ABBREVIATIONS

A, AMP	AMPERES
A.C.	
A.F.F. Al	ABOVE FINISHED FLOOR
AMOX	AMMONIA OXIDATION CATALYST
BD	BOARD
С	CABINET
CATV	CABLE TELEVISION
CB	CIRCUIT BREAKER
CKT	CIRCUIT
CO	CONDUIT ONLY (EMPTY CONDUIT) WITH PULL WIRE
COPS	CRITICAL OPERATIONS POWER SYSTEM (CEC 708)
CPB	COPPER CONDUCTOR OR BUS
DB	DISTRIBUTION PANEL
DCOA	DESIGNATED CRITICAL OPERATIONS AREA
DEF	DIESEL EXHAUST FLUID DIESEL OXIDATION CATALYST
DPF	DIESEL PARTICULATE FILTER
(E)	EXISTING
EMT	EIFECTRIC METALLIC TUBING
E.O.L.	END-OF-LINE
EPO	EMERGENCY POWER-OFF
EWC	ELECTRIC WATER COOLER FLISE
F.A./FA	FIRE ALARM
FACP	FIRE ALARM CONTROL PANEL
F.B.O. FLA	
FMC	FLEXIBLE METALLIC CONDUIT
FS	FLOW SWITCH
GECL	
GND	GROUND
GRS	GALVANIZED RIGID STEEL
HC	
HD	HIGH INTENSITY DISCHARGE
HPS	HIGH PRESSURE SODIUM
I.B.O.	INSTALLED BY OTHER
I.B.E.	INSTALLED AND CONNECTED BY ELECTRICAL CONTRACTOR
IG	ISOLATED GROUND
INT	INTRUSION ALARM
J/JB	JUNCTION BOX
KV KVA	KILOVOLTS KILOVOLTS-AMPERES
KW	KILOWATT
	LIQUIDTIGHT FLEXIBLE METALLIC CONDUIT
LTG	LIGHTING
LV	LOW VOLTAGE
MCC	MOTOR CONTROL CENTER
MTG	MOUNTING
MLO	MAIN LUG ONLY
N	NEUTRAL
(IN) NI	NEW NIGHT LIGHT
N.I.C.	NOT IN CONTRACT
N.T.S.	NOT TO SCALE
Ø	PHASE
Р	POLE
P.A./PA	PUBLIC ADDRESS SYSTEM
PIV	POLL BOX POST INDICATOR VALVE
PNL	PANEL
PPB	POWER PULL BOX
REC/RECEPT.	RECEPTACLE
RELO	RELOCATABLE BUILDING/ PORTABLE BUILDING
RM	ROOM
RS	RAPID START
SCE	SIGNAL CURRENT EXPANDER PANEL
SCR	SELECTIVE CATALYTIC REDUCTION
S.L. SCTB	
SPB	SIGNAL PULL BOX
SPD	SURGE SUPPRESSION DEVICE
STB	SIGNAL TERMINAL BOARD
SW	SWITCH
TPB	TELEPHONE PULL BOX
IS TEI	
TERM	TERMINAL
ТҮР	TYPICAL
U.C.	UNDER COUNTER
UG	UNDERGROUND
U.O.N.	
V V.P	VOLIS/VOLIAGE VANDAL PROOF
W	WATTS
WP	WEATHERPROOF
WIVI	WIKENIOLD

	ALL WORK AND MATERIAL SHALL CONFORM TO INTENTION OF THESE PLANS AND SPECIFICATIO PROVIDE COMPLETE AND OPERATIVE SYSTEMS. MATERIAL, TRANSPORTATION, EQUIPMENT, MIS ACCOMPLISH THIS RESULT. ANYTHING WHICH NECESSARY PART OF THE INSTALLATION SHALL SPECIFICATIONS MAY BE CONSTRUED TO PERMI CONSTRUCTION CODES.
	ALL EQUIPMENT SHALL HAVE AN APPROVED, N LABORATORY LABEL ATTACHED (REFER TO THE TESTING COMPANIES: https://www.osha.gov/dt OF TESTING LABELS REQUIRED WITH ALL SUBM RESPONSIBLE FOR ALL THESE REQUIREMENTS. ARCHITECT/ENGINEER PRIOR TO PURCHASING, THESE REQUIREMENTS. WHERE A FIELD CERTIF ASSEMBLED COMPONENT, PROVIDE CERTIFIED ACCEPTABLE TO THE AUTHORITIES HAVING JUN
	THE ENGINEERING SERVICE ARE LIMITED TO PRI THE PLANS AND SPECIFICATIONS ARE INTENDE ONLY AND NOT THE TOTAL INSTRUMENT OF CO INTENTION OF ANY CONSTRUCTION PLANS TO VERIFY SCOPE OF WORK WITH GENERAL CONTI SUPERVISING THE JOB. THE ENGINEER WILL PRO CONSTRUCTION DOCUMENTS, BUT SUPERVISIO OWNER OR HIS APPOINTEE.
	WORKING CLEARANCE SHALL BE MAINTAINED EQUIPMENT, DISCONNECT SWITCH, ETC. LOCA REQUIREMENT SHALL ALSO BE OBSERVED. POV MAY VARY IN DIMENSION. THE CONTRACTOR S OF WORKING CLEARANCE REQUIREMENT WHE
	CONTRACTOR SHALL HAVE THE EQUIPMENT SU RETAIN A THIRD PARTY TO PERFORM THE STUDI BE PLACED ON ALL NEW ELECTRICAL DISTRIBUT TRANSFORMERS, PANELS, PANELBOARDS, DISCO LABELS SHALL BE PER ANSI Z535.4 GUIDELINES. INCIDENT ENERGY AT DISTANCES FROM THE EC APPROPRIATE PERSONAL PROTECTION EQUIPM
	THE CONTRACTOR SHALL VERIFY EXACT LOCAT ENTRANCES OF ALL EQUIPMENT AGAINST SHO OR PENETRATING EXTERIOR WALL(S) OF BUILDI
	IN CASE OF INTERFERENCE BETWEEN ELECTRIC, AND OTHER EQUIPMENT, THE CONTRACTOR SE BEFORE PROCEEDING.
	ALL OUTDOOR DEVICES SHALL BE WEATHERPR
	ONLY MAJOR PULL BOXES ARE SHOWN. CONT BOXES WHERE THEY ARE REQUIRED TO MAKE A ABOVE GROUND SHALL BE PAD LOCKABLE. AL HOLD DOWN BOLTS AND BE TRAFFIC RATED.
	MARK ALL PANELS WITH WHITE ACRYLIC NAME SYSTEM AND RED FACE FOR EMERGENCY SYSTE POWER INTO THE NAMEPLATE WITH 3/16" MINI PANEL SCHEDULE AT ALL PANELS.
	CONTRACTOR SHALL FURNISH ALL MATERIALS,
	NECESSARY TO COMPLETE INSTALLATION, CHEC
	CAUTION SHOULD BE USED WHEN EXCAVATIN UNDERGROUND CONDUITS. COORDINATE WIT
	SERVICE ALERT PRIOR TO EXCAVATION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR HIMSELF AS TO THE CONDITIONS UNDER WHIC CONTRACTOR SHALL CHECK ALL OF THE COND SITE VISIT SHALL BE MADE PRIOR TO SUBMITTIN VISIT WITH THE OWNER/ARCHITECT.
	THE CONTRACTOR SHALL OBTAIN A FULL SET C
	ALL PHASE CONDUCTORS SHALL HAVE THEIR CALLOWED.
	ISOLATED GROUNDING CONDUCTORS WHERE TO MATCH THE EQUIPMENT GROUNDING CON CONNECTED ONLY TO THE RECEPTACLES REQU GROUNDING SYSTEM AND GROUNDED AT THE PANEL OF CIRCUIT ORIGIN. THE ISOLATED GROU CONNECTED TO ANY OTHER GROUNDING SYST
	ALL EXTERIOR RECEPTACLES SHALL BE GFCI TYP COVER.
	PROVIDE AND INSTALL A PLAQUE AT EACH MA AND BUILDING SERVICE DISCONNECTING MEAN
•	ALL PROVIDE A LABEL ON THE MAIN ELECTRICA AVAILABLE FAULT CURRENT AT THE SERVICE.
•	ALL DISCONNECTS SHALL BE READILY ACCESSIE CALIFORNIA ELECTRICAL CODE. IF THE DISCON WITHIN SIGHT OF THE EQUIPMENT SERVED, IT S LOCKED IN THE OPEN POSITION.
	A LICENSED ELECTRICIAN SHALL BE PRESENT O
•	IS IN PROGRESS. AN ELECTRICAL CONTRACTOR SHALL ALSO BE CERTIFIED IF HE IS WORKING AS VIOLATION OF THIS REQUIREMENT BY EITHER E SHALL BE REPORTED TO THE STATE LICENSE CO EXISTING LABOR CODE SECTION 108.2. NO VOL ON THIS PROJECT AND ALL CITY INSURANCE RE PERFORMING ANY WORK.
	IS IN PROGRESS. AN ELECTRICAL CONTRACTOR SHALL ALSO BE CERTIFIED IF HE IS WORKING AS VIOLATION OF THIS REQUIREMENT BY EITHER E SHALL BE REPORTED TO THE STATE LICENSE CC EXISTING LABOR CODE SECTION 108.2. NO VOL ON THIS PROJECT AND ALL CITY INSURANCE RE PERFORMING ANY WORK. ALL CONDUCTORS IN STALLED IN UNDERGROU WET LOCATIONS AND MARKED WITH "W" PER C
	IS IN PROGRESS. AN ELECTRICAL CONTRACTOR SHALL ALSO BE CERTIFIED IF HE IS WORKING AS VIOLATION OF THIS REQUIREMENT BY EITHER E SHALL BE REPORTED TO THE STATE LICENSE CO EXISTING LABOR CODE SECTION 108.2. NO VOL ON THIS PROJECT AND ALL CITY INSURANCE RE PERFORMING ANY WORK. ALL CONDUCTORS IN STALLED IN UNDERGROU WET LOCATIONS AND MARKED WITH "W" PER CO ALL OUTDOOR ENCLOSURES SHALL HAVE LOCI SWITCHBOARDS, DISCONNECTS, ENCLOSURES, KEYED LOCKS. OUTDOOR PANELS SHALL HAVE STANDARD.

