE SQUARE POLE.	D.
D.	UNLESS INIDICATED OTHERWISE, CONTRACTORS CONTROLLING LIGHTING	F
	STALL DE MICHANICALLY HELD WITH COIL CLEARING CONTACTS AND COIL VOLTAGE AS REQUIRED.	۲.
E.	CONTROLLING CONTACTORS ON TIME CLOCKS SHALL BE SPECIAL-TYPE FOR THIS PURPOSE.	
F.	CONTRACTORS CONTROLLED BY PHOTOELECTRIC CONTROLLER SHALL BE	
	MAGNETICALLY HELD.	

4 SUPPORTS

A. SWING CONNECTORS FOR STEEL RODS SUPPORTING HANGING ELECTRICAL EQUIPMENT (TRANSFORMERS, JUNCTION BOXES, ETC.) SHALL BE EQUAL TO STEEL CITY E-165, E-170 AND E-232.

DISCONNECT SWITCHES

- A. SQUARE D, WESTINGHOUSE, I.T.E., G.E., CHALLENGER, CROUSE HINDS OR ARROW HART.
- B. NON-FUSIBLE OR FUSIBLE, HEAVY DUTY, EXTERNALLY-OPERATED, HORSE-POWER-RATED, 600VAC. PROVIDE NEMA 3R, LOCKABLE ENCLOSURES FOR ALL SWITCHES LOCATED ON ROOF TOPS IN WE OR DAMP LOCATIONS AND IN ANY EXPOSITED AREA EXPOSED TO THE ELEMENTS.
- C. FUSES SHALL BE CLASS "R". MANUFACTURED BY BUSMAN, SHAWMUT OR ENGINEER-APPROVED EQUAL.
- D. PROVIDE OWNER WITH ONE SPARE SET OF FUSES AND TWO SETS OF FUSE CLIPS/FUSE FOR EVERY SET OF FUSES ON THE PROJECT.
- E. FUSIBLE DISCONNECT SWITCHES SHALL HAVE QUICK-MAKE, QUICK-BREAK MECHANISM AND AN INTERLOCKED COVER WHICH CANNOT BE OPENED WHEN SWITCH IS IN THE "ON" POSITION AND BE PROVIDED WITH VOID ABLE INTERLOCKS. SWITCHES SHALL BE HORSEPOWER RATED AND TYPE THAT CAN BE USED ON INDUCTIVE LOADS. PROVIDE EACH SWITCH WITH A NAMEPLATE INDICATING EQUIPMENT CONTROLLED.
- F. PROVIDE A FUSIBLE DISCONNECT WITHIN SIGHT OF AND READILY ACCESSIBLE FROM AIR CONDITIONING EQUIPMENT, PER NEC 440-14. SIZE FUSES PER EQUIPMENT NAMEPLATES.
- G. SWITCHES LOCATED INDOOR SHALL BE IN NEMA TYPE I ENCLOSURES AND SWITCHES LOCATED OUTDOORS OR WHERE INDICATED OR REQUIRED TO BE WEATHERPROOF SHALL BE NEMA TYPE 3R ENCLOSURES.

6 LIGHTING FIXTURES

- A. PROVIDE, INSTALL AND CONNECT ALL LIGHTING FIXTURES INDICATED ON THE DRAWINGS ACCORDING TO THE FIXTURE SCHEDULE.
- B. ALL FIXTURES OF THE SAME TYPE SHALL BE OF A SINGLE MANUFACTURER AND OF IDENTICAL FINISH AND APPEARANCE.
- C. ALL LIGHT FIXTURES SHALL BE U.L. LABELED.
- D. REFER TO LIGHTING FIXTURE GENERAL NOTES FOR BALLAST'S AND LAMP SPECIFICATIONS AND ADDITIONAL REQUIREMENTS.
- E. PROVIDE REQUIRED MOUNTING DEVICES AND ACCESSORIES FOR COMPLETE INSTALLATION.
- LIGHTING CONTROL SYSTEM
- A. SEE DRAWINGS FOR LIGHTING CONTROL SPECIFICATIONS.

3 OCCUPANCY SENSORS

- A. OCCUPANCY SENSORS SHALL BE BY A SINGLE MANUFACTURER AND BE COMPLIANT WITH ALL APPLICABLE FEDERAL, STATE AND LOCAL ENERGY CODES.
- 3. WALL MOUNTED OCCUPANCY SENSORS SHALL BE UL LISTED AND HAVE A MINIMUM LOAD CAPACITY OF 800 WATTS AT 120 VOLTS AND 1200 WATTS AT 277 VOLTS, DECORATOR STYLE WITH A LOW PROFILE APPEARANCE AND HARD LENS. SENSOR SHALL UTILIZE DUAL TECHNOLOGY RATED 120/277 WITH NO MINIMUM LOAD AND COMPATIBLE WITH ALL LAMP TYPES. SENSORS SHALL HAVE MANUAL SWITCH OVER-RIDE CAPABILITY. IN ROOMS WITH MORE THAN ONE LIGHT FIXTURE, SENSORS SHALL HAVE BI-LEVEL SWITCH OVER-RIDE CAPABILITY. WATTSTOPPER #DW-100-W FOR SINGLE RELAY, WATTSTOPPER #DW-200-W FOR DUAL RELAY OR EQUAL.
- C. CEILING MOUNTED OCCUPANCY SENSORS SHALL HAVE A LOW PROFILE APPEARANCE AND SHALL UTILIZE DUAL TECHNOLOGY ULTRASONIC AND PASSIVE INFRARED WITH 360 DEGREE COVERAGE. SENSORS SHALL UTILIZE AN ADJUSTABLE PHOTO SENSOR TO KEEP LIGHTS OFF BASED ON SUFFICIENT DAYLIGHT. INITIAL OCCUPANCY DETECTION SHALL BE FIELD SELCTABLE BASED ON PIR SENSOR ONLY, ULTRASONIC SENSOR ONLY OR BOTH PIR AND ULTRASONIC SENSORS. AN ADDITIONAL SWITCH PACK SHALL BE REQUIRED TO AUTOMATICALLY CONTROL 50% OF THE LIGHTING IN ANY DAYLIGHTING ZONE VIA THE PHOTO SENSOR. WATTSTOPPER #DT-300 OR EQUAL.
- CEILING MOUNTED OCCUPANCY SENSORS SHALL BE PROVIDED WITH CONTROL UNITS OR SWITCH PACKS TO PERFORM THE FIXTURE SWITCHING REQUIREMENTS INDICATED BY THE DRAWINGS. CONTROL UNITS OR SWITCH PACKS SHALL BE DUAL VOLTAGE 120/277 WITH CONTACTS RATED 20 AMPS. WIRING BETWEEN SENSORS AND CONTROL UNITS SHALL BE PLENUM RATED 18AWG, UL CLASSIFIED, PVC-JACKETED AND INSULATED. POWER PACKS WITH INTEGRAL TRANSFORMERS SHALL BE UTILIZED TO PROVIDE 24VDC. CONTROL UNITS OR SWITCH PACKS SHALL BE LOCATED WITHIN JUNCTION BOXES AND NOT EXPOSED IN THE CEILING SPACE. A MAXIMUM OF THREE SENSORS, UNLESS OTHERWISE NOTED, SHALL BE WIRED TO ONE POWER PACK. THE POWER PACK SHALL BE 120 OR 277 VOLTS AS REQUIRED WITH NO MINIMUM LOAD, COMPATIBLE WITH ALL THE SPECIFIED BALLAST'S AND NO LEAKAGE TO LOAD IN THE "OFF" MODE. WHERE MULTIPLE CIRCUITS ARE TO BE CONTROLLED, UTILIZE ADDITIONAL SWITCH PACKS, PROVIDE A FULL FEATURED POWER PACK (NOT A SLAVE PACK). WATTSTOPPER #BZ-150 POWER PACKS OR EQUAL SHALL BE USED FOR DUAL SWITCHING ALONG WITH A LOW-VOLTAGE MOMENTARY SWITCH WATTSTOPPER #DCC2 OR EQUAL.
- E. SWITCHING PHOTO SENSORS SHALL BE PROVIDED TO SWITCH SELECTED FIXTURES AND/OR LAMPS "OFF" AND "ON" BASED UPON DAYLIGHTING LEVELS PRESENT IN THE CONTROLLED SPACE. THE SWITCHING PHOTO SENSOR SHALL BE PROVIDED WITH A DEDICATED POWER/RELAY PACK. THE SENSOR SHALL UTILIZE AN INTEGRAL PHOTO CONDUCTIVE CELL TO MEASURE AMBIENT LIGHT LEVELS. ON/OFF CONTROLS SHALL BE FULLY ADJUSTABLE FROM 10 TO 200 FOOT-CANDLES AND SHALL BE PROVIDE WITH AN ADJUSTABLE TIME DELAY AND ON ADJUSTABLE DEAD BAND.

9 PLYWOOD BACKBOARDS

. DOUGLAS FIR PLYWOOD, EXTERIOR GRADE, 8'H X 4'W X 3/4" THICK (MINIMUM) UNLESS OTHERWISE NOTED SIZE ON PLANS WITH FINISHED ONE SIDE AND PRIMER COAT PAINTED ON ALL SURFACES WITH FINISH COAT OF LIGHT GRAY ENAMEL ON FRONT (FINISHED) SIDE.

O VANDAL-RESISTANT FASTENERS

- PROVIDE APPROVED VANDAL PROOF TYPE SCREWS, BOLTS AND NUTS WHERE EXPOSED TO SIGHT THROUGHOUT THE PROJECT. PROVIDE OWNER WITH SIX (6) SCREWDRIVERS FOR THIS TYPE.
- 1 TERMINAL CABINETS
- A. TERMINAL CABINETS SHALL BE FABRICATED OF CODE GAUGE SHEET STEEL, SIZE AS INDICATED ON THE DRAWING, COMPLETE WITH HINGED DOORS AND THE NUMBER OF 2-WAY SCREW TERMINALS REQUIRED FOR TERMINATION OF ALL CONDUCTORS. THE DOOR TO TERMINAL CABINETS SHALL BE CONTINUOUSLY HINGED ON ONE SIDE AND BE THE SAME SIZE AS THE CABINET SO AS TO ALLOW MAXIMUM TERMINATION SPACE WITHIN THE CABINET. TERMINAL CABINETS SHALL HAVE 5/8" PLYWOOD BACKING FINISHED IN BLACK INSULATING VARNISH.
- B. ALL TERMINAL CABINETS SHALL BE FINISHED WITH ONE COAT OF ZINC CHROMATE AND A COST OR PRIMER SEALER AFTER A THOROUGH CLEANING WHERE EXPOSED TO PUBLIC VIEW (E.G., CORRIDORS, COVERED PASSAGES, OFFICES, ETC.). PRIME COATED TERMINAL CABINETS SHALL BE PAINTED TO MATCH SURROUNDINGS AFTER INSTALLATION.
- C. TERMINAL CABINETS NOT LOCATED IN ELECTRICAL ROOMS OR ELECTRICAL CLOSETS SHALL HAVE CCL SECURITY PRODUCTS 15767 LOCKS AND KEYS.
 D. TERMINALS FOR SIGNAL SYSTEMS CABINETS TO BE CANNON TYPE "SS" OR
- EQUAL. E. PROVIDE ENGRAVED NAMEPLATE ON EACH CABINET INDICATING ITS
- DESIGNATION AND SYSTEM (I.E., "LIFE SAFETY SYSTEM PANEL 2LS").

2.22 WIREWAYS AND AUXILIARY GUTTERS

- A. PROVIDE WIREWAYS AND AUXILIARY GUTTERS WITH ALL PARTS FOR A COMPLETE INSTALLATION; SQUARE D OR EQUAL. ENSURE CONTINUITY OF EQUIPMENT GROUNDING AT RACEWAY CONNECTIONS.
- B. WHERE INDICATED, OR AS A SUBSTITUTE FOR CONDUIT WHERE APPROVED, PROVIDE HINGED-COVER TYPE WIREWAYS DESIGNED TO PERMIT LAY-IN INSTALLATION OF CONDUCTORS. SUPPORT WIREWAYS AT LEGAL INTERVALS AND AT EACH CHANGE IN DIRECTION OR ELEVATION USING MANUFACTURER'S STANDARD FITTINGS. WHERE NOT ATTACHED DIRECTLY TO THE BUILDING STRUCTURE, USE 1/2 INCH GALVANIZED STEEL RODS WITH APPROVED SWING CONNECTORS; STEEL CITY OR EQUAL. USE FACTORY-FABRICATED FLANGES TO CONNECT WIREWAYS TO SWITCHBOARDS AND PANELBOARDS. INSTALL WIREWAYS FOR TOP OR SIDE ACCES UNLESS INDICTATED OR REQUIRED TO BE OTHERWISE.
- C. WHERE INDICATED, OR WHERE REQUIRED TO CONSOLIDATE WIRING OR TOP SUPPLEMENT WIRING SPACES AT EQUIPMENT, PROVIDE SCREW-COVER TYPE AUXILIARY GUTTERS SIZED AS REQUIRED TO ACCOMODATE THE ASSOCITATED EQUIPMENT AND CONDUCTORS.

PART 3 - EXECUTION

- 3.1 STORAGE
- A. ALL MATERIALS AND EQUIPMENT IN STORAGE AND DURING CONSTRUCTION, SHALL BE COVERED IN SUCH A MANNER THAT NO FINISH SURFACE WILL BE DAMAGED OR MARRED, AND ALL MOVING PARTS SHALL BE KEPT PERFECTLY CLEAN AND DRY.
- 3.2 EXCAVATIONS
- A. TRENCHES FOR UNDERGROUND CONDUIT EXTERIOR TO BUILDING SHALL PROVIDE A MINIMUM EARTH COVER OF 24 INCHES FOR CONDUITS UNLESS NOTED OTHERWISE.
- 3.3 ACCESSIBILITY AND CLEARANCES
- A. INSTALL ELECTRICAL EQUIPMENT, OUTLETS, JUNCTION AND PULL BOXES IN ACCESSIBLE LOCATIONS AVOIDING OBSTRUCTIONS, PRESERVING HEADROOM, AND KEEPING OPENINGS AND PASSAGEWAYS CLEAR.
- B. MINOR ADJUSTMENTS IN THE LOCATIONS OF EQUIPMENT MAY BE MADE WHERE NECESSARY, PROVIDING SUCH ADJUSTMENTS DO NOT ADVERSELY AFFECT FUNCTIONING OF THE EQUIPMENT.

3.4 CONCRETE

- A. PROVIDE CONCRETE PADS (MINIMUM 1-1/2 IN. HIGH OR AS REQUIRED BY AUTHORITY HAVING JURISDICTION (AHJ)) FOR ALL FLOOR MOUNTED EQUIPMENT INSTALLED OUTDOORS, IN MECHANICAL EQUIPMENT ROOMS AND IN AREAS SUSCEPTIBLE TO BEING WET OR HOSED DOWN.
- 3.5 SLEEVES
- A. PROVIDE SLEEVES OF SUFFICIENT SIZE TO PERMIT READY INSTALLATION OF EACH CONDUIT WHICH PASSES THROUGH CONCRETE WALLS OR SUSPENDED SLABS. SLEEVES IN CONCRETE BEAMS, JOISTS, COLUMNS OR FOOTING WALLS MAY BE INSTALLED ONLY WHERE PERMITTED BY THE STRUCTURAL ENGINEER.
- B. FOR CONDUIT THAT PASSES THROUGH SUSPENDED CONCRETE SLABS, PLACE SLEEVES WITH THE TOP 1 INCH ABOVE FINISHED SLAB AND THE BOTTOM FLUSH WITH UNDERSIDE OF SLAB. IN ALL OTHER CASES, PLACE SLEEVES WITH THE ENDS FLUSH WITH CONCRETE SURFACES. SPACE SLEEVES AT LEAST THREE DIAMETERS APART ON CENTER OR MORE IF REQUIRED BY THE ARCHITECT.
- C. WHERE CONDUITS PASS THROUGH FIRE RESISTIVE WALLS, CEILINGS OR FLOORS, THEY SHALL BE PACKED WITH FIRE RESISTANT COMPOUND OR CONCRETE.
- D. PROVIDE SLEEVES OF GALVANIZED SHEET STEEL AND OF PROPER GAUGE TO RETAIN THEIR SHAPE DURING FORMING AND CONCRETE OPERATIONS. WHERE A CONDUIT PASSES THROUGH AN EXTERIOR SURFACE, SEAL THE SPACE BETWEEN THE CONDUIT AND ITS SLEEVE WITH AN APPROVED WATERTIGHT COMPOUND.

3.6 ROOF STUBS

A. AT BUILT-UP ROOFING, PROVIDE PITCH POCKETS AT ALL ROOF STUBS. FOR OTHER TYPE ROOFS, PROVIDE A GALVANIZED IRON ROOF JACK OF THE PROPER SIZE FOR EACH CONDUIT THAT STUBS-UP THROUGH A ROOF. FLASH AND COUNTER FLASH. COORDINATE THIS WORK WITH AFFECTED TRADES. INSTALL ROOF SEALS IN SUCH A MANNER AS NOT TO VOID ROOF GUARANTEES.

3.7 CONDUIT

- A. UNLESS OTHERWISE INDICATED, PROVIDE CONDUITS OF TYPE PERMITTED OR REQUIRED FOR ALL CONDUCTORS OR CABLES OF ALL SYSTEMS AND VOLTAGES.
- B. CONDUITS SHALL NOT CONTAIN MORE THAN SIX (6) CONDUCTORS UNLESS INDICATED EXCEPT FOR SIGNAL, REMOTE CONTROL OR COMMUNICATIONS SYSTEMS. CONDUITS WITH MORE THAN SIX (6) CONDUCTORS SHALL BE DERATED PER NEC.
- C. ALL CONDUIT SHALL BE CONCEALED UNLESS OTHERWISE INDICATED OR REQUIRED.
- D. UNLESS OTHERWISE INDICATED, USE ELECTRICAL METALLIC TUBING (EMT) AS FOLLOWS: ABOVE GRADE IN DRY LOCATIONS, IN ACCESSIBLE CEILINGS, AND WHERE NOT SUBJECT TO MECHANICAL INJURY OR OTHERWISE PROHIBITED. CONCRETE OR MASONRY IN CONTACT WITH EARTH ARE NOT CONSIDERED DRY LOCATIONS.
- E. METAL-CLAD CABLE MAY BE USED WHERE CONCEALED FOR FIRE ALARM AND BRANCH CIRCUITING OF LIGHTING AND CONVENIENCE RECEPTACLES. IT IS NOT PERMITTED TO BE EXPOSED AT PROJECTION BOOTHS OR AT CONCESSION STANDS.
- F. FLEXIBLE STEEL CONDUIT SHALL BE USED ONLY:
- 1. WHERE INDICATED, SIX FOOT MAXIMUM LENGTH PLUS GREEN GROUND WIRE.
- 2. FOR FINAL CONNECTIONS TO MOTORS, VIBRATING EQUIPMENT OR WHERE REQUIRED FOR EQUIPMENT SERVICING.
- 3. FOR CONNECTIONS TO RECESSED LIGHTING FIXTURES FROM NEARBY ACCESSIBLE JUNCTION BOXES.
- 4. FOR CONCEALED RUNS IN STUD WALLS, IN INACCESSIBLE CEILINGS AND IN DRY LOCATIONS WHERE STRUCTURAL CONDITIONS PREVENT THE USE OF OTHER TYPES OF CONDUIT OR WHERE EXCESSIVE CUTTING OR NOTCHING OF WOOD MEMBERS WOULD OTHERWISE BE REQUIRED.
- G. SIZE ALL CONDUIT AS REQUIRED, OR LARGER WHERE INDICATED OR PREFERRED. WHERE PORTIONS OF A CONDUIT RUN ARE INCREASED IN SIZE FOR WHATEVER REASON, MAKE ALL REMAINING PORTIONS IN THAT RUN THE SAME SIZE AND INCREASE JUNCTION BOX SIZES OR FITTINGS AS REQUIRED.
- H. SEAL ENDS OF ALL CONDUIT WITH APPROVED MANUFACTURED CONDUIT SEALS, CAPS OR PLUGS IMMEDIATELY AFTER INSTALLATION. KEEP ENDS SEALED UNTIL IMMEDIATELY PRIOR TO PULLING CONDUCTORS.
- I. WHERE CONDUIT IS UNDERGROUND, UNDER SLAB OR GRADE, EXPOSED TO THE WEATHER OR IN WET LOCATIONS, MAKE JOINTS LIQUID TIGHT AND GAS TIGHT. END OF UNDERGROUND FEEDER CONDUITS SHALL BE SEALED AFTER THE CABLE IS INSTALLED TO PREVENT BREATHING AND CONDENSATION.
- J. KEEP BENDS AND OFFSETS IN CONDUIT RUNS TO AN ABSOLUTE MINIMUM. FOR THE SERVING UTILITIES, MAKE LARGE-RADIUS BENDS TO MEET THEIR REQUIREMENTS. REPLACE ALL DEFORMED, FLATTENED OR KINKED CONDUIT.
- K. SUPPORT CONDUIT AT LEGAL INTERVALS. PROVIDE ADDITIONAL SUPPORTS AS REQUIRED TO PREVENT SAGGING OR AS DIRECTED. PERFORATED STRAP OR PLUMBERS TAPE IS NOT ACCEPTABLE FOR CONDUIT SUPPORT. HANG SUPPORTS FROM STRUCTURAL MEMBERS OR APPROVED CONCRETE HANGERS.
- L. WHERE CONDUIT MAY BE AFFECTED BY DISSIMILAR MOVEMENTS OF THE SUPPORTING STRUCTURES OR MEDIUM, PROVIDE SUITABLE FLEXIBLE OR EXPANSION DEVICES.
- M. ROUTE CONDUIT TO AVOID DRAINS OR OTHER GRAVITY LINES. WHERE CONFLICTS OCCUR, RELOCATE CONDUIT AS REQUIRED.

- N. RUN ALL CONDUIT PARALLEL WITH OR AT RIGHT ANGLES TO STRUCTURAL MEMBERS, WALLS OR LINES OF THE BUILDING. ROUTE ALL EXPOSED CONDUIT TO PRESERVE HEADROOM, ACCESS AND WORK SPACE.
- O. DO NOT RUN CONDUIT IN CONCRETE MEMBERS OR SUSPENDED SLABS UNLESS APPROVED IN WRITING BY THE STRUCTURAL ENGINEER.
- P. ALL RIGID CONDUIT STUBS-UP IN CONCRETE FLOORS SHALL HAVE COUPLINGS FLUSH WITH FINISHED FLOOR UNLESS NOTED OTHERWISE.
- Q. PROVIDE A POLYPROPYLENE ROPE RATED 700 POUNDS TENSILE STRENGTH IN EACH CONDUIT 1-1/2" AND LARGER AND A PULL STRING FOR CONDUIT 1-1/4" AND SMALLER (MORE THAN 10 FEET IN LENGTH OR INSTALLED WITH ELBOWS) LEFT EMPTY FOR FUTURE USE.
- R. AT COMPLETION OF UNDERGROUND CONDUIT INSTALLATION, PULL A FLEXIBLE MANDREL (12 INCHES LONG BY A DIAMETER 1/4 IN. LESS THAN THE INSIDE DIAMETER OF THE CONDUIT) THROUGH EACH CONDUIT, FOLLOWED BY A STIFF-BRISTLE BRUSH. CAP CONDUITS AT BOTH ENDS.
- S. CONDUITS SHALL NOT BE RUN THROUGH STRUCTURAL MEMBERS EXCEPT AS SPECIFICALLY DIRECTED IN WRITING BY THE STRUCTURAL ENGINEER.
- T. CONDUITS ABOVE FUTURE SUSPENDED CEILINGS SHALL BE INSTALLED AS HIGH AS POSSIBLE AGAINST THE STRUCTURE ABOVE.
- U. UNLESS OTHERWISE INDICATED, PLASTIC CONDUIT MAY BE USED IN CONCRETE SLABS OR MEMBERS, BELOW SLABS ON GRADE OR BELOW GRADE EXTERIOR TO BUILDINGS WITH MINIMUM 24 INCHES OF COVER. PROVIDE SEPARATE GROUND WIRE IN ALL RUNS. INCREASE CONDUIT AND PULL BOXES SIZES AS REQUIRED TO ACCOMMODATE THE ADDITIONAL CONDUCTORS. USE RIGID STEEL CONDUIT COATED WITH BITUMEN COMPOUD (OR WITH MINIMUM 40 MIL BONDED PVC PLASTIC COATING) AND ENCASED IN CONCRETE FOR BENDS AND RISERS TO GRADE FROM NON-METALLIC CONDUITS.
- 3.8 OUTLET BOXES
- A. OUTLET BOXES SHALL BE OF MINIMUM SIZE PER PART 2 OR LARGER AS REQUIRED BY NEC, EXCLUSIVE OF COVER RINGS.
- B. USE CAST METALLIC BOXES WHERE LEGALLY REQUIRED.
- C. USE SOLID TYPE GANG BOXES WHERE REQUIRED FOR MORE THAN TWO DEVICES OR FOR BARRIERED OUTLETS. USE CONCRETE BOXES FOR OUTLETS IN CONCRETE CONSTRUCTION. FOR BOXES NOT INDICATED, PROVIDE TYPES AND MOUNTINGS AS REQUIRED TO SUIT THE EQUIPMENT OR AS DIRECTED.
- D. SUPPORT RECESSED BOXES IN STUD PARTITIONS WITH GALVANIZED STEEL BOX HANGERS OF TYPES MADE SPECIFICALLY FOR THE PURPOSE.
- E. ALL BOXES SHALL BE OF PROPER CODE SIZE FOR NUMBER AND SIZES OF CONDUCTORS PASSING THROUGH OR TERMINATING THEREIN.
- F. PROVIDE COVERS OF THE TYPES MOST SUITABLE FOR THE FIXTURES OR DEVICES USED AT THE OUTLETS. IN BRICK, CONCRETE BLOCK, STONE OR TILE WALLS, USE SQUARE CORNERED TILE COVERS OF PROPER DEPTH TO PERMIT A FACING OF THE MATERIAL TO FRAME THE COVER. IN OUTLETS SUPPORTING LIGHTING FIXTURES, PROVIDE 3/8 IN. ADJUSTABLE FIXTURE STUDS.
- G. USE EXTENSION RINGS WITH BLANK COVERS FOR MAKING EXPOSED CONDUIT CONNECTIONS FROM FLUSH WALL OR CEILING OUTLET BOXES.
- H. USE OUTLET BOXES SERVING FIXTURES OR DEVICES AS PULL OR JUNCTION BOXES WHEREVER POSSIBLE. WHERE NOT POSSIBLE, LOCATE PULL AND JUNCTION BOXES IN ACCESSIBLE CEILINGS, IN ACCESSIBLE AREAS NOT SUBJECT TO PUBLIC VIEW OR ELSEWHERE AS DIRECTED. PULL OR JUNCTION BOXES SHALL NOT BE LOCATED IN FINISHED AREAS UNLESS APPROVED BY THE ARCHITECT.
- I. SINGLE GANG HANDY OR UTILITY BOXES MAY BE USED FOR SINGLE DEVICES AT ENDS OF RUNS.
- J. ALL OUTLET BOXES THAT FINISH TO AN EXPOSED MASONRY SURFACE SHALL HAVE 1-1/4 IN. DEEP PLASTER RINGS AND SHALL BE SET DEEP ENOUGH TO ALLOW A MASONRY FACING OVER THE PLASTER RING TO FRAME THE OPENING. PLASTER RINGS SHALL NOT BE GROUTED INTO EXPOSED MASONRY WALLS. CENTER OUTLET IN A COURSE OF MASONRY.
- K. TAKE PARTICULAR CARE IN LOCATING OUTLET BOXES IN ACOUSTICAL TILE, MASONRY, PANELING OR OTHER MODULAR TYPE FINISHES. WHERE ARCHITECT'S DOCUMENTS DO NOT DICTATE LOCATION OR CONTROL, CONSULT WITH TRADES CONCERNED SO THAT OUTLETS MAY BE SYMMETRICALLY PLACED IN THE FINISHED MODULE. CENTER OUTLETS HORIZONTALLY IN VERTICAL WALL PANELS AND VERTICALLY IN MASONRY COURSES. (ADJUST INDICATED HEIGHTS TO SUIT.)
- L. FLUSH COUPLINGS SHALL BE REGULAR COUPLING WITH PLUMBER TYPE BRASS PLUG. INSTALL THIS PLUG FLUSH WITH FINISH FLOOR. USE OIL OR GREASE ON TOP OF AND IN THREADS TO PREVENT STICKING.
- M. ALL OUTLET BOXES SHALL BE ACCURATELY PLACED AND SECURELY FASTENED TO THE STRUCTURE INDEPENDENTLY OF THE CONDUIT. THE PLASTER RING SHALL BE SET FLUSH WITH THE FINISH SURFACE OF THE CEILING OR WALL. APPROVED BAR HANGERS SHALL BE USED TO SUPPORT OUTLET BOXES IN ALL FURRED CEILINGS AND STUD WALLS. HANGERS FOR LIGHT OUTLETS SHALL HAVE ADJUSTABLE STUDS.
- N. BEFORE ROUGHING IN BOXES FOR SWITCHES AT DOORS, CONTRACTOR SHALL VERIFY DOOR SWING TO MAKE SURE THAT SWITCH IS ON THE STRIKE SIDE OF DOOR.
- O. CROUSE-HINDS "CONDULETS" SHALL BE USED FOR ALL SWITCHES, RECEPTACLES AND JUNCTION BOXES WHERE CONDUIT IS EXPOSED.
- P. OUTLETS SHALL NOT BE INSTALLED BACK-TO-BACK, BUT SHALL BE OFFSET 12" MINIMUM.
- 3.9 SHEET STEEL PULL BOXES
- A. WHERE INDICATED OR REQUIRED TO SERVE AS PULL BOXES OR JUNCTION BOXES, PROVIDE SHEET STEEL BOXES WITH SCREW-ON COVERS FOR SURFACE OR FLUSH MOUNTING.
- 3.10 CONDUCTORS
- A. STORE CONDUCTORS OUT OF THE WEATHER AND WHERE NOT SUBJECT TO DAMAGE OR DELETERIOUS CONDITIONS.
- B. BEFORE INSTALLING CONDUCTORS, REMOVE DEBRIS AND MOISTURE FROM CONDUIT AND EQUIPMENT ENCLOSURES. WHERE NECESSARY USE LINSEED SOAP, MINERALLAC OR OTHER SPECIFICALLY APPROVED WIRE PULLING COMPOUND TO FACILITATE THE INSTALLATION OF CONDUCTORS. DO NOT USE OIL, GREASE OR SIMILAR SUBSTANCES.
- C. COLOR CODE BRANCH CIRCUITS AS REQUIRED BY LOCAL AUTHORITIES AND SHALL BE CONTINUOUS FROM OUTLET TO OUTLET, PULL BOX OR CABINET.
- D. CONNECT CONTROL WIRING AS INDICATED AND IN ACCORDANCE WITH WIRING DIAGRAMS FURNISHED BY EQUIPMENT MANUFACTURERS. COLOR CODE AND TAG ALL CONTROL WIRING.
- E. MAKE JOINTS, SPLICES, TAPS AND CONNECTIONS FOR 600 VOLT CONDUCTORS WITH SOLDER LESS CONNECTORS.
- F. RE-TIGHTEN BOLT TYPE CONNECTORS 24 TO 48 HOURS AFTER INSTALLATION AND BEFORE TAPING.
- G. CONNECTORS AND TERMINAL LUGS FOR STRANDED CONDUCTORS #6 AND LARGER SHALL BE T & B OR EQUAL, SOLDER LESS CONNECTORS. NO SPLICES OF FEEDER CONDUCTORS SHALL BE MADE IN PANELS OR SWITCHBOARDS.
- H. MAKE ALL CONNECTIONS AND SPLICES NECESSARY TO PROPERLY INSTALL AND COMPLETE THE WORK, AND ALL SPLICES SHALL BE TAPED. ALL CONNECTIONS AND SPLICES SHALL BE ELECTRICALLY AND MECHANICALLY PERFECT, AND IN STRICT ACCORDANCE WITH ALL CODE REQUIREMENTS. USE 3M SCOTCH "NO. 33 PLUS" TAPE, OR EQUAL. FOR CONNECTIONS IN WEATHERPROOF BOXES AND EXTERIOR LIGHT FIXTURES PROVIDE A 3M SCOTCH CAST KIT.
- I. CONNECTIONS MADE WITH NON-INSULATED TYPE CONNECTORS SHALL BE TAPED WITH RUBBER-TAPE 1-1/2 TIMES THE THICKNESS OF THE CONDUCTORS INSULATION. THEN COVERED WITH 3M SCOTCH "NO. 33 PLUS" TAPE, OR EQUAL.
- J. NEATLY ARRANGE AND LACE CONDUCTORS IN SWITCHBOARDS, PANEL BOARDS, GUTTERS AND TERMINAL CABINETS BY MEANS OF NYLON T & B "TY-RAP" TIES.



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LOS ANGELES, CA 90016

C-JAIME-001					
#	DESCRIPTION	DATE			
	1ST SUBMITTAL	10/04/21			
	UTILITY COORDINATION	04/08/22			
Λ	PC RESUBMITTAL	05/18/22			
Δ	PC RESUBMITTAL	10/28/22			
$\underline{\land}$	HCD REVISION 1	12/16/22			
Δ	PC RESUBMITTAL	02/02/23			
$\overline{\mathbb{A}}$	HCD & PC RESUBMITTAL	06/06/23			
$\underline{\land}$	hcd resubmittal	06/14/23			
\triangle	PC RESUBMITTAL	07/10/23			
$\boxed{\$}$	CLIENT REVISIONS	07/11/23			
\land	CLIENT REVISIONS	08/04/23			
$\sqrt{2}$	PC RESUBMITTAL (ELEC)	09/12/23			
\triangle	PC RESUBMITTAL (ELEC)	10/05/23			
Λ	CLIENT REVISIONS	10/12/23			
Plot Date: 10/11/2023 4:25:34					

SHEET TITLE:

ELECTRICAL SPECIFICATIONS

SHEET NO:



3.11 TOGGLE SWITCHES

- A. ALL SWITCHES SHALL BE SPECIFICATION GRADE RATED 15, 20 OR 30 AMPERES AT 277 VOLT AC, TOTALLY ENCLOSED QUIET ACTION TYPE, 1 OR 2 POLE, 3 OR 4 WAY, MOMENTARY CONTACT OR LOCK TYPE AS REQUIRED. THE 15 AMPERE RATED SWITCH MAY BE USED ONLY FOR LIGHTING LOADS OF LESS THAN 10 AMPERES. SWITCHES AHEAD OF MOTORS SHALL BE HORSEPOWER RATED AND SHALL HAVE NUMBER OF POLES AS REQUIRED. TOGGLE COLORS SHALL BE AS SELECTED BY THE ARCHITECT.
- B. FOR FLUSH-MOUNTED WEATHERPROOF SWITCHES, PROVIDE SWITCHES AS LISTED ABOVE WITH GASKETED STAINLESS STEEL LIFT COVERPLATE; PASS & SEYMOUR WP SERIES. WHERE SURFACE MOUNTED, USE CAST BOX WITH GASKETED CAST ALUMINUM LIFT COVERPLATE; HUBBELL NO. 7420.

3.12 RECEPTACLES

- A. WHERE SINGLE RECEPTACLES ARE INDICATED, PROVIDE MATCHING UNITS TO THOSE LISTED FOR DUPLEX RECEPTACLES. PROVIDE SHORT STRAP UNITS WHERE REQUIRED FOR PANEL MOUNTING.
- B. MOUNT ALL WEATHERPROOF RECEPTACLES HORIZONTALLY WITH HINGE ON TOP.

3.13 COVER PLATES

- A. PROVIDE PLATES FOR ALL OUTLET BOXES AND FITTINGS OF ALL SYSTEMS EXCEPT AT OUTLETS WHERE FIXTURE CANOPIES ARE USED.
- B. PROVIDE WEATHERPROOF COVERS ON WEATHERPROOF DEVICES. USE CAST GASKETED COVERS FOR EXTERIOR PULL OR JUNCTION OUTLET BOXES OR FITTINGS.

3.14 LIGHTING SYSTEM

- A. LIGHTING FIXTURES SHALL HAVE ALL PARTS AND FITTINGS NECESSARY TO COMPLETELY INSTALL THE FIXTURES. WIRING RUNNING IN FIXTURES SHALL BE TYPE "THHN". FIXTURES SHALL BE EQUIPPED WITH LAMPS OF SIZE AND TYPE AS SHOWN IN THE FIXTURE SCHEDULE. ITEMS OF TRIM OR DECORATION SHALL BE SUPPLIED AND PROPERLY INSTALLED AFTER OTHER TRADES HAVE FINISHED THEIR WORK AND CLEANED THE AREA.
- B. ALL LIGHT FIXTURES INSTALLED OUTDOORS IN LOCATIONS PROTECTED FROM THE WEATHER (AS UNDER CANOPIES) SHALL BE RATED FOR OUTDOOR USE, GASKETED AND FINISHED WITH AN EPOXY TYPE PAINT OR OTHER APPROVED CORROSION RESISTANT FINISH.
- C. SURFACE MOUNTED FIXTURES AND OUTLETS FOR SURFACE MOUNTED FIXTURES ARE SHOWN DIAGRAMMATIC ALLY ON DRAWINGS AND SHALL BE LOCATED SO AS TO CLEAR ALL DOOR SWINGS INCLUDING CABINET DOOR SWINGS. WHERE IT IS NOT POSSIBLE TO CLEAR A DOOR SWING, THE CONTRACTOR SHALL VERIFY CLEARANCES ABOVE THE TOP OF THE DOOR WITH ARCHITECTURAL DRAWINGS, DETAILS, SECTIONS, ELEVATIONS AND DOOR SCHEDULES. TYPICAL THROUGHOUT PROJECT.

3.15 SIGNAL CONDUIT SYSTEM

- A. SIGNAL OUTLETS IN SOLID WALLS SHALL BE 4-11/16" SQUARE, AT LEAST 2-1/8" DEEP WITH SINGLE GANG 1/2" DEEP PLASTER RING. RATINGS FOR OUTLETS IN FIRE RATED WALLS SHALL EXCEED THE WALL RATING.
- B. OUTLETS IN HOLLOW WALLS SHALL BE SINGLE GANG PLASTER RING. STRAP CONDUIT ADJACENT TO OUTLET AND TERMINATE WITH CABLE BUSHING.
- C. SIGNAL CONDUITS SHALL BE 3/4" MINIMUM SIZE UNLESS OTHERWISE INDICATED ON THE DRAWINGS AND SHALL BE EMT OR RIGID GALVANIZED STEEL. 3/4" AND 1" CONDUIT BENDS SHALL HAVE 12" MINIMUM RADIUS. 1-1/4" AND LARGER CONDUIT SHALL HAVE 30" MINIMUM RADIUS. NO COUPLING SHALL BE PLACED IN BENDS. EACH RUN OF CONDUIT SHALL HAVE A MAXIMUM OF TWO 90 DEGREE BENDS. INSTALL ADDITIONAL PULL BOXES IF MORE THAN TWO BENDS ARE REQUIRED PER RUN. WHERE CONDUIT ENTERS BUILDING, KEEP CONDUIT FREE IF MORE THAN TWO BENDS ARE REQUIRED PER RUN. WHERE CONDUIT ENTERS BUILDING, KEEP CONDUIT FREE OF CONTACT WITH REINFORCING STEEL AND OTHER METALLIC STRUCTURES OR PIPE.
- D. INSTALL 1/2" CONDUIT FROM TELEPHONE BACKBOARD TO NEAREST COLD WATER PIPE IN AN ACCESSIBLE LOCATION, AND 1"C-1 #6 TO GROUNDING BOX.

3.16 PLYWOOD BACKBOARDS

A. FOR TELEPHONE OR COMMUNICATIONS SYSTEM TERMINALS OR FOR MOTOR CONTROL OR OTHER EQUIPMENT ASSEMBLIES, PROVIDE BACKBOARDS OF SIZE INDICATED OR LARGER IF REQUIRED.

3.17 NAMEPLATES

- A. PROVIDE A NAMEPLATE FOR EACH TRANSFORMER, SWITCHBOARD, DISTRIBUTION BOARD, MOTOR CONTROL CENTER, PANELBOARD, TERMINAL CABINET, BACKBOARD, INDIVIDUALLY MOUNTED CIRCUIT BREAKER OR MOTOR CONTROL, DISCONNECT SWITCH, PULL BOX, CONTROL PANEL, RELAY, AND FOR ANY OTHER CONTROL DEVICE OR MAJOR ITEM OR ELECTRIAL EQUIPMENT.
- B. PROVIDE BLACK-ON-WHITE LAMINATED, PLASTIC MICARTA NAMEPLATE ENGRAVED IN MINIMUM 1/4 IN. HIGH LETTERS TO CORRESPOND WITH THE DESIGNATION ON DRAWINGS. PROVIDE OTHER OR ADDITIONAL INFORMATION ON NAMEPLATES WHERE INDICATED.
- C. ATTACH NAMEPLATES TO EQUIPMENT WITH RIVETS, BOLTS, SHEET METAL SCREWS OR INSTALL IN METAL HOLDERS WELDED TO THE EQUIPMENT.

3.18 GROUNDING & BONDING

- A. GROUND THE NEUTRAL OF EACH ISOLATED ELECTRICAL SYSTEM HAVING A NEUTRAL CONDUCTOR WITH A SYSTEM GROUND CONNECTION SIZED AS REQUIRED.
- B. FOR THE SYSTEM GROUND CONNECTION, PROVIDE A GREEN COLOR INSULATED COPPER CONDUCTOR IN A RIGID STEEL CONDUIT TO THE GROUND ELECTRODE. CONNECT THE CONDUIT AND CONDUCTOR TO THE ELECTRODE WITH A MALLEABLE IRON CONDUIT HUB AND A 2-BOLT GROUND CLAMP.
- C. WHERE THE COLD WATER PIPING SYSTEM IS UNSUITABLE FOR USE AS A GROUNDING ELECTRODE AND WHERE LOCAL CODE PERMITS, PROVIDE COPPER-CLAD MULTIPLE-ROD ELECTRODES COMPLYING WITH ALL LEGAL REQUIREMENTS INCLUDING ROD SIZE, SPACING ACCESSIBILITY AND RESISTANCE TO GROUND.
- D. USE THE CONDUIT SYSTEM FOR EQUIPMENT AND ENCLOSURE GROUNDING. PROVIDE A GREEN COLOR INSULATED GROUND CONDUCTOR OF CODE SIZE WITHIN THE CONDUIT AND TERMINATE PROPERLY TO THE EQUIPMENT ENCLOSURE AT EACH END. (USE SEPARATE GROUND BUS BARS IN ALL PANEL BOARDS AND SWITCHBOARDS.) INCREASE CONDUIT, FITTINGS AND PULLBOX SIZES AS REQUIRED TO ACCOMMODATE THE ADDITIONAL CONDUCTOR.
- E. PROVIDE BONDING DEVICES, FITTINGS OR JUMPERS AT EXPANSION FITTINGS OR WHEREVER CONTINUITY OF GROUNDING IS NOT CERTAIN OR WHERE REQUIRED BY INSPECTING AUTHORITIES.
- F. PROVIDE A COMPLETE GROUDING AND BONDING INSTALLATION IN ACCORDANCE WITH ALL REQUIREMENTS OF APPLICABLE CODES AND ORDINANCES WHETHER SPECIFICALLY INDICATED OR NOT.
- G. GROUND RESISTANCE SHALL NOT BE GRATER THAN CODE REQUIREMENTS, AND SUPPLEMENTARY GROUNDING FACILITIES SHALL BE PROVIDED, IF REQUIRED, TO MAINTAIN MINIMUM RESISTANCE VALUE AS REQUIRED BY THE LOCAL ELETRICAL INSPECTOR.
- H. CONNECTION FROM THE GROUND TO THE EQUIPMENT SHALL BE MADE IN PERMANENTLY ACCESSIBLE LOCATIONS BY APPROVED TYPES OF BOLTED OR CLAMPED SOLDERLESS CONNECTORS WITH STRANDED COPPER CONDUCTORS. SOLDERED CONNECTIONS OR LUGS SHALL NOT BE USED.

3.19 SUPPORTS

- A. PROVIDE ALL NECESSARY FOUNDATIONS, SUPPORTS AND BACKING FOR ALL ENCLOSURES, CONDUITS EQUIPMENT, OUTLETS, DEVICES AND LIGHTING FIXTURES.
- B. ATTACH ALL BOXES, OUTLET BOXES, STRAPS, CABINETS AND EQUIPMENT TO WOOD WITH WOOD OR LAG SCREWS, TO METAL WITH MACHINE SCREWS OR BOLTS, AND TO CONCRETE WITH EXPANSION ANCHORS OR SELF-DRILLING METAL ANCHORS, AND WITH MACHINE SCREWS OR BOLTS. USE SIZE AND NUMBER OF ATTACHMENTS AS REQUIRED TO SUPPORT EQUIPMENT WEIGHT WITH A MINIMUM SAFETY FACTOR OF 4 TO 1.
- C. SECURE FLOOR MOUNTED EQUIPMENT TO FLOOR WITH MACHINE BOLTS AND ANCHORS.
- D. PROVIDE STRUCTURAL CONCRETE BASES FOR LIGHTING POLES PER STRUCTURAL ENGINEER'S AND MANUFACTURER'S RECOMMENDATIONS AS SHOWN ON THE DRAWINGS.
- E. CONTRACTOR SHALL VERIFY ALL MOUNTINGS AND INSTALLATIONS TO CONFORM TO CALIFORNIA SEISMIC REQUIREMENTS.

3.20 SEISMIC DESIGN AND ANCHORING OF ELECTRICAL EQUIPMENT:

- A. SEISMIC PROTECTION CRITERIA: ALL ELECTRICAL AND MECHANICAL MACHINERY INSTALLATIONS PROVIDED, AS PART OF THIS CONTRACT LOCATED IN ANY SEISMIC RISK ZONE OF THE UNIFORM BUILDING CODE SEISMIC RISK MAP SHALL BE PROTECTED FROM EARTHQUAKES IN ACCORDANCE WITH THE UNIFORM BUILDING CODE AND, AS APPLICABLE CBC CALIFORNIA BUILDING CODE ZONE 4 OR THE RESPECTIVE STATE AND LOCAL BUILDING CODES AND REGULATIONS. PROTECTION CRITERIA FOR THESE ZONES SHALL BE A HORIZONTAL FORCE FACTOR AS PRESCRIBED BY THE UBC MULTIPLIED BY THE MACHINERY WEIGHT CONSIDERED PASSING THROUGH THE MACHINERY CENTER OF GRAVITY IN ANY HORIZONTAL DIRECTION. UNLESS VIBRATION ISOLATION IS REQUIRED TO PROTECT MACHINERY AGAINST UNACCEPTABLE STRUCTURE TRANSMITTED NOISE AND/OR VIBRATION, MACHINERY SHALL BE PROTECTED FROM EARTHQUAKES BY RIGID STRUCTURALLY SOUND ATTACHMENT TO THE LOAD SUPPORTING STRUCTURE. THE FORCE FACTOR AND ANCHORAGE SHALL BE DETERMINED BY CALCULATIONS PERFORMED AND SUBMITTED TO THE ARCHITECT BY A REGISTERED CALIFORNIA PROFESSIONAL ENGINEER (CIVIL OR STRUCTURAL) HIRED BY THE CONTRACTOR. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DESIGN OF SEISMIC RESTRAINT SYSTEMS FOR ALL PIECES OF EQUIPMENT WEIGHING OVER 50 POUNDS INCLUDING BUT NOT LIMITED TO THE FOLLOWING:
- SWITCH GEAR
 CONDUITS/CONDUIT SUPPORT TRAPEZES
- 3. TRANSFORMERS
- PANELS
 LIGHT FIXTURES
- UPS, PDU, LIGHTING INVERTERS AND GENERATOR EQUIPMENT
 CABLE TRAY / FLEXIBLE CABLE TRAY / LADDER TRAY
- 8. BUS DUCT

B. SEISMIC PROTECTION, LABOR, MATERIALS AND DESIGN SHALL BE INCLUDED IN THE CONTRACT SUM.

3.21 TESTING

- A. ALL WIRING AND CONNECTIONS SHALL BE TESTED FOR CONTINUITY, SHORTS AND IMPROPER GROUNDS IN ACCORDANCE WITH THE REQUIREMENTS OF THE NATIONAL ELECTRICAL CODE. ALL RECEPTACLE OUTLETS SHALL BE TESTED FOR PROPER GROUNDING. ANY AND ALL REPAIRS RESULTING FROM THE TESTS OR PRELIMINARY OPERATION OF THE EQUIPMENT SHALL BE MADE BY THE CONTRACTOR AT HIS EXPENSE.
- B. REQUIRED TESTS, IN ADDITION TO THOSE MENTIONED ABOVE, INCLUDE BUT ARE NOT LIMITED TO:
- 1. GROUND RESISTANCE TEST.
- SERVICE AND FEEDER CONDUCTORS INSULATION RESISTANCE.
 GROUND FAULT PROTECTION.
- 4. SUCH OTHER TESTS AS MAY BE REQUIRED BY THE ARCHITECT.
- C. WHEN THE WORK IS SUBSTANTIALLY COMPLETE, CONDUCT A SERVICE VOLTAGE TEST AS FOLLOWS:
- 1. MEASURE SERVICE VOLTAGE AT NO LOAD AND AT MAXIMUM LOAD AND SUBMIT RESULTS TO ENGINEER.
- 2. IF IN THE OPINION OF THE ENGINEER THE VOLTAGES AND REGULATIONS ARE NOT WITHIN ACCEPTABLE LIMITS, NOTIFY THE SERVING UTILITIES FOR PROPER ELECTRICAL SERVICE AND THEN VERIFY THAT SUCH HAS BEEN ACCOMPLISHED.
- D. AFTER THE SERVICE VOLTAGE TEST, CONDUCT AN OPERATING TEST OF THE ELECTRICAL SYSTEM. THE SYSTEM SHALL:
- 1. OPERATE IN ACCORDANCE WITH REQUIREMENTS OF THE CONTRACT DOCUMENTS.
- 2. BE FREE OF ELECTRICAL AND MECHANICAL DEFECTS.
- E. UPON COMPLETION OF THE WORK, THE CONTRACTOR SHALL MAKE ADDITIONAL TESTS AS NECESSARY TO SATISFY THE OWNER AND THE ENGINEER OR HIS REPRESENTATIVE THAT THE TRUE INTENT AND MEANING OF THE DRAWINGS AND SPECIFICATIONS HAVE BEEN CARRIED OUT. CONTRACTOR SHALL PROVIDE ALL INSTRUMENTS AND LABOR NECESSARY TO MAKE SUCH TESTS. ANY WORK SHOWING FAULTS UNDER TEST, AND ANY WORK NOT IN ACCORDANCE WITH THE SPECIFICATIONS, SHALL BE MADE GOOD BY THE CONTRACTOR AT HIS OWN EXPENSE. SUCH TESTS MAY OCCUR AT ANYTIME DURING THE GUARANTEE PERIOD.

3.22 PROTECTION OF WORK

- A. PROTECT THE WORK FROM DAMAGE, DEFACEMENT OR DETERIORATION UNTIL FINALL ACCEPTANCE. PROVIDE STORAGE FACILITIES AND CONDUCT OPERATIONS TO THIS EFFECT.
- B. REPAIR OR REPLACE DAMAGED WORK AND BE RESPONSIBLE FOR CORRECTION OF ANY DAMAGE DONE IN THE PERFORMANCE OF WORK TO THE WORK OF OTHER TRADES.

3.23 HEATING, VENTILATION, AND AIR CONDITIONING

- A. REFER TO DIVISION 15 FOR ADDTIONAL REQUIREMENTS.
- B. FURNISH AND INSTALL ALL LINE AND LOW VOLTAGE CONDUITS AND WIRING, OUTLETS, DISCONNECT SWITCHES AND MANUAL TIMER SWITCHES REQUIRED FOR SPECIFIC OPERATION OF THE EQUIPMENT.
- C. CONNECT ALL MOTORS AND CONTROL EQUIPMENT.
- D. WIRING SHALL BE INSTALLED IN CONDUIT.

3.24 CLEANING

- A. KEEP ALL PARTS OF THE BUILDING AND SITE FREE FROM ANY ACCUMULATIONS OF RUBBISH OR WASTE MATERIALS. REMOVE ACCUMULATIONS AT FREQUENT INTERVALS.
- B. CLEAN EQUIPMENT, PANELBOARDS, SWITCHES, LIGHTING FIXTURES AND LAMPS. RESTORE FINISHED SURFACES TO THEIR ORIGINAL TEXTURE. POLISH PLATE SURFACES, METAL AND GLASS WORK.

END OF SECTION



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			
Λ	PC RESUBMITTAL	05/18/22			
Δ	PC RESUBMITTAL	10/28/22			
$\boxed{3}$	HCD REVISION 1	12/16/22			
	PC RESUBMITTAL	02/02/23			
$\overline{\underline{5}}$	HCD & PC RESUBMITTAL	06/06/23			
$\underline{\land}$	hcd resubmittal	06/14/23			
\triangle	PC RESUBMITTAL	07/10/23			
$\boxed{\$}$	CLIENT REVISIONS	07/11/23			
$\boxed{\land}$	CLIENT REVISIONS	08/04/23			
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Λ	CLIENT REVISIONS	10/12/23			
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SHEET TITLE:

ELECTRICAL SPECIFICATIONS

Sheet no:



_AN NOTES		KEY NOTES
CONTRACTOR TO COORDINATE WITH OTHER UTILITY COMPANIES, CIVIL ENGINEER AND LANDSCAPE ARCHITECT PRIOR TO COMMENCING WORK. THE FOLLOWING NOTES ARE MINIMAL/GENERAL SPECIFICATIONS TO ASSIST THE CONTRACTOR. UTILITY COMPANY PLANS SHALL TAKE PRECEDENCE OVER THESE NOTES AND SHALL BE USED BY THE CONTRACTOR TO COMPLETE AND INSTALL PRIMARY AND/OR SECONDARY FEEDS TO TERMINATE AT BUILDING'S TERMINAL EQUIPMENT:	 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 	 # NUMBERS INDICATE NOTES SHOWN ON PLAN PROPOSED TRANSFORMER LOCATION. SIZE OF UTILITY TRANSFORMER PAD PER ANGELES DEPARTMENT OF WATER AND POWER (LADWP) SPECIFICATIONS. VE EXACT LOCATION AND REQUIREMENTS WITH UTILITY COORDINATOR PRIOR TO INSTALLATION.
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.	I. BENDS OR SWEEPS THAT HAVE A RADIUS OF 80' OR LESS, SHALL BE ENCASED IN 2500 PSI CONCRETE.	2. PROVIDE MIN. OF 5" DIAMETER GALVANIZED PIPE BARRIER POST INSTALLED IN C FOUNDATION. COORDINATE EXACT LOCATION, REQUIREMENTS AND SPECIFIC WITH LADWP PRIOR TO INSTALLATION.
MINIMUM OF SIX INCHES (6") OF COMPACTED SAND, GRADED LEVEL IS REQUIRED UNDER ALL PULLBOXES, HANDHOLES AND SPLICE BOXES. SIX INCHES (6") OF GRAVEL,	J. ALL SITE BRANCH CIRCUIT SHALL INCLUDE AN NEC-SIZED EQUIPMENT GROUND CONDUCTOR.	3. CONTRACTOR TO VERIFY EXACT POINT OF CONNECTION AND REQUIREMENTS UTILITY COORDINATOR PRIOR TO BID AND INSTALLATION. CONTRACTOR SHAL IN BID, COST PER LINEAR FOOT FOR TRENCHING AND CONDUIT.
DRAIN ROCK OR BASE ROCK IS REQUIRED FOR MANHOLES. THE FLOOR MUST BE LEVEL AND FREE OF DEBRIS. PLACEMENT OF BOXES AND MANHOLES MUST ALLOW FOR FINAL GRADE OF NEW	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	4. PROVIDE REQUIRED CONDUIT UNDERGROUND ROUTED TO SERVICE ENTRANC EQUIPMENT "MS1" UNDERGROUND PULL SECTION. PROVIDE ADDITIONAL SPAR CONDUITS AS REQUIRED. CONTRACTOR TO VERIFY EXACT REQUIREMENTS WIT COORDINATOR AND LADWP PRIOR TO BID AND INSTALLATION.
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.	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	 REFER TO SINGLE-LINE DIAGRAM FOR COMPLETE FEEDER SIZE. PROVIDE 4'W X 8'H X 3/4" THICK BACKBOARD PAINTED WITH FIRE RETARDANT F COLOR TO MATCH SURROUNDING WALLS. PROVIDE 1/2"C, 1#6 GROUNDING
ALL PULLBOXES, SPLICE BOX AND MANHOLES PLACED BY THE OWNER SHALL BE MAINTAINED AND OWNED BY THE PROPERTY OWNER AND APPROVED BY THE UTILITY	UNIDENTIFIED CONDITIONS BE DISCOVERED. THESE DRAWINGS AND SPECIFICATIONS DO NOT INCLUDE THE NECESSARY ELEMENTS FOR CONSTRUCTION SAFETY.	 GROUNDING DETAIL #3 ON SHEET E402. 7. LIGHTING CONTROL PANEL "LCP1" TO BE MOUNTED ABOVE PANEL "HP1." PEEER TO SWITCHROADD ELEVATION ON SHEET E402 FOR DIMENSIONS.
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".	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.	 NO PIPING, DUCTS, OR EQUIPMENT FOREIGN TO ELECTRICAL EQUIPMENT SHAL PERMITTED TO BE LOCATED WITHIN THE DEDICATED SPACE ABOVE THE ELECTRI EQUIPMENT. ELECTRICAL ROOM DOOR(S) SHALL BE EQUIPPED WITH PANIC HARDING
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		 FOR EGRESSS AS REQUIRED BY NEC 110-26 (OR CEC WHERE ADOPTED). 10. CONDUITS SHALL BE BURIED MINIMUM 24" BELOW GRADE PER CEC TABLE 300 COORDINATE WITH STRUCTURAL FOR CONDUIT THROUGH FOUNDATION PRIOF INSTALLATION.







M.2	M.1	
_		
		ENGINEERING & CONSULTING, INC 30 THOMAS, IRVINE, CA 92618-2703 PHONE: (949) 716-9990 FAX: (949) 716-9997
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 l		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
	LEVEL 6 LIGHTING PLAN SCALE 1	UTILITY COORDINATION 04/08/22
	3/16" - 1'-0"	$\begin{array}{c c} \underline{\land} & PC RESUBMITTAL & 05/18/22 \\ \hline \underline{\land} & PC RESUBMITTAL & 10/28/22 \\ \end{array}$
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OF ALL		PC RESUBMITTAL 02/02/23
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411 AND)FD WITH		LIGHTING PLAN
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		E106

	PLAN NOTES	k	CEY NOTES
)m OR 98 END	A. ALL RECEPTACLES ON COMMON WALLS SHALL HAVE SEPARATE BOXES AND A 24" MINIMUM OFFSET.	#	NUMBERS INDICATE NOTES SHOWN ON PLAN
CEPTABLE.	B. AN APPROVED FIRESTOP SYSTEM EQUAL TO OR GREATER THAN THE FIRE RATING OF THE	1.	PROVIDE 40A, 208V, $1 \overline{0}$ FOR EV CHARGING STATION WITH 3/4"C, 2#8, & 1#1
	WALL SHALL BE PROVIDED AT ALL PENETRATIONS THROUGH FIRE-RATED WALLS.	2.	LIGHTING CONTROL PANEL "LCP1" TO BE MOUNTED ABOVE PANEL "HP1."
CONDUIT AMETER	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.E.C.L.	3.	REFER TO MECHANICAL EQUIPMENT SCHEDULE ON SHEET E207 FOR FEEDER/B CIRCUIT INFORMATION.
OVE THE	 D. ALL UNDERGROUND CONDUITS SHALL BE PVC SCHED. 40, MINIMUM 3/4"C. RUN CODE-SIZED INSULATED EQUIPMENT GROUND CONDUCTOR. 	4.	PROVIDE 250A/3P, 208V, 3Ø ENCLOSED CIRCUIT BREAKER WITH SHUNT TRIP. F TO SHUNT TRIP RELAY AS REQUIRED. SHUNT TRIP RELAY/MODULE SHALL BE RO NORMALLY OPEN FIRE ALARM RELAY PER FIRE ALARM DRAWINGS. COORDIN REQUIREMENTS WITH FIRE ALARM VENDOR / INSTALLER PRIOR TO ROUGH-IN
NTER NSURE VOR		5.	PROVIDE 1/2" C.O.(S) FOR LOCAL AREA THERMOSTAT CONTROL AND CONNE FACP FOR HVAC SHUTDOWN AS REQUIRED. REFER TO THE MECHANICAL DRA EQUIPMENT CONTROL WIRING DIAGRAMS FOR MORE INFORMATION.
OXES FOR		6.	PROVIDE 120V POWER AND TO SECURITY KEYPAD AND STUB 1"C WITH PULL-ST SECURITY PANEL. COORDINATE EXACT LOCATION AND REQUIREMENTS WITH VENDOR PRIOR TO ROUGH-IN.
D. ESSIBLE		7.	PROVIDE 120V, 30A POWER WITH 1/2"C, 2#10, 1#10G TO WATER HEATER WH- COORDINATE EXACT LOCATION AND REQUIREM,ENTS WITH PLUMBING PRIOR ROUGH-IN.
		8.	FAN COIL UNIT (FC-1) SHALL BE POWERED BY CONDENSING OUTDOOR UNIT C COORDINATE EXACT LOCATION AND REQUIREMENTS WITH MECHANICAL PRI ROUGH-IN.
		9.	PROVIDE 120V TO FIRE-SMOKE DAMPER AND SMOKE DETECTOR. COORDINAT LOCATION WITH MECHANICAL PRIOR TO ROUGH-IN.
		10	PROVIDE 120V POWER TO STAND-BY GENERATOR'S BATTERY CHARGER. COC EXACT LOCATION AND REQUIREMENTS WITH GENERATOR MANUFACTURER PF ROUGH-IN.
		11	. PROVIDE 120V POWER TO STAND-BY GENERATOR'S JACKET WATER HEATER. C EXACT LOCATION AND REQUIREMENTS WITH GENERATOR MANUFACTURER PR ROUGH-IN.
		A ¹²	2. REFER TO GENERATOR SPECIFICATIONS AND CUT SHEET ON E406 & E407 FOR S MORE INFORMATION.
		13	 ROUTE CIRCUIT VIA GFCI BREAKER. REFER TO RESPECTIVE PANEL SCHEDULE FOR INFORMATION.

И.2	M.1	
3 3		
	Private Balcony 143 SF	ENGINEERING & CONSULTING, INC 30 THOMAS, IRVINE, CA 92618-2703 PHONE: (949) 716-9990 FAX: (949) 716-9997
		STAMP:
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		CLIENT: JAIME PARTNERS OF CALIFORNIA, INC.
		1050 S. FLOWER STREET LOS ANGELES, CA 90015
		2853 WEST BLVD LOS ANGELES, CA 90016
		C-JAIME-001
		# DESCRIPTION DATE 1ST SUBMITTAL 10/04/21
	LEVEL 2 POWER PLAN SCALE 1	UTILITY COORDINATION 04/08/22
	KEY NOTES	A PC RESUBMITTAL 10/28/22 3 HCD REVISION 1 12/16/22
24''	 # NUMBERS INDICATE NOTES SHOWN ON PLAN 1. J-BOX TO BE PLACED IN ACCESSIBLE CEILING FOR CONNECTION TO MODULAR UNIT'S 	A PC RESUBMITTAL 02/02/23 A HCD & PC RESUBMITTAL 06/06/23
	LOAD CENTER. 2. CONNECTION TO MODULAR UNIT'S LOAD CENTER TO BE COMPLETED ON SITE THROUGH UNIT'S CORRIDOR SPACE.	$\frac{1}{2}$ $\frac{1}$
HIN 6 FEET IN	 J-BOX IN ACCESSIBLE CEILING FOR BRANCH CIRCUITS FROM MODULAR UNIT'S LOAD CENTER TO DEVICES/LOADS. UP TO (4) BRANCH CIRCUITS PER J-BOX. PROVIDE AS REQUIRED PER LINIT PLANS. 	PC RESUBMITTAL07/10/23SCLIENT REVISIONS07/11/23
	 SEE SHEET E203 FOR BRANCH CIRCUIT CONTINUATION. REFER TO MECHANICAL EQUIPMENT SCHEDULE ON SHEET E207 FOR MOTOR 	CLIENT REVISIONS 08/04/23 Chiene Chien
	 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 	APC RESUBMITTAL (ELEC)10/05/23ACLIENT REVISIONS10/12/23
	EQUIPMENT CONTROL WIRING DIAGRAMS FOR MORE INFORMATION.	Plot Date: 10/11/2023 4:28:48 PM
	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.	LEVEL ∠ POWER PLAN
	10. PROVIDE 120V TO FIRE ALARM SYSTEM'S "PBS". COORDINATE EXACT LOCATION AND REQUIREMENTS WITH FIRE ALARM CONSULTANT / INSTALLER PRIOR TO ROUGH-IN.	
		SHEET NO:
		E202

	C-JAIME-001					
#	DESCRIPTION	DATE				
	1ST SUBMITTAL	10/04/21				
	UTILITY COORDINATION	04/08/22				
Λ	PC RESUBMITTAL	05/18/22				
	PC RESUBMITTAL	10/28/22				
$\underline{\mathbb{A}}$	HCD REVISION 1	12/16/22				
Δ	PC RESUBMITTAL	02/02/23				
$\overline{\mathbb{A}}$	HCD & PC RESUBMITTAL	06/06/23				
$\underline{\mathbb{A}}$	hcd resubmittal	06/14/23				
\triangle	PC RESUBMITTAL	07/10/23				
$\underline{\textcircled{8}}$	CLIENT REVISIONS	07/11/23				
$\boxed{\land}$	CLIENT REVISIONS	08/04/23				
$\overline{\mathbb{A}}$	PC RESUBMITTAL (ELEC)	09/12/23				
$\overline{\mathbb{A}}$	PC RESUBMITTAL (ELEC)	10/05/23				
Λ	CLIENT REVISIONS	10/12/23				
Plot	Date: 10/11/2023	4:16:39 PM				

M.2	M.1	
3 E301		
	Private Balcony 143 SF	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
	HENON	LOS ANGELES, CA 90016C-JAIME-001#DESCRIPTIONDATE11ST SUBMITTAL10/04/21
L	EVEL 5 POWER PLAN SCALE 1	UTILITY COORDINATION04/08/22Image: Constraint of the second seco
A 24" IG OF THE S. H THIN 6 FEET UN KEY NC # NUMBERS INE 1. J-BOX TO BE P LOAD CENTER 2. CONNECTION UNIT'S CORRID 3. J-BOX IN ACC CENTER TO DE REQUIRED PER 4. REFER TO SHEE 5. REFER TO SHEE 6. REFER TO MEC FEEDER/BRANK 7. PROVIDE 1/2" FACP FOR HV/ EQUIPMENT CO 8. PROVIDE 1/20V UN 9. PROVIDE 120V LOCATION AN 10. PROVIDE 120V COORDINATE ROUGH-IN. 3	DICATE NOTES SHOWN ON PLAN LACED IN ACCESSIBLE CEILING FOR CONNECTION TO MODULAR UNIT'S TO MODULAR UNIT'S LOAD CENTER TO BE COMPLETED ON SITE THROUGH bor SPACE. ESSIBLE CEILING FOR BRANCH CIRCUITS FROM MODULAR UNIT'S LOAD VICES/LOADS. UP TO (4) BRANCH CIRCUITS PER J-BOX. PROVIDE AS UNIT PLANS. ET E206 FOR BRANCH CIRCUIT CONTINUATION. ET E204 FOR BRANCH CIRCUIT CONTINUATION. C.O. (5) FOR LOCAL AREA THERMOSTAT CONTROL AND CONNECTION TO AC SHUTDOWN AS REQUIRED. REFER TO THE MECHANICAL DRAWINGS OR ONTROL WIRING DIAGRAMS FOR MORE INFORMATION. (* TO RECIRC PUMP "CP-1", VERIFY EXACT LOCATION AND REQUIREMENTS G PRIOR TO ROUGH-IN. (* TO FIRE-SMOKE DAMPER AND SMOKE DETECTOR. COORDINATE EXACT ID REQUIREMENTS WITH MECHANICAL PRIOR TO ROUGH-IN. (* TO (5) REMOTE PULSE METER READERS FOR UTILITY WATER SUB-METERING. EXACT LOCATION AND REQUIREMENTS WITH PLUMBING PRIOR TO	ΔPC RESUBMITTAL10/28/22ΔHCD REVISION 112/16/22ΔPC RESUBMITTAL02/02/23ΔHCD & PC RESUBMITTAL06/06/23ΔHCD RESUBMITTAL06/14/23ΔPC RESUBMITTAL07/10/23ΔCLIENT REVISIONS07/11/23ΔCLIENT REVISIONS09/12/23ΔPC RESUBMITTAL (ELEC)09/12/23ΔPC RESUBMITTAL (ELEC)10/12/23ΔCLIENT REVISIONS10/12/23Pto Date:10/11/2023 4:12:02 PMSHEET TITLE:LEVEL 5 POWER PLANSHEET NO:
		E2U3

.2	M.1	
		NATIONAL ENGINEERING & CONSULTING, INC 30 THOMAS, IRVINE, CA 92618-2703 PHONE: (949) 716-9990 FAX: (949) 716-9997
		COBINGCO E-14492 COF CALIFORNIA OF CALIFORNIA
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 		CLIENT: JAIME PARTNERS OF CALIFORNIA, INC.
		1050 S. FLOWER STREET LOS ANGELES, CA 90015
0		PROJECT:
 		2853 WEST BLVD
		LOS ANGELES, CA 90016
 I		C-JAIME-001
	NORT	# DESCRIPTION DATE
\triangle		UTILITY COORDINATION 04/08/22
		$ \begin{array}{ c c c c } \hline & & PC RESUBMITTAL & 05/18/22 \\ \hline & & PC RESUBMITTAL & 10/28/22 \\ \hline \end{array} $
	NOIES	A HCD REVISION 1 12/16/22
OF THE LOAD CE	BE PLACED IN ACCESSIBLE CEILING FOR CONNECTION TO MODULAR UNIT'S NTER.	$\frac{4}{3} PC \text{ RESUBMITAL} 02/02/23$ $\frac{4}{3} HCD \& PC \text{ RESUBMITAL} 06/06/23$
2. J-BOX IN CENTER T	ACCESSIBLE CEILING FOR BRANCH CIRCUITS FROM MODULAR UNIT'S LOAD O DEVICES/LOADS. UP TO (4) BRANCH CIRCUITS PER J-BOX. PROVIDE AS	AHCD RESUBMITTAL06/14/23APC RESUBMITTAL07/10/23
3. REFER TO	SHEET E205 FOR BRANCH CIRCUIT CONTINUATION.	CLIENT REVISIONS 07/11/23
5. PROVIDE	N WITH MECHANICAL PRIOR TO ROUGH-IN. 120V TO (1) REMOTE PULSE METER READER FOR UTILITY WATER SUB-METERING.	$\frac{29}{12}$ CLIENT REVISIONS 08/04/23 $\frac{1}{12}$ PC RESUBMITTAL (ELEC) 09/12/23
A REFER TO	NATE EXACT LOCATION AND REQUIREMENTS WITH PLUMBING PRIOR TO N. MECHANICAL EQUIPMENT SCHEDULE ON SHEET F207 FOR MOTOR	APC RESUBMITTAL (ELEC)10/05/23ACLIENT REVISIONS10/12/23
FEEDER/B 7. 7.PROVIE	RANCH CIRCUIT INFORMATION. DE 1/2" C.O.(S) FOR LOCAL AREA THERMOSTAT CONTROL AND CONNECTION	Plot Date: 10/11/2023 4:23:39 PM
OR EQUIF	MENT CONTROL WIRING DIAGRAMS FOR MORE INFORMATION.	SHEET TITLE: LEVEL 6 POWER PLAN
		SHEET NO: E206

	ME	CH.	AN	CA	LE	QU	IPMENT	SCHE	DULE
	UNIT	V/P	HP/W	FLA	МСА	моср	DISC. SIZE/ FUSE SIZE	FEEDER	keyed Notes
	HP 1	230-1	_ 4	A _{28.8}	36	40	60AS/40AF 2P, WP	3/4"C, 2#8, 1#8G	A A
	EF 1	120-1	73W	0.61	0.76	15	™ \$ ₩₽	1/2"C, 2#12, 1#12G	(A E
	EF 2	120-1	1/6	4.4	NC	DT₅ L	JSED	1/2"C, 2#12, 1#12G	
	CEF 1	115-1	-	.31	0.39	15	^M ş	1/2"C, 2#12, 1#12G	A
Λ	CEF 2	115-1	-	.32	0.4	15	^M \$	1/2"C, 2#12, 1#12G	A
	CEF 3	115-1	-	4.75	5.9	15	^M \$	1/2"C, 2#12, 1#12G	A F
\sim		115-1	1/4	5.8	7.25	15	\$ \$	~1/2°C, 2#12,~ 1#12G	A F
	CU 1	208-1	-	13.6	17	30	30AS/30AF 2P, WP	1/2"C, 2#10, 1#10G	A
NG	FC 1	208-1	-	-	-	-	30AS 2P	1/2"C, 2#10, 1#10G	ACD

M.2	M. 	1	
			NATIONAL ENGINEERING & CONSULTING, INC 30 THOMAS, IRVINE, CA 92618-2703 PHONE: (949) 716-9990 FAX: (949) 716-9997
	©		STAMP: COB INGCO FILLER COB INGCO FILLER COB INGCO FILLER FILLE
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	Ф Т		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
ANICAL TYPE. DRNIA CI TYPE.	 # NUMBERS INDIC 1. REFER TO MECH/ INFORMATION. 2. PROVIDE 1/2" C. FACP FOR HVAC EQUIPMENT CON 	ROOF PLAN SCALE 1 3/16" - 1'-0" 1 TES CATE NOTES SHOWN ON PLAN ANICAL EQUIPMENT SCHEDULE FOR MOTOR FEEDER/BRANCH CIRCUIT C.(S) FOR LOCAL AREA THERMOSTAT CONTROL AND CONNECTION TO SHUTDOWN AS REQUIRED. REFER TO THE MECHANICAL DRAWINGS OR UROL WIRING DIAGRAMS FOR MORE INFORMATION.	1ST SUBMITTAL10/04/21UTILITY COORDINATION04/08/22APC RESUBMITTAL05/18/22APC RESUBMITTAL10/28/22APC RESUBMITTAL10/28/22APC RESUBMITTAL10/28/22APC RESUBMITTAL02/02/23APC RESUBMITTAL02/02/23APC RESUBMITTAL06/06/23APC RESUBMITTAL06/06/23APC RESUBMITTAL06/14/23APC RESUBMITTAL07/10/23ACLIENT REVISIONS07/11/23ACLIENT REVISIONS08/04/23
			PC RESUBMITTAL (ELEC) 09/12/23 PC RESUBMITTAL (ELEC) 10/05/23 CLIENT REVISIONS 10/12/23 Plot Date: 10/11/2023 4:13:09 PM SHEET TITLE: ROOF PLAN
			SHEET NO: E207

3. PROVIDENT OF SED UTS "9,11"; 3#12, FOR CIRCUITS "13 & 15". ALL CIRCUITS TO UTILIZE TO UTILIZE OF SED UTS "9,11"; 3#12, FOR CIRCUITS "13 & 15".

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PROJECT:

2853 WEST BLVD

LOS ANGELES, CA 90016

	C-JAIME-001			
#	DESCRIPTION	DATE		
	1ST SUBMITTAL	10/04/21		
	UTILITY COORDINATION	04/08/22		
Λ	PC RESUBMITTAL	05/18/22		
	PC RESUBMITTAL	10/28/22		
$\overline{\mathbb{A}}$	HCD REVISION 1	12/16/22		
	PC RESUBMITTAL	02/02/23		
$\overline{\mathbb{A}}$	HCD & PC RESUBMITTAL	06/06/23		
$\underline{\mathbb{A}}$	hcd resubmittal	06/14/23		
\triangle	PC RESUBMITTAL	07/10/23		
$\boxed{\$}$	CLIENT REVISIONS	07/11/23		
\land	CLIENT REVISIONS	08/04/23		
$\overline{\Lambda}$	PC RESUBMITTAL (ELEC)	09/12/23		
\triangle	PC RESUBMITTAL (ELEC)	10/05/23		
$\underline{\Lambda}$	CLIENT REVISIONS	10/12/23		
Plot Date: 10/11/2023 4:09:26 PM				

SHEET TITLE: ENLARGED UNIT POWER TYPICAL PLANS

SHEET NO:

SHEET NO:

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C-JAIME-001 # DESCRIPTION DATE 1ST SUBMITTAL 10/04/21 UTILITY COORDINATION 04/08/22 1 PC RESUBMITTAL 05/18/22 1 PC RESUBMITTAL 10/28/22 1 PC RESUBMITTAL 10/28/22 1 PC RESUBMITTAL 10/28/22
#DESCRIPTIONDATE1ST SUBMITTAL10/04/21UTILITY COORDINATION04/08/221PC RESUBMITTAL05/18/221PC RESUBMITTAL10/28/221PC RESUBMITTAL10/28/221PC RESUBMITTAL10/28/22
1ST SUBMITTAL 10/04/21 UTILITY COORDINATION 04/08/22 ▲ PC RESUBMITTAL 05/18/22 ▲ PC RESUBMITTAL 10/28/22 ▲ HCD REVISION 1 12/14/22
UTILITY COORDINATION 04/08/22 Image: A state of the state o
▲ PC RESUBMITTAL 05/18/22 ▲ PC RESUBMITTAL 10/28/22 ▲ HCD REVISION 1 12/16/22
PC RESUBMITTAL 10/28/22 A HCD REVISION 1 12/14/22
PC RESUBMITTAL 02/02/23
A HCD & PC RESUBMITTAL 06/06/23
HCD RESUBMITTAL 06/14/23
PC RESUBMITTAL 07/10/23
CLIENT REVISIONS 07/11/23
CLIENT REVISIONS 08/04/23
PC RESUBMITTAL (ELEC) 09/12/23
PC RESUBMITTAL (ELEC) 10/05/23
CLIENT REVISIONS 10/12/23
Plot Date: 10/11/2023 4:27:36 PM
SHEET TITLE: ENLARGED UNIT LIGHTING TYPICAL PLANS
Sheet no:

	C-JAIME-001	1
#	DESCRIPTION	DATE
	1ST SUBMITTAL	10/04/21
	UTILITY COORDINATION	04/08/22
Λ	PC RESUBMITTAL	05/18/22
	PC RESUBMITTAL	10/28/22
$\boxed{3}$	HCD REVISION 1	12/16/22
	PC RESUBMITTAL	02/02/23
$\overline{\underline{5}}$	HCD & PC RESUBMITTAL	06/06/23
\bigtriangleup	hcd resubmittal	06/14/23
\triangle	PC RESUBMITTAL	07/10/23
$\boxed{\textcircled{\begin{subarray}{c} \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \$	CLIENT REVISIONS	07/11/23
\land	CLIENT REVISIONS	08/04/23
$\overline{\mathbb{A}}$	PC RESUBMITTAL (ELEC)	09/12/23
\triangle	PC RESUBMITTAL (ELEC)	10/05/23
Λ	CLIENT REVISIONS	10/12/23
Plot	Date: 10/11/2023	4:18:01 PM
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ENLARGED UNIT LIGHTING TYPICAL PLANS

SHEET NO:

Plot Date:

10/11/2023 4:26:18 PM

SHEET TITLE: ENLARGED UNIT SMOKE DETECTOR TYPICAL PLANS

E305

SHEET NO:

3

	BGED SMOK	(F DFTFCT(<u>ΤΡΡΙΑΝΙ</u>	SCALE	NORTH
G OF THE RCUIT	 KEY NOT NUMBERS INDICA PROVIDE 120V PO 2CONTRACTOR TO INSTALLED PER CE CONTRACTOR TO INTERCONNECTED 	TES ATE NOTES SHOWN ON OWER TO SMOKE AND O O ENSURE ALL SMOKE A O WITHIN INDIVIDUAL U	PLAN CARBON MONOXIE AND CARBON MON ND CARBON MONO NITS PER CBC 907.2	DE DETECTORS AS NOXIDE DETECTOR OXIDE DETECTOR .11.5.	1 REQUIRED. REQUIRED. REQUIRED. REQUIRED. S ARE

SHEET NO:

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E306

 $\sqrt{3}$

	Κ	eynotes:
	1	125A, 120/208V, 1Ø, 3W LOAD CENTER TO BE PROVIDED WITH MODULAR UNIT (
	2	CONTRACTOR TO STUB FEEDER IN ACCESSIBLE CEILING OUTSIDE RESPECTIVE MO BE EXTENDED TO MODULAR UNIT'S LOAD CENTER.
	3	PROVIDE 250A , 3P, 208V ENCLOSED CIRCUIT BREAKER WITH SHUNT TRIP. PROVI SHUNT TRIP RELAY AS REQUIRED. SHUNT TRIP RELAY/MODULE SHALL BE ROUTED OPEN FIRE ALARM RELAY PER FIRE ALARM DRAWINGS. COORDINATE EXACT RE FIRE ALARM VENDOR / INSTALLER PRIOR TO ROUGH-IN.
	4	REFER TO GENERATOR SPECIFICATIONS ON SHEET E406 AND GENERATOR CUTSHE407 FOR MORE INFORMATION.
^	5	REFER TO ATS SPECIFICATIONS AND CUTSHEETS ON SHEET E408 FOR MORE INFO
<u> </u>	6	REFER TO SHEET E409 LADWP APPROVED DRAWINGS FOR UTILITY COMPANIES A CURRENT VALUES.
$\boxed{\$}$	7	PROVIDE SUB-METERING EQUAL TO LEVITON "VERIFEYE" SERIES 8000 MULTIPLE PO AT 120/208V, 1Ø, 3W WITH 12x2 PHASE CONFIGURATION.