- GENERATOR RENTAL TIME.
- 5. PROVIDE A WARNING SIGN PLACARD CONNECTIONS INDICATING THE FOLL

7. A GRAPHICAL SIGN OR GRAPHICAL PL MSB INDICATING THE TYPE AND LOC

GENERATO

THESE PLANS INCLUDING ASSISTING THE SCHOOL DISTRICT WITH THE PURCHASING AND OBTAINING THE OPERATIONAL PERMIT FROM THE SAN JOAQUIN COUNTY VALLEY AIR THE PERMIT FEES.

GENERAL NOTES		STANDARD SY	MBOI	LEGEND
AL SHALL CONFORM TO LATEST CODES AND ORDINANCES. IT IS THE ANS AND SPECIFICATIONS TO COVER ALL THINGS REQUIRED TO D OPERATIVE SYSTEMS. THE CONTRACTOR SHALL FURNISH LABOR, TION, EQUIPMENT, MISCELLANEOUS SERVICES, ETC. REQUIRED TO T. ANYTHING WHICH MAY BE REASONABLY CONSTRUED AS A INSTALLATION SHALL BE INCLUDED NOTHING IN THESE PLANE OF	\$a SPST \$2 DPS \$3 3-W/	T TOGGLE WALL SWITCH - 20A, 120/277V, `a' INDICATES CONTROL IT TOGGLE WALL SWITCH - 20A, 120/277V AY TOGGLE WALL SWITCH - 20A, 120/277V	- D{ - •	SURGE SUPPRESSION DEVICE PROVIDE AND INSTALL JUNCTION BOX AND SURVEILLANCE CAMERA; REFER TO SPECIFICATIONS AND FLECTRICAL DETAILS. RUN 1" CONDUIT AND CAT-63
ANSTALLATION SHALL BE INCLUDED. NOTHING IN THESE PLANS OR CONSTRUED TO PERMIT WORK NOT CONFORMING TO ANY HAVE AN APPROVED, NATIONALLY RECOGNIZED TESTING ACHED (REFER TO THE FOLLOWING WEBSITE FOR APPROVED	\$4 4-₩/ \$м SPD ⁻ \$к SPST	YAY TOGGLE WALL SWITCH - 20A, 120/277V NT MOMENTARY CONTACT TOGGLE SWITCH - 20A, 120/277V T KEYED SWITCH - 20A, 120/277V		CABLE TO NEAREST IDF OR MDF. MAKE ALL CONNECTIONS FOR A FULLY FUNCTIONAL SYSTEM. INTRUSION ALARM DOOR CONTACT PROVISION, SEE TYPICAL DETAILS.
ps://www.osha.gov/dts/otpca/nrtl/its.html) AS PER N.E.C. 110. PROOF JIRED WITH ALL SUBMITTALS. THE CONTRACTOR SHALL BE IESE REQUIREMENTS. THE CONTRACTOR SHALL NOTIFY THE RIOR TO PURCHASING, IF ANY OF THE SPECIFIED MATERIAL FAILED WHERE A FIELD CERTIFIED PRODUCT MAY BE REQUIRED FOR FIELD T PROVIDE CERTIFIED REPORT BY AN APPROVED TESTING AGENICY	\$⊤ Her Hor OQ CEIL □ PULI	RMAL RATED SNAP SWITCH FOR CONTROLLING FRACTIONAL RSEPOWER MOTORS. LING OR WALL MOUNTED JUNCTION BOX LBOX(S) - SIZE AND NUMBER AS INDICATED	╡⊗	INTRUSION ALARM KEYPAD INTRUSION ALARM MOTION DETECTOR, AIM AS INDICATED ON PLANS. CIRCUIT INTERCONNECTION GROUND
THORITIES HAVING JURISDICTION. INCLUDE ALL TESTING AGENCE CE ARE LIMITED TO PREPARATION OF PLANS AND SPECIFICATIONS. CATIONS ARE INTENDED TO BE USED AS CONSTRUCTION GUIDELINES AL INSTRUMENT OF CONTRACT DOCUMENTS. IT IS NOT THE		GLE RECEPTACLE - 20A, 120V & GROUND EPTACLE, DUPLEX - 20A, 120V & GROUND EPTACLE, DUPLEX CEILING MOUNTED	$\frac{100A}{3P}$	CIRCUIT BREAKER - EXAMPLE SHOWS A 100A/3P, TRIP CURVE C CIRCUIT BREAKER
WITH GENERAL CONTRACTOR/OWNER SINCE THE ENGINEER IS NOT HE ENGINEER WILL PROVIDE INTERPRETATION OF THE ENTS, BUT SUPERVISION IS UNDER THE RESPONSIBILITY OF THE EE.		EPTACLE, DUPLEX - WITH ONE-HALF SWITCHED/CONTROLLED EPTACLE, DUPLEX - WITH GFCI PROTECTION IN WEATHERPROOF USING EPTACLE, DUPLEX- WITH GFCI PROTECTION	<u>ST</u> 	SHUNT TRIP EXISTING ABOVE GROUND CONDUIT EXISTING UNDERGROUND CONDUIT
ALL BE MAINTAINED AS PER C.E.C/N.E.C. FOR ALL PANEL(S), SERVICE T SWITCH, ETC. LOCAL UTILITY COMPANY WORKING CLEARANCE SO BE OBSERVED. POWER EQUIPMENT MANUFACTURER'S PRODUCT I. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION E REQUIREMENT WHEN LAYING OUT THE ELECTRICAL EQUIPMENT.	RECI	EPTACLE, 50A, 3-WIRE, 250V EPTACLE, DOUBLE DUPLEX - (2) 20A, 120V & GROUND EPTACLE, DOUBLE DUPLEX CEILING MOUNTED EPTACLE, DOUBLE DUPLEX WITH GECLPROTECTION	PL	PROPERTY LINE EXISTING METAL WIRE-WAY. MOUNTED ON WALL, 48-INCHES ABOVE FINISHED FLOOR.
VE THE EQUIPMENT SUPPLIER PROVIDE THE ARC FAULT STUDIES OR O PERFORM THE STUDIES. THE ARC FLASH WARNING LABELS SHALL ELECTRICAL DISTRIBUTION BOARDS, MAIN SWITCHBOARDS, , PANELBOARDS, DISCONNECTS, MCC'S ETC. PER CEC/NEC 110.16. SI Z535.4 GUIDELINES. THE LABEL SHALL LIST A MAXIMUM ARC FLASH ITANCES FROM THE EQUIPMENT FOR THE SYSTEM VOLTAGE AND THE	Image: Constraint of the second secon	EPTACLE, FLUSH FLOOR BOX - CARPET PLATE WHERE REQUIRED. EPHONE OUTLET, FLUSH FLOOR BOX - CARPET PLATE WHERE REQUIRED. TA OUTLET, FLUSH FLOOR BOX - CARPET PLATE WHERE REQUIRED.		WIREMOLD RACEWAY VERTICAL RUNS. PROVIDE ALL ELBOWS, FITTINGS, AND CONNECTORS AS NECESSARY FOR A COMPLETE RACEWAY SYSTEM. NEW ELECTRICAL EQUIPMENT EXISTING ELECTRICAL EQUIPMENT TO REMAIN
PROTECTION EQUIPMENT REQUIRED. L VERIFY EXACT LOCATION OF TERMINAL BOXES AND CONDUIT IPMENT AGAINST SHOP DRAWINGS BEFORE STUBBING UP CONDUITS OR WALL(S) OF BUILDING(S).	©©⊙ FLUS TELE TELE STUE	SH, FLOOR MOUNTED DUPLEX RECEPTACLE, DATA JACK, AND EPHONE JACK. EPHONE OUTLET: PROVIDE & INSTALL 2-GANG BOX WITH 1" CONDUIT. B-UP INTO T-BAR CEILING. FOR HARD CEILINGS, RUN THE CONDUIT TO E CABLE TERMINATION LOCATION INDICATED PER THE RISER DIAGRAM		EXISTING ELECTRICAL EQUIPMENT TO BE DEMOLISHED SHEET NOTE NUMBER - #, SEE NOTE DESCRIPTION ON SAME SHEET. GENERAL NOTE NUMBER - #, SEE NOTE DESCRIPTION ON SAME SHEET.
E BETWEEN ELECTRICAL EQUIPMENT SHOWN ON THE DRAWINGS , THE CONTRACTOR SHALL NOTIFY THE ENGINEER IN WRITING SHALL BE WEATHERPROOF.		TA OUTLET: PROVIDE & INSTALL 2-GANG BOX WITH 1" CONDUIT. STUB-UP O T-BAR CEILING. FOR HARD CEILINGS, RUN THE CONDUIT TO THE CABLE MINATION LOCATION INDICATED PER THE RISER DIAGRAM. MBER IN PARENTHESIS INDICATES QUANTITY OF DEVICES. TYPICAL FOR		REFERENCE TO PLAN/DETAIL/DIAGRAM DESIGNATES SIZE (X) AND QUANTITY (Y) OF FEEDERS, SEE FEEDER SCHEDULE
S ARE SHOWN. CONTRACTOR SHALL PROVIDE ADDITIONAL PULL REQUIRED TO MAKE A WORKABLE INSTALLATION. ALL PULL BOXES BE PAD LOCKABLE. ALL PULL BOXES UNDERGROUND SHALL HAVE D BE TRAFFIC RATED.	ALL T TRAI FUSE FUSE	TYPES OF DEVICES. NSFORMER ED DISCONNECT - MOTOR RATED. FURNISHED AND INSTALLED BY	<u>∕</u> ∰ • ○ •	ADDENDUM OR REVISION NUMBER, SEE DESCRIPTION ON SAME SHEET. RELAY COIL
WHITE ACRYLIC NAMEPLATES WITH BLACK FACE FOR NORMAL OR EMERGENCY SYSTEM. ENGRAVE THE NAME AND SOURCE OF PLATE WITH 3/16" MINIMUM ARIAL FONT. PROVIDE TYPE WRITTEN . PANELS. RNISH ALL MATERIALS, TOOLS, LABOR, EQUIPMENT AND SUPERVISION		MENT FUSES SIZED ACCORDING TO NAME PLATE DATA ON EQUIPMENT FALLED. FUSED DISCONNECT - MOTOR RATED, FURNISHED AND INSTALLED BY CTRICAL CONTRACTOR.	o@o o(_)o	TIME DELAY RELAY COIL