\square	IAIION	IAL			
ENG	GINEERING & CONSUL	TING, INC			
PHC	NE: (949) 716-9990 FAX: (94	2010-2703 49) 716-9997			
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C	ONSULTING	INC.			
CLIE	ENT:				
	IAIME PARTNE	RS			
	OF CALIFORNIA,	INC.			
1050 S. FLOWER STREET					
10	LOS ANGELES CA 90				
	D50 S. FLOWER S LOS ANGELES, CA 90	TREET 015			
PRC	D50 S. FLOWER S LOS ANGELES, CA 90	TREET 015			
PRC	D50 S. FLOWER S LOS ANGELES, CA 90	TREET 015			
PRC	D50 S. FLOWER S LOS ANGELES, CA 90 DJECT: 2853 WEST BLV	TREET ⁰¹⁵			
PRC	D50 S. FLOWER ST LOS ANGELES, CA 90 DJECT: 2853 WEST BLV OS ANGELES, CA	TREET 015 7 D 90016			
PRC	D50 S. FLOWER S Los angeles, ca 90 DJECT: 2853 WEST BLV OS ANGELES, CA	TREET ⁰¹⁵ D 90016			
PRC	D50 S. FLOWER S Los angeles, ca 90 Dject: 2853 WEST BLV OS ANGELES, CA	TREET ⁰¹⁵ 7D 90016			
	DSO S. FLOWER S LOS ANGELES, CA 90 DJECT: 2853 WEST BLV OS ANGELES, CA C-JAIME-001	TREET 015 7 D 90016			
PRC	DSO S. FLOWER S LOS ANGELES, CA 90 DJECT: 2853 WEST BLV OS ANGELES, CA C-JAIME-001 DESCRIPTION	DATE			
PRC	DSO S. FLOWER S LOS ANGELES, CA 90 DJECT: 2853 WEST BLV OS ANGELES, CA C-JAIME-001 DESCRIPTION 1ST SUBMITTAL	TREET 015 7D 90016 DATE 10/04/21			
	DSO S. FLOWER S LOS ANGELES, CA 90 DJECT: 2853 WEST BLV OS ANGELES, CA C-JAIME-001 DESCRIPTION 1ST SUBMITTAL UTILITY COORDINATION PC RESUBMITTAL	TREET 015 7D 90016 DATE 10/04/21 04/08/22			
	DSO S. FLOWER S LOS ANGELES, CA 90 DJECT: 2853 WEST BLV OS ANGELES, CA C-JAIME-001 DESCRIPTION 1ST SUBMITTAL UTILITY COORDINATION PC RESUBMITTAL PC RESUBMITTAL	TREET 015 7D 90016 DATE 10/04/21 04/08/22 05/18/22			
	DSO S. FLOWER S LOS ANGELES, CA 90 DJECT: 2853 WEST BLV OS ANGELES, CA C-JAIME-001 DESCRIPTION 1ST SUBMITTAL UTILITY COORDINATION PC RESUBMITTAL PC RESUBMITTAL HCD REVISION 1	TREET 015 7D 90016 0ATE 10/04/21 04/08/22 05/18/22 10/28/22			
	DSO S. FLOWER S LOS ANGELES, CA 90 DJECT: 2853 WEST BLV OS ANGELES, CA C-JAIME-001 DESCRIPTION 1ST SUBMITTAL UTILITY COORDINATION PC RESUBMITTAL PC RESUBMITTAL HCD REVISION 1 PC RESUBMITTAL	TREET 015 7 0 7 0 90016 90016 0 10/04/21 04/08/22 05/18/22 10/28/22 10/28/22 12/16/22 02/02/23			
	DSO S. FLOWER S LOS ANGELES, CA 90 DJECT: 2853 WEST BLV OS ANGELES, CA C-JAIME-001 DESCRIPTION 1ST SUBMITTAL UTILITY COORDINATION PC RESUBMITTAL PC RESUBMITTAL HCD REVISION 1 PC RESUBMITTAL HCD & PC RESUBMITTAL	TREET 015 7 0 7 0 90016 90016 0 10/04/21 04/08/22 05/18/22 10/28/22 10/28/22 12/16/22 02/02/23 06/06/23			
	DSO S. FLOWER S LOS ANGELES, CA 90 DJECT: 2853 WEST BLV OS ANGELES, CA C-JAIME-001 DESCRIPTION 1ST SUBMITTAL UTILITY COORDINATION PC RESUBMITTAL PC RESUBMITTAL PC RESUBMITTAL HCD REVISION 1 PC RESUBMITTAL HCD RESUBMITTAL HCD RESUBMITTAL	TREET 015 7 0 7 0 7 0 7 0 7 0 7 0 7 0 7 0 7 0 7			
	DSO S. FLOWER S LOS ANGELES, CA 90 DJECT: 2853 WEST BLV OS ANGELES, CA C-JAIME-001 DESCRIPTION 1ST SUBMITTAL UTILITY COORDINATION PC RESUBMITTAL PC RESUBMITTAL HCD REVISION 1 PC RESUBMITTAL HCD REVISION 1 PC RESUBMITTAL HCD RESUBMITTAL HCD RESUBMITTAL	TREET 015 7 7 7 7 90016 90016 10/04/21 04/08/22 05/18/22 10/28/22 10/28/22 10/28/22 10/28/22 10/28/22 12/16/22 02/02/23 06/06/23 06/06/23			
	DSO S. FLOWER S LOS ANGELES, CA 90 DECT: 2853 WEST BLV OS ANGELES, CA C-JAIME-001 DESCRIPTION 1ST SUBMITTAL UTILITY COORDINATION PC RESUBMITTAL PC RESUBMITTAL PC RESUBMITTAL HCD REVISION 1 PC RESUBMITTAL HCD & PC RESUBMITTAL HCD & PC RESUBMITTAL HCD RESUBMITTAL CLIENT REVISIONS	TREET 015 7 7 7 7 90016 90016 10/04/21 04/08/22 10/28/22 10/28/22 10/28/22 12/16/22 02/02/23 06/06/23 06/14/23 06/14/23			
	DSO S. FLOWER S LOS ANGELES, CA 90 DJECT: 2853 WEST BLV OS ANGELES, CA C-JAIME-001 DESCRIPTION 1ST SUBMITTAL UTILITY COORDINATION PC RESUBMITTAL UTILITY COORDINATION PC RESUBMITTAL PC RESUBMITTAL PC RESUBMITTAL HCD REVISION 1 PC RESUBMITTAL HCD & PC RESUBMITTAL HCD RESUBMITTAL CLIENT REVISIONS CLIENT REVISIONS	TREET 015 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7			
	DSO S. FLOWER S LOS ANGELES, CA 90 DJECT: 2853 WEST BLV OS ANGELES, CA C-JAIME-001 DESCRIPTION 1ST SUBMITTAL UTILITY COORDINATION PC RESUBMITTAL UTILITY COORDINATION PC RESUBMITTAL PC RESUBMITTAL PC RESUBMITTAL HCD REVISION 1 PC RESUBMITTAL HCD & PC RESUBMITTAL HCD & PC RESUBMITTAL HCD RESUBMITTAL CLIENT REVISIONS CLIENT REVISIONS PC RESUBMITTAL (ELEC)	TREET 015 7 0 7 0 7 0 9 0 0 10/0 4/08/22 0 5/18/22 10/28/22 10/28/22 10/28/22 10/28/22 10/28/22 12/16/22 02/02/23 06/06/23 06/14/23 06/14/23 07/10/23 07/11/23			
	DSO S. FLOWER S LOS ANGELES, CA 90 DJECT: 2853 WEST BLV OS ANGELES, CA OS ANGELES, CA C-JAIME-001 C-JAIME-001 DESCRIPTION 1ST SUBMITTAL UTILITY COORDINATION PC RESUBMITTAL UTILITY COORDINATION PC RESUBMITTAL PC RESUBMITTAL PC RESUBMITTAL HCD & PC RESUBMITTAL HCD RESUBMITTAL HCD RESUBMITTAL PC RESUBMITTAL CLIENT REVISIONS CLIENT REVISIONS PC RESUBMITTAL (ELEC) PC RESUBMITTAL (ELEC)	TREET 015 7 7 7 7 90016 7 90016 9 0016 10/04/21 04/08/22 10/28/22 10/28/22 10/28/22 10/28/22 10/28/22 10/28/22 10/28/22 10/28/22 10/28/22 10/28/22 10/28/23 06/06/23 06/06/23 06/14/23 07/10/23 07/11/23 08/04/23 10/05/23			
	DSO S. FLOWER S LOS ANGELES, CA 90 DJECT: 2853 WEST BLV OS ANGELES, CA C-JAIME-001 C-JAIME-001 DESCRIPTION 1ST SUBMITTAL UTILITY COORDINATION PC RESUBMITTAL UTILITY COORDINATION PC RESUBMITTAL PC RESUBMITTAL PC RESUBMITTAL HCD & PC RESUBMITTAL HCD & PC RESUBMITTAL HCD RESUBMITTAL CLIENT REVISIONS CLIENT REVISIONS PC RESUBMITTAL (ELEC) PC RESUBMITTAL (ELEC)	TREET 015 7 7 7 90016 90016 90016 10/04/21 04/08/22 10/08/22 10/28/22 10/28/22 10/28/22 10/28/22 10/28/22 10/28/22 10/28/22 10/28/22 10/2/23 06/06/23 06/14/23 07/10/23 10/05/23 10/05/23			
	DSO S. FLOWER S LOS ANGELES, CA 90 DJECT: 2853 WEST BLV OS ANGELES, CA OS ANGELES, CA C-JAIME-001 DESCRIPTION 1ST SUBMITTAL UTILITY COORDINATION PC RESUBMITTAL UTILITY COORDINATION PC RESUBMITTAL PC RESUBMITTAL PC RESUBMITTAL HCD REVISION 1 PC RESUBMITTAL HCD RESUBMITTAL HCD RESUBMITTAL CLIENT REVISIONS CLIENT REVISIONS PC RESUBMITTAL (ELEC) PC RESUBMITTAL (ELEC) PC RESUBMITTAL (ELEC) CLIENT REVISIONS	TREET 015 D 90016 DATE 10/04/21 04/08/22 05/18/22 10/28/22 10/28/22 02/02/23 06/06/23 06/14/23 07/11/23 08/04/23 09/12/23 10/05/23 10/12/23			
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SHEET NO:

DIAGRAM

SYSTEM GROUNDING DETAIL

SCALE NTS

 \bigwedge

 \bigwedge AND WASHERS AS REQUIRED FOR SEISMIC RESTRAINT. (TYPICAL - 4 PLACES EACH SECTION) 9 0 9 0 - • • • • • 9 0 NEMA-3R ENCLOSURE (M) (M) "MBA" "HP1" UTILITY PULL SECTION \Box \Box 400A 1200A MAIN MAIN (LOCKABLE) (LOCKABLE)

SWITCHBOARD "MS1"

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

2. THE VALUE INDICATED IS THE VOLTAGE DROP AT THE END OF THE FEEDER.

3. DISTANCE SHOWN IS FOR DESIGN PURPOSES ONLY AND IS NOT INTENDED FOR MATERIAL TAKEOFF.

FEEDER.

ELEVATION NOTES:

1. THIS EQUIPMENT ELEVATION IS SHOWN FOR SCHEMATIC INFORMATION PURPOSES ONLY. CONTRACTOR TO REFER TO THE FLOOR PLANS FOR EXACT EQUIPMENT ORIENTATION.

2 PROVIDE A 1-1/2" HIGH HOUSEKEEPING PAD. PAD SHALL BE FLUSH WITH THE FACE OF EQUIPMENT WHEN LOCATED INDOOR AND EXTEND 4" FROM THE FACE OF THE EQUIPMENT WHEN LOCATED OUTDOOR. PRIOR TO PAD ROUGH-IN, CONTRACTOR SHALL:

A. VERIFY ALLOWABLE MAXIMUM METER HEIGHT REQUIREMENT WITH THE SERVING UTILITY COMPANY. ADJUST HEIGHT OF THE HOUSEKEEPING PAD ACCORDINGLY TO COMFORM WITH THE UTILITY REQUIREMENTS.

B. VERIFY WITH THE LOCAL INSPECTOR PRIOR TO FORMING PAD(S) TO ENSURE ANY LOCAL CODE INTERPRETATIONS/CONDITIONS REGARDING HOUSEKEEPING PADS ARE MET.

3. CONTRACTOR TO SUBMIT SWITCHBOARD SHOP DRAWINGS TO THE SERVING UTILITY COMPANY FOR APPROVAL PRIOR TO FABRICATION. CONTRACTOR SHALL SECURE WRITTEN APPROVAL FROM THE SERVING UTILITY COMPANY THAT THE PROPOSED SWITCHGEAR CONFORMS TO THE ELECTRIC UTILITY COMPANY REGULATIONS.

4. CONTRACTOR TO INCLUDE IN BASE BID TO VERIFY EXISTING CONDITIONS INCLUDING SECONDARY FEEDERS FROM UTILITY TRANSFORMER AND ANY OTHER ASSOCIATED EXISTING FEEDERS, IF BEING REUSED, TO ENSURE LENGTH OF FEEDERS IS SUFFICIENT TO LAND IN LUGS OF NEW EQUIPMENT. COORDINATE WITH SERVING UTILITY COMPANY APPROVED METHODS OF EXTENDING FEEDERS AS REQUIRED.

5. ALLOWABLE DIMENSIONS IN THE MAIN ELECTRICAL ROOM IS A CRITICAL COORDINATION ITEM. CONTRACTOR SHALL PROVIDE 1/4"= 1'-0" SCALE DRAWING WITH THE SWITCHGEAR SUBMITTALS SHOWING THAT ALL THE PROPOSED EQUIPMENT WILL FIT IN THE ALLOTTED SPACE INCLUDING FUTURE EQUIPMENTS AS NOTED.

6. SERVICE SERVICE ENTRANCE EQUIPMENT DIMENSIONS ARE BASED UPON EATON SWITCHBOARD. CONTACT Mr. JOHN JANSEN TEL. NO. (951) 316-5242. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY ADDITIONAL COST TO THE JOB DUE TO THE USE OF ALTERNATE EQUIPMENT.

	DIST. IN FT	V.D. %	A.F.C.	NOTES
(3) SETS OF 4"C WITH 4 #600KCMIL CU, 1#3/O GND CU IN EACH	120	0.89	23.2K	-
4"C, 4#600KCMIL CU, 1#3 GND CU	130	0.77	14.3K	-
2"C, 3#1/O CU, 1#6 GND CU	231	2.70	3.5K	-
1-1/2"C, 3#1 CU, 1#8 GND CU	186	2.18	4.3K	-
2"C, 3#1/O CU, 1#6 GND CU	191	2.23	4.2K	-
1-1/2"C, 3#1 CU, 1#8 GND CU	168	1.97	4.6K	-
1-1/2"C, 3#1 CU, 1#8 GND CU	177	2.07	4.4K	-
2"C, 3#1/O CU, 1#6 GND CU	242	2.83	3.4K	-
1-1/2"C, 3#1 CU, 1#8 GND CU	197	2.31	4.1K	-
2"C, 3#1/O CU, 1#6 GND CU	202	2.36	4.0K	-
1-1/2"C, 3#1 CU, 1#8 GND CU	179	2.09	4.4K	-
1-1/2"C, 3#1 CU, 1#8 GND CU	188	2.20	4.2K	-
2"C, 3#1/O CU, 1#6 GND CU	253	2.96	3.3K	
2"C, 3#1/O CU, 1#6 GND CU	208	2.43	3.9K	ADJUSTED FOR VOLTAGE DROP
2"C, 3#1/O CU, 1#6 GND CU	213	2.49	3.8K	
2"C, 3#1/O CU, 1#6 GND CU	190	2.22	4.2K	ADJUSTED FOR VOLTAGE DROP
1-1/2"C, 3#1 CU, 1#8 GND CU	3 199	2.33	4.0K	-

SCHEDULE GENERAL NOTES:

VLESS SPECIFICALLY NOTED OTHERWISE, ARE PRESUMED TO BE ROUTED IN METAL RACEWAYS. IF TILIZED, THE CONTRACTOR SHALL PROVIDE AN EQUIPMENT GROUND PER NEC, OR CEC WHERE 2 OR, WHERE REQUIRED, PROVIDE A MAIN BONDING JUMPER PER TABLE 250.66 AND INCREASE ORDINGLY.

4. 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

SCALE

NTS

ENGINEERING 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:

SCALE

NTS

2

2853 WEST BLVD

LOS ANGELES, CA 90016

	C-JAIME-001				
#	DESCRIPTION	DATE			
	1ST SUBMITTAL	10/04/21			
	UTILITY COORDINATION	04/08/22			
Λ	PC RESUBMITTAL	05/18/22			
Δ	PC RESUBMITTAL	10/28/22			
$\boxed{3}$	HCD REVISION 1	12/16/22			
Δ	PC RESUBMITTAL	02/02/23			
$\overline{\mathbb{A}}$	HCD & PC RESUBMITTAL	06/06/23			
$\underline{\mathbb{A}}$	hcd resubmittal	06/14/23			
\triangle	PC RESUBMITTAL	07/10/23			
$\boxed{\$}$	CLIENT REVISIONS	07/11/23			
\land	CLIENT REVISIONS	08/04/23			
$\overline{\mathbf{M}}$	PC RESUBMITTAL (ELEC)	09/12/23			
\triangle	PC RESUBMITTAL (ELEC)	10/05/23			
Λ	CLIENT REVISIONS	10/12/23			
Plot	Date: 10/11/2023	4:21:05 PM			

SHEET TITLE:

FEEDER SCHEDULE AND DETAILS

E402

SHEET NO:

*	Feeder Voltage Phase I (SC) C L MS1-2 208 3 32000 28033 130 140	(SC) 4322.4 Amps *	Feeder Voltage Phase MBA-14 208 1	I (SC) C	C L	(SC) 4180.55	mps	TYPE 4: UNITS "301", "401" & "501"	= 1252.0	- -	TYPE 2: 1
							······ ··· ··· ··· ··· ···············	GENERAL LOAD @ 3VA/SF	= 4059 VA	-	SQUARE-FO
	f = 1.23 M= 0.4476		f = 4.55	M= 0.1	803			SMALL APPLIANCE @ 1500 VA / EA (2) OVEN RANGE	= 3000 VA = 8100 VA	. N	GENERAL LO SMALL APP
			Foodor Voltago Bhaso		> 1			WASHER / DRYER	= 1240 VA	i.	OVEN RANG
*	Feeder Voltage Phase I (SC) C L HP1-1 208 3 14322 42 7493 84 61	1 (SC) *	MBA-15 208 1	23192.23 93	17 199	4024.29 A	mps	RANGE HOOD MICROWAVE	= 300 VA = 1000 VA		WASHER / I RANGE HOO
								GARBAGE DISPOSAL	= 1176 V <i>A</i>		MICROWAV
	Three phase fault current f = 1.34 M= 0.4282		Three phase fault current f = 4.76	M= 0.1	735			REFRIGERATOR DISHWASHER	= 1500 VA = 1176 VA	l l	GARBAGE D REFRIGERA
								EXHAUST FANS	= 200 VA	<u>(</u>	DISHWASHI
*	Feeder Voltage Phase I (SC) C L MBA-1 208 1 23192 23 9317 231 3	(SC) 3552.2 Amps *	MBA-16 208 1	23192.23 114	423 264	3768.73 A	mps	TOTAL LOAD	= 21751 V <i>A</i>		EXHAUST FA
		0002.2 Amps						PER NEC 220.82			
	Three phase fault current		Three phase fault current f = 5.15	M= 0.1	625			FIRST 10KVA LOAD AT 100% REMAINDER OF OTHER LOADS AT 40%	= 10000 VA = 4700 VA	· [PER NEC 220 FIRST 10KV
			Facder Valtere Dhase						2000.14		
*	Feeder Voltage Phase I (SC) C L MBA-2 208 1 23192 23 9317 186 4'	(SC) *	MBA-17 208 1	23192.23 93 ⁻	17 219	3715.66 A	mps	(1) VHP UNITS @ 2080 VA EACH (3) HPAC UNITS @ 2205 VA EACH	= 2080 VA = 6615 VA		(1) VHP UN
								70744		-	(2) HPAC U
	Three phase fault current		f = 5.24	M= 0.1	602			IUIAL	= 23395 V/ 112.5 /	. @ 120/208V, 1Ø, 3W	TOTAL
			Fooder Veltage Dhase					LOAD CENTER SIZE	= 125.0 Å		
*	FeederVoltagePhaseI (SC)CLMBA-320812319223931719147	(SC) 162 59 Amps *	MBA-18 208 1	23192.23 93	17 224	3645.75 A	mps				LOAD CEN
			T					SQUARE-FOOTAGE	= 1612 SI	:	TYPE 1A:
	Three phase fault current f = 4.57 M= 0.1795		f = 5.36	M= 0.1	572			GENERAL LOAD @ 3VA/SF	= 4836 V/		SQUARE-FO
			Fander Veltare Dhase					OVEN RANGE	= 3000 VA = 8100 VA	·	GENERAL LO SMALL APF
*	Feeder Voltage Phase I (SC) C L MBA-4 208 1 23192.23 9317 168 46	(SC) 618 98 Amps *	MBA-19 208 1	23192.23 93	17 201	3991.14 A	mps	WASHER / DRYER	= 1240 V/		
								MICROWAVE	= 1000 VA	,	RANGE HOC
	Three phase fault current		f = 4.81	M= 0.1	721			GARBAGE DISPOSAL	= 1176 VA	, ,	
			Fooder Veltage Bhase					DISHWASHER	= 1500 V/	(REFRIGERA
*	Feeder Voltage Phase I (SC) C L MPA 5 208 1 23102.23 0317 177 44	(SC) *	MBA-20 208 1	23192.23 93	17 210	3848.47 A	mps	EXHAUST FANS	= 200 V/	<u> </u>	DISHWASHI
	WIDA-5 206 I 25192.25 9517 177 44	Amps						TOTAL EXISTING LOAD	- 22326 V F	5	TOTAL EXIS
	Three phase fault current		f = 5.03	M= 0.1	659			PER NEC 220.82 FIRST 10KVA LOAD AT 100%	= 10000 V/	,	PER NEC 22
			Feeder Voltage Phase		~ I			∧ REMAINDER OF OTHER LOADS AT 40%	= 5011 V/	í.	FIRST 10KV
*	FeederVoltagePhaseI (SC)CLMBA-620812319223931724234	(SC) *	MBA-21 208 1	23192.23 114	423 253	3904.99 A	mps	(1) VHP UNITS @ 2080 VA EACH	= 2080 VA	x	
								(4) HPAC UNITS @ 2205 VA EACH	= 8820 VA	l I	(1) VHP UN
	Three phase fault current		f = 4.94	M= 0.1	684			TOTAL	= 25911 VA	OR	(1) HPAC U
			Feeder Voltage Phase		2				124.6 /	@ 120/208V, 1Ø, 3W	TOTAL
*	FeederVoltagePhaseI (SC)CLMBA-7208123192239317197	4058 Amps *	MBA-22 208 1	23192.23 93	17 230	3565.27 A	mps	LOAD CENTER SIZE	= 125.04		▲ LOAD CEN
			Three phase fault current					<u>TYPE 3: UNITS "203", "303", "403" & "503"</u>			$\overline{3}$
	Three phase fault current f = 4.72 M= 0.175		f = 5.51	M= 0.1	537			SQUARE-FOOTAGE	= 1130 SI	4 	LOAD SU
								GENERAL LOAD @ 3VA/SF SMALL APPLIANCE @ 1500 VA / EA (2)	= 3390 VA = 3000 VA	A Contraction of the second seco	LIGHTING (
*	Feeder Voltage Phase I (SC) C L MBA 8 208 1 23102 23 9317 202 30	(SC)							= 8100 VA	1	REFRIGERA
								RANGE HOOD	= 1240 V A = 300 V A	l.	HVAC
	Three phase fault current								= 1000 VA		EV CHARGE WATER HE
								REFRIGERATOR	= 1500 VA		PUMP
*	Feeder Voltage Phase I (SC) C L MBA 0 208 1 23102 23 0317 170 41	(SC)						DISHWASHER EXHALIST FANS	= 1176 VA = 200 VA		MISC. LOAI
	WIBA-9 200 1 23192.23 9317 179 4	1500.04 Amps						TOTAL EXISTING LOAD	= 21082 VA	-	
	Three phase fault current							PER NEC 220 82			PANEL "HP
	1 – 4.20 IVI– 0.1092							FIRST 10KVA LOAD AT 100%	= 10000 VA	i -	25% OF LAF
*	FeederVoltagePhaseI (SC)CLMBA-102081231922393171884'	(SC) 216 94 Amps						$\frac{1}{3}$ REMAINDER OF OTHER LOADS AT 40%	= 4433 V <i>A</i>		TOTAL
								(1) VHP UNITS @ 2080 VA EACH	= 2080 VA	l	
	Three phase fault current							(2) HPAC UNITS @ 2205 VA EACH	= 4410 VA		EQUIPMEN
								TOTAL	= 20923 VA		LIGHTING (
*	Feeder Voltage Phase I (SC) C L MBA 11 208 1 23102 23 0317 253 31	(SC)						LOAD CENTER SIZE	= 125.0 <i>A</i>	@ 120/208V, 10, 3VV	PUMP
	WIDA-11 200 1 23192.23 9317 233 32	SZOT.09 Amps									HVAC
	Three phase fault current							LOAD SUMMARY "MSA"		A.	MISC. LOAD
	1 = 0.00 IVI= 0.1417							PNL HP1	= 216245.9 V/ = 129480.8 V/	х <u>А</u>	ΤΟΤΑΙ
*	Feeder Voltage Phase I (SC) C L MBA 12 208 1 23102 23 0317 208 23	(SC)						TOTAL	= 345726.6 V/	• OR	
	WIDA-12 200 1 23192.23 9317 200 30	Sor9.29 Amps						RECOMMENDED SERVICE SIZE	= 1200.07	ነ @ 120/208V, 3Ø, 4W ት	
	Three phase fault current										
								LOAD SUMMARY (22 UNITS) EQUIPMENT	LEVEL 2 I FV/FI 3		LEVFI 6
*	Feeder Voltage Phase I (SC) C L MRA 13 208 1 23102 23 0317 213 33	(SC)						LIGHTING	5 5	5 5	2
	MBA-13 200 1 23192.23 9317 213 30	Amps						SMALL APPLIANCE CIRCUITS OVEN / RANGE	5 5 5 5	5 5 5 5	2
	Three phase fault current							WASHER / DRYER	5 5	5 5	2
	I 0.10 IVI- 0.104							RANGE HOOD MICROWAVE	5 5 5 5	5 5 5 5	2 2
								DISPOSAL	5 5	5 5	2
								REFRIGERATOR DISHWASHER	5 5 5 5	5 5 5 5	2
								EXHAUST FANS	5 5	5 5	2
								VHP UNITS HPAC UNITS	5 5 11 11	5 5 11 11	2 4
								IUTAL			DEMAND FACTOR A
											PER NEC 220-84
								TOTAL LOAD			

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	SCALE	\mathbf{O}
ULAIIONS	NTS	Z

ND FACTOR AT IEC 220-84

502, 505°, 601° & 602°		
QUARE-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
	=	1000 V A
SARBAGE DISPOSAL	=	1176 VA
REFRIGERATOR	=	1500 VA
DISHWASHER	=	1176 VA
EXHAUST FANS	=	200 VA
FOTAL EXISTING LOAD	=	20035 VA
PER NEC 220.82		
FIRST 10KVA LOAD AT 100%	=	10000 VA
REMAINDER OF OTHER LOADS AT 40%	=	4014 VA
1) VHP UNITS @ 2080 VA EACH	=	2080 VA
2) HPAC UNITS @ 2205 VA EACH	=	4410 VA
		20504 VA OP
UTAL	-	98.6 A @ 120/208V, 1Ø, 3W
OAD CENTER SIZE	=	100.0 A
<u> </u>	05" & "504"	
QUARE-FOOTAGE	=	521 SF
GENERAL LOAD @ 3VA/SF	=	1563 VA
SMALL APPLIANCE @ 1500 VA / EA (2)	=	3000 VA
DVEN RANGE	=	8100 VA
WASHER / DRYER	=	1240 VA
	=	300 VA
	-	1176 VA
REFRIGERATOR	=	1500 VA
DISHWASHER	=	1176 VA
EXHAUST FANS	=	200 VA
TOTAL EXISTING LOAD	=	19255 VA
PER NEC 220.82		10000.1/4
	=	10000 VA 2703 VA
REMAINDER OF OTHER LOADS AT 40%	-	5702 VA
1) VHP UNITS @ 2080 VA EACH	=	2080 VA
1) HPAC UNITS @ 2205 VA EACH	=	2205 VA
TOTAL	=	17987 VA OR
_OAD CENTER SIZE	=	100.0 A
LOAD SUMMARY "HP1"		
EQUIPMENT		
IGHTING (X 1.25)	=	3619 VA
REFRIGERATOR	=	900 V A
CONVENIENCE OUTLET	=	6660 V A
HVAC	=	888 VA
EV CHARGERS (4) (X 1.25)	=	33280 VA
WATER HEATER	=	2532 VA
	=	25 VA
	=	2040U V A 1360 V A
PARKING GARAGE GATE	=	800 V A
NVERTER (X 1.25)	=	125 VA
PANEL "HP4"	=	17125 VA
25% OF LARGEST MOTOR (ELEVATOR)	=	14120 VA
rotal ,	=	123794.0 VA OR
		343.9 A @ 120/208V, 3Ø, 4
LOAD SUMMARY "HP4"		
		77 4 1 / 4
NUTING (X 1.25)	=	774 VA 2420 VA
	=	542U V Α 50 V Δ
HVAC	=	9644 V A
NVERTER (X 1.25)	=	438 VA
MISC. LOADS	=	2800 VA
	_	17125.3 VA OR
TOTAL	-	
TOTAL	_	47.6 A @ 120/208V, 3Ø,

N ENG 30 TH PHON	AI INEERING IOMAS, IE: (949) 7 P:	G & CONSUL IRVINE, CA 9 16-9990 FAX: (9	JAL 71NG, INC 72618-2703 749) 716-9997
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	REGL	E-14492 A	NEED
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			inc.
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	LOS AI	NGELES, CA 90	JU15
PROJ	IECT:		
	20 5	2 WEST DIV	
	200	S WESI DLV	
LC	os ang	Geles, Ca	90016
		C-JAIME-001	
#	DES	CRIPTION	DATE
	1ST S	SUBMITTAL	10/04/21
	UTILITY C		04/08/22
$\frac{1}{2}$			05/18/22
$\frac{Z2}{A}$	HCD	REVISION 1	10/26/22
$\frac{23}{4}$	PC R	ESUBMITTAL	02/02/23
$\overline{5}$	HCD & P	C RESUBMITTAL	06/06/23
$\overline{\mathbb{A}}$	HCD F	RESUBMITTAL	06/14/23
\triangle	PC R	ESUBMITTAL	07/10/23
	CLIEN	IT REVISIONS	07/11/23
			08/04/23
$\frac{\sqrt{10}}{\sqrt{10}}$	PC RESU	BANTTAL (ELEC)	09/12/23
$\frac{\Delta V}{\Delta}$			10/05/23
)ate.	10/11/2020	A 115.75 DAA
SHEET	TITI F	10/11/2020	, 1.10.201 ///
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		load	

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SHEET NO:

E403

CALCULATIONS

HOUSE PANEL SCHEDULES

													PA	NE
			MOUNTING NEMA 3R FEED THRU	SURF NO NO	ACE			D0 20 I/G	0% 0% BU	LE L NEU S	UG TR/	AL.	N N N	0
		N O T E S	LOCATION	Α	В	с	L C L	C O N V	K I T	R M E I C S P C	1 E 4 5 5	3 < 2	C I R C	
			4TH FLOOR HALL RECEPT	900		•		5			20	/1	1	
			5TH FLOOR HALL RECEPT	500	900			5			20	/1	3	
					300	720		1			20	/1	5	
				540		120		4			20	/1	7	
	\wedge			540	200			5		1	20		<u>′</u>	
	$\frac{24}{2}$	<u>}</u> ~~		<u> </u>		~~~~	~ ~	\sim	\frown	∽┿┥			9	
	12		SPARE								20		11	
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$\overline{3}$	(-		$-\frac{1}{200}$			~			\sim	20		25	
			4TH FLR REMOTE METERS, EKM	300	250					0	20		20	
					200	FO				C	20		21	
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				=A	3864								R=	2988
			IOIAL VA=	8745	W/LCL=	8987						AM	PS=	
			HIGH PHASE VA=	3864	W/LCL=	4017			HIGH	I PH	ASE	AM	PS=	
													TEE	<u> </u>
											VV	EK		
	INPU	I VO	ltage <u>120</u>				С	UTF	V TU	OLT/	٩GE		120	
	INPU	ΓΡΗΑ	ASE 1				С	UTF	UT P	HASI	=		1	
	INPU	r wir	E				С	UTF	V TU	VIRE			2	
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	notes	D	ESCRIPTION			watts			ltg	GEN	KIT	LCL	MIS	BK₽
	_	EXTF	RIOR EGRESS DOOR UC	GHTS		51			3	-	-	-	-	20/
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	· ·	τοτα	WATTS = 64						1	1	1	1	AM	1PS =
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				11	٧V	ER ⁻	TER	
INPU INPU INPU	T VOLTAGE 120 T PHASE 1 T WIRE 2	UT V UT P UT W	olt <i>i</i> Hase /Ire	AGE E		120 1 2		
NOTES	DESCRIPTION	WATTS	ltg	GEN	KIT	LCL	MIS	BKR
1	6TH FLOOR STAIR LANDING BOLLARD	98	8	-	-	-	-	20/
2	6TH FLOOR PATIO LIGHTS	142.2	12	-	-	-	-	20/
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
	TOTAL WATTS = 240.2						AN	NPS =

											P/	NE
	MOUNTING NEMA 3R FEED THRU	<u>SURF</u> NO NO	ACE			DC 20 I/G	0% BL	BLE NE JS	E LI	JG TRAL	<u>N</u> N	10 10 10
N O T E S	LOCATION	Α	в	с	L C L	C O N V	K I T	R E C P	M I S C	B K R	C I R C	
	BATTERY CHARGER	1000							1	20/1	1	
	JA CKET WA TER HEA TER		1200			1			1	20/1	3	1
	SPACE										5	
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	SPACE										11	1
	SPACE					1	ĺ				13	
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						1					/	1
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		A=	19100		-						B=	192
	TOTAL VA=	56300	W/LCL=	56300						AN	/PS=	
	HIGH PHASE VA=	19200	W/LCL=	19200		1	HIG	ΗP	HA	SE AN	APS=	

A CONSULTING, INC 30 THOMAS, IRVINE, CA 92618-2703 PHONE: (949) 716-9990 J FAX: (949) 716-9997							
STAMP: COBINGCO E-14492 CFCTRICCH							
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CLIE	CLIENT:						
	JAIME PARTNE	RS					
	OF CALIFORNIA,	INC.					
1(050 S. FLOWER S	TREET					
	LOS ANGELES, CA 90	015					
PRC	DJECT:						
	2853 WEST BLV	′D					
		-					
L	us angeles, Ca	90016					
	C-JAIME-001						
#							
		10/04/21					
$\overline{\Lambda}$	PC RESUBMITTAL	05/18/22					
Δ	PC RESUBMITTAL	10/28/22					
$\underline{\underline{3}}$	HCD REVISION 1	12/16/22					
$\underline{\land}$	PC RESUBMITTAL	02/02/23					
	HCD & PC RESUBMITTAL	06/06/23					
		06/14/23					
$\frac{2}{8}$	CLIENT REVISIONS	07/11/23					
Δ	CLIENT REVISIONS	08/04/23					
$\overline{\mathbb{A}}$	PC RESUBMITTAL (ELEC)	09/12/23					
Δ	PC RESUBMITTAL (ELEC)	10/05/23					
Λ	CLIENT REVISIONS	10/12/23					

Plot Date:	10/12/2023 9:19:44 AI

SHEET TITLE:

E404

SHEET NO:

P/	ANEL	. HP	1										
1	10			VC	DLT	S		12	0/208		MAIN	<u>400A</u>	
	10			PH	AS	ε		3			BUS	400A	
	10			W	IRE			4			A.I.C	22.000	
-								-					
С	T	С	B	M	R	K	С	1.		1			N
Ī		Ī	ĸ	1	E	1	0	C					0
R		R	R	S	С	Т	Ν	L				LOCATION	Т
С		С		С	Ρ		V						E
									Α	В	С		S
1		2	40/2	1				1	3328			EV CHARGER	
3		4			1	1		-		3328			
5		6	40/2			ļ		1			3328	EV CHARGER	
7		8		ļ		ļ		-	3328				
9		10	40/2	ļ		ļ		1		3328		EV CHARGER	
11		12		-	ļ	ļ		-			3328		
13		14	20/1	ļ	1	_			360	4.000		RECEPT TEL BACKBD	
15		16	20/1		 	ļ		11		163	100		
1/		10	20/1					10	120		132		
21	1	20	20/1		 	ļ		q	130	qq		3RD FLOOR EN LTG	
23		24	20/1			ļ	5	5			900	STAIR #1 RECEPTS	
25		26	20/1				4		720		000	STAIR #2 RECEPTS	
27		28	20/1		İ	h	1	2	120	268		ELEVATOR PIT LTS. RECEPT	
29		30	20/1		1						180	ELEVATOR MACHINE RM RECEPT	
31		32	20/1	1					200			SECURITY KEYPAD	
33		34	20/1					1		100		INVERTER "INV1"	
35		36	20/1				1				180	PARKING GARAGE GFI	
37		38	20/1	1					100			EF-1	
39		40	30/1		1					2880		WH-1 WATER HEATER	
41		42	20/1	ļ	1						25	CP-1 2ND FLOOR	
43		44	40/2		ļ	ļ		1	3328			EV CHARGER	
45		46		 	ļ	ļ	n	-		3328	260		
4/		40	30/2		~~	\sim	~	\sim	1/15		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~		\sim
+9 51		52	50/2						141J	1415			
53		54		1	-					1413	570	CEE-3	
55	-	56	250/3	1	<u> </u>		~	\sim	19100	·····	ستنت	PNL "EHP1"	-
57	1	58		-						19200		VIA "ATS-1"	-
59		60		-			~		~~~~		18000		
61		62	20/1	7					700			2ND FLR FSD & SMOKE DETECTORS	
-63	ļ	64	20/1	Th	\sim	\sim	\sim	\sim	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	-700-	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	2ND FUR FSD& SMOKE DETECTORS	\sim
65		66	20/1	L	سا	h~	~		ميد	han	700	3RD FLR FSD & SMOKE DETECTORS	
67		68	20/1	1	ļ				700			3RD FLR FSD & SMOKE DETECTORS	
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			1	L	-								
B=	40698	3							C=	36382			
PS=	3	57.5				TOT	AL	LC	_=	29799	X .25 =	7450	

PANEL SCHEDULE NOTES:

- "E" EXISTING BREAKER WITH NEW LOAD
- "G" PROVIDE GFCI TYPE DEVICE.
- "H" PROVIDE HACR BREAKER
- "L" PROVIDE LOCK-ON DEVICE.
- "N" PROVIDE A NEW BREAKER TO MATCH THE EXISTING
- "O" DEVICE CAPABLE OF BEING LOCK IN THE OPEN POSITION
- "R" PROVIDE A RED CIRCUIT BREAKER.
- "S" PROVIDE SHUNT TRIP DEVICE
- "T" PROVIDE APPROVED HANDLE-TIE FOR MULTIWIRE BREAKERS

_	HP4	HP1
-	INV1	_
-	INV2	-
-	 EHP1	-

SEE ELECTRICAL SPECIFICATION FOR MORE INFORMATION.

TYPICAL UN	NIT PANE	EL SCHEDUL	ES														
MOUNTING NEMA 3R FEED THRU	RECESSED NO NO	LOAD CENTI DOUBLE LUG NC 200% NEUTRAL VG BUS NC L C K R M B C T O I E I K I	ER 202,205,304,405 VOLTS PHASE WIRE C B M R K I K I E I	,504 <u>120/208</u> <u>1</u> <u>3</u> C L O T	MAIN BUS A.I.C.	<u>100A</u> <u>100A</u> <u>10,000</u>			MOUNTING NEMA 3R FEED THRU	RECESSED NO NO	DOU 200% I/G B L C K T O I	LOAD C BLE LUG NEUTRAL JS R M B E I K	ENTER 301 <u>NO</u> <u>NO</u> <u>NO</u> <u>C</u> <u>C</u> <u>C</u> <u>C</u> <u>C</u> <u>1</u>	,401,501 VOLTS PHASE WIRE B M R K K I E I	120/208 1 3 C L O	MAIN BUS A.I.C.	<u>1</u> <u>1</u> <u>1</u>
T LOCATION E S T,G BEDROOM #1 LTS/RECS - BATHROOM #1 GFCI RECEPT G WASHER/DRY ER COMBO HPAC-1 	A B 1080 180 1240 180 1103 100	G N T C S R R V P C S R C 3 7 1 20/1 1 20/1 3 1 20/1 3 1 20/1 1 20/1 5 3 1 15/2 7 3 1 20/2 11	R R S C T C 2 20/1 1 - 4 20/1 1 1 6 20/1 1 1 8 20/1 1 1 10 20/1 1 1	N G V A 5 7 1488 0 0 0 1 1176 0 1 11800 0	В КП 1500 Сл 1068 Сл 1068 Сл	LOCATION T E S TCHEN LTS/LIVING ROOM RECS REFRIGERATOR ARBAGE DISPOSAL G DISHWASHER MICROWAVE G			T LOCATION E S T,G BEDROOM #1 LTS/RE - BATHROOM #1 GFCI RECE G WASHER/DRY ER COMB HPAC-1	A CS 1260 PT O 1240 I I I I I I	G N T B 3 8 180 4 6 1103 4 7 1040 4 7	C S R P C 1 20/1 1 20/1 1 20/1 1 15/2 	R R C C 1 2 3 4 5 6 7 8 9 10	R S C T 20/1 1 20/1 1 20/1 1 20/1 1 20/1 1 20/1 1	N G V A 5 12 1125 1176 1176 1800	B 1500 1068 4050	KITCHEN LTS REFR GARBAC DISH MICI
VHP-1 SPACE SPACE SPACE SPACE SPACE SPACE SPACE	1040 1040 1040 1040 1040	1 20/2 11 - - 13 15 15 17 19 21 23 25 27	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	4050 4050 1500 1500 10 10 10 10 10 10 10 10 10 10 10 10 1	4050 1500 SM 1500 SM 150 SM	OVEN MALL APPLIA NCE RECEPT T, MALL APPLIA NCE RECEPT -, OKE DETECT. & CARBON MONOXIDE SPACE SPACE SPACE SPACE SPACE SPACE			VHP-1 T BATHROOM #2 GFCI RECE -,G BEDROOM #2 CONV LTS/RE HPAC-1 BR#2 T BATHROOM #3 GFCI RECE -,G BEDROOM #3 CONV LTS/RE -,G BEDROOM #3 CONV LTS/RE HPAC-1 BR#3	1040 PT 1554 1103 1103 PT 1103 PT I	1040 Image: state	1 20/2 20/1 1 20/1 1 15/2 20/1 1 20/1 1 20/1 1 15/2	11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28	40/2 1 - 20/1 2 20/1 1 20/1 6 20/1 6 20/1 -	4050 1500 7 1282 1	4050 4050 1500 300 4050 4050 4050 4050 4050 4050 40	SMALL AP SMALL AP SMOKE DETECT LIVING ROOM S S S
SPACE		29	30			SPACE				1103							
MOUNTING NEMA 3R FEED THRU	RECESSED NO NO	LOAD CENTI DOUBLE LUG NC 200% NEUTRAL NC I/G BUS NC	ER 204,302,305,402 VOLTS PHASE WIRE	,405,502,505,601,6 <u>120/208</u> <u>1</u> <u>3</u> C L	MAIN BUS A.I.C.	<u>100A</u> <u>100A</u> <u>10,000</u>			MOUNTING NEMA 3R FEED THRU	RECESSED NO NO	DOU 200% I/G B	LOAD C BLE LUG NEUTRAL JS	ENTER 201 <u>NO</u> <u>NO</u> <u>NO</u>	VOLTS PHASE WIRE	<u>120/208</u> <u>1</u> <u>3</u> C L	MAIN BUS A.I.C.	<u><u>1</u>2 <u>1</u>2 <u>1</u>1</u>
O T E S I I,G BEDROOM#1 LTS/RECS - BATHROOM #1 GFCI RECEPT G WASHER/DRY ER COMBO HPAC-1	A B 1080 180 1240 1103	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	O T N G V A 6 7 1488 6 11176	B Killing Kill	LOCATION			O T E S T,G BEDROOM#1 LTS/RE - BATHROOM#1 GFCI RECE G WASHER/DRY ER COMB HPAC-1	A CS 1260 PT	T O I G N T B V V 3 8 26 180 V 26 1560 V V	E I K C S R P C 1 20/1 20/1 1 20/1 1 15/2	I I R R C C 1 2 3 4 5 6 7 8	K I E I G R S C T C C P I I 20/1 1 I I	D T A N G A V A 5 14 1147 1176	δ B 1500 1068	LOC KITCHEN LTS/ REFRI GARBAG DISH'
I BATHROOM #2 GFCI RECEPT T BATHROOM #2 GFCI RECEPT -,G BEDROOM #2 CONV LTS/RECS BATHROOM #2 MIRROR CABINET HPAC-1 BR#2 	1103 1040 1040 1040 1040 180 1014 276 1103 1103	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	1800 4050 1500 1500	4050 4050 5 1500 5 200 5 4 5 5 5 5 5 5 5 5 5 5 5 5 5	MICROWAVE OVEN MALL APPLIANCE RECEPT MALL APPLIANCE RECEPT MOKE DETECT. & CARBON MONOXIDE SPACE SPACE	$\frac{G}{G} + \frac{2}{1}$		VHP-1 T ВАТН ООМ #2 GFCI RECE -,G ВЕД ООМ #2 CONV LTS/RE HPAC-1 BR#2 T ВАТН ПООМ #3 GFCI RECE	1560 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Image: light with with with with with with with wi	 1 20/2 20/1 1 20/1 1 15/2 20/1 1 20/1	9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	20/1 1 6 40/2 1 - - - 20/1 2 2 20/1 1 2 20/1 7 6 20/1 1 2 20/1 1 2 20/1 1 2 20/1 1 2	1800 4050 1500 7 2 1282 9	4050 4050 1500 350 1620	MICF C SMALL APF SMALL APF SMOKE DETECT LIVING ROOM #
SPACE SPACE SPACE						SPACE SPACE SPACE			-,G BEDROOM #3 CONV LTS/RE HPAC-1 BR#3	1103			25 26 27 28 29 30			1103	
MOUNTING NEMA 3R FEED THRU	RECESSED NO NO	LOAD CENTI DOUBLE LUG <u>NC</u> 200% NEUTRAL <u>NC</u> I/G BUS <u>NC</u>	ER 203,303,403,503 VOLTS PHASE WIRE	<u>120/208</u> <u>1</u> <u>3</u>	MAIN BUS A.I.C.	<u>125A</u> <u>125A</u> 10,000											
N O T LOCATION E S ¹ T,G BEDROOM #1 LTS/RECS - BATHROOM #1 GFCI RECEPT G WASHER/DRY ER COMBO	A B 1080 180 1240 1	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	$ \begin{array}{c ccccc} C & B & M & R & K \\ I & K & I & E & I \\ R & R & S & C & T \\ C & & C & P \\ \end{array} $	C L O T N G V A 6 12 1305 1176	В КП 1500 G/	LOCATION T E S TCHEN LTS/LIVING ROOM RECS REFRIGERATOR G ARBAGE DISPOSAL G											
HPAC-1 VHP-1 T BATHROOM #2 GFCI RECEPT 1 -,G BEDROOM #2 CONV LTS/RECS HPAC-1 BR#2 T BATHROOM #3 GECI RECEPT	1103 1103 1103 1040 1040 1040 180 1374 1103 1103 180	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	1800 1800 4050 1500 1500	1068 4050 1500 SM 250 SM	DISHWASHER G MICROWAVE G OVEN MALL APPLIA NCE RECEPT T, MALL APPLIA NCE RECEPT -, CKE DETECT. & CARBON MONOXIDE G SPACE SPACE		X									
1 -,G BEDROOM #3 CONV LTS/RECS HPAC-1 BR#3	1374 1103 1103	2 8 1 20/1 25 3 1 15/2 27 - - 29	26 28 30			SPACE SPACE SPACE											

- # NUMBERS INDICATE NOTES SHOWN ON PLAN
- 1. CIRCUIT BREAKER WITH AFCI PROTECTION.
- 2. PROVIDE APPROVED HANDLE-TIE FOR MULTIWIRE BREAKERS

PANEL SCHEDULE NOTES:

- "E" EXISTING BREAKER WITH NEW LOAD
- "G" PROVIDE GFCI TYPE DEVICE.
- "H" PROVIDE HACR BREAKER
- "L" PROVIDE LOCK-ON DEVICE.
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- "R" PROVIDE A RED CIRCUIT BREAKER.
- "S" PROVIDE SHUNT TRIP DEVICE
- "T" PROVIDE APPROVED HANDLE-TIE FOR MULTIWIRE BREAKERS

LOAD CENTER 202,205, 304,405,504	LOAD CENTER 301 401,501	-
LOAD CENTER 204,302,305,402, 404,502,505,601,602	LOAD CENTER 201	-
LOAD CENTER 203,303,403,503	-	-
-	-	-

SEE ELECTRICAL SPECIFICATION FOR MORE INFORMATION.