E INSTALLATION, CHECKOUT AND INITIAL OPERATION. RIFY ALL DIMENSIONS AND GENERAL ARRANGEMENT OF EQUIPMENT MIT SHOP DRAWINGS FOR ALL EQUIPMENT PRIOR TO PURCHASE. ED WHEN EXCAVATING OR TRENCHING TO LOCATE EXISTING	VFD VAR ELEC QQQQ 5% L	RIABLE FREQUENCY DRIVE: FURNISHED, INSTALLED, AND CONNECTED BY CTRICAL CONTRACTOR UNLESS OTHERWISE NOTED. LINE OR LOAD REACTOR	°↓ °↓°	NORMALLY CLOSED CONTACT, OPEN ON SIGNAL ENERGIZATION, DELAY CLOSE ON SIGNAL DE-ENERGIZATION NORMALLY OPEN CONTACT, CLOSE ON SIGNAL ENERGIZATION, DELAY OPEN
ITS. COORDINATE WITH AGENCIES SUCH AS UNDERGROUND EXCAVATION. L BE RESPONSIBLE FOR HAVING VISITED THE SITE AND SATISFIED DITIONS UNDER WHICH THE WORK IS TO BE PERFORMED. THE ECK ALL OF THE CONDITIONS WHICH MAY AFFECT HIS WORK. THE E PRIOR TO SUBMITTING THE BID. BIDDERS SHALL PREARRANGE A SITE		DTFILTER GNETIC MOTOR STARTER FURNISHED, INSTALLED AND CONNECTED BY CTRICAL CONTRACTOR UNLESS OTHERWISE NOTED. TOR - FURNISHED AND INSTALLED BY MECHANICAL CONTRACTOR AND NNECTED BY ELECTRICAL CONTRACTOR.	ب مح مح	NORMALLY CLOSED CONTACT, DELAY OPEN ON SIGNAL ENERGIZATION, CLOSE ON SIGNAL DE-ENERGIZATION NORMALLY OPEN CONTACT, DELAY CLOSE ON SIGNAL ENERGIZATION, OPEN ON SIGNAL DE-ENERGIZATION
ARCHITECT. L OBTAIN A FULL SET OF PLANS WHEN BIDDING THE JOB. S SHALL HAVE THEIR OWN NEUTRALS. NO SHARING OF NEUTRALS	TERN RETA	DUND ROD - 3/4" DIAMETER x 10-FEET LONG COPPER CLAD MINAL CABINET - SURFACE OR FLUSH MOUNTED WITH FLAME ARDANT PLYWOOD BACKBOARD NELBOARD - SURFACE OR FLUSH MOUNTED	9/10 어 l Po 0 - To	NORMALLY CLOSED CONTACT NORMALLY OPEN CONTACT NORMALLY CLOSED LEVEL SWITCH, OPEN ABOVE SET POINT
CONDUCTORS WHERE INDICATED FOR RECEPTACLES SHALL BE SIZED ENT GROUNDING CONDUCTOR SIZE AND INSTALLED AND HE RECEPTACLES REQUIRED TO BE CONNECTED TO THE ISOLATED D GROUNDED AT THE MAIN GROUNDING BUS WITHIN THE THE N. THE ISOLATED GROUNDING CONDUCTOR SHALL NOT BE HER GROUNDING SYSTEM ALONG IT'S PATH.		TRIBUTION OR SWITCHBOARD JTRAL LINK INSFORMER	s of o	NORMALLY OPEN LEVEL SWITCH, OPEN BELOW SET POINT NORMALLY CLOSED LIMIT SWITCH
LES SHALL BE GFCI TYPE WITH A LOCKING, WEATHERPROOF IN-USE PLAQUE AT EACH MAIN SWITCHBOARD DISCONNECTING MEANS DISCONNECTING MEANS PER NEC 225.37.	CON NEC NEU CON	DUND WIRE WITH GREEN INSULATION SIZE PER N.E.C., U.O.N. NDUIT CONCEALED IN WALL OR CEILINGS. PROVIDE NUMBER OF WIRES ESSARY FOR BRANCH CIRCUIT, SWITCH LEGS, ETC. PROVIDE SEPARATE JTRALS FOR EACH PHASE WIRE. SIZE SHALL BE DETERMINED BY OCPD NNECTED TO THE PHASE CONDUCTORS AND VOLTAGE DROP	و م ح	NORMALLY OPEN LIMIT SWITCH NORMALLY CLOSED PRESSURE SWITCH, OPEN ABOVE SET POINT
N THE MAIN ELECTRICAL SERVICE EQUIPMENT INDICATING THE ENT AT THE SERVICE. - BE READILY ACCESSIBLE AND IN SIGHT OF THE EQUIPMENT, PER CODE. IF THE DISCONNECTING MEANS CANNOT BE LOCATED	CON SIZE CON NEC	NSIDERATIONS. ALL CONDUITS SHALL HAVE GROUND CONDUCTOR(S). E CONDUIT PER NEC. NDUIT CONCEALED IN WALL OR CEILINGS. PROVIDE NUMBER OF WIRES ESSARY FOR BRANCH CIRCUIT, SWITCH LEGS, ETC. PROVIDE SEPARATE JTRALS FOR EACH PHASE WIRE. SIZE SHALL BE DETERMINED BY OCPD	10 2 0 0 0	NORMALLY CLOSED TEMPERATURE SWITCH, OPEN ABOVE SET POINT NORMALLY OPEN TEMPERATURE SWITCH, CLOSE ABOVE SET POINT
DUIPMENT SERVED, IT SHALL HAVE THE CAPABILITY OF BEING DIFFERENT ON THE PROJECT WHENEVER ELECTRICAL WORK TRICAL CONTRACTOR IS NOT EXEMPT FROM THIS REQUIREMENT AND DIFFHE IS WORKING AS THE RESPONSIBLE PROJECT ELECTRICIAN.	#10 CON SIZE CON CON	NNECTED TO THE PHASE CONDUCTORS AND VOLTAGE DROP NSIDERATIONS. ALL CONDUITS SHALL HAVE GROUND CONDUCTOR(S). E CONDUIT PER NEC. HASH MARKS INDICATE THE NUMBER OF NDUCTORS AND THE ADJACENT NUMBER INDICATES CONDUCTOR SIZE. NDUIT CONCEALED UNDERGROUND OR BELOW FLOOR, MINIMUM SIZE IS		NORMALLY CLOSED MOISTURE SWITCH, OPEN ABOVE SET POINT NORMALLY OPEN MOISTURE SWITCH, CLOSE ABOVE SET POINT
JIREMENT BY EITHER ELECTRICIANS OR WORKING CONTRACTORS THE STATE LICENSE CONTRACTOR BOARD AS REQUIRED UNDER THE ECTION 108.2. NO VOLUNTEERS ARE ALLOWED TO PERFORM WORK LL CITY INSURANCE REQUIREMENTS MUST BE MET PRIOR TO	3/4". LEG BE D VOL CON	". PROVIDE NUMBER OF WIRES NECESSARY FOR BRANCH CIRCUIT, SWITCH IS, ETC. PROVIDE SEPARATE NEUTRALS FOR EACH PHASE WIRE. SIZE SHALL DETERMINED BY OCPD CONNECTED TO THE PHASE CONDUCTORS AND LTAGE DROP CONSIDERATIONS. ALL CONDUITS SHALL HAVE GROUND NDUCTOR(S). SIZE CONDUIT PER NEC.		NORMALLY CLOSED, MOMENTARY PUSHBUTTON MOMENTARY CONTACT MUSHROOM HEAD PUSHBUTTON WITH ONE NORMALLY OPEN AND ONE NORMALLY CLOSED CONTACT
ALLED IN UNDERGROUND OR WET LOCATIONS SHALL BE LISTED FOR ARKED WITH "W" PER CEC. IRES SHALL HAVE LOCKING HASP. INCLUDING, BUT NOT LIMITED TO INECTS, ENCLOSURES, ETC. THE CITY WILL PROVIDE THEIR OWN & PANELS SHALL HAVE KEYED LOCKING MECHANISM KEYED PER CITY	CON PRO ETC. DETI VOL	NDUIT UNDERGROUND OR BELOW FLOOR, MINIMUM SIZE IS 3/4". OVIDE NUMBER OF WIRES NECESSARY FOR BRANCH CIRCUIT, SWITCH LEGS, . PROVIDE SEPARATE NEUTRALS FOR EACH PHASE WIRE. SIZE SHALL BE ERMINED BY OCPD CONNECTED TO THE PHASE CONDUCTORS AND LTAGE DROP CONSIDERATIONS. ALL CONDUITS SHALL HAVE GROUND		SELECTOR SWITCH (SHOWN WITH 3 POSITIONS AND 1 CONTACT FOR EACH POSITION), M = MAINTAINED, S = SPRING RETURN
L COORDINATE THE WORK TO MINIMIZE THE TEMPORARY IE. 3N PLACARD AT ALL TEMPORARY GENERATOR POINTS OF		NDUCTOR(S). SIZE CONDUIT PER NEC. HASH MARKS INDICATE THE MBER OF CONDUCTORS AND THE ADJACENT NUMBER INDICATES NDUCTOR SIZE. NDUIT- UP		PILOT LIGHT: A = AMBER, B = BLUE, G = GREEN, R = RED, W = WHITE, Y = YELLOW
NG THE FOLLOWING INFORMATION WHETHER : WARNING FOR CONNECTION OF SEPARATELY DERIVED (BONDED NEUTRAL) SYSTEMS ONLY		TER RTABLE GENERATOR INTERCONNECTION	() (AFR)	PUMP ARC FLASH RELAY
OR WARNING FOR CONNECTION OF NON-SEPARATELY DERIVED (FLOATING NEUTRAL) SYSTEM ONLY RAPHICAL PLACARD SHALL BE LOCATED AT THE SERVICE ENTRANCE FOR AND LOCATION OF FACH ON-SUTE GENERATOR		MENTARY CONTACT MUSHROOM HEAD PUSHBUTTON WITH ONE RMALLY OPEN AND ONE NORMALLY CLOSED CONTACT		
ERATOR PERMIT NOTICE				