Plot Date:

SHEET TITLE:

E405

10/11/2023 4:04:10 PM

Sheet no:

 $\overline{1}$

 THIS SYSTEM SHALL BE MTU ONSITE ENERGY OR EQUAL WHO HAS BEEN REGULARLY ENGAGED IN THE PRODUCTION OF ENGINE-ALTERNATOR SETS AND ASSOCIATED CONTROLS FOR A MINIMUM OF TWENTY YE. 	ARS,	- ALL SUE VAULTE	3-BASE TANKS SHALL BE UL142-I D TANKS IF REQUIRED BY THE L
THEREBY IDENTIFYING ONE SOURCE OF SUPPLY AND RESPONSIBILITY. EQUAL MEANS, HAVING THE SAME SY CONFIGURATION, OPERATION, FOOTPRINT OF THE GENSET, SKVA RATING, FUEL CONSUMPTION, SAME SOU EMISSION DATA OF THE GENSET WITH SAME SIZING SOLUTION. SOLUTIONS OR EQUIPMENT THAT UTILIZES	STEM ND	CONTR COSTS	ACTOR SHALL BE RESPONSIBLE IN BASE BID.
QUALIFICATION PROCESS; AN AUTHORIZED DEALER/SUPPLIER, HEREIN KNOWN AS THE SUPPLIER SHALL REPRESENT THE MANUFACTURER. TO QUALIFY AS THE DEALER/SUPPLIER, IT MUST BE A "FULL PRODUCT LINE DISTRIBUTOR OF "CATERPILLAR" OR "MTU ONSITE ENERGY". THE DEALER/SUPPLIER MUST HAVE CERTIFIED GENERATOR SERVICE TECHNICIANS, INVENTORY OF PARTS AND GENERATOR RENTAL UNITS TO SUPPORT AF SALES SERVICE AND CAN PROVE 5 YEARS OF EXPERIENCE. PRIME CONTACT IS SOUPHY CHANSIRIK AT QUIN POWER. PHONE NUMBER (562) 484-4816.	TER IN	- WHEN I GENER EXCESS CASE C PIPING AST-MC	REMOTE ABOVE GROUND STO ATOR SUB BASE TANK(S) SHALL FUEL FROM THE SUB-BASE TAN OF EMERGENCY. WHEN A FUEL SYSTEM SHALL ALLOW MANUA DUNTED SUPPLY PUMPS FOR FU
ALL EQUIPMENT SHALL BE NEW, OF CURRENT DESIGN, AND SHALL BE CONSTRUCTED IN ACCORDANCE WIT APPLICABLE REQUIREMENTS OF IEEE, NEMA, UL, ANSI AS WELL AS LOCAL JURISDICTION REQUIREMENTS. AL EQUIPMENT SHALL BE FACTORY ASSEMBLED AND TESTED. THE FOLLOWING DOCUMENTS SHALL APPLY TO THE MANUEACTURING AND INSTALLATION OF THE GENERATOR SYSTEM:	H THE L HE		
 - IEEE 587 SURGE TESTING - NEMA MGI MOTORS AND GENERATORS - NFPA 110 EMERGENCY/STANDBY SYSTEMS - NFPA 37 INSTALLATION AND USE - UL 142 FUEL TANKS - UL 2200 GENERATOR SET - UL 489 CIRCUIT BREAKERS - UFC (OR CFC WHERE ADOPTED) ART 79 - UL 2085 FIRE RATED FUEL TANKS (WHEN REQUIRED BY AHJ) 	8.	PANEL SHALL IN INCLUDE THE F LEAK ALARM, S POSITION INDIC FOLLOWING A EACH AUTOMA FLOOR PLAN(S SHALL INCLUDI CONDUIT AND ANNUNCIATOF REMOTE GENEI	NDICATE ALL "ALARM/SHUTDO OLLOWING ADDITIONAL INDIC HUTDOWN, LOW BATTERY VOI CATION, AND LAMP TEST SWITC DDITIONAL INDICATORS: FIBER ATIC TRANSFER SWITCH. REMC I. WHEN REMOTE ANNUNCIAT E ALL COSTS TO PROVIDE 1 REI CONDUCTORS AS REQUIRED R PANEL(S) A MINIMUM OF 300 RATOR ANNUNCIATOR PANEL
. ALL PRODUCTS SHALL BE WARRANTED AGAINST DEFECTS IN MATERIAL AND WORKMANSHIP FOR 5 YEARS FROM START UP INCLUDING PARTS, LABOR AND TRAVEL EXPENSES.			
. ENGINE SHALL BE PROVIDED WITH THE FOLLOWING EQUIPMENT: - OIL PRESSURE, WATER TEMPERATURE, OIL TEMPERATURE, RPM, HOURS OF OPERATION, ENGINE STARTS COUNTER AND DC VOLTAGE METERS. - POSITIVE DISPLACEMENT OIL AND FUEL PUMPS WITH REPLACEABLE SPIN ON	9.	WHEN THE GEN SHALL BE PROV	VERATOR SCHEDULE INDICATES
 CANISTER ELEMENTS. ENGINE MOUNTED BATTERY CHARGING ALTERNATOR, 45-AMPERE MINIMUM, WITH SOLID STATE VOLTAGE REGULATOR. PROVIDE ALTERNATOR ANTI CONDENSATION HEATER WHEN LOCATED WITH 	lin	"COPPER"	- GENERATOR-TO-ATS COMM CONDUCTORS IN CONDUIT
 1/4 MILE OF AN OCEAN OR IN AREA WHERE THE AMBIENT TEMP. IS 32 DEGREES OR LOWER IN ANY TWO CONSECUTIVE DAYS. JACKET WATER HEATER. SIZE AS REQUIRED TO MAINTAIN 90°F AT LOWEST AMBIENT TEMPERATURE FOR PROJECT SITE. ELECTRONIC GOVERNOR WITH ADJUSTABLE CONTROL. ENGINE MOUNTED RADIATOR. PUSHER FAN, WATER PUMP AND THERMOSTAT. 		FIBER	 GENERATOR-TO-ATS COMM REQUIRED. FIBER OPTICS SF STANDARDS BY INSTALLERS ALL NECESSARY FIBER-TO-C FOR A COMPLETE AND USE SOURCE POWER TO ALLOW
 PROVIDE ELECTRIC STARTER, LEAD ACID TYPE 24VDC BATTERY. FULL LOAD OPERATION AT 122°F AMBIENT CONDITIONS AND 1,000FT ABOVE MEAN SEA LEVEL. DERATING FOR HOUSING IS UNACCEPTABLE FOR GENERATORS, 900KW CAPACITY OR LARGER, PROVIDE PACKAGED PRIMARY FUEL FILTER 	10.	WHEN THE GEN FOLLOWING SH	VERATOR SCHEDULE INDICATES
 SYSTEM ALLOWING FUEL FILTER REPLACEMENT DURING GENERATOR OPERATION. (DAHL#300 OR EQUAL). FOR GENERATORS, WITH LESS THAN 900KW CAPACITY, PROVIDE IN-LINE SINGLE PRIMARY FUEL FILTEI SYSTEM ALLOWING FUEL FILTER TO BE DRAINED OF WATER AND SEDIMENT DURING GENERATOR OPERATION. PROVIDE BATTERY HEATER, LUBE OIL HEATER(S) AND OIL PAN HEATER IN AREAS WHERE THE AMBIENT TEMP. IS 32 DEGREES OR LOWER IN ANY TWO CONSECUTIVE DAYS. 	R	"SNMP"	 PROVIDE SNMP OUTPUT VIA HMTL WEB BROSWER SERVE OWNER MANAGEMENT SYS PARAMETERS SHALL BE, AT I ANNUNCIATOR PANEL UNLI SOFTWARE ON OWNER FUR TO INCLUDE FULL TEXT PAG
 GENERATOR SHALL BE PROVIDED WITH THE FOLLOWING CHARACTERISTICS: LESS THAN 5% THD AT FULL LOAD AND 3% FOR SINGLE HARMONICS. TELEPHONE INFLUENCE FACTOR LESS THAN OR EQUAL TO 50 AS DETERMINED BY MGI. BRUSHLESS, THREE PHASE EXCITER WITH FULL WAVE SILICON DIODES, SUBJECT SUBDRESSED AND EXCITER CIRCUIT REFAKED 			PROGRAM AND INTEGRATE POSITION(S), SUB-BASE TAN ABOVEGROUND STORAGE SPECIFICATIONS) AND FUEL PROJECT - SEE FMS SPECIFIC
 PERMANENT MAGNET GENERATOR SHALL SUSTAIN 300% SHORT CIRCUIT FOR AT LEAST 10 SECONDS. ELECTRONIC OR CT BOOST METHODS ARE UNACCEPTABLE. TEMPERATURE RISE AT FULL LOAD SHALL NOT EXCEED 105°C. VOLTAGE REGULATOR SHALL BE 3 PHASE RMS SENSING, TEMPERATURE COMPENSATED, PULSE WIDTH MODULATED WITH 0.5% REGULATION. PROVIDE COMPLETE RFI SHIELDING. 100% LOAD TRANSFER IN ONE STEP. RESET SWITCH. TRANSIENT VOLTAGE PERFORMANCE: NOT MORE THAN 20% VARIATION FOR A 50% STEP - LOAD INCREASE OR DECREASE. VOLTAGE RECOVERS TO REMAIN WITHIN THE STEADY STATE OPERATING BAND WITHIN THREE SECONDS. TRANSIENT FREQUENCY PERFORMANCE: LESS THAN 5 % VARIATION FOR A 50% STEP LOAD INCREAS OR DECREASE. FREQUENCY RECOVERS TO REMAIN WITHIN THE STEADY STATE OPERATING BAND 	E	"BMS"	- PROVIDE OUTPUT TO (BUILD INTERFACE DEVICE. PROVI INTEGRATION INTO PROJEC PARAMETERS FOR THE BMS BY THE GENERATOR ANNUN FOR ADDITIONAL REQUIREM INTEGRATE THE ITEMS UNDE NOT LIMITED TO, COMMUN WITH POINT ID LISTS/REGIST ELECTRICAL EQUIPMENT (PI NECESSARY TO ASSIST THE E RELATES TO THE DIVISION 16
 WITHIN 5 SECONDS. GENERATOR CONTROL PANEL SHALL PROVIDE THE FOLLOWING FUNCTIONS: SHUTDOWN FUNCTIONS: OVERCRANK, OVERSPEED, LOW OIL PRESSURE, HIGH ENGINE TEMP, LOW COOLANT LEVEL, OVERVOLTAGE, UNDERVOLTAGE, UNDER FREQUENCY, AND REMOTE STOP LOAD SHED FUNCTIONS: OVERLOAD AND UNDERFREQUENCY. ALARM/SHUTDOWN/FAULT INDICATION: NOT-IN-AUTO, LOW OIL PRESSURE, PRE-HIGH ENGINE TEMP, PRE-LOW OIL PRESSURE, HIGH/LOW ENGINE TEMP, LOW FUEL, LOW DC LOAD VOLTAGE, OVERLOAD CIRCUIT BREAKER TRIP, LOW COOLANT LEVEL, OVERCRANK, OVERSPEED OVER/UNDER VOLTAGE, UNDER FREQUENCY, PLUS (2) SPARE INDICATORS. 	, D	"TELE"	- A PROGRAMMABLE FAX M MANUFACTURER GENERATO GENERATOR SYSTEM SHALL RECEIVE COMMANDS FROM PROVIDE AN ANALOG LINE COPY OF SOFTWARE ON O FULLY FUNCTIONAL IN ALL
 DIGITAL: VOLTMETER, AMMETER, FREQUENCY METER, KW, POWER FACTOR. WITH PHASE-TO-PHASE AND PHASE-TO-NEUTRAL SELECTOR SWITCH VOLTAGE/FREQUENCY TRIM CONTROLS +/- 5%. ANTI CONDENSATION HEATER WHEN LOCATED WITHIN 1/4 MILE OF AN OCEAN OR IN AREA WHERE THE AMBIENT TEMPERATURE IS 32 DEGREES OR LOWER IN ANY TWO CONSECUTIVE DAYS. 		"Std"	 A GENERATOR MANUFACT CONTROL SYSTEM TO MON STORAGE TANK) (IF PROVIE INFORMATION), ALARMS A
. GENERATOR CIRCUIT BREAKERS 400 AMP FRAME OR SMALLER SHALL BE 80% RATED, THERMAL-MAGNETIC TRIP WITH INVERSE TIME CURRENT CHARACTERISTICS UNLESS OTHERWISE NOTED. GENERATOR CIRCUIT BREAKERS LARGER THAN 400A FRAME SHALL BE 100% RATED, SOLID-STATE TYPE WITH MINIMUM FIVE FUNCTION COMPLETE WITH BUILT-IN CURRENT TRANSFORMERS. THE FIVE FUNCTIONS SHALL BE INDEPENDENTLY ADJUSTABLE AND CONSIST OF OVERLOAD/LONG TIME AMP RATING, LONG TIME DELAY, SHORT TIME DELAY, SHORT TIME DELAY, SHORT CIRCUIT/INSTANTANEOUS PICKUP, BUT MAY ALSO INCLUDE SHUNT TRIP AND/OR GROUND FAULT IF SO INDICATED ON THE DRAWINGS. RATING PLUGS SHALL BE INTERLOCKED SO THEY ARE NOT INTERCHANGEABLE BETWEEN FRAMES. RATING PLUGS SHALL BE INTERCHANGEABLE (FIXED OR ADJUSTABLE) TYPE AS INDICATED, TO HAVE A REJECTION FEATURE TO PREVENT INTERCHANGING BETWEEN CIRCUIT BREAKER FRAMES, AND INTERLOCKED SUCH THAT A BREAKER CANNOT BE CLOSED AND LATCHED	11.	THE GENERATO WHICH ALLOW CONDITIONS P 2-WAYS: A.	OR SET SHALL BE PROVIDED WIT 'S THE GENERATOR SET TO OPE REVIOUSLY SPECIFIED. ENCLO WHEN GENERATOR IS LOCA WATER BODY, PROVIDE ENG WITH SEMI RIGID ACOUSTIC
AND INSTANTANEOUS, AND GROUND FAULT (WHERE SHOWN) FUNCTIONS OF THE BREAKER BY MEANS OF A 120-VOLT OPERATED TEST KIT.	Ą		ARE ACCEPTABLE. INTERIO SHEET, RIVETED TO THE FRAI ACCEPTABLE. PROVIDE STA
LEVEL CONTACTS, RUPTURE BASIN ALARM CONTACTS, BASIN DRAIN, FUEL LINES, LOW 20%, 90%, AND 93% LEVEL CONTACTS, RUPTURE BASIN ALARM CONTACTS, BASIN DRAIN, FUEL LINES, LOCKABLE FILL CAP, DRAIN VALVE, VENTS, 5 GALLON SPILL/ OVERFILL CONTAINMENT, SOUNDING/CLEANOUT PORT AND U.L. LABEL. ADDITIONALLY ALL SUB BASE TANKS SHALL COMPLY WITH THE FOLLOWING:	٧	В.	PRE-PAINTED FORMED ALU/ GRADE 0.080 MINIMUM FO MARINE GRADE MILL FINISH AN INTERLOCKING STANDIN SQUARE FOOT. ALL EXTERN
- ALL TANKS SHALL BE PROVIDED WITH AN EMERGENCY VENT THAT RELEASES TO THE OUTSIDE OF THE BUILDING OR ENCLOSURE.			TYPE MECHANICAL FASTEN
- ALL TANKS SHALL BE PROVIDED WITH SIGNAGE READING "COMBUSTIBLE LIQUID II. ALL LETTERING SHALL BE IN CAPITAL LETTERS ON A CONTRASTING BACKGROUND. SIGNS SHALL BE OF DURABLE CONSTRUCTION AND SUITABLE FOR THE ENVIRONMENT IN WHICH THEY ARE INSTALLED. LETTERS SHALL NOT BE LESS THAN 3" IN HEIGHT. TANKS SHALL BE POSTED WITH HAZARDOUS MATERIALS IDENTIFICATION SIGNS LOCATED SO IT IS VISIBLE FROM ALL ANGLES OF APPROACH		C.	- ENCLOSURE SHALL BE D
 PROVIDE BOTH EMERGENCY FUEL VENT PIPES (PER UL 142) AND NORMAL FUEL VENT PIPES, SIZED AS REQUIRED, SUCH THAT VAPORS ARE RELEASED 12 FEET ABOVE ADJACENT GRADE AND A MINIMUM OF 10' FEET FROM ANY BUILDING. VERIFY AND MEET ANY ADDITIONAL REQUIREMENTS IMPOSED BY THE LOCAL AUTHORITY HAVING JURISDICTION (AHJ) PRIOR TO ROUGH-IN. IF THE AHJ ALLOWS EMERGENCY VENT TO TERMINATE AT A LOWER LEVEL, GENERATOR MANUFACTURER SHALL TERMINATE THE EMERGENCY VENT AT THE LOWER LEVEL. 			SHALL HAVE CROSS BRA HARDWARE (INTERIOR) / DOORS SHALL BE EQUIP SWITCHES/CONTACTS (S DOOR SHALL BE LOCATI BREAKER TO PROVIDE C
ALL SUB-BASE TANKS SHALL EQUIPPED WITH AN OVERFILL PREVENTION SYSTEM CONSISTING OF ENGINE BATTERY-POWERED HORN THAT SOUNDS AND AUDIBLE ALARM WHEN THE TANK IS 90% FULL			

STED AS A MINIMUM. PROVIDE UL2085-LISTED FIRE-RATED, CAL AUTHORITY HAVING JURISDICTION. THE ELECTRICAL TO VERIFY THIS REQUIREMENT WITH THE AHJ AND INCLUDE ALL

AGE TANK(S) (AST) IS SPECIFIED FOR THE PROJECT, THE BE EQUIPPED WITH A DUPLEX FUEL RETURN PUMP TO RETURN (S) TO THE REMOTE ABOVE GROUND STORAGE TANK(S) IN MAINTENANCE SYSTEM IS SPECIFIED ON THE PROJECT, THE FUEL OPERATION OF SUB-BASE RETURN PUMPS AND ANY _ MAINTENANCE ALLOWING RETURN OF SUB-BASE FUEL TO ED AST FUEL TO SUB-BASE TANKS.

REMOTE ANNUNCIATOR PANEL(S) SHALL BE PROVIDED, EACH IN" EVENTS AS THE GENERATOR CONTROL PANEL AND SHALL ATORS: LOW LEVEL FUEL, HIGH LEVEL FUEL ALARM, FUEL TANK AGE, BATTERY CHARGER MALFUNCTION, ALARM SILENCE, ATS WHEN A FIBER OPTIC NETWORK IS INDICATED PROVIDE THE VETWORK POWER SUPPLY LOW VOLTAGE AND FAILURE FOR E ANNUNCIATOR PANEL(S) SHALL BE PROVIDED PER THE OR PANEL(S) IS NOT SHOWN ON FLOOR PLAN(S), THE E.C. OTE GENERATOR ANNUNCIATOR PANEL PER GENERATOR W/ D LOCATE FLUSH-MOUNTED REMOTE GENERATOR T. FROM THE POINT OF ENTRANCE INTO THE FACILITY OF THE CONDUIT(S) WITH FINAL LOCATION BY THE OWNER/ARCHITECT.

A "NETWORK" OPTION, ONE OR MORE OF THE FOLLOWING

UNICATIONS SYSTEM VIA COPPER COPPER AS REQUIRED.

UNICATIONS SYSTEM VIA FIBER OPTICS IN CONDUIT AS ALL BE INSTALLED, TERMINATED AND OTDR-TESTED PER EIA/TIA CERTIFIED BY FIBER OPTIC CABLING MANUFACTURER. PROVIDE OPPER TRANSCEIVERS, PATCH CABLES, PATCH PANELS ETC. BLE SYSTEM TO INCLUDE SUITABLE BATTERY BACK-UP POWER TRANSCEIVERS TO FUNCTION DURING A POWER OUTAGE.

A "COMMUNICATION" OPTION, ONE OR MORE OF THE

BRIDGE OR INTERFACE DEVICE WITH GENSET MANUFACTURER SOFTWARE. PROVIDE SNMP TRAPS FOR INTEGRATION INTO EM SOFTWARE AS REQUIRED. REPORTING/MONITORING INIMUM, THE SAME POINTS MONITORED BY THE GENERATOR SS OTHERWISE NOTED. INSTALL 1 COPY OF WEB BROWSER ISHED SERVER AND MAKE FULLY FUNCTIONAL IN ALL ASPECTS IG AND EMAIL NOTIFICATION FEATURES. ADDITIONALLY, NPUT/OUTPUT MODULE(S) AS REQUIRED TO REPORT ATS (S) ALARMS AND FUEL LEVEL(S), REMOTE FILL STATION(S), ANK(S) (AST) ALARMS (IF PROVIDED ON PROJECT - SEE AST MAINTENANCE SYSTEM(S) (FMS) ALARMS (IF PROVIDED ON ATIONS).

NG MANAGEMENT SYSTEM) BMS VIA BMS GATEWAY E OUTPUT REGISTERS IN THE APPROPRIATE PROTOCOL FOR 'S BUILDING MANAGEMENT SYSTEM SOFTWARE. MONITORING YSTEM SHALL BE, AT MINIMUM, THE SAME POINTS MONITORED CIATOR PANEL. SEE BMS DRAWINGS AND SPECIFICATIONS ENTS. THE E.C. SHALL INCLUDE ALL COSTS IN THE BASE BID TO DIVISION 16 WITH THE BMS SYSTEM WHICH INCLUDES, BUT IS CATIONS INTERFACE MODULES, DRY CONTACTS ETC ALONG RS, BITMAPS AND/OR CADD FILES OF EACH PIECE OF AN VIEW AND ELEVATION VIEW) AND MAN-HOURS AS AS CONTRACTOR IN COMMISSIONING THE BMS SYSTEM AS IT ITEMS WITH WHICH IT COMMUNICATES.

DEM SHALL BE PROVIDED TO COMMUNICATE WITH GENSET R SYSTEM MONITORING AND CONTROL SOFTWARE. E PROGRAMMED TO SEND ALERT NOTIFICATIONS AND SYSTEM SOFTWARE. E.C. SHALL INCLUDE ALL COSTS TO PHONE JACK AS REQUIRED FOR THIS CONNECTION. INSTALL 1 VNER-FURNISHED COMPUTER AND MAKE SYSTEM SOFTWARE SPECTS.

RER-STANDARD GENERATOR/ATS/GAP/AST MONITORING AND OR ATS POSITION(S), SUB-BASE TANK(S), AST (ABOVE-GROUND D ON PROJECT - SEE ATS SPECIFICATION FOR MORE D FUEL LEVEL(S).

A WEATHERPROOF HOUSING, AT MINIMUM, ATE AT FULL RATED LOAD IN THE AMBIENT URE SHALL BE CONSTRUCTED IN EITHER OF

TED MORE THAN 1/4 MILE OF AN OCEAN OR OTHER SALT LOSURES OF 14 GAUGE STEEL, ALL WELDED CONSTRUCTION SOUND BOARD HAVING A UL FLAME SPREAD OF 25 OR LESS SHALL BE FULLY LINED WITH A GALVANIZED PERFORATED EWORK AT 24" ON CENTER. SCREW FASTENERS ARE NOT NLESS STEEL EXTERIOR HARDWARE.

INUM PANELS. WALLS SHALL BE CONSTRUCTED OF MARINE MED ALUMINUM PANELS. ROOF SHALL BE CONSTRUCTED OF 0.125 MINIMUM THICKNESS FORMED ALUMINUM PANELS USING G SEAM DESIGN CAPABLE OF SUPPORTING 75 POUNDS PER AL ATTACHING HARDWARE SHALL BE STAINLESS STEEL SCREW

L REQUIREMENTS APPLY TO GENERATOR ENCLOSURES:

IGNED FOR 100 MPH WINDS AND SEISMIC ZONE-4 CONDITIONS.

A MINIMUM OF FIVE COMMON KEY LOCKING DOORS. DOORS CING, DOOR HOLDBACKS, GUTTERS, BUBBLE TYPE GASKET, PANIC ND 2-POINT LOCKING ROLLER HARDWARE (EXTERIOR). ALL D WITH STAINLESS STEEL HARDWARE/HINGES, DOOR POSITION NTROL OR EQUAL) FOR CONNECTION TO SECURITY SYSTEM. A DIRECTLY IN FRONT OF EACH GENERATOR MOUNTED CIRCUIT DE-REQUIRED CLEARANCES.

- ENCLOSURE SHALL HAVE A COMPLETE PRE-FABRICATED EXHAUST SYSTEM FOR INTERNAL MOUNTING OF THE SILENCER INCLUDING STAINLESS STEEL FLEX CONNECTOR, SILENCER, ELBOW, RAIN CAP, RAIN SHIELD AND STRUCTURAL SUPPORT AS REQUIRED. PROVIDE INSULATION BLANKETS ON EXHAUST PIPING AND SILENCER, WITH SILENCER MOUNTING BRACKETS. IF VERTICAL RADIATOR DISCHARGE IS INDICATED IN GENERATOR SCHEDULE THEN THE EXHAUST PIPE OUTLET SHALL BE CENTERED IN THE SLIPSTREAM OF THE VERTICAL DISCHARGE DUCT. EXTERNAL MOUNTING OF THE SILENCER IS UNACCEPTABLE. IF PARTICULATE MATTER FILTER IS REQUIRED BY LOCAL AIR QUALITY MANAGEMENT AUTHORITY, A COMBINATION SILENCER/PARTICULATE MATTER FILTER SHALL BE MOUNTED INTERNALLY WITHIN THE ENCLOSURE.
- ENCLOSURE INTAKE AIR SHALL ENTER THE ENCLOSURE THROUGH AN ACOUSTIC BAFFLE SECTION LOCATED IN THE REAR SIDEWALLS AND/OR ROOF TOP OF THE ENCLOSURE AND SHALL INCLUDE AND 1/2" X 1/2" STAINLESS STEEL OR ALUMINUM RODENT/BIRD SCREEN. AIR INTAKE SHALL BE 1250 FEET PER MINUTE OR LESS TO MINIMIZE WATER INTRUSION.
- ENCLOSURE RADIATOR DISCHARGE AIR SHALL PASS THROUGH A HORIZONTAL OR VERTICAL DISCHARGE PLENUM SECTION AS INDICATED IN GENERATOR SCHEDULE. EITHER TYPE SHALL INCLUDE A 1/2" X 1/2" STAINLESS STEEL OR ALUMINUM RODENT/BIRD SCREEN. ADDITIONALLY, WHEN LOCATED IN AREAS WHERE AMBIENT TEMPERATURE REACHES 20 DEGREES F, PROVIDE A GRAVITY DAMPER(S) .THE AIR HANDLING SYSTEM SHALL BE ENGINEERED AND CONSTRUCTED SO AS NOT TO EXCEED A TOTAL OF 0.50 INCHES OF WATER GAUGE STATIC PRESSURE DROP (INTAKE AND DISCHARGE COMBINED TO INCLUDE UNIT-MOUNTED LOAD BANK, IF REQUIRED) WITH MINIMAL WATER INTRUSION. VERTICAL RADIATOR DISCHARGE DUCTING SHALL BE EQUIPPED WITH A RAIN GUTTER AND RAIN PORTS TO ALLOW WATER TO DRAIN OUT THE BOTTOM OF THE DUCT. INCLUDE ALL COSTS TO EXTEND HORIZONTAL RADIATOR DISCHARGE PLENUM FROM THE GENERATOR ENCLOSURE TO ANY ARCHITECTURAL SCREEN WALL AND ENCOMPASS ARCHITECTURAL SCREEN WALL LOUVERED OPENING(S) AS REQUIRED.

- ENCLOSURE ROOF SHALL BE PITCHED MINIMUM OF 1/2" ON 12".

ENCLOSURE FOR 600KW OR LARGER GENERATOR OR GENERATORS WITH "WALK-IN" STYLE ENCLOSURES, PROVIDE INTEGRAL UNIT-MOUNTED 3-PHASE, 4-WIRE UNIT MOUNTED LOAD CENTER. HOUSING SHALL BE PRE-WIRED TO ALL NECESSARY JACKET HEATERS, BATTERY CHARGERS, RETURN PUMPS, ANTI CONDENSATE HEATERS ALONG WITH A MINIMUM OF (4) 120V, 100W, INCANDESCENT A19 LAMP VAPOR PROOF FIXTURES, (2) 120V, 15A GFCI WEATHER PROOF RECEPTACLES EVENLY DISTRIBUTED ON EACH SIDE OF THE GENSET -LOCATED TO MAINTAIN ALL CODE CLEARANCES. EC TO PROVIDE FEEDER, AS REQUIRED, FROM NEARBY PANELBOARD.

- ENCLOSURE SHALL HAVE OPENINGS FOR FUME DISPOSAL, OIL DRAIN, AND RADIATOR DRAIN SHALL BE PROVIDED.
- LIFTING RINGS SHALL BE WELDED TO EACH CORNER OF ENCLOSURE BASE FRAME FOR LIFTING ENCLOSURE.
- WHEN ENCLOSURE IS PAD MOUNTED, ANGLES BRACKETS SHALL BE SUPPLIED ON OUTSIDE OF ENCLOSURE FRAME FOR CONNECTION TO PAD. SUB BASE TANK MOUNTED ENCLOSURES HAVE HOLES DRILLED IN STRUCTURAL BASE FRAME TO MATCH THE TOP OF THE TANK.
- U.O.N. ENCLOSURES AND SUB BASE TANKS SHALL HAVE: A) (2) COATS OF IRON OXIDE ALKYD PRIMER (TOTALING 2.5 MILS) APPLIED TO ALL NON-GALVANIZED STEEL SURFACES WITH FINISH COAT OF A 3 MIL, HIGH QUALITY ALKYD ENAMEL, SUITABLE FOR INLAND ENVIRONMENTS. OR B) DUAL COAT CATHODIC ELECTRO-DEPOSITION PROCESS WITH 1.2 MIL BAKE-CURED EPOXY PRIMER AND A 2.7 MIL BAKE-CURED ACRYLIC TOP COATING. SUB-BASE TANK BOTTOMS SHALL BE FINISHED WITH A COAL TAR-BASED EPOXY OF 3 MILS. ENCLOSURE COLOR SHALL BE EITHER STANDARD FACTORY COLOR OR CUSTOM COLOR AS INDICATED IN GENERATOR SCHEDULE. CUSTOM COLORS SHALL BE WHITE, BEIGE OR OTHER LIGHT COLOR TO MATCH/COMPLIMENT BUILDING FINISH AS SELECTED BY THE ARCHITECT.
- WHEN INDICATED IN THE GENERATOR SCHEDULE, ENCLOSURE SHALL HAVE PROVISIONS FOR ADDING AN UNIT-MTD LOAD BANK AND LOAD BANK CONTROL PANEL.
- WHEN INDICATED IN THE GENERATOR SCHEDULE PROVIDE ONE OF THE FOLLOWING SOUND ATTENUATION LEVELS TO THE GENERATOR SYSTEM ENCLOSURE:
- "STD" MINIMUM ACCEPTABLE SOUND LEVEL SHALL BE STANDARD GENERATOR MANUFACTURER'S WEATHER HOUSING.
- "STAGE 1" MINIMUM ACCEPTABLE SOUND LEVEL SHALL BE:
 - 81 dBA AT 23 FEET IN A FREE FIELD ENVIRONMENT (600KW AND LARGER) - 85 dBA AT 23 FEET IN A FREE FIELD ENVIRONMENT (SMALLER THAN 600KW)
- "STAGE 2" MINIMUM ACCEPTABLE SOUND LEVEL SHALL BE:
 - 77 dBA AT 23 FEET IN A FREE FIELD ENVIRONMENT (600KW AND LARGER)
 - 74 dba at 23 feet in a free field environment (smaller than 600kw)

"CUSTOM" - MINIMUM ACCEPTABLE SOUND LEVEL SHALL BE AS SPECIFIED IN THE GENERATOR SCHEDULE AND SHALL BE ACHIEVED BASED ELECTRICAL CONTRACTOR-PROVIDED ACOUSTICAL ANALYSIS AND MODELING OF ALL NEARBY EXISTING AND/OR NEW STRUCTURES IN ADDITION TO CUSTOM SOUND ATTENUATION GENSET ENCLOSURE. ANALYSIS SHALL DEMONSTRATE COMPLIANCE WITH ATTENUATION REQUIREMENTS AS REQUIRED TO MEET ALL LOCAL NOISE ORDINANCE REQUIREMENTS AND/OR SPECIFIC OWNER REQUIREMENTS U.O.N.

ENCLOSURES SHALL BY MANUFACTURED BY LISTED GENERATOR MANUFACTURERS, ALL METAL FABRICATION CO., OR SURROUND TECHNOLOGIES INC.

12. WHEN INDICATED IN THE GENERATOR SCHEDULE PROVIDE ONE OF THE FOLLOWING LOAD BANK TYPES:

"PORTABLE" - PROVIDE CIRCUIT BREAKER TO FEED PORTABLE LOAD BANK. BREAKER SHALL SIZED TO SUPPORT A LOAD BANK RATED FOR 60% OF THE GENERATOR KW OUTPUT RATING. BREAKER SHALL BE SHUNT TRIP EQUIPPED INCLUDE NECESSARY CONTROLS TO OPEN UPON UTILITY FAILURE PRIOR TO A.T.S. TRANSFER TO GENERATOR.

"UNIT-MOUNTED" - PROVIDE INTEGRAL, RADIATOR-MOUNTED, UNITY POWER FACTOR, RESISTIVE LOAD BANK SIZED TO PROVIDE 60% OF THE GENERATOR FULL KW OUTPUT. LOAD BANK FRAME SHALL BE CONSTRUCTED OF ALUMINIZED STEEL. RESISTANCE LOAD ELEMENTS SHALL CONSIST OF CHROMIUM ALLOY WIRE AND DERATED TO 50% OF THE MAX. CONTINUOUS RATING OF THE WIRE. LOAD BANK COOLING SHALL BE PROVIDED BY THE GENERATOR'S ENGINE-DRIVEN FAN. LOAD BANK CONTROL POWER SHALL BE PROVIDED VIA CONTROL POWER TRANSFORMER SUPPLIED BY THE GENERATOR. LOAD BANK CONTROL PANEL SHALL BE MOUNTED REMOTELY WITHIN THE GENSET ENCLOSURE AS NEAR THE GENSET CONTROL PANEL AS POSSIBLE. CONTROL PANEL SHALL BE EQUIPPED WITH AUTO LOAD DUMP FEATURE TO DUMP LOAD BANK UPON LOSS OF COMMERCIAL POWER. CONTROL PANEL SHALL ADD/SHED LOAD IN 5 EQUAL STEPS. EACH STEP SHALL BE PROVIDED WITH BRANCH CIRCUIT FUSING. GENERATOR-MOUNTED CIRCUIT BREAKER SHALL SIZED TO SUPPORT THE LOAD BANK AS REQUIRED.

"REMOTE" - PROVIDE REMOTE, FREE STANDING, OUTDOOR RATED, UNITY POWER FACTOR, RESISTIVE LOAD BANK SIZED TO PROVIDE 60% OF THE GENERATOR FULL KW OUTPUT. LOAD BANK SHALL BE VERTICAL DISCHARGE TYPE WITH ANGLED EXHAUST HOOD FOR 750KW AND GREATER. LOAD BANK ENCLOSURE SHALL BE CONSTRUCTED OF ALUMINIZED STEEL WITH STAINLESS STEEL EXTERIOR FASTENERS AND POLYETHYLENE ENAMEL FINISH - GALVANIZED STEEL CONSTRUCTION IS UNACCEPTABLE. RESISTANCE LOAD ELEMENTS SHALL CONSIST OF CHROMIUM ALLOY WIRE AND DERATED TO 50% OF THE MAX. CONTINUOUS RATING OF THE WIRE. LOAD BANK COOLING SHALL BE PROVIDED BY INTEGRALLY MOUNTED BLOWER FANS POWERED FROM THE GENERATOR. LOAD BANK CONTROL POWER SHALL BE PROVIDED VIA CONTROL POWER TRANSFORMER SUPPLIED BY THE GENERATOR. REMOTE NEMA 3R LOAD BANK CONTROL PANEL SHALL BE MOUNTED REMOTELY WITHIN THE LOAD BANK OR GENSET ENCLOSURE PER PLAN. CONTROL PANEL SHALL BE EQUIPPED WITH AUTO LOAD DUMP FEATURE TO DUMP LOAD BANK LOAD UPON LOSS OF COMMERCIAL POWER WHILE ALLOWING LOAD BANK FANS TO CONTINUE COOL-DOWN OPERATION. CONTROL PANEL SHALL ADD/SHED LOAD IN 5 EQUAL STEPS. EACH STEP SHALL BE PROVIDED WITH BRANCH CIRCUIT FUSING. GENERATOR-MOUNTED CIRCUIT BREAKER SHALL SIZED TO SUPPORT THE LOAD BANK AS REQUIRED.

UNIT MOUNTED AND REMOTE LOAD BANKS SHALL BE BY AVTRON OR EQUAL BY LOADTEC OR SIMPLEX.

13. GENERATOR SYSTEM HEIGHT, INDICATED IN THE GENERATOR SCHEDULE, SHALL BE THE MAXIMUM ALLOWED HEIGHT OF THE GENERATOR TO INCLUDE THE HEIGHT OF THE GENERATOR HOUSING, SUB-BASE TANK, VIBRATION ISOLATORS, ETC. THIS IS A CRITICAL DIMENSION THAT HAS BEEN COORDINATED WITH SCREEN AND OR ENCLOSURE WALL HEIGHTS ETC. NO ADDITIONAL COST SHALL BE BORNE BY THE OWNER TO MODIFY OTHER STRUCTURES OR SYSTEMS TO ACCOMMODATE A GENERATOR SYSTEM TALLER THAN SPECIFIED.

14. GENERATOR SYSTEM WEIGHT, INDICATED IN THE GENERATOR SCHEDULE, SHALL BE THE MAXIMUM ALLOWED WEIGHT OF THE GENERATOR TO INCLUDE THE WEIGHT OF ENGINE/GENERATOR, GENERATOR HOUSING, ANY UNIT-MOUNTED LOAD BANK, SUB-BASE TANK FULL OF FUEL, VIBRATION ISOLATORS, ACCESSORIES, ETC.