THE CONTRACTOR SHALL PURCHASE AND INSTALL THE GENERATOR AS INDICATED WITHIN POLLUTION CONTROL DISTRICT. THE SCHOOL DISTRICT TO REIMBURSE THE CONTRACTOR FOR

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SCHEDULES

SCHEDULES

E3.02 ELECTRICAL ROOF PLANS

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	(TYPICAL WALL DEVICE MOUNTING HEIGHTS)	(ARC FLASH WARNING LABEL REQUIREMENTS)	ELECTRICAL EQUIPMENT BRACING NOTES	CONCRETE SAMPLING NOTE
	COMMON PLATE FOR	CONDITION 1: EXISTING EQUIPMENT WITHIN SCOPE OF THE PROJECT AND ALL NEW EQUIPMENT	ALL ELECTRICAL COMPONENTS SHALL BE ANCHORED AND INSTALLED PER THE DETAILS ON THE DSA APPROVED CONSTRUCTION DOCUMENTS. WHERE NO DETAIL IS INDICATED, THE FOLLOWING COMPONENTS SHALL BE ANCHORED OR BRACED TO MEET THE FORCE AND DISPLACEMENT REQUIREMENTS PRESCRIBED IN THE 2016 CBC SECTIONS 1616A AND ASCE 7-10 CHAPTERS 13, 26, AND 30. 1. ALL PERMANENT EQUIPMENT AND COMPONENTS.	ALL CONCRETE POURS SHALL HAVE A MINIMUM OF FIVE CYLINDRICAL SAMPLES TAKEN AND REPORT OF THE POURED IN PLACE CONCRETE SHALL BE PROVIDED TO THE ENGINEER AND TO THE CITY FOR RECORDS. THE CONCRETE STRENGTH SHALL MEET OR EXCEED THE STRENGTH REQUIREMENTS AS INDICATED ON THE APPROVED PLANS.
	SIGNAL DEVICES	ELECTRICAL ARC FLASH HAZARD Will cause severe injury or death.	 TEMPORARY OR MOVABLE EQUIPMENT THAT IS PERMANENTLY ATTACHED (E.G. HARD WIRED) TO THE BUILDING UTILITY SERVICES SUCH AS ELECTRICITY, GAS, OR WATER. MOVABLE EQUIPMENT WHICH IS STATIONED IN ONE PLACE FOR MORE THAN 8 HOURS AND HEAVIER THAN 400 POUNDS ARE REQUIRED TO BE ANCHORED WITH TEMPORARY ATTACHMENTS. 	DEMOLITION NOTES 1. THE DEMOLITION PLANS GENERALLY SHOW ALL EXISTING EQUIPMENT TO BE REMOVED.
	(SEE 15" MIN. (SEE SCHEDULE) FLOOR	ALL requirements in NFPA 70E for safe work practices and for Personal	THE ATTACHMENT OF THE FOLLOWING ELECTRICAL COMPONENTS SHALL BE POSITIVELY ATTACHED TO THE STRUCTURE, BUT NEED NOT BE DETAILED ON THE PLANS. THESE COMPONENTS SHALL HAVE FLEXIBLE CONNECTIONS PROVIDED BETWEEN THE COMPONENT AND ASSOCIATED DUCTWORK, PIPING, AND CONDUIT. A. COMPONENTS WEIGHING LESS THAN 400 POUNDS AND HAVING A CENTER OF MASS	 EXISTING CONDUITS IN WALLS TO BE REMOVED SHALL BE CUT AND CAPPED FLUSH WITH FLOOR AND/OR CEILING. REMOVE CONDUCTORS BACK TO LAST DEVICE ON CIRCUIT REMAINING. INSTALL PULL ROPE. THE CONTRACTOR SHALL IDENTIFY LOCATIONS OF ALL CAPPED CONDUITS, WHETHER CUT AND CAPPED AS PART OF THIS PROJECT OR A PREVIOUS PROJECT. ON ALL THE RECORD.
	WALL DEVICES SWITCH/DIMMER DEVICES	Protective Equipment.	LOCATED 4 FEET OR LESS ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORTS THE COMPONENT.	DRAWINGS.
		 ARC FLASH HAZARD HAZARD WARNING LABELS SHALL BE FIELD MARKED/PLACED ON ALL NEW AND EXISTING ELECTRICAL DISTRIBUTION BOARDS, SWITCHBOARDS, TRANSFORMERS, PANELS, PANELBOARDS, DISCONNECTS, & MOTOR CONTROL CENTERS THAT ARE WITHIN THE 	LESS THAN 5 POUNDS PER FOOT, WHICH ARE SUSPENDED FROM A ROOF OR FLOOR OR HUNG FROM A WALL	4. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO MAINTAIN ELECTRICAL SERVICE TO ALL DEVICES DOWNSTREAM OF A DEVICE ABANDONED.
		SCOPE OF THIS PROJECT PER CEC 110.16. LABELS SHALL BE APPLIED TO EXISTING EQUIPMENT WHERE NEW CONNECTIONS ARE MADE. THE LABELS SHALL MEET THE REQUIREMENTS OF 110.21/BLAND ANSI 2535 4-2011 GUIDELINES BY USING EFFECTIVE COLORS SYMBOLS OF ANY	FOR THOSE ELEMENTS THAT DO NOT REQUIRE DETAILS ON THE APPROVED DRAWINGS, THE INSTALLATION SHALL BE SUBJECT TO THE APPROVAL OF THE STRUCTURAL ENGINEER OF RECORD	5. ALL ELECTRICAL DEVICES REMOVED THAT WILL NOT BE RELOCATED OR REPLACED SHALL HAVE ALL CONDUIT, CONDUCTORS, ETC. REMOVED BACK TO LAST DEVICE.
		COMBINATION THEREOF. CONDITION 2: COMPLETELY NEW DISTRIBUTION SYSTEMS ONLY	AND THE DSA DISTRICT STRUCTURAL ENGINEER. THE PROJECT INSPECTOR WILL VERIFY THAT ALL COMPONENTS AND EQUIPMENT HAVE BEEN ANCHORED IN ACCORDANCE WITH THE ABOVE REQUIREMENTS.	 RELABEL ALL CIRCUITS THAT HAVE ALL LOADS REMOVED AS SPARE. THE ELECTRICAL CONTRACTOR SHALL COORDINATE WITH THE OWNER PRIOR TO REMOVAL
	DEVICE TYPE MOUNTING HEIGHT	A DANGER	ELECTRICAL EQUIPMENT NOTES	OF ANY ELECTRICAL EQUIPMENT. THE CONTRACTOR SHALL RETURN TO THE OWNER, IN THE AS-FOUND CONDITION, ANY EQUIPMENT THE OWNER REQUESTS BE RETURNED TO THE OWNER.
	SWITCHES NO MORE THAN 48" A.F.F. TO TOP OF DEVICE DIMMERS NO MORE THAN 48" A.F.F. TO TOP OF DEVICE	Arc Flash and Shock Hazard Nominal System Voltage Incident Energy (cal/cm ²) Arc Flash Boundary Working Distance	THE ELECTRICAL DRAWINGS ARE DIAGRAMMATIC AND INDICATE THE GENERAL ARRANGEMENT OF ELECTRICAL FOURPMENT DEVICES AND WIRING SEE SECTION 260000 OF	CONDITION.
	RECEPTACLESNO LESS THAN 15" A.F.F. TO BOTTOM OF DEVICETELEPHONE OUTLETS (OFFICE)NO LESS THAN 15" A.F.F. TO BOTTOM OF DEVICETELEPHONE OUTLETS (CLASSROOMS)NO MORE THAN 48" A.F.F. TO TOP OF DEVICE	Restricted Approach PPE Hazard Category Limited Approach Arc Rating of Clothing Arc-rated PPE: Face shield Correction Correction Arc-rated PPE: Face shield Correction Correction Correction Correction	 THE SPECIFICATIONS. 2 FOR THE EXACT LOCATION OF ELECTRICAL FOLUPMENT AND DEVICES SEE THE 	 IF EXISTING EQUIPMENT REQUIRES RELOCATION, THE CONTRACTOR SHALL ENSURE THAT ALL EQUIPMENT IS OPERABLE, CONNECTED, AND DOES NOT POSE A HAZARD WHEN RELOCATED. RATCLETO MATCLES UPPOLINDING SUPERIOR ANY HOLES CREATED BY REMOVING ANY.
	DATA OUTLETSNO LESS THAN 15" A.F.F. TO BOTTOM OF DEVICEINTERCOM OUTLETSNO LESS THAN 15" A.F.F. TO BOTTOM OF DEVICETELEVISION OUTLETSNO LESS THAN 15" A.F.F. TO BOTTOM OF DEVICE	Long-sleeve shirt Balaclava Hard hat liner Hard hat Flash suit jacket Gloves Image: Safety goggles Image: Safety glasses Flash suit hood Parka Image: Safety glasses Image: Safety glasses Flash suit hood Parka Image: Safety glasses Image: Safety glasses	ARCHITECTURAL ELEVATIONS, DETAILS AND DIMENSIONS SHOWN ON THE DRAWINGS.	 PATCH TO MATCH SURROUNDING SURFACE ANY HOLES CREATED BY REMOVING ANY EQUIPMENT, CONDUITS, ETC. BANELS OR TERMINAL CARINETS IN WALLS TO BE REMOVED SHALL REMAIN OPERATIVE UNTIL
	TELEVISION OUTLETSNO LESS THAN TS A.F.F. TO BOTTOM OF DEVICEMICROPHONE OUTLETSNO LESS THAN 15" A.F.F. TO BOTTOM OF DEVICERECEPTACLES, OUTLETS, SWITCHES, ETC. MOUNTED ABOVE COUNTERSWITHIN THE REACH RANGES SPECIFIED IN SECTION 1138A.3 OF THE CALIFORNIA BUILDING CODE.CLOCKSAS SHOWN ON DRAWINGS	Equipment ID: 1. ARC FLASH HAZARD WARNING LABELS FOR AN ENTIRELY NEW ELECTRICAL SERVICE AND DISTRIBUTION SYSTEMS SHALL BE UTILIZED AND ALL ELECTRICAL COMPONENTS OF THE DISTRIBUTION EQUIPMENT SHALL HAVE AN ARC FLASH WARNING LABEL WITH THE	ELECTRICAL DUCTWORK ANCHORING NOTES DUCTWORK AND ELECTRICAL DISTRIBUTION SYSTEMS SHALL BE BRACED TO COMPLY WITH THE FORCES AND DISPLACEMENTS PRESCRIBED IN ASCE 7-10 SECTION 13.3 AS DEFINED IN ASCE 7-10	ALL DEVICES FED FROM THE PANEL OR TC ARE REMOVED SHALL REMAIN OPERATIVE UNTIL ALL DEVICES FED FROM THE PANEL OR TC ARE REMOVED (IF APPLICABLE) OR NEW LOCATION FOR PANEL OR TC IS READY TO RECEIVED PANEL OR TC. IF NECESSARY, THE CONTRACTOR SHALL PROVIDE TEMPORARY BRACING TO SUPPORT PANEL OR TC. CHECK WITH ENGINEER FOR APPROVAL OF SUPPORTS. THE CONTRACTOR SHALL RELOCATE ALL DEVICES SERVED BY THE PANEL OR TC TO ANOTHER PANEL OR TC.
	SPEAKERSAS SHOWN ON DRAWINGSHAND DRYERSREFER TO ARCHITECTURAL PLANSHAIR DRYERSREFER TO ARCHITECTURAL PLANSWALL SCONCESABOVE 80" FOR PROJECTIONS INTO CORRIDORS OF	FOLLOWING INFORMATION: 1.1. NOMINAL SYSTEM VOLTAGE 1.2. ARC FLASH BOUNDARY 1.3. MINIMAL ARC RATING OF CLOTHING 1.4. EXACTLY ONE OF THE FOLLOWING:	SECTIONS 13.6.5.6, 13.6.7, AND 13.6.8, AND 2016 CBC SECTIONS 1616A.1.23 THROUGH 1616A.1.26. THE BRACING AND ATTACHMENTS TO THE STRUCTURE SHALL BE DETAILED ON THE APPROVED DRAWINGS OR THEY SHALL COMPLY WITH ON OF THE OSHPD PRE-APPROVALS (OPM #) AS MODIFIED TO SATISFY ANCHORAGE REQUIREMENTS OF ACI 318, APPENDIX D.	12. MAINTAIN CIRCUITS FEEDING DEVICES OUTSIDE OF BOUNDARIES OF CURRENT DEMOLITION PHASE DURING DEMOLITION FOR EACH PHASE OF DEMOLITION.
	EXIT LIGHTS SEE DETAILS	 1.4.1. INCIDENT ENERGY & CORRESPONDING WORKING DISTANCE 1.4.2. THE ARC FLASH PPE CATEGORY 2. THE LABELS SHALL MEET THE REQUIREMENTS OF CEC 110.21(B) AND ANSI Z535.4-2011 	COPIES OF THE MANUAL SHALL BE AVAILABLE ON THE JOBSITE PRIOR TO THE START OF HANGING AND BRACING OF THE PIPE, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEMS	TRENCHING AND EXCAVATION NOTES
	EXIT MARKERS SEE DETAILS EMERGENCY LIGHTING WALL PACK AS SHOWN ON DRAWINGS KEYPADS NO MORE THAN 48" A.F.F. TO TOP OF DEVICE WIREMOLD MOUNTING HEIGHT SHALL BE SUCH THAT THE LOWEST DEVICE MOUNTED ON WIREMOLD IS AT 15" A.F.F. TO	 GUIDELINES BY USING EFFECTIVE COLORS, SYMBOLS OR ANY COMBINATION THEREOF. THE CONTRACTOR SHALL HAVE THE EQUIPMENT MANUFACTURER PROVIDE THE REQUIRED LABELING OR OBTAIN THE SERVICES OF A THIRD PARTY OR THE ELECTRICAL ENGINEER OF RECORD. 	THE STRUCTURAL ENGINEER OF RECORD SHALL VERIFY THE ADEQUACY OF THE STRUCTURE TO SUPPORT THE HANGER AND BRACE LOADS.	1. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO CALL UNDERGROUND SERVICE ALERT "USA" BEFORE THE COMMENCEMENT OF ANY EXCAVATION. EACH CONTRACTOR SHALL HAVE THEIR OWN USA TICKET NUMBER FOR EACH PROJECT LOCATION AND SHALL NOT RIDE ON ANY OTHER CONTRACTORS TICKET. CONTRACTOR SHALL NOTIFY THE OWNER 72 HOURS PRIOR TO EXCAVATION
		<u>CONDITION 3: NEW SERVICES</u>	HILTI KWIK BOLT TZ NOTES	2. THIS CONTRACTOR SHALL PERFORM ALL CUTTING AND PATCHING NECESSARY FOR THE
	 ALL VERTICAL MEASUREMENTS ARE 'ABOVE FINISHED FLOOR' - (A.F.F.). SEE DRAWINGS FOR NON-TYPICAL MOUNTING HEIGHTS. WHERE MOUNTING HEIGHTS ARE NOT SHOWN, REFER TO ARCHITECTURAL PLANS. RECEPTACLES, LIGHT SWITCHES, TELEPHONE-DATA OUTLETS AND OTHER RECESSED FLECTRICAL DEVICES THAT ARE SHOWN BACK-TO-BACK ON WALLS SEPARATING CORRIDORS. 	 SERVICE EQUIPMENT WITH THE FOLLOWING INFORMATION. 1.1. NOMINAL SYSTEM VOLTAGE 1.2. AVAILABLE FAULT CURRENT AT THE SERVICE OVERCURRENT PROTECTIVE DEVICES 1.3. CLEARING TIME OF THE SERVICE OVERCURRENT PROTECTIVE DEVICES BASED ON THE 	1. EXPANSION ANCHORS SHALL BE HILTI KWIK BOLT TZ AS MANUFACTURED BY HILTI, INC., 5400 SOUTH 122ND EAST AVENUE, TULSA, OKLAHOMA 74146. INSTALLATION SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS AND I.C.C. REPORT NO. ESR-1917.	 THIS CONTRACTOR SHALL DO EXCAVATING REQUIRED FOR THE INSTALLATION OF THE WORK. UNDERGROUND LINES OUTSIDE THE BUILDINGS SHALL BE INSTALLED WITH A MINIMUM OF
	ROOMS AND OPEN AREAS SHALL BE SEPARATED HORIZONTALLY BY AT LEAST 24 INCHES. THIS REQUIREMENT IS TO SATISFY BOTH THE CONDITIONS AT FIRE RATED CORRIDORS AND SOUND TRANSMISSION FACTOR BETWEEN ALL CORRIDORS, ROOMS AND OPEN AREAS INCLUDING EXTERIOR WALLS.	AVAILABLE FAULT CURRENT AT THE SERVICE EQUIPMENT 1.4. THE DATE THE LABEL WAS APPLIED 2. THE LABELS SHALL MEET THE REQUIREMENTS OF CEC 110.21(B) AND ANSI Z535.4-2011 GUIDELINES BY USING EFFECTIVE COLORS, SYMBOLS OR ANY COMBINATION THEREOF.	 2. ULTIMATE TENSION VALUES SHALL BE AS FOLLOWS: 2.1. FOR 3/8" DIAMETER BOLTS: 2.1.1. MINIMUM EMBEDMENT: 2" 	24" OF COVER, EXCEPT DEPTH OF UTILITY SERVICES SHALL COMPLY WITH RESPECTIVE UTILITY COMPANY REQUIREMENTS.4. BEFORE COMPACTION, MOISTEN OR AERATE EACH LAYER AS NECESSARY TO PROVIDE
			 2.1.2. MINIMUM DISTANCE FROM EDGE: 4-1/2 2.1.3. SPACING: 5" 2.1.4. MINIMUM CONCRETE THICKNESS: 4" 2.1.5. TENSION LOAD: 1600 POUNDS 2.1.6. TOROUE TEST: 25 POUND-FEET 	MAXIMUM DRY DENSITY OR RELATIVE DRY DENSITY FOR EACH AREA CLASSIFICATION. DO NOT PLACE BACKFILL OR FILL MATERIAL ON SURFACES THAT ARE MUDDY, FROZEN, OR CONTAIN FROST OR ICE.