15. WHEN LOCATED WITHIN SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT (SCAQMD), THE ENGINE SHALL BE PRE-REGISTERED WITH SCAQMD FOR USE IN EMERGENCY GENERATORS ALLOWING FOR AN "OVER THE COUNTER" APPROVAL PROCESS. WHEN LOCATED ELSWHERE, THE ENGINE SHALL COMPLY WITH ALL LOCAL AIR QUALITY MANAGMENT DISTRICT REQUIREMENTS FOR USE IN EMERGENCY GENERATORS ALLOWING FOR AN "OVER THE COUNTER" APPROVAL PROCESS, IF AVAILABLE.

16. INCLUDE ALL COSTS IN BASE BID MEET THE PERMIT/FILING REQUIREMENTS OF THE LOCAL/REGIONAL WATER QUALITY CONTROL BOARD OR SIMILAR AUTHORITY GOVERNING THE PROJECT SITE.

17. IF THE PROJECT REQUIRES MORE THAN A TOTAL OF 1320 GALLONS OF FUEL, THE CONTRACTOR SHALL INCLUDE ALL COSTS IN BASE BID TO PREPARE AND FILE A SPILL PREVENTION, CONTROL AND COUNTERMEASURES (SPCC) PLAN PER ARTICLE 40 CODE OF FEDERAL REGULATIONS (CFR) PART 112 WITH THE OWNER AND THE CA. STATE WATER RESOURCES BOARD OR APPLICABLE STATE'S ENVIRONMENTAL/WATER QUALITY AGENCY. THE PLAN SHALL BE STAMPED BY A PROFESSIONAL ENGINEER FROM THE STATE IN WHICH THE PROJECT OCCURS.

18. IF THE PROJECT GENERATOR(S) IS LOCATED WITHIN SAQMD JURISDICTION AND WITHIN 100 METERS OF A KINDERGARTEN TO 12TH GRADE SCHOOL, INCLUDE ALL COSTS IN BASE BID TO COMPLY WITH SCAQMD RULE 1470 TO INCLUDE PARTICULATE MATTER FILTERS, BACKPRESSURE/TEMPERATURE ALARM/DATA LOGGER. IF NECESSARY, PROVIDE UNIT-MOUNTED LOAD BANK, SIZED PER THIS SPECIFICATION, FOR PROPER OPERATION OF PARTICULATE MATTER FILTERS AT ALL GENERATOR OPERATING RANGES (0 TO 100% LOAD).

19. SHOP DRAWING INFORMATION SHALL BE PROVIDED PER GENERAL SPECIFICATION REQUIREMENTS SHOWING COMPLIANCE WITH THE ABOVE SPECIFICATION. INCLUDE ALL REQUIRED NETWORK WIRING DIAGRAMS, COMPONENTS, ETC.

20. FINAL INSTALLATION SHALL BE TESTED AND APPROVED BY THE MANUFACTURER'S FACTORY TRAINED TECHNICIAN. TEST TO INCLUDE 100% RESISTIVE LOAD BANK TEST FOR 2 HOURS AND ATS TRANSFER TEST.

21. GENERATOR MANUFACTURER SHALL PROVIDE AND WARRANTY ALL AUTOMATIC TRANSFER SWITCH EQUIPMENT. SEE ATS SPECIFICATIONS FOR MORE INFORMATION.

22. GENERATOR EQUIPMENT SHALL BE PROVIDED BY MTU ONSITE ENERGY

SPECIAL FIELD GENSET TEST PROCEDURE

THE FOLLOWING TESTS SHALL BE PERFORMED ON EACH GENSET IN CONCERT WITH RESPECTIVE SWITCHGEAR:

1. VERIFY ALL ELECTRICAL, EXHAUST, FUEL & WATER CONNECTIONS FOR PROPER SIZE CONNECTIONS FOR PROPER SIZE, CONTINUITY, PHASE ROTATION, AND TIGHTNESS OF FITTINGS. CHECK ALL FLUIDS FOR APPROPRIATE LEVELS. VERIFY OPERATION OF JACKET WATER HEATER, BATTERY CHARGER, PARALLELING SWITCHGEAR/ATS AND ANNUNCIATOR CONNECTIONS. START UP ENGINE AND MAKE INITIAL CHECK OF VOLTAGE, FREQUENCY, BATTERY CHARGING, OIL PRESSURE, WATER TEMPERATURE AND SAFETY SHUTDOWNS.

2. CONNECT PORTABLE LOAD BANK(S,), IF PROVIDED, AT 100% OF GENERATOR RATING AT UNITY POWER FACTOR. ANY UNIT-MOUNTED OR REMOTE LOAD BANKS PROVIDED ON THE PROJECT SHALL NOT BE USED FOR LOAD TESTING. GENERATOR SET SHALL BE RUN FOR 1 HOUR AT 75%, THEN 1 HOUR AT 100%. RECORD WATER TEMPERATURE, OIL PRESSURE, AMBIENT AIR TEMPERATURE, VOLTAGE, CURRENT, FREQUENCY, AND KILOWATTS EVERY 15 MINUTES. TEST ALL SAFETY DEVICES USING METHODS RECOMMENDED BY THE MANUFACTURER. AT CONCLUSION OF TEST ALLOW 10 MINUTE UNLOADED COOL DOWN BEFORE SHUTDOWN.

3. IF UNIT MOUNTED OR REMOTE LOAD BANKS ARE PROVIDED ON THE PROJECT, TEST LOAD DUMP FEATURE OF THE LOAD BANK(S) AS IF ROUTINE GENERATOR TESTING WAS OCCURRING USING THE LOAD BANK(S) AND COMMERCIAL POWER FAILED DURING THE ROUTINE TEST.

4. TEST GENERATOR CONTROLS IN REMOTE POSITION USING THE BUILDING LOAD. SIMULATE FAILURE OF THE NORMAL POWER SOURCE BY OPENING NORMAL SOURCE BREAKER. ENGINE GENERATOR SHALL START AND ASSUME LOAD WITHIN 10 SECONDS. TEST EACH GENSET-MOUNTED EPO.

5. TEST GENERATOR COMMUNICATIONS SYSTEM AS SPECIFIED TO INCLUDE REMOTE ANNUNCIATION OF ALARMS AND STATUS AT REMOTE ANNUNCIATOR ALARM PANELS, BMS CONTROL STATIONS AND OWNER-FURNISHED PCS. IF OWNER-FURNISHED LOCAL AREA NETWORK OR MODEM LINES ARE UNAVAILABLE, INCLUDE ALL COSTS TO DELAY THIS PORTION OF TESTING AND RETURN AT A TIME WHEN THESE COMMUNICATIONS LINKS ARE AVAILABLE FOR COMMUNICATIONS SYSTEM TESTING.

6. ANY FAILURE OR MALFUNCTION OF EQUIPMENT OR CONTROLS DURING ANY TIME OF TEST PROCEDURE SHALL BE CORRECTED AND RETESTED AT NO ADDITIONAL COST TO OWNER.

7. PRODUCTION AND FIELD TEST RESULTS SHALL BE DOCUMENTED AND FORWARDED TO THE ENGINEER.

8. PROVIDE OPERATOR TRAINING AT CONCLUSION OF TESTING TO PERSONNEL DESIGNATED BY THE OWNER AT A MINIMUM OF 4 HOURS. TRAINING SHALL COVER PROPER STARTING, TESTING AND OPERATION OF THE GENSET, PROGRAMMING/USE OF GENSET CONTROL SYSTEM TO INCLUDE ADDING/CHANGING SET/ALARM POINTS, MANIPULATING GRAPHIC SCREEN INTERFACES, ETC., REQUIRED PREVENTIVE MAINTENANCE AND APPROPRIATE RECORD KEEPING METHODS. TRAIN PERSONNEL IN PERIODIC MAINTENANCE OF THE BATTERIES.

ENGINEERING & CONSU 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					
Λ	PC RESUBMITTAL	05/18/22					
Δ	PC RESUBMITTAL	10/28/22					
$\overline{\mathbb{A}}$	HCD REVISION 1	12/16/22					
$\underline{\land}$	PC RESUBMITTAL	02/02/23					
$\overline{5}$	HCD & PC RESUBMITTAL	06/06/23					
$\underline{\land}$	hcd resubmittal	06/14/23					
\triangle	PC RESUBMITTAL	07/10/23					
$\boxed{\$}$	CLIENT REVISIONS	07/11/23					
\land	CLIENT REVISIONS	08/04/23					
$\overline{\Lambda}$	PC RESUBMITTAL (ELEC)	09/12/23					
$\overline{\mathbb{A}}$	PC RESUBMITTAL (ELEC)	10/05/23					
Λ	CLIENT REVISIONS	10/12/23					
Plot Date: 10/11/2023 4:28:09 PM							

SHEET TITLE:

GENERATOR **SPECIFICATIONS**

SHEET NO:

SCALE GENERATOR SPECIFICATIONS NTS

GENERATOR SEPARATELY DERIVED GROUNDING SYSTEM

REMARKS

NATURAL GAS

SCALE	2
NTS	

WHERE NO EFFECTIVE GROUNDING ELECTRODE IS AVAILABLE PER ART. 250.50, PROVIDE 1 #*cu. 3/4"C. TO OTHER LOCAL METAL UNDERGROUND PIPING SYSTEMS AND TANKS, OR ROD AND PIPE ELECTRODES WITH MIN. OF 10 FT. IN LENGTH

250.52(A)(5)(a) & (b), OR PLATE ELECTRODES, WHICHEVER IS AVAILABLE, PER ART 250.52 (A)(5),

10' COPPER GROUND ELECTRODE(S)W/ EXOTHERMIC CONNECTION(S) TO GROUND

CONDUCTOR. PROVIDE FIBER GLASS INSPECTION WELL(S). QUANTITIY AS REQUIRED TO ACHIEVE CODE-REQUIRED RESISTANCE

2

SCALE

		Applica	tion Data
Cooling			RDC2 Cont
Radiator System	60 Hz	50 Hz	
Ambient temperature, °C (°F) Radiator system capacity, including	45 (113)	
engine, L (gal.)	21.3	(5.6)	Vol
Engine jacket water flow, Lpm (gpm)	131 (34.6)	109 (28.8)	
Heat rejected to cooling water at rated	54 (2070)	40 (2700)	
Water pump type	Centr	ifuaal	
Fan diameter, mm (in.)	qty. 3 @	356 (14)	
Fan power requirements (powered by			
engine battery charging alternator)	12VDC, 18	amps each	The BDC2 controller provides integra
Operation Requirements			generator set, Kohler® Model RXT tra
Air Requirements	60 Hz	50 Hz	programmable interface module (PIM
Radiator-cooled cooling air,			The RDC2 controller's 2-line LCD scr
m³/min. (scfm)†	62.2 (2200)	62.2 (2200)	messages and system settings that a
Air over engine, m ³ /min. (cfm)	31.1 (1100)	31.1 (1100)	even in direct sunlight or low light.
\div Air density = 1.20 kg/m ³ (0.075 lbm/ft ³)	4.0 (102)	5 5
	/		RDC2 Controller Features
Fuel Consumption [‡]			 Membrane keypad:
Natural Gas, m ³ /hr. (cfh) at % load	60 Hz	50 Hz	 OFF, AUTO, and RUN pushbutt
100%	28.7 (1013)	24.9 (878)	 Select and arrow buttons for ac
75% 50%	21.6 (761)	18.7 (660)	configuration and adjustment m
25%	7.0 (248)	6.1 (215)	 LED indicators for OFF, AUTO, and
LP Gas, m ³ /hr. (cfh) at % load	60 Hz	50 Hz	 LED indicators for utility power and availability and ATS position (Mode
100%	10.1 (357)	8.8 (309)	required)
75%	7.2 (255)	6.3 (221)	 ICD screen:
50%	5.4 (191)	4.7 (166)	 Two lines x 16 characters per lines
25%	3.2 (113)	2.8 (98)	 Backlit display with adjustable c
* Nominal Fuel Rating: Natural LP Vap	gas, 37 MJ/m ³ (or, 93 MJ/m ³ (25	(1000 Btu/ft ³) 600 Btu/ft ³)	visibility in all lighting conditions
LP vapor conversion factors:			 Scrolling system status display
$8.58 \text{ ft.}^3 = 1 \text{ lb.}$			• Generator set status
$0.535 \text{ m}^3 = 1 \text{ kg}.$			 Voltage and frequency
$36.39 \text{ fm}^{-3} = 1 \text{ gal}.$			• Engine temperature
Sound Enclosure Feature	S		
• Sound-attenuating enclosure uses	acoustic insu	ation that	Engine runtime nours
meets UL 94 HF1 flammability clas	ssification and	repels	 Date and time displays

• Internally mounted critical silencer.

moisture absorption.

• Skid-mounted, aluminum construction with two removable access panels. • Scratch- and corrosion-resistant Kohler[®] cashmere powder-baked finish.

Sound Data

Model 60RCLB sound levels are 62 dB(A) during weekly engine • Exercise modes 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.

roller

ated control for the ansfer switch. M), and load shed kit. reen displays status are clear and easy to read,

- ttons ccess to system
- ienus nd RUN modes
- d generator set source el RXT transfer switch
- contrast for excellent
- 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
- 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.

G4-307 (60RCLB) 6/21

KOHLER

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 • cUL/UL 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 • GFCI service outlet (120/240 V) for customer connections
- Integral vibration isolation
- Line circuit breaker NEC prime mover shutdown switch
- Oil drain extension
- 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

KOHLER CO., Kohler, Wisconsin 53044 USA Phone 920-457-4441, Fax 920-459-164 For the nearest sales and service outlet in the US and Canada, phone 1-800-544-2444 KOHLERPower.com

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) (provides 2 digital inputs and 6 relay outputs)
- Automatic Transfer Switches and Accessories
- Model RXT Automatic Transfer Switch Model RXT Automatic Transfer Switch with combined interface/ load management board

Maintenance kit (includes air filter, oil, oil filter, and spark plugs)

Extended 5-Year/2000 Hour Comprehensive Limited Warranty

Extended 10-Year/2000 Hour Comprehensive Limited Warranty

Weight includes generator set with engine fluids and 4Q10X alternator,

NOTE: This drawing is provided for reference only and should not be

used for planning installation. Contact your local distributor for more

2280 x 836 x 1182

(89.8 x 32.9 x 46.5)

859 (1894)

- 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)

General Maintenance Literature Kit

Other Kohler[®] ATS

Literature

Warranty

Miscellaneous Rated Power Factor Testing

Overhaul Literature Kit

Production Literature Kit

Dimensions and Weights

Overall Size, L x W x H, mm (in.):

Shipping Weight, wet, kg (lb.):

sound enclosure, and silencer.

◄ ── ₩ ── ►

detailed information

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G4-307 (60RCLB) 6/21

KOHLER

900

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

alternator.

240 V, 220 V 4Q10X (4 lead)

- Kohler's Fast-Response® X excitation system delivers excellent voltage response and short-circuit capability using a rare-earth permanent magnet (PM)-excited
- Quiet Operation Kohler home generators provide quiet, neighborhood-
- friendly performance.

Generator Set Ratings

					Standby	y Ratings	
				Natura	al Gas	LP	PG .
Alternator	Voltage	Ph	Hz	kW/kVA	Amps	kW/kVA	Amps
	120/240	1	60	58/58	242	60/60	250
-	120/208	3	60	60/75	209	60/75	209
4P10X	127/220	3	60	60/75	197	60/75	197
	120/240	3	60	60/75	181	60/75	181
	277/480	3	60	60/75	91	60/75	91
4Q10X	120/240	1	60	58/58	242	60/60	250
* 50 Hz optio	ns available.	Conta	ct you	r Customer Se	ervice repres	entative.	

RATINGS: 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 overload capability for this rating. Ratings are in accordance with ISO-8528-1 and ISO-3046-1. Obtain technical information bulletin TIB-101 for ratings guidelines, complete ratings definitions, and site condition derates. The generator set manufacturer reserves the right to change the design or specifications without notice. Contact your local Kohler generator distributor for availability. G4-307 (60RCLB) 6/21

Alternator Specifications

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

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				Exhaust		
Engine Specifications	60 Hz		50 Hz	Exhaust System	60 Hz	50 Hz
Manufacturer Engine: model, type	K KG63 Natural	(ohler 208 6.	2L	Exhaust manifold type Exhaust flow at rated kW, m ³ /min. (cfm)	D 16.4 (580)	0ry 13.6 (480)
Cylinder arrangement Rated rpm	1800	V-8	1500	exhaust, °C (°F) Maximum allowable back pressure,	649	(1200)
Displacement, L (cu. in.) Bore and stroke, mm (in.)	6.2 101.6 x 95.2	2 (378) 25 (4.0) 00 x 3.75)	kPa (in. Hg) Exhaust outlet size at engine hookup,	10.2	2 (3.0)
Compression ratio Max. power at rated rpm, kW (HP)	1 77.0 (103)	0.5:1 6	4.3 (86)	mm (in.)	76 (3	.0) OD
Cylinder head material	Cast / High Silic	Alumir	num Iminum	Fuel		
Crankshaft material	Ca	ist Iror	זיייניייניייניייניייניייניייניייניייניי	Fuel System	I P Gas or	Natural Gas
Valve (exhaust) material Governor type	Forg Ele	ed Ste	eel C	Fuel supply line inlet Natural gas fuel supply pressure.	1 in.	NPT
Frequency regulation, no-load to full-load Frequency regulation, steady state	ISOC ±	nronoi 1.0%	us	kPa (in. H ₂ O) LPG vapor withdrawal fuel supply	1.2-2.	7 (5-11)
Air cleaner type		Dry		pressure, kPa (in. H ₂ O)	1.2-2.	7 (5-11)
Engine Electrical				Fuel Composition Limits *	92 min	LP Gas
Engine Electrical System				Ethane, % by volume	4.5 max.	
Ignition system	Ele	ectroni	c	Propane, % by volume Propene, % by volume	1.0 max. 0.1 max.	87 min. 5.0 max.
Battery charging alternator: Ground (negative/positive) Volts (DC)	Ne	egative 12)	C ₄ and higher, % by volume Sulfur, ppm mass	0.3 max. 25	2.5 max. max.
Ampere rating		130		MJ/m ³ (Btu/ft ³), min.	33.2 (890)	84.2 (2260
Starter motor rated voltage (DC) Battery, recommended cold cranking amps (CCA):		12		 Fuels with other compositions may be outside the listed specifications, contac further analysis and advice 	acceptable. If y t your local dis	our fuel is tributor for
Qty., rating for - 18°C (0°F)	On	ne, 630)			
Battery voltage (DC)		12 24		Lubrication		
Ballery group size		24		Lubricating System Type Oil pan capacity, L (qt.) Oil pan capacity with filter, L (qt.) Oil filter: quantity, type	Full P 5.7 7.1 1, Ca	ressure (6.0) (7.5) rtridge
			G4-307	(60RCLB) 6/21		

Model: 60RCLB

Multi-Fuel LPG/Natural Gas

Standard Features

- Kohler Co. provides one-source responsibility for the generating system and accessories.
- The generator set and its components are prototype-tested, factory-built, and production-tested.
- The generator set accepts rated load in one step.
- A standard 5-year/2000-hour limited warranty covers all systems and components.
- Quick-ship (QS) models with selected features are available. See your Kohler distributor for details.
- GFCI service outlet installed on the junction box.
- RDC2 Controller One digital controller manages both the generator set and transfer switch functions (with optional Model RXT ATS). Designed for today's most sophisticated electronics.
- Electronic speed control responds quickly to changing demand.
- Digital voltage regulation protects your valuable electronics from harmonic distortion and unstable power quality.
- Engine Features

installation.

- Powerful and reliable Kohler 6.2L liquid-cooled engine Electronic engine management system.
- Simple field conversion between natural gas and LP vapor fuels while maintaining emission certification.
- Innovative Cooling System
- Electronically controlled fan speeds minimize generator set sound signature.
- Approved for stationary standby applications in locations served by a reliable utility source. Certifications
- The 60 Hz generator set engine is certified by the Environmental Protection Agency (EPA) to conform to the New Source Performance Standard (NSPS) for stationary spark-ignited emissions.
- cUL/UL listing, CSA certification standard are available. Accepted by the Massachusetts Board of Registration of
- Plumbers and Gas Fitters. Meets NFPA 37 requirements for 18 in. offset for
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1449

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
$\overline{\Lambda}$	PC RESUBMITTAL	05/18/22
Δ	PC RESUBMITTAL	10/28/22
$\overline{3}$	HCD REVISION 1	12/16/22
$\overline{\mathbb{A}}$	PC RESUBMITTAL	02/02/23
$\overline{5}$	HCD & PC RESUBMITTAL	06/06/23
\bigtriangleup	hcd resubmittal	06/14/23
\triangle	PC RESUBMITTAL	07/10/23
$\boxed{\$}$	CLIENT REVISIONS	07/11/23
\land	CLIENT REVISIONS	08/04/23
$\overline{10}$	PC RESUBMITTAL (ELEC)	09/12/23
\wedge	PC RESUBMITTAL (ELEC)	10/05/23
Δ	CLIENT REVISIONS	10/12/23
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SHEET TITLE:

GENERATOR CUT SHEETS

F4()7

SHEET NO:

SCALE GENERATOR CUT SHEETS

ATS SYSTEM SCHEMATIC

ATS SYSTEM KEYED NOTES:

- AUTOMATIC TRANSFER SWITCH PER AUTOMATIC TRANSFER SWITCH S
- ATS DISTRIBUTED CONTROLS, PROVIDING FOR AUTOMATIC SELECTIV 2 (OR CEC WHERE ADOPTED) ART. 700.4(B) REQUIREMENTS, START, STO FUNCTIONS PER SYSTEM SPECIFICATIONS. PROVIDE 3/4"C., MINIMUM MANUFACTURERS RECOMMENDATIONS. PROVIDE COPPER OR FIBE ATS SCHEDULE. SEE SYSTEM SPECIFICATIONS FOR MORE INFORMATI
- FACTORY INSTALLED ATS AUTOMATIC CONTROLS. SEE SYSTEM SPECI
- REFER TO SINGLE LINE DIAGRAM FOR MORE INFORMATION. 4
- 5 PROVIDE ELEVATOR PRETRANSFER CONTACTS, 1 NORMALLY OPEN, 0-45 SEC, 2 AMP MINIMUM ADJUSTABLE TIME DELAY. PROVIDE COM CONTROLLER(S) AS REQUIRED.

ATS SYSTEM REQUIREMENTS:

- 1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE FURNISHING OF J APPROVALS, PLAN CHECK FEES, LABOR, EQUIPMENT, MATERIALS, AI CONNECTION WITH THE INSTALLATION OF A COMPLETE AND FULLY AUTOMATIC TRANSFER SWITCH SYSTEM.
- 2. IT IS THE INTENT OF THE CONTRACT DOCUMENTS, WHICH ARE PRESEN "DESIGN-BUILD" FORMAT, FOR THE CONTRACTOR TO DESIGN, PROV FULLY FUNCTIONING, CODE APPROVED AUTOMATIC TRANSFER SWI

Technical Data TD01602018E

Automatic transfer switch (ATS) – contactor-based

Automatic transfer switch—open transition Standard features (ATC-300+)

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 • Time-stamped history log 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
 Manual re-transfer to normal in neutral transition, or in-phase with a default to time delay in neutral transfer

Table 6. Automatic Transfer Switch Catalog Numbering System

Effective February 2013

- 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
- 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
- Remote annunicator with control
- Ethernet communication (PXG 400 Gateway)
- Certification U = UL Listed Voltage **A** = 120V, 60 Hz Enclosure ② **B** = 208V, 50/60 Hz 0040 = 40A 0400 = 400A **K** = Open **0080** = 80A **0600** = 600A **E** = 600V, 50/60 Hz **S** = NEMA 1 **0100** = 100A **0800** = 800A **G** = 220V, 50/60 Hz **J** = NEMA 12 0150 = 150A 1000 = 1000A H = 380V, 50/60 Hz R = NEMA 3R **0200** = 200A **1200** = 1200A **0** = 415V, 50/60 Hz $\mathbf{D} = \text{NEMA 4X}$ 0225 = 225A 1600 = 1600A W= 240V, 60 Hz **0260** = 260A **X** = 480V, 50/60 Hz

EATON CORPORATION www.eaton.com

7

AMPS VOLTAGE PHA	SE WIR	e pole	NEMA 3R	NETWORK	ISOLATION BYPASS	REMARKS			
260 120/208 3	4	4	-	-	-	-			
		3. IT SH USU/ INST/ 4. THE REQ LIMIT ATS WILL 5. REFE INFC	ALL BE THE RESI ALLY FURNISHEE ALLATION, WHE DIREMENTS WITI ING CIRCUIT BI AMPACITY TO N FIT IN SPACE D R TO AUTOMAT	PONSIBILITY OF T D WITH SUCH SYS THER MENTIONE SHALL BE RESPO H SWITCHGEAR, REAKER(S) TO PR MEET SHORT CIRC ESIGNATED FOR	HE CONTRACTOR TEMS, IN ORDER T D HEREIN OR NOT OBLE TO COORE GENERATOR & AT OTECT EACH A.T. CUIT WITHSTAND R ATS (S) PER PLANS	TO PROVIDE ALL MATERIA O PROVIDE A COMPLETE DINATE A.T.S. SHORT CIRCU S MFGR. PROVIDE A.T.S. S. AS REQUIRED. IF CONTR EQUIREMENTS, CONTRAC SCHEMATIC AND SPECIFIC	AL AND EQUIPMENT WHICH IS AND FULLY FUNCTIONING JIT WITHSTAND MFGR APPROVED CURRENT ACTOR ELECTS TO INCREASE TOR SHALL ENSURE ATS(S)	5.	ATS AUTOMATIC CC DELAYS SHALL BE SC GENERATOR SOURC SOURCE BEING TRAI PROVIDE THE FOLLO DELAY, RETRANSFER NEUTRAL POSITION E SWITCH, PILOT LIGHT CONTROL FOR AUTO DELAYS TO MFGR'S F
SCHEDULE AND SYSTEM SPECIFICATION (E LOAD SHED/LOAD PICK-UP PER NI OP, AND MONITORING/ALARM A, WITH CONDUCTORS AS REQUIRED FR OPTIC NETWORK AS INDICATED O	DNS. C PER	ATS SY 1. ALL WITH REQ DOC	STEM SPE EQUIPMENT SHA I THE APPLICAB JIREMENTS. AL CUMENTS SHALL - IEEE 587 SURG - NEMA MGI M - NEPA 110 FM	CIFICATION ALL BE NEW, OF LE REQUIREMEN L EQUIPMENT SH APPLY TO THE N GE TESTING MOTORS AND GE ERGENCY/STAN	NS: CURRENT DESIGN, TS OF IEEE, NEMA, ALL BE FACTORY, MANUFACTURING NERATORS DBY SYSTEMS	AND SHALL BE CONSTRU UL, ANSI AS WELL AS LOC ASSEMBLED AND TESTED. AND INSTALLATION OF TH	ICTED IN ACCORDANCE CAL JURISDICTION THE FOLLOWING E ATS SYSTEM:	7.	WHEN ISOLATION BY CONDITIONS SHALL - BYPASS ISOLA ASSEMBLED - SWITCHES REC - NORMAL, TES CONTINUOL - SWITCH SHALL - AUTOMATIC, ACTIVATED I SOURCE BYF
CIFICATIONS FOR MORE INFORMATIO	ν.	2. ALL FRO	- NFPA 37 INST - UL 1008 AUTO PRODUCTS SHA M START UP INC	ALLATION AND D DMATIC TRANSFE ALL BE WARRANT CLUDING PARTS,	JSE ER SWITCHES ED AGAINST DEFE LABOR AND TRAV	cts in material and wc 'El expenses.	DRKMANSHIP FOR 2 YEARS	8. 9.	SHOP DRAWING INF SPECIFICATION PER DIAGRAMS, COMPO FINAL INSTALLATION TECHNICIAN. TEST T
1 NORMALLY CLOSED-EQUIPPED WI NDUIT AND CONDUCTORS TO ELEVA	Ή ΌR	3. AUTO MEC NOR MOL UNLE	Dmatic trans Hanism, doue Mal and eme Ded Case swi Ess specificali	FER SWITCH SHA BLE-THROW CON RGENCY POSITIC TCHES ARE NOT LY NOTED ON TH	ll be a 4-pole 60 Istruction, posi DNS. transfer sv Acceptable. 3-f Ie Schedule.	0 VOLT CLASS, CONTACTO TIVE ELECTRICALLY AND M VITCHES WITH INTERLOCKE POLE TRANSFER SWITCHES	OR TYPE, OVER-CENTER 1ECHANICALLY HELD IN BOTH ED CIRCUIT BREAKERS OR ARE NOT ACCEPTABLE	10.	ats system shall b manufacturer. Se
ALL FINAL DESIGN, AGENCY ND PERFORMANCE OF OPERATIONS FUNCTIONING CODE APPROVED	IN	THE	IRANSFER SWIT - FULL LOAD M - ALL CONTAC SEPARATE A SWITCHED. - ALL LUGS SH - PROGRAM TH SCHEMES A	CH SHALL HAVE IANUAL TRANSFE TS SHALL BE 600 RCING CONTAG ALL BE FULL RATE RANSITION SWITG RE UNACCEPTA	THE FOLLOWING ER CAPABILITIES. V HIGH PRESSURE CTS. ALL CONTAC ED. CHING SCHEME. IN BLE.	CHARACTERISTICS: . SILVER ALLOY TYPE WITH TS SHALL BE SIMULTANEOU N-PHASE MONITOR SWITCH	JSLY HING	11.	ATS EQUIPMENT SHA
NTED IN A DIAGRAMMATIC, 'IDE AND INSTALL A COMPLETE AND TCH SYSTEM.		4. ATS STAF CON GEN	DISTRIBUTED CC RT, STOP AND LC ITACTS TO COM ERATOR ANNU	DNTROLS SHALL I DAD SHED FUNC MMUNICATE PO' NCIATOR PANEL	BE FACTORY INSTA TIONS. WHEN A FI WER SUPPLY LOW	LLED IN THE ATS CABINET, BER OPTIC NETWORK IS IN VOLTAGE AND FAILURE C	AND SHALL ALLOW FOR DICATED PROVIDE ONDITIONS AT THE		

GO/NEG-Alt-Date: LAED1202X2K1	0000-12/5/2022	Job Name:	2853 WEST BLVD.
Item Number:	Catalog Number: ATC3C2X40260BSU	Designation:	ATS 260amp 120/208v 4 pole

ONTROLS SHALL BE FACTORY INSTALLED IN THE ATS CABINET. ALL SENSORS AND TIME OLID STATE. ALL SENSORS SHALL MONITOR EACH PHASE OF BOTH NORMAL AND CES. POWER FOR TRANSFER AND RE-TRANSFER SHALL BE OBTAINED FROM THE LOAD ANSFERRED TO.

OWING TIME DELAYS AND COMPONENTS: START DELAY, TRANSFER TO EMERGENCY R TO NORMAL DELAY, KEY OPERATED RETRANSFER DELAY BYPASS, STOP RUNNING DELAY, DELAY - BOTH DIRECTIONS (ISOLATING INDUCTIVE LOADS FROM BOTH SOURCES), TEST ITS FOR POSITION AND SOURCE AUXILIARY CONTACTS FOR BOTH SOURCES, LOAD SHED OMATIC SELECTIVE LOAD PICK-UP & LOAD SHED, EXERCISER CLOCK. ADJUSTABLE RECOMMENDATIONS.

YPASS TYPE TRANSFER SWITCHES ARE INDICATED IN THE SCHEDULE, THE FOLLOWING L BE MET:

ATION AND TRANSFER SWITCH SHALL BE IN A FACTORY ENCLOSURE.

QUIRING ELECTRICAL OPERATION ARE NOT ACCEPTABLE. T, AND FULLY ISOLATED SWITCH POSITIONS SHALL MAINTAIN

US FULLY RATED OPERATION. L BE CAPABLE OF BY-PASSING TO EITHER SOURCE.

, SOLENOID PER THE GENERAL SPECIFICATIONS REQUIREMENTS MECHANICAL STOPS SHALL BE PROVIDED TO PREVENT DEAD PASS.

FORMATION SHALL BE PROVIDED SHOWING COMPLIANCE WITH THE ABOVE R GENERAL SPECIFICATION REQUIREMENTS. INCLUDE ALL REQUIRED NETWORK WIRING ONENTS, ETC.

N SHALL BE TESTED AND APPROVED BY THE MANUFACTURER'S FACTORY TRAINED TO INCLUDE LOAD BANK AND ATS TRANSFER TEST.

BE PROVIDED AND WARRANTED BY THE GENERATOR SYSTEM EQUIPMENT SEE GENERATOR SPECIFICATIONS FOR MORE INFORMATION.

ALL BE PROVIDED BY ASCO OR EQUAL BY ONAN OR GE/ZENITH.

Page: 1 of

	2	1	
	REQUIRED FOR SEISMIC, RECO USE 4, 1/2-13 UNC GRA THESE BOITS ARE TO BE	MMENDED FOR ALL APPLICATIONS: DE 5 OR BETTER HEX HEAD BOLTS AND WASHERS. TORQUED TO 75 FT. URS. (102 NM).	
	NOTES: 1 APPROXIMATE SHIPPING WI 2 DIMENSIONS SHOWN IN IN 3 AUTOMATIC & NON-AUTOM ORDER INFORMATION. 4 TRANSFORMER PACK IS NI OR 208/120V SYSTEMS.	EIGHT = 240 LBS [109 KG] CHES [MILLIMETERS] IATIC CONTROLS PROVIDED BASED ON CUSTOMER OT INCLUDED WITH 240/120V, 1 PHASE	F
			E
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DATE	CENTER OF GRAVITY	T WAS CREATED BY EATON	
8/3/2009 DATE	CORPORATION, IT WAS DISCLOSED IN TO BE USED FOR THE PURPOSE IN T TITLE WALL MOUNT C2/C3	CONFIDENCE AND IS ONLY WHICH IT WAS SUPPLIED. 8/C5 CONTACTOR NEMA 1-3R-12 600V 40-2000	A
	TYPE OPEN TRANSFER	OUTLINE	
GNATION	G.0.	DWG SHEET 1 OF 1	
	2	1 соертв	L REV 02

AUTOMATIC TRANSFER SWITCH (ATS) SPECIFICATIONS

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
$\overline{\Lambda}$	PC RESUBMITTAL	05/18/22
Δ	PC RESUBMITTAL	10/28/22
$\overline{\mathbb{A}}$	HCD REVISION 1	12/16/22
$\overline{\mathbb{A}}$	PC RESUBMITTAL	02/02/23
$\overline{5}$	HCD & PC RESUBMITTAL	06/06/23
$\underline{\land}$	hcd resubmittal	06/14/23
\triangle	PC RESUBMITTAL	07/10/23
$\boxed{\$}$	CLIENT REVISIONS	07/11/23
$\boxed{\land}$	CLIENT REVISIONS	08/04/23
	PC RESUBMITTAL (ELEC)	09/12/23
$\underline{\mathbb{A}}$	PC RESUBMITTAL (ELEC)	10/05/23
Δ	CLIENT REVISIONS	10/12/23
Plot	Date: 10/11/2023	4:22:23 PM

SHEET TITLE:

ATS SPECIFICATIONS & CUT SHEETS

E408

SHEET NO:

SCALE

NTS

3

LAD

TALL ONE 6'X 8' TRANSFORMER PAD WITH HANDHOLE AND PROTECTIVE BARRIERS IN	
T OF BUILDING AND SAFETY REQUIRES A BUILDING PERMIT FOR STRUCTURES EXCEEDING 48	
I, INSTALLED ON PRIVATE PROPERTY.	
O ELIMINATE SURCHARGE LOADING ON THE WALLS OF THE VAULT.	
RUCTURE(S), AND SERVICE POINT(S) SHALL BE LOCATED AS SHOWN UNLESS CHANGES ARE E DWP DESIGN ENGINEER AND CONFIRMED BY THE CUSTOMER.	
VAILABLE SYMMETRICAL FAULT CURRENT WILL BE AS FOLLOWS:	
$1200A$ $208Y/120V$ 3ϕ $4W$ $32,000A$	
AL: ATION OF NONSTANDARD SWITCHROARDS AND SWITCHROARDS RATED ABOVE BOO AMPS THE	
AUST SUBMIT DRAWINGS SHOWING THE PROPOSED SERVICE AND METERING FACILITIES. ES OF SWITCHBOARD DRAWINGS TO:	NA ()NA
METRO WEST SERVICE PLANNING ATTENTION: VICTOR PEREZ CCEST 2345082 / P306225	ENGINEERING & CONSULTING, INC
2633 ARTESIAN STREET RM 250 LOS ANGELES, CA 90031	30 THOMAS, IRVINE, CA 92618-2703
	PHONE: (949) / 16-9990 FAX: (949) / 16-9997
LL THE CUSTOMER \$9,137 FOR TRANSFORMER DEPOSIT FEE. DEPOSIT FEE ELIGIBLE FOR FIVE YEARS PER DWP RULE 16-E, ELECTRIC SYSTEM OF THE RULES GOVERNING WATER AND	STAMP:
 LL THE CUSTOMER FOR CONDUIT CONSTRUCTION AT A FUTURE DATE.	
TO BE SENT FOR PERMIT FEES ONCE THE LOS ANGELES DEPARTMENT OF PUBLIC WORKS	COB INDED
F_A STREET_DAMAGE_RESTORATION FEE (SDRF), PAID DIRECTLY TO THE DEPARTMENT OF	61032 E-14492 AIAS
IU BE BILLED AT A LATER DATE.	* SEFETDICK X
RAFFIC CONTROL PLAN MAY BE REQUIRED FOR LADWP TO OBTAIN A CONSTRUCTION PERMIT FROM	OF CALIFORN
FARIMENT OF FUBLIC WORKS. THE CUSTOMER MAY BE REQUIRED TO HIRE A CONTRACTOR TO FIC CONTROL PLAN AND PROVIDE LABOR AND MATERIALS TO MANAGE TRAFFIC DURING HE CUSTOMER SHALL OBTAIN APPROVAL OF THE PLAN BY THE LOS ANGFLES DEPARTMENT OF	
AND PROVIDE A COPY TO LADWP IF REQUIRED.	COPYRIGHT:
T HAS APPROVED A NON-STANDARD STAGING AREA FOR THE INSTALLATION AND MAINTENANCE	C O P Y R I G H T N O T I C E : COPYRIGHT IS RETAINED BY NATIONAL
RANSFORMER IN THE CUSTOMER'S PROPOSED LOCATION. ANY REPAIRS NECESSARY TO THE WAYS, AND CURBS DURING THE INSTALLATION AND FUTURE MAINTENANCE OF THIS II BE THE RESPONSIBILITY OF THE PROPERTY OWNER IN ACCORDANCE WITH LOS ANGELES	ENGINEERING & CONSULTING INC. FROM THE DATE OF ISSUANCE OF THESE DOCUMENTS.
SECTION 62.104.	DUPLICATION OF THESE DOCUMENTS OR THE BUILT-WORK REPRESENTED BY THEM IS
	PROHIBITED WITHOUT THE EXPRESS, WRITTEN CONSENT NATIONAL ENGINEERING &
	CONSULTING INC.
DEPARTMENT OF 4 8kV CUSTOMER REQUIREMENTS	CLIENT:
ATER AND POWER 2853 WEST BL	IAIME PARTNERS
Z PHONE (2/3) 367-623/ AFFORDABLE HOUSING	OF CALIFORNIA, INC.
3/28/23 DRAFTING E. MOSQUEDA 22P0561 SHEET 1 OF 2	
Innado/AV 03/17/23	1050 S. FLOWER STREET
	LOS ANGELES, CA 90015
REFERENCES	
	PROJECT:
30' NBU2 2443543, 23E2036 NB02 2443551, 22F1445	
15' NBIAC 2419952 (HSE)	
TRANSFORMER PAD NOTES:	LOS ANGELES, CA 90016
I. MINIMUM 3' WORKSPACE CLEARANCE REQUIRED AROUND THE PAD (LEVELED & UNOBSTRUCTED).	
2. NO ARCHITECTURAL PROJECTIONS (I.E. AWNINGS,	
AREA.	C-JAIME-001
لع 3. NO BUILDING PROJECTION (I.E. SUBTERRANEAN GARAGE,) ALLOWED UNDERNEATH THE CLEARANCE AREA.	# DESCRIPTION DATE
4. PAD SHALL MAINTAIN A 10' RADIAL DISTANCE FROM ANY	1ST SUBMITTAL 10/04/21
EXHAUST VENTS OR EGRESS PATH.	UTILITY COORDINATION 04/08/22
5. ACCESS TO PAD SHALL BE 12' IN WIDTH & 14' IN LENGTH MINIMUM AND BE ABLE TO WITHSTAND A TRUCK WEIGHT	PC RESUBMITTAL 05/18/22
BACK WITHIN 5' ALONG THE SIDE OF THE PAD.	PC RESUBMITTAL 10/28/22
6. FOR MORE DETAILS REFER TO DWP DESIGN STANDARD	A HCD REVISION 1 12/16/22
C 7. IF INSTALLING METALLIC OBJECTS IN PROVIMITY TO NEW	PC RESUBMITTAL 02/02/23
TRANSFORMER PAD. T.E. CHAIN-LINK FENCE OR IRONGATE, REFER TO UB721-12 FOR GROUNDING REQUIREMENTS.	$\begin{array}{ c c c c c c c c c c c c c c c c c c c$
	$\begin{array}{ c c c c c c c c c c c c c c c c c c c$
	$\begin{array}{ c c c c c c c c c c c c c c c c c c c$
	$\begin{array}{c c c c c c c c c c c c c c c c c c c $
FOR LOCATION OF EXISTING UNDERGROUND SUBSTRUCTURES, NOTIFY THE UNDERGROUND SERVICE ALERT OF SOUTHERN CALIFORNIA	PC RESUBMITTAL (ELEC) 09/12/23
DIGALFOT	PC RESUBMITTAL (ELEC) 10/05/23
CONTACT DIGALERT AT	CLIENT REVISIONS 10/12/23
WWW.DIGALERT.ORG OR 811	Plot Date: 10/11/2023 4:06:32 PM
AT LEAST TWO WORKING DAYS BEFORE YOU DIG	
UNDERGROUND SERVICE ALERT OF SOUTHERN CALIFORNIA	
WR #: PROJECT #: TG #:	
Y OF LOS ANGELES 2345082 P306225 633-D7 DEPARTMENT OF A RIVE OUT ON TO DE OUTOCHERTE	
ATER AND POWER 2853 WEST BL	
POWER SYSTEM ENGINEERING 22-UNIT RESIDENTIAL BUILDING AFFORDABLE HOUSING	
3/28/23 DRAFTING E. MOSQUEDA 0000561	SHEEL NO:
Idonado/AV DATE 03/17/23	
	_ E4UY
WP APPROVED DRAWINGS SCALE 1	

- 1. 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.
- 2. 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.
- 3. ALL FIXTURES 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.
- 4. LIGHT FIXTURES INDICATED AS EMERGENCY, IDENTIFIED WITH "EB" SHALL BE PROVIDED WITH INTEGRAL BATTERY PACK UNIT AS FOLLOWS:
- a. LED LAMPS: 1100 LUMENS MINIMUM LINEAR T8 FLUORESCENT LAMPS: 1400 LUMENS MINIMUM
- c. LINEAR T5 FLUORESCENT LAMPS: 1200 LUMENS MINIMUM d. COMPACT FLUORESCENT LAMPS: 1000 LUMENS MINIMUM

REQUIREMENTS.