TYPE LIGHTS MANUF		REMARKS WATTS LBS	2.2. FOR 1/2" DIAMETER BOLTS: 2.2.1. MINIMUM EMBEDMENT: 3-1/4" 2.2.2 MINIMUM DISTANCE FROM EDGE: 6"	5. STRUCTURES, BUILDING SLABS, WALKWAYS, AND STEPS: COMPACT TOP 6" OF SUBGRADE AND EACH LAYER OF BACKFILL OR FILL MATERIAL AT 95% MAXIMUM RELATIVE COMPACTION.
GARDCO LIGHTING C #121-16L-400-NW-G4	DR EQUAL -3-UNV-IMRI2-PCB LED PHOTOCELL AND MOTION SENSOR THAT REDUCES LIG	OR LED FIXTURE SURFACE MOUNTED ON A WALL. FIXTURE SHALL INCLUDE GHTING BY 50% WHEN AREA IS UNOCCUPIED AND EMERGENCY DRIVER AT 22 15	2.2.3. SPACING: 6" 2.2.4. MINIMUM CONCRETE THICKNESS: 6-1/2"	6. COMPACT TOP 6" OF SUBGRADE MATERIAL AT 85% RELATIVE COMPACTION.
	EMERGENCY FIXTURE LOCATIONS INDICATED ON LIGH	ITING PLAN.	2.2.5. TENSION LOAD: 1600 POUNDS 2.2.6. TORQUE TEST: 40 POUND-FEET	RELATIVE COMPACTION.
I. COORDINATE ALL COLORS WITH OWNER/ARCHIT 2. ALL CLEAR, ACRYLIC, PRISMATIC LENSES ARE TO BE	SCHEDULES NOTES ECT PRIOR TO ORDERING. CONTRACTOR SHALL PROVIDE COLOR SAMPLES DURIN SUBMITTAL STAGE MINIMUM 0.125" PATTERN K12, U.O.N		 PLACEMENT GUIDELINES FOR ABOVE VALUES IN ITEM 2 REQUIRE THE FOLLOWING CONDITIONS: TABLE VALUES ARE BASED ON f'c = 3000 PSI HOLES DRILLED WITH A HAMMER DRILL AND CARBIDE BIT COMPLYING WITH ANSI B212.15-1994 	 ANY SURPLUS EXCAVATION RESULTING FROM THESE EXCAVATIONS SHALL BE HAULED OFF. AFTER ALL TRENCHES HAVE BEEN TAMPED IN, RAKE OUT ALL HIGH AND LOW AREAS ALONG THE TRENCH LINE. ALL CLODS AND SOLID ROCKS EXPOSED ON THE SURFACE AS A RESULT OF THE EXCAVATION SHALL BE BROKEN DOWN AND OR CLEANED UP. ALL TRENCH LINES SHALL
3. ALL LEDS SHALL HAVE A CRI OF 0.8 AND COLOR T 4. ALL HALF SHADED FIXTURES SHALL HAVE AN EME 5. ALL DRIVERS SHALL HAVE LESS THAN 10% THD. 5. EXTURE TYPE IS SUCK ANY IN MOST FIXTURES	EMPERATURE OF 4000K. RGENCY DRIVER WITH BATTERY BACKUP IN ORDER TO PROVIDE A MINIMUM OF 90 MINUTES OF BACKUF CE.	P IN THE EVENT OF POWER OUTAGE WITH MINIMUM 1100 LUMEN OUTPUT. THE BATTERY CHARGER	 3.3. BIT DIAMETER EQUALS THE SIZE OF THE ANCHOR BEING INSTALLED 3.4. HOLE DEPTH MUST EXCEED MINIMUM EMBEDMENT BY ONE BOLT DIAMETER 3.5. ANY SEISMIC DESIGN CATEGORY PER 2013 C.B.C. 3.6. TENSION LOAD VALUES SHALL BE MULTIPLIED BY 0.6 FOR LIGHTWEIGHT CONCRETE 3.7. A.C.I. "CRACKED" CONCRETE CONDITION IS SUFFICIENT 	BE RAKED LEVEL WITH EXISTING GRADE. 10. ELECTRICAL, NETWORK, OR DATA CONDUIT SHALL NOT BE RUN IN EXCAVATIONS PROVIDED FOR PLUMBING OR HEATING PIPES, UNLESS SEPARATED BY A MINIMUM OF 12 INCHES.
3. PRIOR TO ORDERING FIXTURES REFER TO THE LIGH	ITING PLAN FOR THE CORRECT VOLTAGES TO BE UTILIZED FOR THE FIXTURES.		3.8. FOR CARBON OR STAINLESS STEEL BOLTS4. WHEN INSTALLING EXPANSION ANCHORS IN EXISTING CONCRETE, USE CARE AND CALITION	 PATCH ALL TRENCHED AREAS TO MATCH EXISTING. HAND EXCAVATE IN AREAS WHERE TRENCHING IS DIFFICULT DUE TO STRUCTURAL
	M	ECHANICAL EQUIPMENT SCHEDULE	TO AVOID CUTTING OR DAMAGING THE EXISTING REINFORCING BARS. MAINTAIN A MINIMUM CLEARANCE OF ONE-INCH BETWEEN THE EXISTING REINFORCEMENT AND THE EXPANSION ANCHOR.	OBSTRUCTIONS OR EXISTING UNDERGROUND CONDUIT. 13. THE CONTRACTOR SHALL WALK THE SITE WITH THE DISTRICT TO IDENTIFY ALL EXISTING
	DESIG.	TION FLA/MCA/ STARTER/ FUSES/ VOLT PHASE OCPD DUIT HIP/W/		CONDUITS AND PIPES.
	CU-1 CONDENSIN CU-2	Inf/w VFD SIZE SIZE # SIZE JG UNIT 5.7FLA FUSE/DISC. 208 3 NOTE 2 3/4" 4 12 NOTE 3	GENERAL ANCHOR NOTES	COMPACTION OF THE BACKFILL. A SOILS PROFILE SHALL BE DONE OF THE EXCAVATED NATIVE TRENCHED DIRT SO THE COMPACTION TEST CAN BE COMPARED WITH THE NATIVE DIRT PROFILE. THE CONTRACTOR SHALL PROVIDE ALL COMPACTION OF THE TRENCH
	FC-1 FAN CO	DIL 34.2FLA NEMA SIZE 2 1" 6	 1913A.7. IF ANY ANCHOR FAILS TESTING, TEST ALL ANCHORS OF THE SAME TYPE, NOT PREVIOUSLY TESTED UNTIL TWENTY (20) CONSECUTIVE ANCHORS PASS, THEN RESUME THE INITIAL TEST 	REQUIRED TO MEET A 95% COMPACTION REQUIREMENT. AN INSPECTED AND SIGNED OFF COMPACTION TESTING REPORT SHALL BE PROVIDED BY THE SOILS TESTING LAB AND COPY OF THE COMPACTION TEST SHALL BE PROVIDED TO THE ENGINEER OF RECORD/PROJECT
	FC-2	FUSE/DISC./ NEMA SIZE 2	FREQUENCY. IF THE ANCHORS ARE USED FOR THE SUPPORT AND BRACING OF NON-STRUCTURAL COMPONENTS (PIPE, DUCT OR CONDUIT), THE TWENTY (20) SHALL BE ONLY THOSE ANCHORS INSTALLED BY THE SAME TRADE. REFER TO NOTE 8 ON THE TEST	COORDINATOR PRIOR INSTALLING THE HARDSCAPE. THE CONTRACTOR SHALL WILL BE REQUIRED TO PAY FOR ALL TESTS UNTIL THE COMPACTION RESULTS MEET OR EXCEED THE COMPACTION TEST.
			 VALUES TABLE (ATTACHED) FOR ACCEPTAINCE/FAILURE CRITERIA. REGARDLESS OF WHICH TEST METHOD IS CHOSEN BY THE CONSULTANT, TEST VALUES AND ALL APPROPRIATE CRITERIA SHALL BE SHOWN ON THE CONTRACT DOCUMENTS. REFER TO CIVIL AND STRUCTURAL PLANS AND SPECIFICATIONS FOR FURTHER 	 ALL EXISTING PAINTED TRAFFIC LINES, PARKING STALL LINES, ETC. SHALL BE REPAINTED AFTER THE PATCH UP AND REPAIR OF THE HARDSCAPE AREAS TO MATCH THE EXISTING PRIOR TO
	 * = THERMAL RATED SW REFER TO THE PANEL SU INDICATED WITHIN THE 	CHEDULE AND SINGLE LINE DIAGRAM FOR THE CIRCUIT BREAKER AND CONDUIT SIZES, IF NOT SCHEDULE.	REQUIREMENTS.	EXCAVATIONS. 16. ALL TRENCHED AREAS SHALL BE PROTECTED WITH HEAVY STEEL TRAFFIC PLATES TO
	3. GROUNDING CONDUC GENERAL NOTES: 1. COORDINATE LOCATIC 2. PROVIDE DISCONNECT	I'OR SIZE TO MATCH CIRCUIT CONDUCTOR SIZE. NS AND POWER REQUIREMENT FOR MECHANICAL EQUIPMENT WITH MECHANICAL CONTRACTOR. PER NAME PLATE RATING OF MECHANICAL UNITS.		ACCOMMODATE VEHICULAR TRAFFIC WHILE WORK IS UNDERWAY. ALL OPEN TRENCHES SHALL BE SAFEGUARDED AND BARRICADED.



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TITLE: ELECTRICAL NOTES, REQUIREMENTS, LIGHTING & MECHANICAL SCHEDULES



	VOLT/	AGE: 208	3/120V,	3Ø, 4W			BREAK	ER AIC: 3	35,000			\square	VOLT/	AGE: 208	3/120V,	3Ø, 4W	
BUS: 125/				S: 125A	(N) PA	NEL 'G'	MOUN	TING: SU	JRFACE				BUS: 150A				
	MAIN BREAKER: 70A/3P						NEMA	3R ENCL	OSURE				N	1AIN BRE	EAKER: 1	50A/3P	
		L	OAD (V/	4)			LOAD (VA)					L	LOAD (VA)				
CIR #	BKR	PHASE A	PHASE B	PHASE C	DESCRIPTION	DESCRIPTION	PHASE C	PHASE B	PHASE A	BKR	CIR #	CIR #	BKR	PHASE A	PHASE B	PHASE C	
1	20A/1P	240			GEN. BATT. CHARGER	FUEL MAINT. SYSTEM			600	20A/1P	2	1		4107			
3	20A/1P		1250			SPARE		0		20A/1P	4	3	60A/3P		4107		
5	20A/1P			1250	JACKET WATER HEATER	FUEL TANK ALARM PNL	100			20A/1P	6	5	1			4107	
7	20A/1P	44			WALL MOUNTED LIGHTS	SPARE			0	20A/1P	8	7		685			
9	20A/1P		400		SPARE	SPARE		400		20A/1P	10	9	15A/3P		685		
11	20A/1P			180	GEN. GFCI RECEPTACLE	PANEL REC.	180			20A/1P	12	11				685	
13	20A/1P	400			SPARE	SPARE			400	20A/1P	14	13	20A/1P	400			
15	20A/1P		400		Ļ	Ļ		400		20A/1P	16	15	20A/1P		400		
17	20A/1P			400	Ļ	Ļ	400			20A/1P	18	17	15A/1P			168	
19		0			SPACE	SPACE			0		20	19		0			
21	Ļ		0		Ļ	Ļ		0		Ļ	22	21	Ĺ ↑		0		
23	Ļ			0	Ļ	Ļ	0			Ļ	24	23	Ļ			0	
25	Ļ	0			Ļ	Ļ			0	↓	26	25	Ļ	0			
27	Ļ		0		Ļ	Ļ		0		Ļ	28	27	Ļ		0		
29	Ļ			0	Ļ	Ļ	0			Ļ	30	29	Ļ			0	
31	↓	0			Ļ	Ļ			0	Ļ	32	31	Ļ	0			
33	\downarrow		0		Ļ	Ļ		0		Ļ	34	33	Ļ		0		
35	\downarrow			0	Ļ	Ļ	0			Ļ	36	35	Ļ			0	
37	\downarrow	0			Ļ	Ļ			0	Ļ	38	37	Ļ	0			
39	Ļ		0		Ļ	Ļ		0		Ļ	40	39	Ļ		0		
41	\downarrow			0	Ļ	Ļ	0			Ļ	42	41	Ļ			0	
тот	FAL Ø LOA	ADS (VA)	:		PHASE A = 1684	PHASE B = 2850	PHASE	C = 251	0	•		ТО	TAL Ø LOA	ADS (VA)):		
тот	FAL Ø LOA	ADS (A):			PHASE A = 14	PHASE B = 24	PHASE	C = 21				ТО	TAL Ø LOA	ADS (A):			
тот	TAL LOAD	:			7044 VA	20 A						то	TAL LOAD	:			
NO	TE:					•						NC	DTE:				

NC	IE:											
							-				く	
	VOLTA	GE: 208	3/120V,	3Ø, 4W		_	BREAK	ER AIC: 3	35,000			
BUS: 2254					(N) PANEL 'AC-PNL-1'			MOUNTING: SURFACE				
	M	AIN BRE	AKER: 2	00A/3P				1 ENCLO	OSURE			
		L	OAD (V/ I	4) I			L	OAD (V. I	A) T		CID	
#	BKR	PHASE A	PHASE B	PHASE C	DESCRIPTION	SCRIPTION DESCRIPTION		PHASE B	PHASE A	BKR	#	
1		1201							1560	204/20	2	
3	20A/3P		1201		EXISTING LOAD			1560		507921	4	
5				1201]		1560			204/20	6	
7	20A/1P	960			EXISTING LOAD				1560		8	
9			1201					2080		204/20	10	
11	20A/3P			1201	EXISTING LOAD		2080			30A/2P	12	
13		1201				SPARE			0	20A/1P	14	
15	20A/1P		0		SPARE	SPARE		0		20A/1P	16	
17	20A/1P			0	Ļ	Ļ	0			20A/1P	18	
19	20A/1P	300			FIRE SUPRESSION PNL	FACP			200	20A/1P	20	
21	20A/1P		0		SPARE	SPARE		0		20A/1P	22	
23	20A/1P			0	Ļ	Ļ	0			20A/1P	24	
25		0			SPACE	SPACE			0		26	
27	Ļ		0		Ļ	Ļ		0		Ļ	28	
29	Ļ			0	Ļ	Ļ	0			Ļ	30	
31	\downarrow	0			Ļ	Ļ			0	Ļ	32	
33	↓		0		Ļ	Ļ		0		↓	34	
35	↓			0	Ļ	Ļ	0			Ļ	36	
37		3960				↓			0	↓	38	
39	200A/3P		4800		PANEL 'AC-PNL-1B'	Ļ		0		Ļ	40	
41]			4920		Ļ	0			Ļ	42	
то	TAL Ø LOA	DS (VA)	:	•	PHASE A = 10942	PHASE B = 10842	PHASE	C = 109				
то	TAL Ø LOA	DS (A):			PHASE A = 91	PHASE B = 90	PHASE	C = 91				
то	TAL LOAD				32746 VA	91 A						
NC	TE:											

LOAD (VA) HASE PHASE PHASE в 1201 20A/3P 1201 1201 20A/1P 1201 20A/3P 1201 1201 30A/1P 960 20A/1P 960 20A/1P 20A/1P 960 100A/3P 0 0 AL Ø LOADS (VA): AL Ø LOADS (A): AL LOAD:

VOLTAGE: 120/208V, 3Ø, 4W

MAIN BREAKER: 100A/3

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PANEL SHALL HAVE SURGE PROTECTIVE DEVICE.

\square	VOLT/	AGE: 208	3/120V,	3Ø, 4W			BREAK	ER AIC: 3	35,000		
			BU	IS: 225A	(N) PANEL	'AC-PNL-1B'	MOUN	TING: SI	JRFACE		
	N	1AIN BRE	AKER: 2	200A/3P			NEMA 1 ENCLOSURE				
		L	OAD (V.	A)			L	OAD (V	A)	-	
CIR #	BKR	PHASE A	PHASE B	PHASE C	DESCRIPTION	DESCRIPTION	PHASE C	PHASE B	PHASE A	BKR	CIF #
1	20A/1P	0			SPARE	EXISTING LOAD			720	20A/1P	2
3	30A/1P		960		EXISTING LOAD	EXISTING LOAD		960		20A/1P	4
5	20A/1P			960	EXISTING LOAD		1560			204/20	6
7	20A/1P	960			EXISTING LOAD				1560	30Ay 2P	8
9	20A/1P		0		SPARE	EXISTING LOAD		1920		30A/1P	10
11	20A/1P			960	EXISTING LOAD	EXISTING LOAD	720			20A/1P	12
13	20A/1P	0			SPARE	EXISTING LOAD			720	20A/1P	14
15	20A/1P		0		Ļ	EXISTING LOAD		960		20A/1P	16
17	20A/1P			0	Ļ	EXISTING LOAD	720			20A/1P	18
19	20A/1P	0			Ļ	SPARE			0	20A/1P	20
21	20A/1P		0		Ļ	Ļ		0		20A/1P	22
23	20A/1P			0	Ļ	↓	0			20A/1P	24
25		0			SPACE	SPACE			0		26
27	Ļ		0		Ļ	\downarrow		0		Ļ	28
29	Ļ			0	Ļ	↓	0			Ļ	30
31	↓	0			Ļ	Ļ			0	Ļ	32
33	Ļ		0		Ļ	↓		0		Ļ	34
35	Ļ			0	Ļ	Ļ	0			Ļ	36
37	↓	0			Ļ	Ļ			0	Ļ	38
39	Ļ		0		Ļ	Ļ		0		Ļ	40
41	Ļ			0	Ļ	Ļ	0			Ļ	42
тот	ral Ø lo <i>f</i>	NDS (VA)	:		PHASE A = 3960	PHASE B = 4800	PHASE	C = 492	20		
тот	FAL Ø LOA	ADS (A):			PHASE A = 33	PHASE B = 40	PHASE	C = 41			
тот	TAL LOAD	:			13680 VA	38 A					
NO	TE:										
1. F	ANELSH	ALL HA	VE SUR	GE PRO	TECTIVE DEVICE.						
L											

WE	GENE	RA & D
NAME	RATED	WEIG
GENERATOR	125kW	6188
ATS- 'AT1'	400A	1620
ATS- 'AT2'	400A	1620
60KW UPS	-	2552
FUTURE 60KW UPS	-	2552
(ELEC	TRI

WEIGHT & DIMENSIONS SCHEDULE									
NAME	СВ	WEIGHT(Ib)	W	D	н	MOUNTING			
DBEM1	450A	1200	36"	39.03"	91.50"	FREESTANDING			
DBEM2	250A	1200	36"	39.03"	91.50"	FREESTANDING			
PANEL 'G'	70A	164	20"	6.5"	50"	SURFACE			
PANEL 'M'	150A	296	20"	6.5"	50"	SURFACE			
PANEL 'AC-PNL-1'	200A	204	20"	5.75"	68"	SURFACE			
PANEL 'AC-PNL-1B'	200A	150	20"	5.75"	50"	SURFACE			