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

- 5. 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.
- 6. 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.
- 7. LED DRIVERS SHALL HAVE 0-10V DIMMING CAPABILITIES AT MINMIMUM.
- 8. 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.
- 10. 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.
- 11. ALL FIXTURE VOLTAGES SHALL BE VERIFIED PRIOR TO PLACING THE ORDER. CONTRACTOR TO REFER TO THE LIGHTING PLAN BRANCH CIRCUIT INFORMATION TO CONFIRM VOLTAGE.

- 12. LAMP MODEL INDICATED ON THE LAMP SECTION SHALL BE AS MANUFACTURED BY G.E., OSRAM SYLVANIA, OR PHILIPS ONLY. ALL OTHERS SHALL BE REJECTED.
- 13. 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.
- 14. 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:
- a. LIGHTING FIXTURE SUBSTITUTIONS SHALL BE FORMALLY PRESENTED TO THE ENGINEER. CONTRACTOR SHALL MAKE ARRANGEMENT WITH THE ENGINEER 10 WORKING DAYS PRIOR TO BID TIME.
- b. A COMPLETE AND OPERATING SAMPLE OF EACH SUBSTITUTED FIXTURES, WIRED FOR 120V OPERATION, WITH LAMP, CORD AND PLUG.
- c. 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.
- d. A CURRENT ORIGINAL CATALOG DATA SHEET WITH LUMINAIRE CATALOG NUMBERS SHALL BE PROVIDED. MODIFIED CATALOG DATA SHEETS WILL NOT BE ACCEPTED.

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(IE-2) CHLORIDE #ER46L-2-W-G

- e. 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.
- 15. 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.

	TYPE	FIXTURE MANUFACTURER	RATED WATTS		VOLT	LAMP MANUFA
			/LAMPS	WAIIS	_	LAMP MOD
	(LC-1)	Rayon lighting #rpa-6-cy-12-dl-25l-30-unv-id-55- s-bl-sm	31	31	120	LED INCL. IN FIXT
	(LC-1E)	RAYON LIGHTING #RPA-6-CY-12-DL-25L-30-UNV-ID-55-	31	31	120	LED
		S-BL-SM-EI4W				INCL. IN FIXT
	(LC-2)	LIGHTOLIER #C4PDL259030NZ10UCLB WITH #CASK36BK	27	27	120	LED INCL. IN FIXT
		LIGHTOLIER				
	(LC-3)	#C6WDL25930WZ10UCLB	23	23	120	
$\sqrt{3}$						
	(LG-1)	#4VRVT3-LD5-4-P-UNV-L835-CD1- WI -MSWI 20	31	31	120	
	(IG-1E)	#4VRVT3-LD5-4-P-UNV-EL10W-L835- CD1-WL-MSWL20	31	31	120	INCL. IN FIXT
<u>}</u>						I FD
	(LG-2)	#123-000080-18 NOI USED.	20	20	120	INCL. IN FIXT
	(LG-3)	#4VRVT3-LD5-4-G-UNV-L835-CD1-WL	31	31	120	
	$\left< LL-1 \right>$	#CSW48-2835UDZTZO	31	31	120	INCL IN FIX
		#CSW48-2835UDZTZO-EM	31	31	120	
	$\left< LL-2 \right>$	#CSW48-2835UDZTZO-B-EM	31	31	120	
	(LP-1)	#M4P-2L30K-4-NN-B-L31-SS-4-NR-C	48.6	48.6	120	
	$\langle LR-1 \rangle$	#RPA4-10L-30-UNV-ID-80-NC-RFA-B	11	11	120	
	•					INCL. IN FIX
	(LR-1E)	#RPA4-10L-30-UNV-ID-80-F-NC-RFA-B-EI8	11	11	120	LED
						INCL. IN FIX
	(LR-2)	#FPDT-R-30X-65-MW WITH	14	14	120	LED
	~					INCL. IN FIX
	(LR-3)	#RA406930WH-CA WITH	10	10	120	LED
Δ						INCL. IN FIX
$\sqrt{3}$	(R-3E)	#RA406930WH-CA WITH	10	10	120	LED
	• 					INCL. IN FIX
	$\left< LR-4 \right>$	#FPDT-R-30X-30-MW WITH	13	13	120	
						INCL. IN FIX
	(LS-1)	#700OSIKN-92730-B-120	12.2	12.2	120	
	• 					
	LS-2	#84672-79825	12.3	12.3	120	
\wedge						INCL. IN FIX
	(LU-1)	#LMLD06L27XSINNOT USED.	5W/FT	2.5	120	
	· · ·					INCL. IN FIX
	(LU-2)	#LMLD12L27XSXXWH	5W/FT	5	120	
	• 					INCL. IN FIX
	(LU-3)	LUIKON #LMLD24L27XSXXUWH	5W/FT	10	120	LED
						INCL. IN FIX
	$\langle LV-1 \rangle$	IECH LIGHIING #700VNRFL-LED930-120V	17.6	17.6	120	LED
						INCL. IN FIX
	$\langle IE-1 \rangle$	CHLORIDE #ER46L-1-W-G	2.5	2.5	120	LED
						INCL. IN FIX

2.5 2.5 120

LIGHTING FIXTURE SCHEDULE

MP MANUFACTURER	
LAMP MODEL #	
LED	6" CYLINDER LED DOWNLIGHT WITH 0-10V DIMMING.
INCL. IN FIXTURE	
LED	SAME AS TYPE "LC-1" WITH 90MIN. INTEGRAL BATTERY BACK-UP
LED	4" CYLINDER LED NARROW BEAM WITH 0-10V DIMMING, BLACK FINISH. PFNDANT MOUNT WITH 36" STEM KIT BLACK FINISH.
INCL. IN FIXTURE	
LED	6" WALL-MOUNT LED DOWNLIGHT WITH 0-10V DIMMING. BLACK FINISH.
INCL. IN FIXTURE	
LED	4' SURFACE-MOUNT VANDAL RESISTANT LED. PARKING GARAGE DISTRIBUTION, WET-LOCATION LISTED WITH 0-10V DIMMING AND INTEGRAL
INCL. IN FIXTURE	OCCUPANCY SENSOR.
LED	SAME AS TYPE "LG-1" WITH 90MIN. INTEGRAL BATTERY BACK-UP, 1100 MIN.
LED	4' LINEAR EXTERIOR LED WALL GRAZING WITH RGB. WET LOCATION-LISTED.
INCL. IN FIXTURE	
LED	4' SURFACE-MOUNT VANDAL RESISTANT LED. GENERAL DISTRIBUTION,
INCL. IN FIXTURE	- WEI-LOCATION LISTED.
LED	48" SURFACE-MOUNT LINEAR LED WITH 0-10V DIMMING.
INCL. IN FIXTURE	+
LED	SAME AS TYPE "LL-1" WITH 90MIN. INTEGRAL BATTERY BACK-UP, 1100 MIN.
INCL. IN FIXTURE	+ LUMENS (EM).
LED	48" SURFACE-MOUNT LINEAR LED WITH 0-10V DIMMING WITH BLACK PAINTED
INCL. IN FIXTURE	- HOUSING AND 90 MIN. INTEGRAL BATTERY BACK-UP, 1100 MIN. LUMENS (EM).
LED	4' LINEAR PENDANT LED WITHOUT LENS, OPEN LUMINAIRE DESIGN WITH 0-10V
INCL. IN FIXTURE	- DIMMING.
LED	4" LED DOWNLIGHT WITH FROSED FILTER AND 0-10V DIMMING. WHITE FINISH
INCL. IN FIXTURE	+
LED	SAME AS TYPE "LR-1" EXCEPT WITH INTEGRAL 90-MINUTE BATTERY BACKUP.
INCL. IN FIXTURE	
LED	ROUND LED DOWNLIGHT WITH DIMMING DRIVER. MATTE WHITE TRIM.
INCL. IN FIXTURE	+
I FD	4" LED ADJUSTABLE GIMBAL WITH DIMMABLE DRIVER
LED INCL. IN FIXTURE	4" LED ADJUSTABLE GIMBAL WITH DIMMABLE DRIVER
LED INCL. IN FIXTURE	4" LED ADJUSTABLE GIMBAL WITH DIMMABLE DRIVER SAME AS TYPE "LR-3" EXCEPT CONNECTED TO EMERGENCY CIRCUIT.
LED INCL. IN FIXTURE LED INCL. IN FIXTURE	4" LED ADJUSTABLE GIMBAL WITH DIMMABLE DRIVER SAME AS TYPE "LR-3" EXCEPT CONNECTED TO EMERGENCY CIRCUIT.
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LED INCL. IN FIXTURE LED INCL. IN FIXTURE LED INCL. IN FIXTURE	4" LED ADJUSTABLE GIMBAL WITH DIMMABLE DRIVER SAME AS TYPE "LR-3" EXCEPT CONNECTED TO EMERGENCY CIRCUIT. ROUND LED DOWNLIGHT WITH SHALLOW IC HOUSING AND 2-WIRE DIMMING SYSTEM.
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LED INCL. IN FIXTURE	4" LED ADJUSTABLE GIMBAL WITH DIMMABLE DRIVER 4" LED ADJUSTABLE GIMBAL WITH DIMMABLE DRIVER SAME AS TYPE "LR-3" EXCEPT CONNECTED TO EMERGENCY CIRCUIT. ROUND LED DOWNLIGHT WITH SHALLOW IC HOUSING AND 2-WIRE DIMMING OUTDOOR WALL/STEP LIGHT WITH SHALLOW IC HOUSING AND 2-WIRE DIMMING OUTDOOR WALL/STEP LIGHT WET LOCATION LISTED. BLACK FINISH LED BOLLARD WITH ASYMMETRICAL SHIELDED LIGHT DISTRIBUTION AND 0-10V DIMMING 4" UNDERCABINET LED LINEAR LIGHTING
LED INCL. IN FIXTURE LED	4" LED ADJUSTABLE GIMBAL WITH DIMMABLE DRIVER 4" LED ADJUSTABLE GIMBAL WITH DIMMABLE DRIVER SAME AS TYPE "LR-3" EXCEPT CONNECTED TO EMERGENCY CIRCUIT. ROUND LED DOWNLIGHT WITH SHALLOW IC HOUSING AND 2-WIRE DIMMING OUTDOOR WALL/STEP LIGHT WET LOCATION LISTED. BLACK FINISH LED BOLLARD WITH ASYMMETRICAL SHIELDED LIGHT DISTRIBUTION AND 0-10V DIMMING 6" UNDERCABINET LED LINEAR LIGHTING
LED INCL. IN FIXTURE	4" LED ADJUSTABLE GIMBAL WITH DIMMABLE DRIVER SAME AS TYPE "LR-3" EXCEPT CONNECTED TO EMERGENCY CIRCUIT. SAME AS TYPE "LR-3" EXCEPT CONNECTED TO EMERGENCY CIRCUIT. ROUND LED DOWNLIGHT WITH SHALLOW IC HOUSING AND 2-WIRE DIMMING OUTDOOR WALL/STEP LIGHT WET LOCATION LISTED. BLACK FINISH LED BOLLARD WITH ASYMMETRICAL SHIELDED LIGHT DISTRIBUTION AND 0-10V DIMMING 6" UNDERCABINET LED LINEAR LIGHTING 12" UNDERCABINET LED LINEAR LIGHTING
LED INCL. IN FIXTURE LED	4" LED ADJUSTABLE GIMBAL WITH DIMMABLE DRIVER SAME AS TYPE "LR-3" EXCEPT CONNECTED TO EMERGENCY CIRCUIT. SAME AS TYPE "LR-3" EXCEPT CONNECTED TO EMERGENCY CIRCUIT. ROUND LED DOWNLIGHT WITH SHALLOW IC HOUSING AND 2-WIRE DIMMING OUTDOOR WALL/STEP LIGHT WET LOCATION LISTED. BLACK FINISH LED BOLLARD WITH ASYMMETRICAL SHIELDED LIGHT DISTRIBUTION AND 0-10V DIMMING 6" UNDERCABINET LED LINEAR LIGHTING 24" UNDERCABINET LED LINEAR LIGHTING
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LED INCL. IN FIXTURE LED	4" LED ADJUSTABLE GIMBAL WITH DIMMABLE DRIVER 4" LED ADJUSTABLE GIMBAL WITH DIMMABLE DRIVER SAME AS TYPE "LR-3" EXCEPT CONNECTED TO EMERGENCY CIRCUIT. ROUND LED DOWNLIGHT WITH SHALLOW IC HOUSING AND 2-WIRE DIMMING SYSTEM. OUTDOOR WALL/STEP LIGHT WET LOCATION LISTED. BLACK FINISH LED BOLLARD WITH ASYMMETRICAL SHIELDED LIGHT DISTRIBUTION AND 0-10V DIMMING 6" UNDERCABINET LED LINEAR LIGHTING 24" UNDERCABINET LED LINEAR LIGHTING LED REFLECTION MIRROR
LED INCL. IN FIXTURE LED INCL. IN FIXTURE	 4" LED ADJUSTABLE GIMBAL WITH DIMMABLE DRIVER SAME AS TYPE "LR-3" EXCEPT CONNECTED TO EMERGENCY CIRCUIT. ROUND LED DOWNLIGHT WITH SHALLOW IC HOUSING AND 2-WIRE DIMMING SYSTEM. OUTDOOR WALL/STEP LIGHT WET LOCATION LISTED. BLACK FINISH LED BOLLARD WITH ASYMMETRICAL SHIELDED LIGHT DISTRIBUTION AND 0-10V DIMMING 6" UNDERCABINET LED LINEAR LIGHTING 24" UNDERCABINET LED LINEAR LIGHTING LED REFLECTION MIRROR
LED INCL. IN FIXTURE LED INCL. IN FIXTURE	 4" LED ADJUSTABLE GIMBAL WITH DIMMABLE DRIVER SAME AS TYPE "LR-3" EXCEPT CONNECTED TO EMERGENCY CIRCUIT. ROUND LED DOWNLIGHT WITH SHALLOW IC HOUSING AND 2-WIRE DIMMING SYSTEM. OUTDOOR WALL/STEP LIGHT WET LOCATION LISTED. BLACK FINISH LED BOLLARD WITH ASYMMETRICAL SHIELDED LIGHT DISTRIBUTION AND 0-10V DIMMING 6" UNDERCABINET LED LINEAR LIGHTING 24" UNDERCABINET LED LINEAR LIGHTING LED REFLECTION MIRROR UNIVERSAL MOUNTED GREEN LED EXIT SIGN WITH SINGLE FACE AND 90 MINUTE BATTERY BACKUP
LED INCL. IN FIXTURE LED INCL. IN FIXTURE	 4" LED ADJUSTABLE GIMBAL WITH DIMMABLE DRIVER SAME AS TYPE "LR-3" EXCEPT CONNECTED TO EMERGENCY CIRCUIT. ROUND LED DOWNLIGHT WITH SHALLOW IC HOUSING AND 2-WIRE DIMMING SYSTEM. OUTDOOR WALL/STEP LIGHT WET LOCATION LISTED. BLACK FINISH LED BOLLARD WITH ASYMMETRICAL SHIELDED LIGHT DISTRIBUTION AND 0-10V DIMMING 6" UNDERCABINET LED LINEAR LIGHTING 24" UNDERCABINET LED LINEAR LIGHTING LED REFLECTION MIRROR UNIVERSAL MOUNTED GREEN LED EXIT SIGN WITH SINGLE FACE AND 90 MINUTE BATTERY BACKUP
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Sheet no:

MASTER PA MOUNT	ANEL: LCP1 TING: SURFACE		SLAVE	LIGH	ITING (CONT	ROL P	ANEL
RELAY	PNL & CKT #	LOAD D	escription	MASTER SWITCH	오 OVERRIDE SWITCH	ZONE NUMBER	DIM NON-DIM PLUG-LOAD	NOTES
1	HP4-10a	6TH FLOOR ELEVAT	FOR LOBBY LIGHTING	A	-	2	NON-DIM	VIA EXTERIOR PHOTOCELL

А

3	INV2-1	6TH FLOOR STAIR LANDING LIGHTING	A	-	2	NON-DIM	VIA EXTERIOR PHOTOCELL
4	INV2-2	6TH FLOOR PATIO LIGHTING	А	-	2	NON-DIM	VIA EXTERIOR PHOTOCELL
5	-	SPARE	-	-	-	-	-
6	-	SPARE	-	-	-	-	-
7	-	SPARE	-	-	-	-	-
8	-	SPARE	-	-	-	-	-

6TH FLOOR EXTERIOR CORRIDOR LTG

HP4-10b

LUMINAIRE TYPE	MII ((% OF	NIMUM CONTRO FULL-R/	REQUIR DL STEP: ATED PC	ED S OWER)	UNIFORM LEVEL OF ILLUMINANCE SHALL BE ACHIEVED BY:		
Line-voltage sockets except GU-24				,			
Low-voltage incandescent systems		0					
LED luminaires and LED source systems		Commoous dimining 10-100 percent					
GU-24 rated for LED							
GU-24 sockets rated for fluorescent > 20 watts		Continuous dimming 20-100 percent					
 > 20 watts. *2 				-			
GU-24 sockets rated for fluorescent ≤ 20 watts					- Stepped dimming; or		
Pin-based compact fluorescent ≤ 20 watts. *2	Minim 30-70	ium one ster percent	between		 Switching alternate lamps in 		
Linear fluorescent and U-bent fluorescent ≤ 13 watts					a iominaire		
	Minimu	m one step	in each rang	- Stepped dimming; or			
Linear fluorescent and U-bent fluorescent > 13 watts	20% to 40%	50% to 70%	75% to 85%	100%	 Continuous dimming; or Switching alternate lamps in each luminaire, having a minimum of 4 lamps per luminaire, illuminating the same area and in the same manner 		
Track Lighting	Minimum or 30-70 perce	ne step betv ent	veen		 Stepped dimming; or Continuous dimming; or Separately switching circuits in multi-circuit track with a minimum of two circuits. 		
HID > 20 watts					- Stepped dimming; or		
Induction > 25 watts	Minimum or	ne sten hetv	/een		 Commoous aimming; or Switching alternate lamps in 		
Other light sources	50-70 perce	ent		each luminaire, having a minimum of 2 lamps per luminaire, illuminating the same area and in the same manner.			

* 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

MOUNTING: PHOTOCELL	SURI	ES	DEM	and Re Net	WORK: <u>YES</u>	LIGHTI	NG C	ONTRO	DL PA	NEL	LCP1
RELAY	PN	IL & CI	KT #		LOAD DESCRIPTION		MASTER SWITCH	OVERRIDE SWITCH	ZONE	DIM NON-DIM PLUG-LOAD	NOTES
1		HP1-23a	1	1ST I	1ST FLOOR PARKING GARAGE WALKWAY LTG			23a	1	DIM	-
2		HP1-23b)	EXTE	RIOR WALL-MOUNTED LI	GHTING	A	-	2	NON-DIM	VIA EXTERIOR PHOTOCELL
3		HP1-23c	;	EXTE	RIOR WALL-MOUNTED LI	GHTING	A	-	3	NON-DIM	VIA EXTERIOR PHOTOCELL
4		HP1-25		1ST I	LOOR PARKING GARAG	GE COVE LTG	A	25	1	NON-DIM	-
5		HP1-27a	1	EXTE	RIOR CANOPY & STEP-LI	GHTING	A	-	2	NON-DIM	VIA EXTERIOR PHOTOCELL
6		HP1-27b)	EXTE	RIOR CANOPY & STEP-LI	GHTING	A	-	3	NON-DIM	VIA EXTERIOR PHOTOCELL
7		HP1-29a	1	1ST I	1ST FLOOR COMMON AREA LIGHTING		A	29a	1	DIM	VIA DAYLIGHTING PHOTOCELL
8		HP1-29b)	1ST I	LOOR COMMON AREA	LIGHTING	A	29b	1	DIM	VIA DAYLIGHTING PHOTOCELL
9		HP1-29c		1ST I	LOOR COMMON AREA	LIGHTING	A	29c	1	DIM	-
10		HP1-33c	;	1ST I	LOOR ELEVATOR ENTRY	& MAILBOXES LTG	A	33c	1	DIM	-
11		INV1-1		EGR	ess doors exterior lic	GHTING	А	-	2	NON-DIM	VIA EXTERIOR PHOTOCELL
12		HP1-3a		COI	MMON SPACE PLUG CO	NTROL	А	-	1	PLUG-LOAD	-
13		-		SPA	RE		-	-	-	-	-
14		-		SPA	RE		-	-	-	-	-
15		-		SPA	RE		-	-	-	-	-
16		-		SPA	RE		-	-	-	-	-
	٦I	ЛЕ	PHO	ICELL	DEVVYDRS						
LOINE	ON	OFF	ON	OFF							
1	8AM	12AM	-	-	NORMAL HOURS**						
2	-	-	YES	YES	SECURITY LIGHTING**						
3	-	12AM	YES	-	ONE HALF OF EXTERIO	R LIGHTING**					
4	-	-	-	-	-						

UTOMATIC DAYLIGHTING CONTROL INSTALLATION ND OPERATION:

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

LCP4

VIA EXTERIOR PHOTOCELL

NON-DIM

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 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.

> 13. 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.

14. 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.

15. 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.

16. THE LIGHTING CONTROL SYSTEM SHALL BE AS MANUFACTURED BY LC&D, WATTSTOPPER, 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 MANUFACTURERS REPRESENTATIVE IN THE PRESENCE OF THE OWNER.

17. 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.

18. LIGHTING CONTROL SYSTEM SHALL COMPLY WITH LATEST ADOPTED CALIFORNIA ENERGY COMMISSION TITLE 24 REQUIREMENTS.

SCALE
NTS

Project Addres	DF COMPLIANCE WEST BOULEVARD HOUSING	Report Page:	STEEL STUDY EN	NRCC-LTI-E Page 7 of 8	CERTIFICATE OF CO Project Name: W	IPLIANCE EST BOULEVARD HOUSING			Report Page:		CAL	Low Control of Control	N P
	ss: 2853 WEST BLVD LOS ANGELES, CA 90016	Date Prepared:		04/26/2022	Project Address: 2	53 WEST BLVD LOS ANGELES, CA 9001	5		Date Prepared:		<i>i</i> 2		04
0	NRCI-LTI-04-E - Must be submitted for two interlocked sys room, a multipurpose room, or a theater to be recognized	stems serving an auditorium, a convention c d for compliance.	center, a conference		04	05 Complete Building or Area Catego	06	07 Multi-Level	08 Shut-Off	09 Primary/Skylit	10 t Secondary	11 / Interlocker	ed Field I
0	NRCI-LTI-05-E - Must be submitted for a Power Adjustmer NRCI-LTI-06-E - Must be submitted for additional wattage	nt Factor (PAF) to be recognized for complian e installed in a video conferencing studio to b	ance. be recognized for		Area Description	Primary Function Area	<u>§130.1(a)</u>	Controls §130.1(b)	Controls §130.1(c)	Daylighting §130.1(d)	Daylighting §140.6(d)	s Systems	1 Pass
	compliance.				ELEVATOR LOBBI	5 Main Entry Lobby	Manual ON/ OFF	Dimmer	Auto Timeswitch	NA	NA		
RA1 ucti	TION OF REQUIRED CERTIFICATES OF ACCEPTANCE ions: Selections have been made based on information provided in pro	revious tables of this document. If any selecti	tion needs to be changed, ple	ease explain why in	1ST FLOOR COMM SPACE	Lounge	Manual ON/ OFF	Dimmer	Auto Timeswitch	Included	Included		
lditi e Te	ional Remarks. These documents must be provided to the building ins est Technician Certification Provider (ATTCP). For more information vi	spector during construction and any with "-A isit: <u>http://www.energy.ca.gov/title24/attcp</u>	A" in the form name must be <u>p/providers.html</u>	e completed through an	MAILBOXES	Commercial and Industrial Storage	Manual ON/ OFF	Dimmer	Auto Timeswitch	NA	NA		
	NO	Form/Title	_	Field Inspector	RESIDENTIAL CORRIDORS	Corridor	Manual ON/ OFF	Dimmer	Auto Timeswitch	NA	NA		
t	C NRCA-LTI-02-A - Must be submitted for occupancy sensor	rs and automatic time switch controls.			ELEVATOR MACHI ROOM	E Electrical, Mechanical, Telephone Rooms	Manual ON/ OFF	Dimmer	Occ. Sensor	NA	NA		
_	 NRCA-LTI-03-A - Must be submitted for automatic dayligh NRCA-LTI-04-A - Must be submitted for demand responsive 	nt controls. ive lighting controls.			*NOTES: Controls v EX: Conference 1: P	th a * require a note in the space belo	w explaining how compli	ance is achiev	ved. ahtina:		Plan Sheet Sho	13 owing Davlit Zc	ones:
	 NRCA-LTI-05-A - Must be submitted for institutional tunin NRCA-ENV-03-F - Must be submitted for daylighting designed 	ng power adjustment factor (PAF). gn power adjustment factors (PAF).	-		EXCEPTION 1 to <u>51</u>	<u>0.1(d)2</u>		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			I	E101	
					I. LIGHTING POW	R ALLOWANCE: COMPLETE BUILD	ING OR AREA CATEGO	RY METHOD	DS				
					Table Instructions: allowances per <u>§14</u>	omplete the table for each area comp . <u>6(c)</u> or adjustments per <u>§140.6(a)</u> are	ving using the Complete being used.	Building or Are	ea Category Metho	ods per <u>§140.6(</u>	(<u>b)</u> , Indicate if	additional ligh	hting pow
					Conditioned Space		02		03	04	05		06
					Area Desc	ption Comple	e Building or Area Catego	ory	Allowed Density	Area	Allowed Wattage	Additiona Ad	ial Allowa djustment
					ELEVATOR	OBBIES	Main Entry Lobby		(W/ft ²) 0.85	648	(Watts) 550.8	Area Catego	ory
					1ST FLOOR CON	MON SPACE	Lounge rcial and Industrial Store	ge	0.65	780	507		
					RESIDENTIAL C	DRRIDORS	Corridor Merhanical Telephone 2	-	0.6	1,431	858.6		
						Liccuital,	receptione N	017.0017	тота	L: 3,019	2,002.4	See Tables	s J or P fo
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t Addres	ss: 2853 WEST BLVD LOS ANGELES, CA 90016	Date Prepared:		Page 8 of 8 04/26/2022	Project Name: W Project Address: 2	53 WEST BLVD LOS ANGELES, CA 9001	6		Date Prepared:				02
MENT	ATION AUTHOR'S DECLARATION STATEMENT his Certificate of Compliance documentation is accurate and complet	te	<u> </u>	2	01		02		03 Allowed	04	05 Allowed	Addition	06 nal Allowa
itatio	on Author Name: GABRIEL TUASON	Documentation Author Signature:	(ply) var	7	Area Desc	ption Complet P	e Building or Area Catego imary Function Area	ory	Density (W/ft ²)	Area (ft²)	Wattage (Watts)	Adj Area Catego	Jjustment ory
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/ the fo	PERSON'S DECLARATION STATEMENT ollowing under penalty of perjury, under the laws of the State of Ca ation provided on this Castificate of Compliance is true and correct	alifornia:			Area Desc	ption Comple	e Building or Area Catego imary Function Area	ory	Density	Area (ft²)	Wattage (Watts)	Additiona Adj	djustment
ligibl	e under Division 3 of the Business and Professions Code to accept re e (responsible designer)	responsibility for the building design or syst	tem design identified on thi	is Certificate of	BIKE STO	AGE Comme	rcial and Industrial Stora	ge	0.6	255	153		514
energy ficate	features and performance specifications, materials, components, a of Compliance conform to the requirements of Title 24, Part 1 and I	and manufactured devices for the building or Part 6 of the California Code of Regulations	; design or system design ide s.	entified on this	STAIR	RVICES Electrical,	Stairwell	ooms	0.4	991	495.5		
ildin ance	g design features or system design features identified on this Certife documents, worksheets, calculations, plans and specifications sub	ificate of Compliance are consistent with the bmitted to the enforcement agency for appr	ne information provided on o proval with this building perr	other applicable mit application.	STAIR STORAGE F	DOMS Comme	stairwell rcial and Industrial Stora	ge	0.5	1,279	639.5 97.2		
isur enfo	e that a completed signed copy of this Certificate of Compliance sha preement agency for all applicable inspections. I understand that a c ation the builder provides to the building owner at occurrency.	name made available with the building perion completed signed copy of this Certificate of	rmit(s) issued for the buildin f Compliance is required to f	ng, and made available De included with the	JANITOR I	OMIS Comme	rcial and Industrial Stora rcial and Industrial Stora	ge ge	0.6	263 53	157.8 31.8		_
ble D	esigner Name: REGINO C LAVARIAS	Responsible Designer Signature:	605Mine		PACKAGES PARKING G	ROOM Comme ARAGE Pa	rcial and Industrial Stora rking Garage Building	ge	0.6	60 4,920	36 639.6		
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TIFICATE OF COMP	LIANCE							NF	CC-LT
ject Name: WEST	BOULEVARD HOUSING			Report Page:				Pa	ge 4 c
iect Address: 2853	WEST BLVD LOS ANGELES, CA 90016			Date Prepared:				04/	26/20
04	05	06	07	08	09	10	11	12	
Area Description	Complete Building or Area Category	Area Controls	Multi-Level Controls	Shut-Off Controls	Primary/Skylit Daylighting	Secondary Daylighting	Interlocked Systems	Field Inspect	
	rimary runction Area	5150.1(8)	§130.1(b)	§130.1(c)	§130.1(d)	§140.6(d)	<u>§140.6(a)1</u>	Pass	Fai
EVATOR LOBBIES	Main Entry Lobby	Manual ON/ OFF	Dimmer	Auto Timeswitch	NA	NA			
FLOOR COMMON SPACE	Lounge	Manual ON/ OFF	Dimmer	Auto Timeswitch	Included	Included			Ē
MAILBOXES	Commercial and Industrial Storage	Manual ON/ OFF	Dimmer	Auto Timeswitch	NA	NA			E
RESIDENTIAL CORRIDORS	Corridor	Manual ON/ OFF	Dimmer	Auto Timeswitch	NA	NA			E
EVATOR MACHINE ROOM	Electrical, Mechanical, Telephone Rooms	Manual ON/ OFF	Dimmer	Occ. Sensor	NA	NA			E
TES: Controls with	a * require a note in the space below e	explaining how com	pliance is achie	ved.		1	.3		
Conference 1: Prim	ary/Skylight Daylighting: Exempt becau	ise less than 120 w	atts of general l	ighting;	Pl	an Sheet Show	ving Daylit Zon	ies:	
EPTION 1 to <u>§130.1</u>	<u>(d)2</u>					E1	.01		

owances per <u>9140.0[c]</u> or aujustments	s per <u>9140.6(u)</u> are being used.						
nditioned Spaces				~			
01	02	03	04	05	06		
Area Description	Complete Building or Area Category	Allowed Density	Area	Allowed Wattage (Watts)	Additional Allowances / Adjustment		
	Filmary Fulletion Area	(W/ft ²)	(14)		Area Category	PAF	
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			
d.		TOTAL:	3,019	2,002.4	See Tables J or	P for detail	

C-LTI-E (Created 11/19)				CAL	IFORNIA ENERGY COMM	AISSION	
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ect Name: WEST BOULEVARD H	HOUSING	Report Page:				Page 5 of 8	
ect Address: 2853 WEST BLVD LC	OS ANGELES, CA 90016	Date Prepared:				04/26/2022	
01	02	03	04	05	06		
Area Description	Complete Building or Area Category Primary Function Area	Allowed Density	Area (ft²)	Allowed Wattage	Additional Allowances / Adjustment		
	1218	(w/π*)	60 - 0898	(watts)	Area Category	PAF	
onditioned Spaces							
01	02	03	04	05	06		
Area Description	Complete Building or Area Category Primary Function Area	Allowed Density	Area (ft ²)	Allowed Wattage	Additional Allowances / Adjustment		
		(W/ft ²)	19.7	(Watts)	Area Category	PAF	
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	
DDITIONAL LIGHTING ALLOW	ANCE: AREA CATEGORY METHOD QUALIFYING LIG	GHTING SYSTEM				?	
Section Does Not Apply							
AILORED METHOD GENERAL L	IGHTING POWER ALLOWANCE					?	
Section Does Not Apply							
DDITIONAL LIGHTING ALLOW	ANCE: TAILORED WALL DISPLAY					?	
Section Does Not Apply							

CERTIFICATE	OF C	OMPLIANCE			102
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Project Name	e: \	WEST BOULEVA	ARD HOUSIN	G	
Project Addr	ess: 2	2853 WEST BLV	D LOS ANGE	LES,	CA 90016
A. GENERAI	LINF	ORMATION			
01 Project	Locat	ion (city)			
02 Climate	Zone	l		- (1 +1	
03 Occupa	ncy I	ypes within Pro	Retail	all tr	iat apply)
Parkin	ig Gar	age 💽	 ∕_ High-Rise	Res	idential
B. PROJECT	sco	PE			2
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<u>§140.6</u> or <u>§1</u> .	41.0(l	<u>b)2</u> for alteration of the second se	ons. WARNII a new form (VG: (Changing e "Save A
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compliance	per	<u>§140.6(c)1</u>	9140.0(0)	4	(+)
<u>§140.6(b)</u>	<u>1</u> .	(See Table I)	(See Table	e I)	(See Tal
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C. COMPLIA Project Name Project Addre C. COMPLIA Uncondition D. EXCEPTIC This table is o No exception E. ADDITION This table inco F. INDOOR Table Instruc Designed Wi 01 Name or Item Tag LC-1 LC-1 LC-1 LC-1 LC-1 LC-1 LR-1 LR-1 LR-1	BITU ated 111 OF CC e: N ess: : ANCE auto-J nal co NAL I cludes LIGH ctions. attage 6" LI S 4 4 S	A/19) OMPLIANCE WEST BOULEVA 2853 WEST BLV RESULTS 639.6 CONDITIONS filled with uned inditions apply f REMARKS remarks made TING FIXTURE cloude all per e: Conditioned 02 Dette Luminaire ED CYLINDER D GAME AS "LC-1" 4" LED CYLIN 48" LINEAR ' LINEAR PEND 4" LED DOWN GAME AS "LR-1"	ARD HOUSIN TO LOS ANGE 1,702.4 itable comm to this project by the perm SCHEDULI manent desi Spaces Description OWNLIGHT W/ EM IDER LED ANT LED LIGHT W/ EM	G ELES, eents ct.	CA 9001
C. COMPLIA Project Name Project Addre C. COMPLIA Uncondition D. EXCEPTIC This table is c No exception F. INDOOR Table Instruct Designed Wa O1 Name or Item Tag LC-1 LC-1E LC-2 LL-1 LR-1 LR-1 LR-1 LR-1	ANCE auto 11 OF CC e: N ess: 3 ANCE auto-j nal co NAL I cludes LIGH cludes 6" LI S 4 4 S	A/19) OMPLIANCE WEST BOULEVA 2853 WEST BLV RESULTS 639.6 CONDITIONS Filled with uned Inditions apply 1 REMARKS remarks made TING FIXTURI Include all per e: Conditioned 02 Delete Luminaire ED CYLINDER D GAME AS "LC-1" 4" LED CYLIN 48" LINEAR LINEAR PEND, 4" LED DOWN GAME AS "LR-1"	ARD HOUSIN D LOS ANGE 1,702.4 itable comm to this project by the perm SCHEDULI manent desi Spaces Description OWNLIGHT W/ EM IDER LED ANT LED LIGHT W/ EM	G CLES, eents ct.	CA 9001
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STATE OF CALIFORNIA Indoor Lighting NRCC-LTI-E (Created 11/19)	CALL		
CERTIFICATE OF COMPLIANCE This document is used to demonstrate compliance with requirements in <u>§110.9</u> prescriptive path.	, <u>§110.12(c)</u> , <u>§130.0</u> , <u>§130.1</u> , <u>§140.6</u> , and <u>§141.0(b)2</u> for indoor ligh	NRCC-LTI-E hting scopes using the	
Project Name: WEST BOULEVARD HOUSING Project Address: 2853 WEST BLVD LOS ANGELES, CA 90016	Report Page: Date Prepared:	Page 1 of 8 04/26/2022	
A. GENERAL INFORMATION 01 Project Location (city) LOS ANGELES	04 Total Conditioned Floor Area (ft ²)	3,019	
02 Climate Zone 8 03 Occupancy Types Within Project (select all that apply): Office Retail Warehouse	05 Total Unconditioned Floor Area (ft²) 06 # of Stories (Habitable Above Grade) Hotel/Motel School	6 Support Areas	
Parking Garage ✓ High-Rise Residential Relocatable B. PROJECT SCOPE	Healthcare Other (write in):	?	
Table Instructions: Include any lighting systems that are within the scope of the <u>§140.6</u> or <u>§141.0(b)2</u> for alterations. WARNING: Changing the Calculation Met calculation method, please open a new form or use "Save As".	e permit application and are demonstrating compliance using the p hod in this table will result in the deletion of data previously input.	rescriptive path outlined in If you need to change the	
Scope of Work 01 My Project Consists of (check all that apply):	Conditioned Spaces Uncol 02 03 04 Calculation Method Area (ft ²) Calculation N	nditioned Spaces 05 Arethod Area (ft ²)	
Image: Weighting System Image: Weighting System - Parking Garage	Area Category 3,019 Area Category Complete Bu	gory 3,292 uilding 4,920	ENGINEERING & CONSULTING, INC
Altered Lighting System			30 THOMAS, IRVINE, CA 92618-2703 PHONE: (949) 716-9990 FAX: (949) 716-9997
Total Area of Work (ft ²) C. COMPLIANCE RESULTS	3,019	8,212	STAMP:
Table Instructions: If any cell on this table says "DOES NOT COMPLY" or "COMPLY" Allowed Lighting Power per §140.6(b) (Was Lighting in Colspan="2">COMPLY" or "COMPLY" or "COMPLY"	PLIES with Exceptional Conditions" refer to Table D. for guidance. Adjusted Lighting Power per §140.6(a) (Watts) Compliance Results	COB I NGCO
conditioned and unconditioned spaces must not Complete Area Category Additional Tailored	≥ Total PAF Control Total A	djusted	50 E-14492
be combined for compliance per $\frac{5140.6(c)1}{5140.6(c)1}$ Building $\frac{5140.6(c)2}{(+)}$ $\frac{5140.6(c)2G}{(+)}$ $\frac{5140.6(c)2G}{(+)}$	= Total Allowed (Watts) Designed (Watts) Credits <u>\$140.6(a)2</u> = (Watts) (Watts) (Watts) (Watts) Adjust	atts) 05 Must be≥08 ludes <u>§140.6</u> tments	THE AND SHE
(See Table I) (See Table I) (See Table J) (See Table I) Conditioned: 2,002.4 Image: Continued	() (See Table F) (See Table P) = 2,002.4 ≥ 1,570.6 = 1,5	70.6 COMPLIES	OF CALIFORN
CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance: http://www	.energy.ca.gov/title24/2019standards	November 2019	
STATE OF CALIFORNIA Indoor Lighting			COPYRIGHT NOTICE: COPYRIGHT IS RETAINED BY NATIONAL
NRCC-LTI-E (Created 11/19) CERTIFICATE OF COMPLIANCE Project Name: WEST BOULEVARD HOUSING	CALI Report Page:	FORNIA ENERGY COMMISSION NRCC-LTI-E Page 2 of 8	ENGINEERING & CONSULTING INC. FROM THE DATE OF ISSUANCE OF THESE DOCUMENTS DUPLICATION OF THESE DOCUMENTS OR THE
Project Address: 2853 WEST BLVD LOS ANGELES, CA 90016 C. COMPLIANCE RESULTS	Date Prepared:	04/26/2022	BUILT-WORK REPRESENTED BY THEM IS PROHIBITED WITHOUT THE EXPRESS, WRITTEN CONSENT NATIONAL ENGINEERING &
Unconditioned: 639.6 1,702.4	= 2,342 ≥ 1,788 = 1,7 Controls Compliance (See Table H for Details)	788 COMPLIES COMPLIES	CONSULTING INC.
D. EXCEPTIONAL CONDITIONS	Power Reduction Compliance (See Table Q for Details)		CLIENT:
This table is auto-filled with uneditable comments because of selections made No exceptional conditions apply to this project.	or data entered in tables throughout the form.		
E. ADDITIONAL REMARKS This table includes remarks made by the permit applicant to the Authority Hay	na Jurisdiction.		
			1050 S. FLOWER STREET
F. INDOOR LIGHTING FIXTURE SCHEDULE Table Instructions: Include all permanent designed lighting and all portable light	nting in offices.		
01 02 03 04 Name or Modular Small Aperture	05 06 07 08 Watts per How Wattage is Total number Exempt per	09 10 Field Inspector	PROJECT:
Item Tag Complete Luminaire Description (Track) Fixture & Color Change LC-1 6" LED CYLINDER DOWNLIGHT	Iuminaire ² determined Iuminaires §140.6(a)3 31 Mfr. Spec ² 4	Design Watts Pass Fail 124	2853 WEST BLVD
LC-1E SAME AS "LC-1" W/ EM	31 Mfr. Spec ² 5 27 Mfr. Spec ² 7 31 Mfr. Spec ² 1		LOS ANGELES, CA 90016
LP-1 4' LINEAR PENDANT LED	48.6 Mfr. Spec ² 1 11 Mfr. Spec ² 48 9	48.6	
LR-1E SAME AS "LR-1" W/ EM	11 Mfr. Spec ² 45 Total Designed Watts CONDITIONED SPACES:	495 L L 1,570.6	C-1AIME-001
			# DESCRIPTION DATE
CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance: http://www	.energy.ca.gov/title24/2019standards	November 2019	1ST SUBMITTAL 10/04/21
STATE OF CALIFORNIA			PC RESUBMITTAL 05/18/22
NRCC-LTI-E (Created 11/19) CERTIFICATE OF COMPLIANCE Project Name: WEST BOLI EVARD HOUSING	CALI Report Page:	FORNIA ENERGY COMMISSION	PC RESUBMITTAL 10/28/22
Project Address: 2853 WEST BLVD LOS ANGELES, CA 90016 Designed Wattage: Unconditioned Spaces	Date Prepared:	04/26/2022	$\begin{array}{ c c c c c c c c } \hline \underline{A} & HCD REVISION 1 & 12/16/22 \\ \hline \underline{A} & PC RESUBMITTAL & 02/02/23 \\ \hline \end{array}$
01 02 03 04 Name or Complete Luminoire Description Modular Small Aperture	05 06 07 08 Watts per How Wattage is Total number Exempt per	09 10 Design Watter Field Inspector	HCD & PC RESUBMITTAL 06/06/23
Item Tag Complete Luminaire Description (Track) Fixture & Color Change LC-3 6" WALL-MOUNT LED DOWNLIGHT	Iuminaire ² determined Iuminaires §140.6(a)3 23 Mfr. Spec ² 9	Pass Fail 207	HCD RESUBMITTAL 06/14/23
LG-1 4' PARKING GARAGE LED LG-1E SAME AS "LG-1" W/ EM	31 Mfr. Spec ² 6 31 Mfr. Spec ² 6	186 186 0	CLIENT REVISIONS 07/11/23
LL-1 48" LINEAR LED	31 Mfr. Spec ² 14 31 Mfr. Spec ² 5	434	CLIENT REVISIONS 08/04/23
LL-2 48" SURFACE-MOUNT LINEAR LED	31 Mfr. Spec ² 20 Total Designed Watts UNCONDITIONED SPACES:	620 1,788	PC RESUBMITTAL (ELEC) 10/05/23
¹ FOOTNOTE: Design Watts for small aperture and color changing luminaires w makes this adjustment, the permit applicant should enter full rated wattage in ² Authority Having Jurisdiction may ack for Lumingics cut checks to coefficient	hich qualify per <u>§140.6(a)4B</u> is adjusted to be 75% of their rated we column 05. tage used for compliance per §130.0(c) Wattage used must be the	attage. Table F automatically	CLIENT REVISIONS 10/12/23
luminaire, not the lamp.			Plot Date: 10/11/2023 4:20:31 PM
This Section Does Not Apply			
H. INDOOR LIGHTING CONTROLS (Not Including PAFs) Table Instructions: Please include lighting controls for conditioned and uncondit must be completed. The lighting controls section of the Compliance Summary 1	tioned spaces in this table. When an option having a * is selected, t able on the first page will show "DOES NOT COMPLY" if the notes o	he notes section of this table are left blank.	$ \begin{array}{c} 1130001 \\ \hline \\ $
Building Level Controls 01	02	03	CFRTIFICATES
Mandatory Demand Response §110.12(c) Required > 10,000 SF	Shut-Off Controls <u>§130.1(c)</u> See Area/Space Level Controls	Field Inspector Pass Fail	SHEFT NO:
Area Level Controls			
CA Duilding Course Efficiency from the 10 2040			F801
CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance: <u>http://www</u>	.energy.ca.gov/title24/2019standards	November 2019	

OF CALIFO	RNIA	
ctrical	Power	Distribution

ectrical	Power I	Distribut	ion					COMMISSIC		
RTIFICATE	OF COMPLI	ANCE					of Ell Offitist Ellerid	N	RCC-ELC-E	
oject Name	e: WEST E	BOULEVARD	HOUSING		Report Page:			Р	age 4 of 5	
oject Addre	ess: 2853 V	VEST BLVD L	OS ANGELES, CA 90016		Date Prepared:			04	1/26/202	
CIRCUIT C	ONTROLS	FOR 120-V	OLT RECEPTACLES AND CONTROL	LED RECEPTACLES					?	
ble Instruc	tions: Pleas	e complete	this table for entirely new or complete	replacement electrical po	ower distribution syst	tems to demo	nstrate compliance with	§130.5(d).	. Both	
ntrolled ar	nd uncontro	lled recepta	cles must be provided in office areas, l	obbies, conference rooms	, kitchen areas in off	ice spaces, co	py rooms and hotel/mot	el guest ro	oms.	
	01		02	03		04	05		06	
Room Name			Location/ Type of Controlled	Shut-Off C	ontrols	Permanent Durable	Location of Requiremen in Construction	s Field I	Field Inspector	
or	or Description Receptacles Marking W be Used		be Used	Documents	Pass	Fail				
1ST FLOO	R COMMON	I SPACE	Split-wired receptacles	Auto Time-Switch w/ a	pplicable override 🖵	\checkmark	E201			
					$\Delta^{2} = B^{2}$		Add Row	Remove Last		
f "Other*"	is selected	under Comp	liance Method above, please indicate	how compliance has beer	achieved in the spa	ce provided b	elow.			
DECLARA	TION OF R	EQUIRED (CERTIFICATES OF INSTALLATION						2	
ble Instruc ble E. Addi le24/2019:	tions: Selec itional Remo standards/2	tions have l arks. These 019_compl	been made based on information prov documents must be provided to the bu iance_documents/Nonresidential_Doc	ided in previous tables of uilding inspector during co uments/NRCI/	this document. If an postruction and can L	y selection ne pe found onlin	eds to be changed, pleas e at https://ww2.energy	e explain v ca.gov/	why in	
VEC	NO			Г /Т!+l-				-ield Inspe	ector	
YES	NO			Form/ litie			F	ass	Fail	
۲	О	NRCI-ELC-0	1-E - Must be submitted for all buildin	igs.						
		4						<u>6.</u>		

Building Energy Ef	ficiency Standards - 2019 Nonresidential Compliance: http://www.er	nergy.ca.gov/title24/2019standards	November 2019
TE OF CALIFORNIA			
ectrical Pow	er Distribution		and the second se
CC-ELC-E (Created 11,	/19)		CALIFORNIA ENERGY COMMISSION
RTIFICATE OF CO	MPLIANCE		NRCC-ELC-E
oject Name: W	EST BOULEVARD HOUSING	Report Page:	Page 5 of 5
oject Address: 28	353 WEST BLVD LOS ANGELES, CA 90016	Date Prepared:	04/26/2022
OCUMENTATIO	N AUTHOR'S DECLARATION STATEMENT		2
ertify that this Ce	rtificate of Compliance documentation is accurate and comple	ete.	19-
ocumentation Aut	thor Name: GABRIEL TUASON	Documentation Author Signature:	(M) var
mpany:	NATIONAL ENGINEERING & CONSULTING, INC	Signature Date:	04/26/2022
dress:	30 THOMAS	CEA/ HERS Certification Identificatio	n (if applicable):
y/State/Zip:	IRVINE, CALIFORNIA 92618	Phone:	949.716.9990
SPONSIBLE PERS	ON'S DECLARATION STATEMENT		
ertify the followi	ng under penalty of perjury, under the laws of the State of C	alifornia:	
The information	provided on this Certificate of Compliance is true and correc	t.	
I am eligible und	ler Division 3 of the Business and Professions Code to accept	responsibility for the building design or sys	tem design identified on this Certificate of
The energy feet	ponsible designer)	and manufactured devices for the building	design or system design identified on this
Contificate of Co	meliance conform to the requirements of Title 24. Part 1 and	. and manufactured devices for the building	aesign of system design identified on this
The huilding des	ign features or system design features identified on this Cert	ificate of Compliance are consistent with t	he information provided on other applicable
compliance docu	uments, worksheets, calculations, plans and specifications su	bmitted to the enforcement agency for ap	proval with this building permit application.
I will ensure that	t a completed signed copy of this Certificate of Compliance s	hall be made available with the building pe	rmit(s) issued for the building, and made available
to the enforcem	ent agency for all applicable inspections. I understand that a	completed signed copy of this Certificate of	f Compliance is required to be included with the
documentation	the builder provides to the building owner at occupancy.		O ALI
sponsible Design	er Name: REGINO C LAVARIAS	Responsible Designer Signature:	h/x///we/
mpany :	NATIONAL ENGINEERING & CONSULTING, INC	Date Signed:	04/26/2022
dress	30 THOMAS	License:	F14492

STATE OF CALIFORNIA						
Electrical Power Distribu	ition					
NRCC-ELC-E (Created 11/19)					CALII	
CERTIFICATE OF COMPLIANCE			2 12	-		NRCC-ELC-E
This document is used to demonstr	ate compliance with mandatory requirement	s in §130.5 for e	lectrical system	is in newly cons	tructed nonresident	ial, high-rise residential and
hotel/motel occupancies. Addition	s and alterations to electrical service systems	in these occupe	incies will also i	ise this docume	nt to demonstrate o	compliance per §141.0(a) or
§141.0(b)2P for alterations.			These contracts			
Project Name: WEST BOULEVAR	DHOUSING		Report Pag	e:		Page 1 of 5
Project Address: 2853 WEST BLVD	LOS ANGELES, CA 90016		Date Prepa	red:		04/26/2022
A. GENERAL INFORMATION						2
01 Project Location (city)	LOS ANGELES	02 0	Occupancy Type	s Within Projec	t:	
Office	Retail Warehouse		otel/Motel	Sch	lool	Support Areas
Parking Garage	High-Rise Residential 🗌 Relocatable	H	ealthcare Facili	ties 🗌 Oth	ner (Write In):	
B. PROJECT SCOPE					- 10 ⁴ - 4 ⁰	0
Table Instructions: Include any elec	ctrical service systems that are within the scop	e of the permit	application.			<u></u>
01	02	03	04	05		06
					Deman	d Response Controls
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)	Where required, du be specified which automatically resp standards based m enables demand re demand response and §130.3 and co MCH, NRCC-LTI and	emand response controls must are capable of receiving and onding to at least one essaging protocol which esponse after receiving a signal. Sections §120.2, §130.1 mpliance documents NRCC- d NRCC-LTS will indicate when
"MSA"	New electrical service equipment & meter	285.8			demand response	controls are required.
	*		2	A	Add Row	Remove Last

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

C. COMPLIANCE RE	SULTS						2
Table Instructions: If t	this table .	says "DOES NOT COI	MPLY" refe	r to Table D. for gui	dance and	review the Table tha	t 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)	AND	Controlled Receptacles §130.5(d)	Compliance Results
(See Table F)	1	(See Table G)		(See Table H)	-	(See Table I)	
Yes	AND	Yes	AND	Yes	AND	Yes	COMPLIES

TATE OF CALIFC	RNIA	
lectrical	Power	Distribution

NRCC-ELC-E (Create	d 11/19)	
CERTIFICATE OF	COMPLIANCE	
Project Name:	WEST BOULEVARD HOUSING	

Project Address:	2853 WEST BLVD LOS ANGELES, CA 90016

D. EXCEPTIONAL CONDITIONS
This table is auto-filled with uneditable comments because of selections made

o exceptional conditions apply to	this project.								
ADDITIONAL REMARKS									2
his table includes remarks made by	/ the permit app	licant to the Author	rity Having Jurisdic	ction.					
. SERVICE ELECTRICAL METERII	NG								2
able Instructions: Complete the tai	ble below for nev	v or replacement e	lectrical service sy	stems OR equipm	ent to dei	monstrat	e compliance with §130.5(a).		
01	02		0	3			04	0	5
		Required Metering Capabilities per Table 130.5-A					Field Inone-ter		
Electrical Service	ervice Rating		Listorical Deals	Tracking kWh for	for White par rate		Location of Requirements in		
Designation/ Description	(kVA)	Demand (kW)	Demand (kW)	user-defined period	per	iod	04 Location of Requirements in Construction Documents E401	Pass	Fail
"MSA"	286	✓	✓	\checkmark	Ľ		E401		
lectrical Service Designation/Deso	cription:	"MSA"							
01			02	03			04	0	5
Load Type per Table 130.5-B ¹		Minimum Required Separation of Load per Table 130.5-B		of Compli Metho	Compliance R Method ²		Location of Requirements in Construction		spector
				2		c	Documento	Pass	Fail
Lighting including exit, egress a	nd exterior	All lighting disag	gregated by floor, or area	type Method	12		E401		
HVAC systems and compo	nents	All HVAC in aggr load rated	egate and each HV at least 50 kVA	VAC Method	12		E401		
Domestic and service water	systems 🖣	All load:	s in aggregate	Method	12 -		E401		

Table Continued

November 2019

CA Building Energy Efficiency Standards - 2019 Nonresidential Comp

STATE OF CALIFORNIA STATE OF CALIFORNIA Electrical Power Distribution NRCC-ELC-E (Created 11/19) CERTIFICATE OF COMPLIANCE Project Name: WEST BOULEVARD HOUSING Project Address: 2853 WEST BLVD LOS ANGELES, CA 90016

G. SEPARATION OF ELECTRICAL CIRCUITS FOR ENERGY Table Instructions: Complete this table for entirely new or co dropdown choices in column 01, indicate the load types inclu

01

Load Type per Table 130.5-B ¹	Min
Elevators, escalators, moving walkways	
NOTES: If "Other*" is selected under Compliance Me	thod al
OOTNOTES: For each separate load type, up to 10% Aethod 1: Switchboards/ motor control centers/ pan Aethod 2: Switchboards/ motor control centers/ pan Aethod 3: Branch circuits serve load types individual. Aethod 4: Complete metering system measures and ee Chapter 8 of the Nonresidential Compliance Man	of the elboar elboar ly & pro reports ual for
VOLTAGE DROP	
ble Instructions: Please complete this table for entit	ely nev

01		02	03	04	0	5
Electrical Service	Combined Voltage Drop	on Installed Feeder/Branch	Location of Voltage Drop	Sheet Number for Voltage Drop Calculations in Construction	Field Inspector	
Designation/ Description			Calculations	Documents	Pass	Fail
"MSA"	✓Voltage drop < 5%	Permitted by CA Elec Code (Exception to §130.5(c))*	In construction documents	E402		

¹FOOTNOTES: 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".

Table Continued

CA Building Energy Efficiency Standards - 2019 Nonresidential Comp

TATE OF CALIFORNIA						
ectrical Powe	er Distributio	n				(Contraction of the second se
RCC-ELC-E (Created 11/1	19)				CALIFORNIA ENERGY	
ERTIFICATE OF CON	VPLIANCE					NRCC-ELC-E
roject Name: WE	EST BOULEVARD H	OUSING		Report Page:		Page 5 of 5
roject Address: 28	53 WEST BLVD LO	S ANGELES, CA 90016		Date Prepared:		04/26/2022
OCUMENTATION	NAUTHOR'S DEC	LARATION STATEMENT				2
certify that this Cer	rtificate of Complia	ance documentation is accurate and compl	ete.		19-	
Ocumentation Aut	hor Name:	GABRIEL TUASON	Documen	tation Author Signature:	My var?	
Company:	NATIONAL E	NGINEERING & CONSULTING, INC	Signature	Date:	04/26/2022	
\ddress:		30 THOMAS	CEA/ HER	S Certification Identificatio	on (if applicable):	
City/State/Zip:)	RVINE, CALIFORNIA 92618	Phone:		949.716.9990	
ESPONSIBLE PERSO certify the followin	ON'S DECLARATIO	N STATEMENT of perjury, under the laws of the State of C	California:			
l. The information	provided on this (ertificate of Compliance is true and correc	ct.			
2. I am eligible unde	er Division 3 of th	e Business and Professions Code to accept	responsibility for	r the building design or sy	stem design identified on this Cer	tificate of
Compliance (resp	onsible designer)					2-1-1-1-1-2-1-2-1
. The energy feature	res and performa	nce specifications, materials, components,	, and manufactur	ed devices for the building	g design or system design identifi	ed on this
Certificate of Con	npilance conform	to the requirements of litle 24, Part 1 and	a Part 6 of the Cal	mornia Code of Regulation	15. La information monidad on atta	a ana Rashia
compliance docu	gn reacures or sys	tem design reacures identified on this cert	uncate of compli-	ance are consistent with t	ne information provided on othe	nnlication
L will onsure that	a completed sign	ad conv of this Cortificato of Compliance s	hall he made ava	ilable with the building or	proval with this building permit a	ppication. d mado availablo
to the enforceme	a completed sign	upplicable inspections. Lunderstand that a	completed signe	d copy of this Certificate of	of Compliance is required to be in	cluded with the
documentation t	he builder provide	es to the building owner at occupancy.				
Responsible Designe	er Name:	REGINO C LAVARIAS	Responsil	ole Designer Signature:	hAM Imp	
Company :	NATIONAL I	ENGINEERING & CONSULTING, INC	Date Sign	ed:	04/26/2022	
Address:		30 THOMAS	License:		E14492	
City/State/Zip:		RVINE, CALIFORNIA 92618	Phone:		949.716.9990	

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

NRCC-ELC Page 2 of
Page 2 of
04/26/202
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November 2019

npliance: http://www.energy.ca.gov/tit	le 24/2019 standards:			Novem	ber 2019				
			CALIFORNIA ENERGY C	COMMISSIO	J				
				NR	CC-ELC-E				
	Pa	ge 3 of 5							
	04/	26/2022							
Y MONITORING					2				
omplete replacement electrical pov uded for each service. Any load typ	ver distribution systen es that are not include	ns to demonstrate con ed in the service do no	mpliance with §130.5(ot need to be shown.	'b). Using	the				
02	03	0	4	0	5				
nimum Required Separation of Load per Table 130.5-B	mum Required Separation of Compliance Location of Requirements in Construction								
		Docui	TIETILS	Pass	Fail				
All loads in aggregate	Method 2	E4	01						
above, please indicate how complia	nce has been achieved	d in the space provide	d below.						
		Reset	Add Load Type	Remov	e Last				
	-								

he connected load may be of any type. oard loads disaggregated for each load type

oard supply other distribution equipment with loads disaggregated for each load type provisions for adding future branch curcuit monitoring

ts loads by type

or more detail on Compliance Methods.

oliance: ht	p://www.energy.ca.	gov/title24/2019standards	

November 2019

ENC 30	JATION GINEERING & CONSUL THOMAS, IRVINE, CA 9 DNE: (949) 716-9990 FAX: (94	IAL TING, INC 2618-2703 49) 716-9997
STA	MP: COB INGCO E-14492 COF CALIFORNIA	
CO CO ENG DAT DUP BUI PRC CO C	PYRIGHT: D P Y R I G H T N O PYRIGHT IS RETAINED BY SINEERING & CONSULTING ING E OF ISSUANCE OF THESE D LICATION OF THESE DOCUM LT-WORK REPRESENTED H DHIBITED WITHOUT THE EXPRENTED HOT THE EXPRENTED NSENT NATIONAL ENGINON N S U L T I N G	T I C E : NATIONAL C. FROM THE OCUMENTS. ENTS OR THE BY THEM IS ESS, WRITTEN NEERING & I N C .
CLIE	ENT:	
	JAIME PARTNE OF CALIFORNIA,	RS INC.
1(D50 S. FLOWER S LOS ANGELES, CA 90	TREET 015
PRC	DJECT:	
	2853 WEST BLV	′D
L	OS ANGELES, CA	90016
	1ST SUBMITTAL	10/04/21
	UTILITY COORDINATION	04/08/22
$\overline{\mathbb{A}}$	PC RESUBMITTAL	05/18/22
$\underline{\underline{\mathbb{A}}}$	PC RESUBMITTAL	10/28/22
$\frac{3}{5}$	HCD REVISION 1	12/16/22
$\frac{4}{4}$		02/02/23
$\frac{22}{8}$	HCD RESUBMITTAL	06/14/23
$\underline{\underline{\mathbb{A}}}$	PC RESUBMITTAL	07/10/23
	CLIENT REVISIONS	07/11/23
$\underline{\land}$	CLIENT REVISIONS	08/04/23
$\frac{10}{2}$	PC RESUBMITTAL (ELEC)	09/12/23
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		10/12/23
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POWER TITLE 24 COMPLIANCE CERTIFICATES

E802

SHEET NO:

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E OF CALIFORNIA tdoor Lighting -LTO-E (Created 11/19)							CALIFORNIA ENEI	RGY COMM	1155119
TIFICATE OF COMPLIA ect Name: WEST BC	ULEVARD HOUSING			Report	Page:				NRCC-LTO Page 4 of
ect Address: 2853 WE	ST BLVD LOS ANGELES, CA	A 90016		Date Pr	epared:			10-	04/26/202
01		02		03		04	100	i pieree	05
Area Descriptio	n	Shut-Off §130.2(c)1		Auto-Schedule §130.2(c)2		Motion Sens §130.2(c)3	or	Field	E Inspector
ROOF DECK	EXEMPT FRO	M MOTION SENS	I DRS BECAUSE LIGH	T FIXTURES ALL AR	E RATED LESS TH	IAN 40 WATTS		F d55	Fdil
WALKWAY ENTI	AN EXEMPT FRO	M MOTION SENS	DRS BECAUSE LIGH	T FIXTURES ALL AR	E RATED LESS TH	IAN 40 WATTS			
GARAGE ENTR	EXEMPT FRC	M MOTION SENS	ORS BECAUSE LIGH	T FIXTURES ALL AR	E RATED LESS TH	IAN 40 WATTS			
					,-				
HTING POWER AL	OWANCE (per §140.7)	eas using the			01				
ance calculations per	<u>§140.7</u> . General Hardsco	ape Allowance	Canaral		"Use it or lose i	t" Allowances (sele	ct all that ap	ply)	
<u>140.7-B</u> . Indicate wi	ich allowances are being	used to	Ardscape	Per Applicati	on Sales Fr	rontage 🗍 Ori	namental	PerS	pecific Are
nd sections for user ir Use it or lose it" allow	put. Luminaires that qua ances shall not qualify fo	lify for one of r another "Use	Allowance						peene rie
lose it" allowance. Jated General Hardso	ape Lighting Power Allow	ance per Table 14	Table I (below)	Table J	Table	K Tab	le L	Tal	ble M
02	03	04	05	06	07	08	09		10
Area Description	Surface Type	Area \ Illuminated	Nattage Allowance Allowed Density	(AWA) Area Allowance	Linear Perimeter	Wattage Allowanc Allowed Density	e (LWA) Linear Allow	ance A	otal Genera WA + LWA
POOF DECK	Concrete	Area (ft ²)	(W/ft ²)	(Watts)	Length (lf)	(W/lf)	(Watts)		(Watts)
WALKWAY ENTRY	Concrete	1,116	0.03	33.48	223	0.4	89.2		122.68
TH FLR ELEVATOR LO	3BY Concrete	102	0.03	3.06	43	0.4	17.2		20.26
GARAGE LIVERT	concrete	520	0.03	5,76	74	0.4	25.0		39.30
					Initial Wattag	e Allowance for E	ntire Site (Wa	itts):	350
					Total Ger	leral naruscape A	iowance (wa	ittsj.	055.77
SHTING ALLOWANG	E: PER APPLICATION								
ilding Energy Efficiency	Standards - 2019 Nonreside	ntial Compliance: <u>ht</u>	tp://www.energy.ca	.gov/title24/2019sta	ndards			N	ovember 20
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door Lighting TO-E (Created 11/19)							CALIFORNIA ENE	RGY COMM	1155119
FICATE OF COMPLIA				Report	Page				NRCC-LTC
ct Address: 2853 WE	ST BLVD LOS ANGELES, CA	A 90016		Date Pr	epared:				04/26/20
SHTING ALLOWAN	CE: SALES FRONTAGE								
Section Does Not App	ν.								
HTING ALLOWAN	E: ORNAMENTAL								6
ECLARATION OF RE Instructions: Selecti E. Additional Remark 4/2019standards/20.	QUIRED CERTIFICATES ons have been made base (s. These documents mus (9 compliance_documen	OF INSTALLATIC of on information p t be provided to th ts/Nonresidential	DN provided in previou ne building inspecto Documents/NRCI/	s tables of this doc or during construct	ument. If any se ion and can be fo	lection needs to be ound online at <u>http</u>	changed, ple s://www.ene	ase explo rgy.ca.go	ain why in av/
'ES NO			Form	ı/Title			_	Field I	nspector
• C N	RCI-LTO-01-E - Must be si	ubmitted for all bu	ildings.						
	RCI-LTO-02-E - Must be s	ubmitted for a ligh	ting control system	n; or for an Energy	Management Co	ontrol System (EM	CS), to be		
	cognized for compliance	e							
CLARATION OF RE	QUIRED CERTIFICATES	OF ACCEPTANCE	rovided in previous	s tables of this doc	ument. If any sele	ection needs to be	chanaed. plea	ise expla	in why in
E. Additional Remark fication Provider (ATT	cs. These documents musi CP). For more informatio	t be provided to th n visit: <u>http://wwv</u>	e building inspecto v.energy.ca.gov/tit	r during constructi le24/attcp/provide	on and must be a <u>ers.html</u>	completed through	an Acceptan	ce Test T	echnician
ES NO			Form	/Title			_	Field I	nspector
	RCA-LTO-02-A - Must be	submitted for all o	utdoor lighting cor	ntrols except for al	terations where	controls area adde	d to ≤ 20	Pass	Fail
՝ և	minaires.								
ilding Energy Efficiency	standards - 2019 Nonreside	ntial Compliance: <u>ht</u>	tp://www.energy.ca	.gov/title24/2019sta	ndards			N	ovember 20
of CALIFORNIA door Lighting									
LTO-E (Created 11/19) IFICATE OF COMPLIA	ICE					1	CALIFORNIA ENEI	RGY COMM	
ct Name: WEST BC	ULEVARD HOUSING	00016		Report	Page:				Page 6 o
	LODICO ANGELES, C	30010		Date Pr	epareu.				04/20/20
ify that this Certificat	e of Compliance docume	ntation is accurate	and complete			10-			le le
mentation Author Na	me: G	SABRIEL TUASON		Documentation A	uthor Signature:	(hu)	U.A.	2	
bany:	NATIONAL ENGINEERING	& CONSULTING, II	NC	Signature Date:		04/26/	2022	-	
255:	30 THOM	IAS		CEA/ HERS Certifi	cation Identificat	ion (if applicable):			
itate/Zip:	IRVINE, CALIF	ORNIA 92618		Phone:		949.716.999	90		
ify the following und	er penalty of perjury, un	der the laws of th	e State of Californi	ia:					
e information provid	ed on this Certificate of (Compliance is true	e and correct.	sibility for the bui	Iding design or s	vstom dosign idon	tified on this	Cortifica	te of
mpliance (responsib	e designer)	reressions cod	- to accept respon	sisting for the bui	uesign or s	,stem design iden	anea on this		
ne energy features an ertificate of Complian	d performance specificat ce conform to the requir	ions, materials, co ements of Title 24	omponents, and m , Part 1 and Part 6	anufactured devic of the California (es for the buildi Code of Regulation	ng design or system ons.	n design ider	ntified on	this
ne building design fea	tures or system design fe , worksheets, calculation	eatures identified	on this Certificate	of Compliance are d to the enforcem	consistent with ent agency for a	the information p	rovided on o puilding nerm	ther app it applic	licable ation
vill ensure that a con	pleted signed copy of th	is Certificate of Co	mpliance shall be	made available wi	ith the building p	permit(s) issued fo	r the building	, and ma	ide availat
the enforcement age	ncy for all applicable ins	pections. I unders	tand that a comple	eted signed copy o	or this Certificate	of Compliance is	required to b	e include	or with the
cumentation the bui	lder provides to the build	ding owner at occu	upancy.			DAL			a min ne
ocumentation the bui onsible Designer Nan	Ider provides to the build e: REC	ding owner at occu GINO C LAVARIAS	upancy.	Responsible Desig	ner Signature:	Room	Nue)		
ocumentation the bui ponsible Designer Nam pany : ress:	Ider provides to the build e: REC NATIONAL ENGINEERING	ding owner at occu GINO C LAVARIAS & CONSULTING, I IAS	upancy. NC	Responsible Desig Date Signed:	ner Signature:	64/26/2 E14402	1100		

ATE OF CALIFORNIA								
Outdoor Lighting RCC-LTO-E (Created 11/19) ERTIFICATE OF COMPLIANCE				CALIFORNIA ENERGY COI				
his document is used to demonstrate con oject Name: WEST BOULEVARD HOU	npliance with requirements in <u>§110.</u> SING	9, <u>§130.0</u> , <u>§130.2</u> , <u>§140.7</u> , and <u>§141.1</u> Report Page:	D(b)2L for outdoor lighting s	copes using the pre	scriptive path. Page 1 of 6			
oject Address: 2853 WEST BLVD LOS AN . GENERAL INFORMATION	NGELES, CA 90016	Date Prepared			04/26/2022			
01 Project Location (city) 02 Climate Zone	LOS ANGELES 8	04 Total Illuminated Ha	rdscape Area (ft ²)	2,259				
03 Outdoor Lighting Zone per <u>Title 24, F</u> LZ-0: Very Low - Undeveloped Parklan	d LZ-2: Moderate - Rural Areas	LZ-4: High - Must be r	reviewed by CA Energy Com	mission for Approva	al			
. PROJECT SCOPE	LZ-3: Moderately High - Urba	n Areas			2			
able Instructions: Include any outdoor lig utlined in <u>\$140.7</u> or <u>\$141.0(b)2L</u> for alter My project consists of	hting systems that are within the sc ations.	ope of the permit application and are	e demonstrating compliance	e using the prescript	ive path			
01	Must Comply with Allow	vances from §140.7.	02					
Altered Lighting System 03	ls your alteration increa	sing the connected lighting load (War 04	tts)?	C Yes (<u>No</u>		JATION	
% of Existing Luminaires Being Alte FOOTNOTES: % of Existing Luminaires Be	red ¹ Sum Total of Luminair ing Altered = (Sum Total of Luminair	res Being Added or Altered res Being Added or Altered / Existing	Calculatio Luminaires within the Scope	on Method e of the Permit Appli	ication) x 100	ENC	GINEERING & CONSUL	TING, INC
. COMPLIANCE RESULTS able Instructions: If any cell on this table	says "DOES NOT COMPLY" or "COM	IPLIES with Exceptional Conditions" re	efer to Table D. for auidance	2	2	30 ⁻ PHC	THOMAS, IRVINE, CA 9 DNE: (949) 716-9990 FAX: (94	2618-270 49) 716-999
Calculation of Total Allow	ed Lighting Power (Watts) <u>§140.7</u> o 03 04 0	r <u>§141.0(b)2L</u> 05 06	Complian 07 08	ce Results	09	STA	MP:	
General Hardscape Allowapca + Application + Fror	iles htage + Ornamental + Per S	pecific Existing rea OR Power = Total	Allowed ≥ Total Ac	tual 07 M	ust ba > 09	5174	Part Monte)
§140.7(d)1 §140.7(d)2 §140 See Table I) (See Table J) (See Table J)	S140.7(d)2 S140. Table K) (See Table L) (See Table L)	5141.0(b)2L (V able M) (See Table N)	Vatts) (Watt (See Tab	s) le F)	ust De 2 08		S COBINGCO P	
655.77 + +	+ + + Cutoff Complia	OR = 6 nce (See Table G for Details)	55.77 ≥ 456.4 Not Ap	t CO plicable	MPLIES		CINE 15193 E-14492 SAIRG	
	Controls Complia	nce (See Table H for Details)	COMPLIES with Exc	eptional Condition	S		X STACTOLON X	
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A Building Energy Efficiency Standards - 2019	Nonresidential Compliance: http://www	w energy ra gov/title74/2019standards			November 2019			
					Horember 2015	СО	PYRIGHT:	
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ERTIFICATE OF COMPLIANCE oject Name: WEST BOULEVARD HOU	SING	Report Page:			NRCC-LTO-E Page 2 of 6	DAT DUP	E OF ISSUANCE OF THESE D LICATION OF THESE DOCUM	OCUMENT ENTS OR TH
oject Address: 2853 WEST BLVD LOS AN	IGELES, CA 90016	Date Prepared			04/26/2022	BUI PRO	LT-WORK REPRESENTED E HIBITED WITHOUT THE EXPRE	BY THEM I SS, WRITTE
his table is auto-filled with uneditable co	mments because of selections made	or data entered in tables throughou	t the form.				ONSULTING	I N C
able H. Outdoor Lighting Controls Permit ROOF DECK: EXEMPT FROM MOTION SE WALKWAY ENTRY: EXEMPT FROM MOT	Applicant Notes: ENSORS BECAUSE LIGHT FIXTURES A ION SENSORS BECAUSE LIGHT FIXTU	LL ARE RATED LESS THAN 40 WATTS JRES ALL ARE RATED LESS THAN 40 W	/ATTS			CLIE	ENT:	
6TH FLR ELEVATOR LOBBY: EXEMPT FRO GARAGE ENTRY: EXEMPT FROM MOTIO	OM MOTION SENSORS BECAUSE LIG N SENSORS BECAUSE LIGHT FIXTUR	HT FIXTURES ALL ARE RATED LESS TH ES ALL ARE RATED LESS THAN 40 WA	AN 40 WATTS TTS				JAIME PARTNE	RS
ADDITIONAL REMARKS	match the areas entered in Table I.	Please review for compliance.			2		OF CALIFORNIA,	INC.
his table includes remarks made by the p	ermit applicant to the Authority Hav	ving Jurisdiction.				10		госст
	FDUIF				0		LOS ANGELES. CA 90	
able Instructions: For new or altered ligh xisting luminaires remaining or being mo	ting systems demonstrating complic wed within the spaces covered by th	ance with <u>§140.7</u> (ie Table I has expar e permit application in the Table belo	nded for input), include all li ow. For altered lighting sys	uminaires being inst tems using the Exist	alled and any ing Power		,	
nethod per <u>§141.0(b)2L</u> (ie Table N has ex e, do not include existing luminaires rem esigned Wattage:	xpanded for input), include only new aining or existing luminaires being r	 Iuminaires being installed and replace noved). 	cement luminaires being in:	talled as part of the	e project scope	PRC	DJECT:	
01 02	03 04	05 06	07 08	09 Cutoff Req. ≥	10		2052 WEST DIV	
Name or tem Tag	tion Watts per How Wattage determined	is number Luminaire Status ³	per Design Watts	6,200 initial lumen output	Field Inspector		2033 WEST DLV	U
LS-1 OUTDOOR STEP LIGHT	near 12.2 Mfr. Spec ¹	29 New	353.8	NA: <6,200 lumens		L	OS ANGELES, CA	90016
LS-2 LED BOLLARD Li	near 12.3 Mfr. Spec ¹ near 10 Mfr. Spec ¹	2 New 2 New	24.6	NA: <6,200 lumens				
	near	Total Desig	0 med Watts: 456.4					
NOTES: Selections with a * require a not X: Luminaire is lighting a statue; EXCEPT	te in the space below explaining how ION 2 to <u>§130.2(b)</u> .	w compliance is achieved.						DATE
able Continued							1ST SUBMITTAL	10/04/21
A Building Energy Efficiency Standards - 2019	Nonresidential Compliance: http://ww	w.energy.ca.gov/title24/2019standards			November 2019		UTILITY COORDINATION	04/08/22
ate of california Outdoor Lighting						Δ	PC RESUBMITTAL	05/18/22
RCC-LTO-E (Created 11/19) ERTIFICATE OF COMPLIANCE roject Name: WEST BOULEVARD HOU:	SING	Report Page:		CALIFORNIA ENERGY COI	NRCC-LTO-E Page 3 of 6			10/28/22
oject Address: 2853 WEST BLVD LOS AN	IGELES, CA 90016	Date Prepared		1	04/26/2022	$\frac{\sqrt{3}}{\sqrt{3}}$	PC RESUBMITTAL	02/02/23
01 02	03 04	05 06	07 08 Excluded	09 Cutoff Req. ≥	10 Field Inspector	$\frac{24}{5}$	HCD & PC RESUBMITTAL	06/06/23
tem Tag	luminaire ^{1,2} determined	¹⁵ number Luminaire Status ³ luminaires ²	per Design Watts §140.7(a)	output §130.2(b) ⁴	Pass Fail		hcd resubmittal	06/14/23
FOOTNOTES: Authority Having Jurisdictic	on may ask for Luminaire cut sheets	to confirm wattage used for complia	nce per <u>§130.0(c)</u>			Δ	PC RESUBMITTAL	07/10/23
For linear luminaires, wattage should be iminaires. Select "New" for new luminaires in a nev	indicated as W/If instead of Watts/ v outdoor lighting project or for add	'luminaire. Total linear feet for the lu led luminaires in an alteration. Select	minaire should be indicated t "Altered" for replacement	l in column 05 instea luminaires in an alta	ad of number of eration. Select			07/11/23
Existing to Remain" for existing luminaire eing removed and reinstalled as part of t	es within the project scope that are the project scope	not being altered and are remaining.	Select "Existing Reinstalled	" for existing lumine	aires which are	$\frac{1}{2}$	PC RESUBMITTAL (ELEC)	09/12/23
Compliance with mandatory cutoff requi	rements is required for iuminaires w	vitn initial lumen output 2 6,200 unles	ss exempted by <u>9130.2[b]</u> .		2	$\overline{\mathbb{A}}$	PC RESUBMITTAL (ELEC)	10/05/23
. OUTDOOR LIGHTING CONTROLS					2	Δ	CLIENT REVISIONS	10/12/23
able Instructions: Complete this table de Iteration projects, luminaires which are e	emonstrating compliance with contri existing to remain (ie untouched) an	ols requirements for all new or altere d luminaires which are removed and	d luminaires installed as pa reinstalled (wiring only) do	rt of the permit app not need to be inclu	lication. For ded in this table	Plot	Date: 10/11/2023	4:04:43 PI
ven if they are within the spaces covered /hen an option having a * is selected, the how "DOES NOT COMPLY" if the notes ar	by the permit application. e notes section of this table must be e left blank. For each requirement in	completed. The lighting controls sect n columns 02 through 04, do not leav	ion of the Compliance Sum e the field blank, instead se	mary Table on the fi lect NA or Exempt* ;	rst page will from the	SHE	ET TITLE:	
ropdown list to indicate not applicable of landatory Controls	r an exemption.						UTDOOR LTG	TITLE
01	02 Shut-Off	03 Auto-Schedule	04 Motion Sens	or Fi	05 ield Inspector		24 COMPLIAN	
ROOF DECK	§130.2(c)1 Photocontrol	<u>§130.2(c)2</u> Ves	§130.2(c)	P:	ass Fail		CFRTIFICAT	FS
WALKWAY ENTRY 6TH FLR ELEVATOR LOBBY	Photocontrol Photocontrol	Yes	Exempt *					
GARAGE ENTRY NOTES: Controls with a * require a note i	Photocontrol in the space below explaining how o	Yes compliance is achieved.	Exempt *			SHE		
X: Not permitted by health & safety to be able Continued	turned off; EXCEPTION 1 to <u>§130.2</u>	<u>(c)</u> .						
A Building Energy Efficiency Standards - 2019	Nonresidential Compliance: http://ww	w.energy.ca.gov/title24/2019standards			November 2019		EQUS	

STATE OF CALIFORNIA Outdoor Lighting							
NRCC-LTO-E (Created 11/19) CERTIFICATE OF COMPLIANCE This document is used to demonstrate c	ompliance with requirements in §110.9,	\$130.0, \$130.2, \$140.7, and \$141.0(b)2L	CALIFORNIA EN	NRCC-LTO-E NRCC-LTO-E			
Project Name: WEST BOULEVARD HO Project Address: 2853 WEST BLVD LOS	USING ANGELES, CA 90016	Report Page: Date Prepared:	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Page 1 of 6 04/26/2022			
A. GENERAL INFORMATION 01 Project Location (city)	LOS ANGELES	04 Total Illuminated Hardsca	pe Area (ft ²) 2,	259			
02Climate Zone03Outdoor Lighting Zone per Title 24	8 . <u>Part 1 §10-114</u> or as designated by Au	hority Having Jurisdiction (AHJ):					
LZ-0: Very Low - Undeveloped Parkl LZ-1: Low - Developed Parkland	and LZ-2: Moderate - Rural Areas Z-3: Moderately High - Urban	LZ-4: High - Must be review	ved by CA Energy Commission for A	pproval			
B. PROJECT SCOPE Table Instructions: Include any outdoor	ighting systems that are within the sco	e of the permit application and are dem	onstrating compliance using the pr	escriptive path			
outlined in <u>§140.7</u> or <u>§141.0(b)2L</u> for alt My project consists of:	erations.	02					
New Lighting System Altered Lighting System	Must Comply with Allowa	nces from <u>§140.7</u> . ng the connected lighting load (Watts)?	⊖ Yes	C No			
03 % of Existing Luminaires Being A	tered ¹ Sum Total of Luminaire	4 s Being Added or Altered	05 Calculation Method			NAIION	
¹ FOOTNOTES: % of Existing Luminaires C. COMPLIANCE RESULTS	Being Altered = (Sum Total of Luminaire	s Being Added or Altered / Existing Lumir	naires within the Scope of the Perm	it Application) x 100	20 30	THOMAS, IRVINE, CA 9	2618-270
Table Instructions: If any cell on this tab Calculation of Total Allo	le says "DOES NOT COMPLY" or "COMP wed Lighting Power (Watts) <u>§140.7</u> or	LES with Exceptional Conditions" refer to	o Table D. for guidance. Compliance Results		PH	ONE: (949) 716-9990 FAX: (94	49) 716-999
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CERTIFICATE OF COMPLIANCE Project Name: WEST BOULEVARD HO Project Address: 2853 WEST BLVD LOS	USING ANGELES, CA 90016	Report Page: Date Prepared:		NRCC-LTO-E Page 2 of 6 04/26/2022	DA DU BU	TE OF ISSUANCE OF THESE D PLICATION OF THESE DOCUM ILT-WORK REPRESENTED F	OCUMENT ENTS OR TH 3 Y THEM
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E. ADDITIONAL REMARKS This table includes remarks made by the	permit applicant to the Authority Havi	ng Jurisdiction.				OF CALIFORNIA,	INC.
		E			1	050 S. FLOWER S	FREET
F. OUTDOOR LIGHTING FIXTURE SC Table Instructions: For new or altered lig	HEDULE hting systems demonstrating complian	ce with <u>§140.7</u> (ie Table I has expanded J	for input), include all luminaires bei	ng installed and any		LOS ANGELES, CA 90	015
existing luminaires remaining or being r method per <u>§141.0(b)21</u> (ie Table N has (ie, do not include existing luminaires re	noved within the spaces covered by the expanded for input), include only new l maining or existing luminaires being me	permit application in the Table below. Fo uminaires being installed and replacement wed).	or altered lighting systems using th nt luminaires being installed as par	e Existing Power t of the project scope	PR	OJECT:	
Designed Wattage: 01 02	03 04	05 06 0	07 08 09	10			
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LS-1 OUTDOOR STEP LIGHT	Linear 12.2 Mfr. Spec ¹	29 New	5130.2(353.8 NA: <6,200	b) ⁴ Pass Fail	Ι Ι ι	OS ANGELES, CA	90016
LR-2 LED DOWNLIGHT	Linear 14 Mfr. Spec ¹ Linear 12.3 Mfr. Spec ¹	2 New 2 New 1	28 NA: <6,200 24.6 NA: <6,200	lumens			
	Linear 10 Miff. Spec.	5 New Total Designed \	0 Watts: 456.4		-		
* NOTES: Selections with a * require a r EX: Luminaire is lighting a statue; EXCER	ote in the space below explaining how TION 2 to <u>§130.2(b)</u> .	compliance is achieved.					DATE
						1ST SUBMITTAL	10/04/21
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CERTIFICATE OF COMPLIANCE Project Name: WEST BOULEVARD HC Project Address: 2853 WEST BLVD LOS		Report Page:		NRCC-LTO-E Page 3 of 6	$\frac{22}{3}$	HCD REVISION 1	12/16/22
01 02	03 04	05 06 0	07 08 09	10		PC RESUBMITTAL	02/02/23
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			<u>§130.2(</u>	<u>b)</u> ⁴ Pass Fail	$\frac{26}{4}$	PC RESUBMITTAL	07/10/2
¹ FOOTNOTES: Authority Having Jurisdic ² For linear luminaires, wattage should luminaires.	tion may ask for Luminaire cut sheets to be indicated as W/If instead of Watts/Iu	confirm wattage used for compliance per minaire. Total linear feet for the luminai	er <u>§130.0(c)</u> ire should be indicated in column 0.	5 instead of number of		CLIENT REVISIONS	07/11/23
³ Select "New" for new luminaires in a n "Existing to Remain" for existing lumina being removed and reinstalled as part o	ew outdoor lighting project or for adde ires within the project scope that are no f the project scope	l luminaires in an alteration. Select "Alte t being altered and are remaining. Selec	ered" for replacement luminaires in t "Existing Reinstalled" for existing	an alteration. Select luminaires which are		CLIENT REVISIONS	08/04/2
⁴ Compliance with mandatory cutoff rec G. CUTOFF REQUIREMENTS (BUG)	uirements is required for luminaires wit	h initial lumen output ≥ 6,200 unless exe	mpted by <u>§130.2(b)</u> .	2		PC RESUBMITTAL (ELEC)	10/05/23
This Section Does Not Apply						CLIENT REVISIONS	10/12/23
Table Instructions: Complete this table alteration projects, luminaires which are	demonstrating compliance with control e existing to remain (ie untouched) and	s requirements for all new or altered lum uminaires which are removed and reinst	inaires installed as part of the perm alled (wiring only) do not need to E	nit application. For e included in this table	Plo	t Date: 10/11/2023	4:04:43 PI
even if they are within the spaces cover When an option having a * is selected, t show "DOES NOT COMPLY" if the notes	ed by the permit application. he notes section of this table must be c are left blank. For each reauirement in	ompleted. The lighting controls section oj olumns 02 through 04, do not leave the	f the Compliance Summary Table o field blank, instead select NA or Fxa	n the first page will empt* from the	SHI	EET TITLE:	
dropdown list to indicate not applicable Mandatory Controls	or an exemption.			- 91- 57 		OUTDOOR LTG	, TITLE
01 Area Description	02 Shut-Off	03 Auto-Schedule	04 Motion Sensor	05 Field Inspector		24 COMPLIAN	VCE
ROOF DECK	§130.2(c)1 Photocontrol	<u>§130.2(c)2</u> Yes	<u>§130.2(c)3</u> Exempt *	Pass Fail		CERTIFICAT	ES
WALKWAY ENTRY 6TH FLR ELEVATOR LOBBY	Photocontrol Photocontrol	Yes Yes	Exempt * Exempt *		сы 1	EFT NO:	
GARAGE ENTRY *NOTES: Controls with a * require a not EX: Not permitted by health & safety to	Photocontrol e in the space below explaining how co be turned off; EXCEPTION 1 to \$130 2/c	Yes pliance is achieved.	Exempt *			\triangle	
Table Continued						FRUS	
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TATE OF CALIFORNIA											
Outdoor Lighting						CALIFORNIA ENERGY					
This document is used to demonstrate of Project Name: WEST BOULEVARD HC	ompliance with requiremen	nts in <u>§110.9</u> , <u>§130.0</u> , <u>§13</u>	0.2, §140.7, and §141.0 Report Page:	<u>(b)2L</u> for ou	tdoor lighting	scopes using the	prescriptive path. Page 1 of 6				
Project Address: 2853 WEST BLVD LOS	ANGELES, CA 90016		Date Prepared:				04/26/2022				
01 Project Location (city)	LOS AN	NGELES 0	4 Total Illuminated Ha	rdscape Are	a (ft²)	2,259)				
03 Outdoor Lighting Zone per <u>Title 24</u>	I. Part 1 §10-114 or as desig	ognated by Authority Havir	ng Jurisdiction (AHJ):	aviowed by	CA Eporty Cou	nmission for Ann	roual				
LZ-0: Very Low - Undeveloped Parkland	LZ-2: Moderate - F	High - Urban Areas	LZ-4: High - Must be r	eviewed by	CA Energy Cor	nmission for App	roval				
B. PROJECT SCOPE Table Instructions: Include any outdoor	lighting systems that are w	vithin the scope of the per	mit application and are	demonstrat	ting compliant	ce using the presc	riptive path				
outlined in <u>§140.7</u> or <u>§141.0(b)2L</u> for alt My project consists of:	terations.			SOM 1							
01 Vew Lighting System	Must Comply	y with Allowances from §	1 <u>40.7</u> .	. 12		<u></u>					
Altered Lighting System 03	ls your altera	04	ected lighting load (Wat	ts)?	~ 1	O Yes	() No			IAHON	AL
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C. COMPLIANCE RESULTS Table Instructions: If any cell on this tab	ole says "DOES NOT COMPL	Y" or "COMPLIES with Exc	eptional Conditions" re	fer to Table	D. for guidan	ce.	2		30 PHC	THOMAS, TRVINE, CA 92 DNE: (949) 716-9990 FAX: (94	2618-270 49) 716-999
Calculation of Total Allo	03 04	ts) §140.7 or §141.0(b)2L 05	06	07	Complia 08	nce Results	09		STA	MP.	
General Per Hardscape + Application + Fr	Sales rontage + Ornamental	Per Specific + Area OR	Existing Power = Total	Allowed	≥ Total A	ctual				Part to the)
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Project Name: WEST BOULEVARD HC Project Address: 2853 WEST BLVD LOS	DUSING ANGELES, CA 90016		Report Page: Date Prepared:				Page 2 of 6 04/26/2022	.1	DUP BUI	LICATION OF THESE DOCUMI	ENTS OR TH
D. EXCEPTIONAL CONDITIONS							2		PRO CO	HIBITED WITHOUT THE EXPRE	SS, WRITTE
Table H. Outdoor Lighting Controls Perr	comments because of selec	ctions made or data enter	ed in tables throughout	the Jorm.						JNSULTING	INC
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6TH FLR ELEVATOR LOBBY: EXEMPT F GARAGE ENTRY: EXEMPT FROM MOT	ROM MOTION SENSORS BE ION SENSORS BECAUSE LIG	ECAUSE LIGHT FIXTURES A GHT FIXTURES ALL ARE RA Lin Table L. Please review	ALL ARE RATED LESS TH TED LESS THAN 40 WAT	AN 40 WATT FTS	5					JAIME PARTNEI	RS
E. ADDITIONAL REMARKS	or match the dread entered	in rube i reuse review	for comprisite.							OF CALIFORNIA,	INC.
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	1001115						61			JOU S. FLOVVER S	
Table Instructions: For new or altered lig existing luminaires remaining or being u	HEDULE ghting systems demonstrat. moved within the spaces co	ting compliance with <u>§140</u>	<u>).7</u> (ie Table I has expan	ded for inpu	it), include all red lighting sy	luminaires being stems using the F	installed and any xisting Power				010
method per <u>§141.0(b)2L</u> (ie Table N has (ie, do not include existing luminaires re	expanded for input), inclua emaining or existing lumina	de only new luminaires be iires being moved).	ing installed and replac	ement lumi	naires being ir	istalled as part of	the project scope		PRC	DJECT:	
Designed Wattage: 01 02	03	04 05	06	07	08	09	10				
Name or Complete Luminaire Descr	iption Watts per How	w Wattage is number	Luminaire Status ³	Excluded per	Design Watts	Cutoff Req. 2 6,200 initial lun	≥ nen Field Inspector			2853 WEST BLV	D
		letermined luminaires	2	<u>§140.7(a)</u>	252.0	<u>§130.2(b)</u> ⁴	Pass Fail				00017
LR-2 LED DOWNLIGHT	Linear 14 N	Mfr. Spec ¹ 2	New		28	NA: <6,200 lum				US ANGLLLS, CA	70010
.R-3/LR-24" LED ADJUSTABLE GI	Linear 12.3 M	Mfr. Spec ¹ 2 Mfr. Spec ¹ 5	New		50	NA: <6,200 lum	iens				
	Linear		Total Desig	ned Watts:	456.4					C-JAIME-001	
EX: Luminaire is lighting a statue; EXCEI	PTION 2 to <u>§130.2(b)</u> .	plaining now compliance i	s achieved.						#	DESCRIPTION	DATE
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Project Address: 2853 WEST BLVD LOS	ANGELES, CA 90016		Date Prepared:				04/26/2022		$\left \begin{array}{c} \underline{3} \\ \underline{\wedge} \end{array} \right $	HCD REVISION 1	12/16/22
01 02	03	04 05	06	07	08	09 Cutoff Reg. 2	10		$\left \frac{4}{A} \right $		02/02/23
Name or Item Tag Complete Luminaire Descr	iption Watts per How luminaire ^{1,2} de	w Wattage is letermined	Luminaire Status ³	per §140.7(a)	Design Watts	6,200 initial lun output	nen Field Inspector		$\frac{23}{2}$	HCD RESUBMITTAL	06/14/2
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" ³ Select "New" for new luminaires in a n "Existing to Remain" for existing lumina	new outdoor lighting project nires within the project scop	t or for added luminaires be that are not being alter	in an alteration. Select ed and are remaining.	"Altered" fo Select "Exist	or replacemen ting Reinstalle	t luminaires in an d" for existing lur	alteration. Select ninaires which are		\land	CLIENT REVISIONS	08/04/23
being removed and reinstalled as part o ⁴ Compliance with mandatory cutoff rea	of the project scope quirements is required for lu	uminaires with initial lum	en output ≥ 6,200 unles	s exempted	by <u>§130.2(b)</u> .			8		PC RESUBMITTAL (ELEC)	09/12/23
G. CUTOFF REQUIREMENTS (BUG) This Section Does Not Apply							2			PC RESUBMITTAL (ELEC)	10/05/23
H. OUTDOOR LIGHTING CONTROLS			- <u>-</u>				2			CLIENT REVISIONS	10/12/23
able instructions: Complete this table alteration projects, luminaires which are even if they are within the spaces cover	aemonstrating compliance e existing to remain (ie unto ed by the permit application	e with controls requiremen ouched) and luminaires w on.	nts for all new or altered hich are removed and i	a iuminaires einstalled (v	installed as po viring only) do	art of the permit (o not need to be ir	application. For acluded in this table		Plot	Date: 10/11/2023	4:04:43 PI
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dropdown list to indicate not applicable Mandatory Controls	or an exemption.		······································						0	UTDOOR LTG	TITLE
01	02 Shut-Off		03 uto-Schedule		04 Motion Ser	nsor	05 Field Inspector		'		NCE
Area Description	§130.2(c)1		§130.2(c)2		§130.2(c) <u>3</u>	Pass Fail				
WALKWAY ENTRY	Photocontrol		Yes		Exempt Exempt	*					_J
GARAGE ENTRY	Photocontrol Photocontrol		Yes		Exempt Exempt	*			SHE	ET NO:	
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This document is used to demonstrate c Project Name: WEST BOULEVARD HC Project Address: 2853 WEST BLVD LOS	ompliance with requirements in <u>§110.5</u> DUSING ANGELES, CA 90016	b, <u>§130.0</u> , <u>§130.2</u> , <u>§140.7</u> , and <u>§141.0</u> Report Page: Date Prepared:	<u>b)2L</u> for outdoor lighting scopes using	the prescriptive path. Page 1 of 6 04/26/2022			
A. GENERAL INFORMATION	LOS ANGELES	04 Total Illuminated Harr	tecane Area (ft2)	259			
02 Climate Zone 03 Outdoor Lighting Zone per <u>Title 24</u>	8 I, Part 1 §10-114 or as designated by A	uthority Having Jurisdiction (AHJ):					
LZ-0: Very Low - Undeveloped Parkl LZ-1: Low - Developed Parkland	and LZ-2: Moderate - Rural Areas	LZ-4: High - Must be re	viewed by CA Energy Commission for A	Approval			
B. PROJECT SCOPE Table Instructions: Include any outdoor	lighting systems that are within the sco	pe of the permit application and are o	lemonstrating compliance using the pr	rescriptive path			
outlined in <u>§140.7</u> or <u>§141.0(b)2L</u> for all My project consists of:	terations.	0	x				
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Table Instructions: If any cell on this tab Calculation of Total Allo	wed Lighting Power (Watts) §140.7 or	PLIES with Exceptional Conditions" refe	er to Table D. for guidance. Compliance Results		PHO	NE: (949) 716-9990 FAX: (94	49) 716-999
01 02 General Per Hardscape	03 04 0 Sales Ornamental Per Sp	5 06 0	7 08	09	STAN	MP:	
Allowance <u>§140.7(d)1</u> + Application + Fi <u>§140.7(d)2</u> <u>§1</u>	rontage <u>40.7(d)2</u> + <u>§140.7(d)2</u> + Ar <u>§140.</u>	Power = Total A $\frac{5141.0(b)2L}{100}$	atts)	07 Must be≥08		CBINGCO	
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Project Address: 2853 WEST BLVD LOS	ANGELES, CA 90016	Date Prepared:		04/26/2022	BUIL PRO CON	.T-WORK REPRESENTED E HIBITED WITHOUT THE EXPRE NSENT NATIONAL ENGIN	SY THEM SS, WRITTE EERING
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Table H. Outdoor Lighting Controls Perr ROOF DECK: EXEMPT FROM MOTION WALKWAY ENTRY: EXEMPT FROM MO	nit Applicant Notes: SENSORS BECAUSE LIGHT FIXTURES AI OTION SENSORS BECAUSE LIGHT FIXTU	L ARE RATED LESS THAN 40 WATTS RES ALL ARE RATED LESS THAN 40 WA	TTS		CLIE	NT:	
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E. ADDITIONAL REMARKS						OF CALIFORNIA,	INC.
This table includes remarks made by the	e permit applicant to the Authority Hav	ing Jurisdiction.			10	50 S. FLOWER S	FREET
F. OUTDOOR LIGHTING FIXTURE SC	HEDULE					LOS ANGELES, CA 90	015
Table Instructions: For new or altered li existing luminaires remaining or being i method per <u>§141.0(b)21</u> (ie Table N has	ghting systems demonstrating complia moved within the spaces covered by the expanded for input), include only new	nce with <u>§140.7</u> (ie Table I has expana e permit application in the Table below luminaires being installed and replace	ed for input), include all luminaires bei v. For altered lighting systems using th ment luminaires being installed as par	ing installed and any ne Existing Power t of the project scope	— —		
(ie, do not include existing luminaires re Designed Wattage:	emaining or existing luminaires being m	oved).	07 08 00	10	PRC	JECI:	
Name or Canadata Luciazia Dece	Watts per How Wattage i	Total	Excluded Device Write 6,200 initial	eq. ≥ Iumen Field Inspector		2853 WEST BLV	D
Item Tag	luminaire ^{1,2} determined	luminaires ²	per Design Watts outpu §140.7(a) §130.2(it Pass Fail			0001/
LS-1 OUTDOOR STEP LIGHT	Linear 12.2 Mfr. Spec ¹ Linear 14 Mfr. Spec ¹	29 New 2 New	353.8 NA: <6,200 28 NA: <6,200	lumens		JS ANGELES, CA	90016
LS-2 LED BOLLARD	Linear 12.3 Mtr. Spec' Linear 10 Mfr. Spec'	2 New 5 New	24.6 NA: <6,200 50 NA: <6,200	Iumens			
* NOTES: Selections with a * require a r	note in the space below explaining how	Total Design compliance is achieved.	ed Watts: 456.4			C-JAIME-001	
EX: Luminaire is lighting a statue; EXCEI Table Continued	PTION 2 to <u>\$130.2(b)</u> .	V.			#	DESCRIPTION	DATE
CA Building Energy Efficiency Standards - 20	19 Nonresidential Compliance: <u>http://www</u>	v.energy.ca.gov/title24/2019standards		November 2019			10/04/21
STATE OF CALIFORNIA					$\overline{\Lambda}$	PC RESUBMITTAL	04/08/22
NRCC-LTO-E (Created 11/19) CERTIFICATE OF COMPLIANCE			CALIFORNIA EN		Δ	PC RESUBMITTAL	10/28/22
Project Name: WEST BOULEVARD HC Project Address: 2853 WEST BLVD LOS	DUSING ANGELES, CA 90016	Report Page: Date Prepared:		Page 3 of 6 04/26/2022		HCD REVISION 1	12/16/22
01 02	03 04	05 06	07 08 09	10 ≥q. ≥	$\frac{\underline{A}}{\underline{A}}$		02/02/23
Name or Item Tag	iption Watts per How Wattage i luminaire ^{1,2} How Wattage i	number Luminaire Status ³	per Design Watts 6,200 initial 000 000 000 000 000 000 000 000 000 00	Iumen Field Inspector	$\left \begin{array}{c} \frac{23}{6} \\ \hline \end{array} \right $	HCD RESUBMITTAL	06/14/23
[†] FOOTNOTES: Authority Havina Jurisdic	tion may ask for Luminaire cut sheets t	o confirm wattage used for compliance	9130.2(e per §130.0(c)			PC RESUBMITTAL	07/10/23
² For linear luminaires, wattage should luminaires.	be indicated as W/lf instead of Watts/l	uminaire. Total linear feet for the lum	inaire should be indicated in column 0	5 instead of number of			07/11/23
"Existing to Remain" for existing lumina being removed and reinstalled as part of	new outdoor lighting project or for add nires within the project scope that are n of the project scope	ot being altered and are remaining. S	Alterea" for replacement luminaires in elect "Existing Reinstalled" for existing	an alteration. Select I luminaires which are	$\frac{2}{2}$	CLIENT REVISIONS	08/04/23
⁴ Compliance with mandatory cutoff rec G. CUTOFF REQUIREMENTS (BUG)	quirements is required for luminaires w	ith initial lumen output ≥ 6,200 unless	exempted by <u>§130.2(b)</u> .	2		PC RESUBMITTAL (ELEC)	10/05/23
This Section Does Not Apply				0		CLIENT REVISIONS	10/12/23
Table Instructions: Complete this table alteration projects, luminaires which ar	demonstrating compliance with contro e existing to remain (ie untouched) and	ls requirements for all new or altered luminaires which are removed and re	luminaires installed as part of the perm installed (wiring only) do not need to b	nit application. For pe included in this table	Plot	Date: 10/11/2023	4:04:43 PI
even if they are within the spaces cover When an option having a * is selected, i show "DOES NOT COMPLY" if the notes	ed by the permit application. the notes section of this table must be a are left blank. For each requirement in	completed. The lighting controls section columns 02 through 04. do not leave	n of the Compliance Summary Table o the field blank, instead select NA or Fv.	n the first page will empt* from the	Shee	ET TITLE:	
dropdown list to indicate not applicable Mandatory Controls	or an exemption.				0	UTDOOR LTG	TITLE
01	02 Shut-Off	03 Auto-Schedule	04 Motion Sensor	05 Field Inspector		24 COMPLIAN	
ROOF DECK	<u>§130.2(c)1</u> Photocontrol	<u>§130.2(c)2</u> Yes	<u>\$130.2(c)3</u> Exempt *	Pass Fail		CFRTIFICAT	ES –
WALKWAY ENTRY 6TH FLR ELEVATOR LOBBY	Photocontrol Photocontrol	Yes	Exempt * Exempt *				_~
GARAGE ENTRY *NOTES: Controls with a * require a not	Photocontrol te in the space below explaining how co	Yes ompliance is achieved.	Exempt *		SHEE		
EX: Not permitted by health & safety to Table Continued	be turned off; EXCEPTION 1 to <u>§130.2(</u>	<u>c)</u> .					
CA Building Energy Efficiency Standards - 20	19 Nonresidential Compliance: <u>http://www</u>	.energy.ca.gov/title24/2019standards		November 2019		LOUJ	

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TATE OF CALIFORNIA													
Dutdoor Lighting RCC-LTO-E (Created 11/19)							CALIFORNIA ENE	RGY COM					
ERTIFICATE OF COMPLIANCE his document is used to demonstrate of	compliance with requir	ements in <u>§110.9</u> ,	<u>§130.0, §130</u>	.2, <u>§140.7</u> , and <u>§141.(</u>	<u>(b)2L</u> for ou	itdoor lighting	scopes using t	he pres	NRCC-LTO-E criptive path.				
roject Name: WEST BOULEVARD HO roject Address: 2853 WEST BLVD LOS	OUSING ANGELES, CA 90016			Report Page: Date Prepared:					Page 1 of 6 04/26/2022				
A. GENERAL INFORMATION	1 D		04	Total Illuminated Ha	rdscapa Are	a (#2)	2	250	2				
02 Climate Zone		8		l'otal liluminated Ha	rdscape Are	a (π~)	۷,۰	239					
US Outdoor Lighting Zone per <u>Title 24</u> LZ-0: Very Low - Undeveloped Park	land LZ-2: Modera	designated by Au ate - Rural Areas		g Jurisdiction (AHJ): LZ-4: High - Must be r	eviewed by	CA Energy Co	nmission for A	pproval					
LZ-1: Low - Developed Parkland	[✓] LZ-3: Modera	ately High - Urban	Areas				5		7				
able Instructions: Include any outdoor outlined in §140.7 or §141.0(b)2L for al	lighting systems that of the system of the s	are within the scop	pe of the pern	nit application and are	demonstra	ting compliant	ce using the pro	escriptiv	e path				
Vy project consists of: 01)2								
New Lighting System Altered Lighting System	Must Co	omply with Allowa alteration increasi	nces from §14	4 <u>0.7</u> . ted lighting load (Wat	ts)?		⊖ Yes	C	No		N I	ATION	
03 % of Existing Luminaires Being A	Altered ¹ Sum 1	(Total of Luminaire)4 Seing Addec	l or Altered		Calculat	05				IN	AIION	IAL
FOOTNOTES: % of Existing Luminaires	Being Altered = (Sum	Total of Luminaire	s Being Addeo	d or Altered / Existing i	uminaires (within the Scor	be of the Permi	it Applic	ation) x 100		ENGI	NEERING & CONSULT	TING, ING
C. COMPLIANCE RESULTS Table Instructions: If any cell on this tal	ble says "DOES NOT CC	OMPLY" or "COMP	LIES with Exce	ptional Conditions" re	fer to Table	D. for guidan	ce.		2		30 TH	E: (949) 716-9990 FAX: (94	2618-270 49) 716-999
Calculation of Total Allo	owed Lighting Power (Watts) <u>§140.7</u> or 05	§141.0(b)2L	06	07	Complia 08	nce Results		09			D.	
General Per Hardscape Application	Sales Ornam	ental Per Spe	ecific E	Existing	Allowed	> Total A	etual				317/1/1	Contraction of the second)
Allowance <u>§140.7(d)1</u> + Application + <u>§140.7(d)2</u>	140.7(d)2	r(d)2 + Are §140.7	a OR <u>§1</u>	41.0(b)2L (V	/atts)	2 Iotal A (Wat	ts)	07 Mus	stbe≥08			CB INGCO MA	
(See Table I) (See Table J) (Se 655.77 + +	e Table K) (See Ta	ble L) (See Tab	ole M) (See	e Table N) = 65	55.77	(See Ta ≥ 456	ble F) .4	CON	1PLIES			ELECTION OF THE PARTY OF THE PA	A la
	C	Cutoff Compliant	e (See Table e (See Table	G for Details) H for Details)	CON	Not A	pplicable cceptional Con	ditions				E-14492 AS FR	
												S ECTRICA N	/
												OF CALIFOR	
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A Building Energy Eniciency Standards - 20	019 Nonresidential Comp	mance: <u>http://www</u> .	energy.ca.gov/	title24/2019standards					November 2019		COPY	RIGHT:	
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RCC-LTO-E (Created 11/19) ERTIFICATE OF COMPLIANCE							CALIFORNIA ENE	RGY COM	MISSI19 NRCC-LTO-E		ENGIN DATE	EERING & CONSULTING INC OF ISSUANCE OF THESE D	C. FROM TH
roject Name: WEST BOULEVARD HO roject Address: 2853 WEST BLVD LOS	OUSING ANGELES, CA 90016			Report Page: Date Prepared:					Page 2 of 6 04/26/2022		DUPLIC	CATION OF THESE DOCUMI	ENTS OR TH BY THEM
D. EXCEPTIONAL CONDITIONS				Territoria Laterativa	n				2		PROHI	BITED WITHOUT THE EXPRESENT NATIONAL ENGIN	SS, WRITTE
his table is auto-filled with uneditable	comments because of	selections made o	r data entere	d in tables throughout	the form.						CO	N S U L T I N G	I N C
able H. Outdoor Lighting Controls Peri ROOF DECK: EXEMPT FROM MOTION	mit Applicant Notes: SENSORS BECAUSE LI	GHT FIXTURES ALI	ARE RATED L	ESS THAN 40 WATTS							CLIEN	T:	
WALKWAY ENTRY: EXEMPT FROM M 6TH FLR ELEVATOR LOBBY: EXEMPT F	IOTION SENSORS BECA FROM MOTION SENSO	USE LIGHT FIXTUR RS BECAUSE LIGH	ES ALL ARE RA	ATED LESS THAN 40 W LL ARE RATED LESS TH	ATTS AN 40 WAT	rs						·	
GARAGE ENTRY: EXEMPT FROM MOT otal Hardscape Area in Table A does n	TION SENSORS BECAUS not match the areas en	SE LIGHT FIXTURES tered in Table I. P	ALL ARE RAT lease review f	ED LESS THAN 40 WA for compliance.	TTS								RS
ADDITIONAL REMARKS				7					2			JF CALIFORNIA ,	INC.
his table includes remarks made by th	e permit applicant to t	he Authority Havii	ng Jurisdiction	1.							105		TREET
									0			LOS ANGELES CA 90	015
able Instructions: For new or altered li	ighting systems demor	strating complian	ce with <u>§140.</u>	7 (ie Table I has expan	ded for inpl	it), include all	luminaires bei	ng insta	lled and any				010
existing luminaires remaining or being nethod per <u>§141.0(b)21</u> (ie Table N has ie, do not include existing luminaires r	movea within the spac s expanded for input), i emaining or existing lu	es coverea by the include only new li minaires beina ma	permit applic uminaires beil oved).	ation in the Table belo ng installed and replac	ement lumi	rea lighting sy naires being ir	sterns using the stalled as part	e Existin t of the p	oroject scope		PROI	FCI	
Designed Wattage:			05	06	07	08	00	r	10		TROJ		
01 02	05	04	Total	00	Excluded	08	Cutoff Re	q. ≥				2853 WEST BLV	'D
Item Tag	ription luminaire ^{1,2}	How Wattage is determined	number luminaires ²	Luminaire Status ³	per <u>§140.7(a)</u>	Design Watts	6,200 initial output	t t	Page Fail				-
LS-1 OUTDOOR STEP LIGHT	Linear 12.2	Mfr. Spec ¹	29	New		353.8	NA: <6,200 I	umens			LO	S ANGELES, CA	90016
LR-2 LED DOWNLIGHT	Linear 14 Linear 12.3	Mfr. Spec ¹ Mfr. Spec ¹	2	New New		28 24.6	NA: <6,200 I NA: <6,200 I	umens umens					
R-3/LR-24" LED ADJUSTABLE GI	Linear 10	Mfr. Spec ¹	5	New		50 0	NA: <6,200 I	umens					
NOTES: Selections with a * require a	note in the space belo	w explaining how	compliance is	Total Desig	ned Watts:	456.4						C-JAIME-001	
X: Luminaire is lighting a statue; EXCE	PTION 2 to <u>§130.2(b)</u> .										#	DESCRIPTION	DATE
												1ST SUBMITTAL	10/04/21
A Building Energy Efficiency Standards - 20	019 Nonresidential Comp	liance: <u>http://www</u> .	energy.ca.gov/	title24/2019standards					November 2019			JTILITY COORDINATION	04/08/22
TATE OF CALIFORNIA											$\left \frac{1}{1} \right $	PC RESUBMITTAL	05/18/22
RCC-LTO-E (Created 11/19)							CALIFORNIA ENE	RGY COM				PC RESUBMITTAL	10/28/22
roject Name: WEST BOULEVARD HO	OUSING			Report Page:					Page 3 of 6			HCD REVISION 1	12/16/22
01 02	03	04	05	06	07	08	09	ſ	10			PC RESUBMITTAL	02/02/23
Name or	Watts per	How Wattage is	Total		Excluded		Cutoff Re	q.≥ lumen	Field Inspector			HCD & PC RESUBMITTAL	06/06/23
Item Tag	luminaire ^{1,2}	determined	number luminaires ²	Luminaire Status ³	per §140.7(a)	Design Watts	output §130.2(1	t b) ⁴	Pass Fail		Δ	hcd resubmittal	06/14/23
EQOTNOTES: Authority Having Jurisdi	ction may ask for Lumi	naire cut sheets to	confirm wat	tage used for complig	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	O(c)					Δ	PC RESUBMITTAL	07/10/23
FOOTNOTES: Authority Huving Jurisan For linear luminaires, wattage should uminaires.	be indicated as W/If ir	istead of Watts/lu	minaire. Toto	al linear feet for the lu	minaire sho	uld be indicate	d in column 05	5 instead	d of number of			CLIENT REVISIONS	07/11/23
Select "New" for new luminaires in a Existing to Remain" for existing luming	new outdoor lighting p aires within the project	roject or for addeo t scope that are no	d luminaires in ht being altere	n an alteration. Select ed and are remaining.	"Altered" f Select "Exis	or replacemen ting Reinstalle	t luminaires in d″ for existing	an altei Iuminai	ration. Select res which are			CLIENT REVISIONS	08/04/23
peing removed and reinstalled as part of Compliance with mandatory cutoff re	of the project scope quirements is required	, for luminaires wit	h initial lume	n output ≥ 6,200 unles	s exempted	by §130.2(b).						PC RESUBMITTAL (ELEC)	09/12/23
G. CUTOFF REQUIREMENTS (BUG)									2			PC RESUBMITTAL (ELEC)	10/05/23
												CLIENT REVISIONS	10/12/23
able Instructions: Complete this table	, demonstrating compl re existing to remain (i	iance with control	s requirement	ts for all new or altered	d luminaires	installed as p	art of the perm	nit applie	cation. For		Plot D	ate: 10/11/2023	4:04:43 PI
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how "DOES NOT COMPLY" if the notes propdown list to indicate not applicable	s are left blank. For eac e or an exemption.	h requirement in o	columns 02 th	rough 04, do not leave	the field b	ank, instead s	elect NA or Exe	empt* fr	om the				
Mandatory Controls	02	1		03	1	04			05			JIDOOR LIG	, IIILE
Area Description	Shut-O	ff	Au	ito-Schedule		Motion Ser	isor	Fie	ld Inspector		2	4 COMPLIAN	NCE
POOLDECK	§130.2(d	trol	1	§130.2(c)2		§130.2(c	<u> 3</u> *	Pas	s Fail			CERTIFIC AT	F۹
WALKWAY ENTRY	Photocon	trol		Yes		Exempt	*						
6TH FLR ELEVATOR LOBBY GARAGE ENTRY	Photocon Photocon	trol		Yes		Exempt Exempt	*				SHEET	NO:	
NOTES: Controls with a * require a no X: Not permitted by health & safety to	te in the space below of the turned off; EXCEPT	explaining how co TON 1 to <u>§130.2(c</u>	mpliance is ac <u>l</u> .	hieved.									
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06										 - - -				AR			+ 5.	Ele 9 .3 ⁺ 9	evator 0 SF 9.1	11.8	3.0		0.4 0.4 0.5 0.5 0.6 0.6		4 0. 5 = = 0 5		.5 ¹ 0 .6 ¹ 0 .9 ¹ 1 .5 ¹ 1 .0 ² 2).5 .6 .22	* 3.0 * 3.4 * 3.4 * 3.2 + 3.2	*3.2 *3.6 *3.7 *3.5	+ 3.4 + 3.8 + 3.7 + 2.6	⁺ 2.7 ⁺ 2.9 ⁺ 2.9 ⁺ 3.7 ⁺ 3.7	⁺ 2.8
*1.7 *1.8 *1.9 *2.0 *2.0	⁺ 1.6 ⁺ 1.7 ⁺ 1.8 ⁺ 1.9 ⁺ 2.0	⁺ 1.6 ⁺ 1.8 ⁺ 1.9 ⁺ 2.0 ⁺ 2.0	⁺ 1.8 ⁺ 2.0 ⁺ 2.1 ⁺ 2.2 ⁺ 2.2	⁺ 2.2 ⁺ 2.3 ⁺ 2.4 ⁺ 2.5 ⁺ 2.5	⁺ 2.6 ⁺ 2.4 ⁺ 2.8 ⁺ 2.8 ⁺ 2.8	⁺ 2.9 ⁺ 3.0 ⁺ 3.1 ⁺ 3.0	*2.8 *3.0 *3.0 *3.0	⁺ 2.5 ⁺ 2.5 ⁺ 2.7 ⁺ 2.7 ⁺ 2.7	⁺ 2.1 ⁺ 2.1 ⁺ 2.3 ⁺ 2.4 ⁺ 2.4	⁺ 1.7 ⁺ 1.8 ⁺ 1.9 ⁺ 2.0 ⁺ 2.0	⁺ 1.3 ⁺ 1.5 ⁺ 1.6 ⁺ 1.7 ⁺ 1.7	⁺ 1.1 ⁺ 1.2 ⁺ 1.3 ⁺ 1.4 ⁺ 1.5	*0.9 *1.0 *1.1 *1.1 *1.2 *1.3	⁺ 0.8 ⁺ 0.9 ⁺ 1.0 ⁺ 1.1 ⁺ 1.2	*0.7 *0.8 *0.9 *1.0	*0.7 *0.7 *0.8 *0.9 *0.9	⁺ 8. ⁺ 1 <u>1</u> ⁺ 12 ⁺ 11 ⁺ 11	.3 + . <u>1.0 + .</u> <u>Eleval</u> 2 • ¹³ 1.7 + .	12.1 13.8 tor Lo 13.9 13.6 13.3	13.8 14.8 14.2 14.2 14.3	⁺ 13.3 ⁺ 13.0 ⁺ 12.1 ⁺ 12.3 ⁺ 13.5	* 11.4 * 9.7 * 8.0	+0.8 +0.7 	+ 1.(5 2 5 2	.3 ⁺ 2 .4 ⁺ 2 ⁺ 1.6 ⁺ 1.9 ⁺ 1.9	2.7 2.7 - 2.1 - 2.1 - 2.4	3.1 + 3.0 + 3.1 + 3.1 + 3.1 + 3.1	3.3 +3.3 +3.3 +3.4 +3.4 +3.4 +3.5 +3.4	3.5 + 3.5 + 3.5 + 3.5 + 3.5	3.7 +3.6 +3.5 +3.4 +2.1	3.8
⁺ 2.2 ⁺ 2.6 ⁺ 2.8 ⁺ 2.8	⁺ 2.2 ⁺ 2.7 ⁺ 3.0 ⁺ 3.2	⁺ 2.2 ⁺ 2.8 ⁺ 3.0 ⁺ 3.2	⁺ 2.3 ⁺ 2.7 ⁺ 2.9 ⁺ 2.9	⁺ 2.4 ⁺ 2.5 ⁺ 2.5 ⁺ 2.5	⁺ 2.5 ⁺ 2.3 ⁺ 2.3 ⁺ 2.2	⁺ 2.6 ⁺ 2.2 ⁺ 2.1 ⁺ 2.0	*2.5 *2.2 *2.1 *2.0 *1.0	⁺ 2.5 ⁺ 2.2 ⁺ 2.2 ⁺ 2.1 ⁺ 0.0	⁺ 2.3 ⁺ 2.4 ⁺ 2.5 ⁺ 2.4 ⁺ 2.4	⁺ 2.1 ⁺ 2.5 ⁺ 2.7 ⁺ 2.8	⁺ 1.9 ⁺ 2.5 ⁺ 2.8 ⁺ 2.9 ⁺ 2.9	⁺ 1.8 ⁺ 2.3 ⁺ 2.7 ⁺ 2.8	⁺ 1.6 ⁺ 2.0 ⁺ 2.3 ⁺ 2.4	⁺ 1.4 ⁺ 1.7 ⁺ 1.9 ⁺ 1.9 ⁺ 1.9	+1.2 +1.3 +1.4 +1.4 +1.4	+ 1.0 + 1.0 + 1.1 + 1.1 + 1.1	+7. +4. +0.8 +0.8	.0 + .0 + .0 + .0 + .0 + .0 + .0 + .0 +	11.1 * 8.2 * 6.6 * 5.0 *	13.5 12.2 11.8 10.1	• 4.6 • 15.5 • 15.8 • 14.0	13.3 15.8 16.5	+ 10.2 + 14.6 + 16.3	⁺ 7.8 ⁺ 11.4 ⁺ 14.7	⁺ 4.0 ⁺ 7.6 ⁺ 10.9	+2.1 +3.8	⁺ 1.8 ⁺ 1.8 ⁺ 1.4 ⁺ 2.0 ⁺ 3.5	2.5 2.3 + 1.2 + 1.4 + 1.7	3.0 + 2.6 + 1.1 + 1.2 + 1.3	*1.9 *2.0	*3.8 *3.8 *3.9	*5.6 *5.6	2.8 2.4 2.4 +4.1 +4.1 +3.0
2.6 *2.6 	.8 +2.9 +3A \$		2.6 *2.6	2.4 *2.2 	2.1 +1.9 	1.9 + 1.7 - - - - - - - - - - - - -	1-9 +1.7 	2.0 +1.9 	2.3 *2.2	2 *2.5 	2.6 +2.6 ATNC ANC	* 2.5 - —	2.2 *2.2	1.8 +1.8		1.0 +1.0 / isex F \ 49	0.8 + 0.8 Restroo	+ ;	5.9 + 1 +	10.7 10.9 10.7 9.4 <u>Ma</u> 9.4	14.8 13.5 12.5 12.5 10.5 04 SF	*18.1 *13.5 *11.4 *9.9	* 18.4 * 11.1 * 9.2 * 7.6 * 5.8	⁺ 15.5 + 13.1 ⁺ 10.7 ⁺ 9.3 ⁺ 9.8	⁺ 12.1 ⁺ 12.1 ⁺ 11.1 ⁺ 11.1 ⁺ 12.0	*9.1 *9.9 *10.1 *10.5	5.5 5.5 6.4 6.4 6.4 5 6.0 3 • 6.4	*2.3 *2.9 *3.8 *5.1 *6.3	*1.4 *1.4 *1.6 *2.1 *3.0 *3.8	*1.3 *1.3 *1.6 *1.6 *2.7	2.3 *1.7 * 1.5 * 2.1 * 3.5 * 4.2	*2.2 *1.8 *2.6 *4.4 *5.8	+ + + + + + + + + + + + 2.1 + + 1.7 + + 2.3 - + + 2.3 - + + 2.3 - + + + - + + - + - + - + - + - + - +
																Packa 56 S	iges SF		· ·	8.5 10.0 10.5 9.2	9.8 11.2 12.1 10.4	*9.1 *10.5 *10.9	* 6.5 * 8.1 * 8.6 * 7.3	⁺ 11.3 ⁺ 11.9 ⁺ 10.4	⁺ 13.0 ⁺ 13.0 ⁺ 10.7) ⁺ 13.0) ⁺ 12.0 + 1 9.5) ⁺ 7.9) ⁺ 7.8 ⁺ 5.8	*6.2 (*4.6	*3.6 *2.5 *1.5	⁺ 2.5 ⁺ 1.7 ⁺ 1.2	+3.6 +2.4 +1.3	*5.2 *3.1	+3.8 +2.5
																	(R-1 IYP. U	₽/ .O.N.)														
																															<u>\</u>		

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 FOOTCANDLE 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.

M.2	M.1		
			<section-header></section-header>
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		HINON	2853 WEST BLVD LOS ANGELES, CA 90016 C-JAIME-001 # DESCRIPTION DATE
2-4 EME	RGENCY PHOTOMET	RICS PLAN SCALE 1	1ST SUBMITTAL 10/04/21
ED FROM ANCE FIELD D SITE OVE ALLY	▲CORRIDOR/ELEVATOR LOBBYMAX.21.8 FCMIN.1.0 FCAVG.12.6 FCMAX./MIN.21.8:1AVG./MIN.12.6:1STAIRS 2MAX.25.9 FCMIN.7.0 FCAVG.12.5 FCMAX./MIN.3.7:1AVG./MIN.1.8:1	STAIRS 1 MAX. 15.8 FC MIN. 8.8 FC AVG. 12.1 FC MAX./MIN. 1.8:1 AVG./MIN. 1.4:1	UTILITY COORDINATION 04/08/22 A PC RESUBMITTAL 05/18/22 A PC RESUBMITTAL 10/28/22 A PC RESUBMITTAL 10/28/22 A PC RESUBMITTAL 02/02/23 A PC RESUBMITTAL 02/02/23 A PC RESUBMITTAL 06/06/23 A PC RESUBMITTAL 06/14/23 A PC RESUBMITTAL 06/14/23 A PC RESUBMITTAL 07/10/23 A CLIENT REVISIONS 07/11/23 A CLIENT REVISIONS 08/04/23 A PC RESUBMITTAL (ELEC) 09/12/23 A PC RESUBMITTAL (ELEC) 10/05/23 A PC RESUBMITAL (ELEC) 10/05/23