TR/ DI	ANSFOR MENSIC
NAME	WEIGHT
75kva XFMR 'TX2'	727

(N) P <i>F</i>	NEL 'M'	BREAKER AIC: 35,000 MOUNTING: SURFACE NEMA 3R ENCLOSURE					
DESCRIPTION	DESCRIPTION	PHASE C	DAD (V. PHASE B	a) PHASE A	BKR	C11 #	
-1	FC-2	4107	4107	4107	60A/3P	2	
I-1	CU-2	4107	685	685	15A/3P	8	
		685				12	
ARE			100	400	20A/1P	14	
	HVAC ROOF REC.	1(0	180		20A/1P	16	
ATER PAD FOR CU-T	HEATER PAD FOR CU-2	168			15A/1P	18	
SPACE	SPACE			0	<u> </u>	20	
↓	↓ ↓		0		↓ ↓	22	
↓ ↓	↓ ↓	0			↓ ↓	24	
↓ ↓	↓ ↓			0	↓ ↓	26	
↓	↓ ↓				↓	28	
↓ 	↓ ↓				↓ 	30	
↓ I	↓ ↓				↓ 	32 24	
↓ I	↓ ↓				↓ 	54	
↓ 	↓ ↓				↓ 	20	
↓ 	↓ ↓				↓ 	30	
↓ ↓	↓ ↓		0		↓ ↓	40	
↓ •			C - 002		Ļ	42	
ASE A = 10384	PHASE B = 10164	PHASE	C = 992	0			
ASE A = 86	PHASE B = 85	PHASE	C = 83				
468 VA						\langle	
468 VA (E) PANE	^{85 A}	MOUN	TING: SU	JRFACE			
(E) PANE	^{85 A}	MOUN	ting: sl	JRFACE A)			
468 VA (E) PANE	85 A	MOUN PHASE C	TING: SL OAD (V. PHASE B	JRFACE A) PHASE A	BKR	CII #	
(E) PANE DESCRIPTION	85 A L 'AC-PNL-1' DESCRIPTION SPACE	MOUN PHASE C	TING: SU OAD (V/ PHASE B	JRFACE A) PHASE A	BKR	CII # 41	
468 VA (E) PANE DESCRIPTION SPACE ↓	85 A L 'AC-PNL-1' DESCRIPTION SPACE ↓	MOUN PHASE C	TING: SU OAD (V. PHASE B	JRFACE A) PHASE A	BKR	CIII # 41	
468 VA (E) PANE DESCRIPTION SPACE ↓ ↓	85 A L 'AC-PNL-1' DESCRIPTION SPACE ↓ ↓	MOUN PHASE C	TING: SL DAD (V/ PHASE B	JRFACE A) PHASE A	BKR ↓	CII # 41 39 37	
468 VA (E) PANE DESCRIPTION SPACE ↓ ↓	85 A L 'AC-PNL-1' DESCRIPTION SPACE ↓ ↓	MOUN PHASE C	TING: SL OAD (V PHASE B	JRFACE A) PHASE A 1560	BKR ↓ ↓	CIII # 41 39 37 35	
468 VA (E) PANE DESCRIPTION SPACE ↓ ↓ STING LOAD	85 A L 'AC-PNL-1' DESCRIPTION SPACE ↓ ↓ EXISTING LOAD	MOUN PHASE C	TING: SU OAD (V/ PHASE B 1560	JRFACE A) PHASE A 1560	BKR ↓ ↓ 30A/2P	CIII # 41 39 37 35 33	
(E) PANE DESCRIPTION SPACE ↓ ↓	85 A L 'AC-PNL-1' DESCRIPTION SPACE ↓ ↓ EXISTING LOAD	MOUN PHASE C	TING: SL OAD (V. PHASE B 1560	JRFACE A) PHASE A 1560	BKR ↓ ↓ 30A/2P	CIII # 41 39 37 35 33 31	
468 VA (E) PANE DESCRIPTION SPACE ↓ ISTING LOAD	85 A L 'AC-PNL-1' DESCRIPTION SPACE ↓ ↓ EXISTING LOAD EXISTING LOAD	MOUN PHASE C	TING: SU OAD (V/ PHASE B 1560	JRFACE A) PHASE A 1560	BKR ↓ ↓ 30A/2P 30A/2P	CIII # 41 37 37 35 33 31 29	
468 VA (E) PANE DESCRIPTION SPACE ↓ ↓ STING LOAD	85 A L 'AC-PNL-1' DESCRIPTION SPACE ↓ EXISTING LOAD EXISTING LOAD	MOUN PHASE C	TING: SL DAD (V. PHASE B 1560 2080	JRFACE A) PHASE A 1560 1560	BKR ↓ ↓ 30A/2P 30A/2P	CIII # 41 39 37 35 33 31 29 27	
468 VA (E) PANE DESCRIPTION SPACE ↓ ↓ ISTING LOAD ISTING LOAD	85 A L 'AC-PNL-1' DESCRIPTION SPACE ↓ EXISTING LOAD EXISTING LOAD EXISTING LOAD	MOUN PHASE C 1560	TING: SU OAD (V/ PHASE B 1560 2080	JRFACE A) PHASE A 1560 1560	BKR ↓ ↓ 30A/2P 30A/2P	CIII # 41 39 37 35 33 31 29 27 25	
468 VA (E) PANE DESCRIPTION SPACE ↓ ISTING LOAD ISTING LOAD	85 A L 'AC-PNL-1' DESCRIPTION SPACE ↓ EXISTING LOAD EXISTING LOAD EXISTING LOAD EXISTING LOAD	MOUN PHASE C 1 1560 2080	TING: SL DAD (V/ PHASE B 1560 2080	JRFACE A) PHASE A 1560 1560 720	BKR ↓ ↓ 30A/2P 30A/2P 30A/2P 20A/1P	CIII # 411 399 377 355 333 311 299 277 255 233	
468 VA (E) PANE DESCRIPTION SPACE ↓ STING LOAD ISTING LOAD ISTING LOAD	85 A L 'AC-PNL-1' DESCRIPTION DESCRIPTION SPACE ↓ EXISTING LOAD EXISTING LOAD EXISTING LOAD EXISTING LOAD EXISTING LOAD	MOUN PHASE C 1560 2080	TING: SL OAD (V. PHASE B 1560 2080 960	JRFACE A) PHASE A 1560 1560 720	BKR ↓ ↓ 30A/2P 30A/2P 30A/2P 20A/1P 20A/1P	CIII # 41 39 37 35 33 31 29 27 25 23 21	
468 VA (E) PANE DESCRIPTION SPACE ↓ ISTING LOAD ISTING LOAD ISTING LOAD ISTING LOAD	85 A L 'AC-PNL-1' DESCRIPTION SPACE ↓ EXISTING LOAD EXISTING LOAD EXISTING LOAD EXISTING LOAD EXISTING LOAD EXISTING LOAD	MOUN PHASE C 1560 2080	TING: SL DAD (V/ PHASE B 1560 2080 960	JRFACE A) PHASE A 1560 1560 720	BKR ↓ ↓ 30A/2P 30A/2P 30A/2P 20A/1P 20A/1P	CIII # 41 39 37 35 33 31 29 27 25 23 21 19	
468 VA (E) PANE DESCRIPTION SPACE ↓ STING LOAD ISTING LOAD ISTING LOAD ISTING LOAD ISTING LOAD ISTING LOAD	B5 A L'AC-PNL-1' DESCRIPTION DESCRIPTION SPACE ↓ EXISTING LOAD EXISTING LOAD EXISTING LOAD EXISTING LOAD EXISTING LOAD EXISTING LOAD EXISTING LOAD	MOUN PHASE C 1 1560 2080 1560	TING: SL OAD (V. PHASE B 1560 2080 960	JRFACE A) PHASE A 1560 1560 720 1560	BKR ↓ ↓ 30A/2P 30A/2P 30A/2P 20A/1P 20A/1P 30A/2P	CIII # 411 39 33 33 31 29 27 25 23 21 19 17	
468 VA (E) PANE DESCRIPTION SPACE ↓ STING LOAD STING LOAD STING LOAD STING LOAD STING LOAD STING LOAD STING LOAD STING LOAD STING LOAD	85 A L 'AC-PNL-1' DESCRIPTION SPACE ↓ EXISTING LOAD EXISTING LOAD EXISTING LOAD EXISTING LOAD EXISTING LOAD EXISTING LOAD EXISTING LOAD EXISTING LOAD EXISTING LOAD	MOUN PHASE C 1560 2080 1560	TING: SU OAD (V/ PHASE B 1560 2080 960 1920	JRFACE A) PHASE A 1560 1560 720 1560	BKR ↓ ↓ 30A/2P 30A/2P 30A/2P 20A/1P 30A/2P 30A/2P 30A/1P	CIII # 41 39 37 35 33 31 29 27 29 23 21 19 17 15	
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468 VA (E) PANE DESCRIPTION SPACE ↓ ↓ ISTING LOAD ISTING LOAD ISTING LOAD ISTING LOAD ISTING LOAD ISTING LOAD ISTING LOAD ISTING LOAD	85 A L'AC-PNL-1' DESCRIPTION SPACE ↓ EXISTING LOAD	MOUN MOUN PHASE C 1 1 1 1 1 2 0 1 1 5 6 1 1 5 6 1 1 5 6 1 1 5 6 1 1 5 6 1 1 5 6 1 1 5 6 1 1 5 6 1 1 5 6 1 1 5 6 1 1 5 6 1 1 5 6 1 1 5 6 1 1 5 6 1 1 5 6 1 1 5 6 1 1 5 6 1 1 5 6 1 1 5 6 1 1 5 6 1 1 5 6 1 1 5 6 1 1 5 6 1 1 5 6 1 1 5 6 1 1 5 6 1 1 5 6 1 1 5 6 1 1 5 6 1 1 5 6 1 1 5 6 1 5 6 1 5 6 1 5 6 1 5 6 1 5 6 1 5 6 1 5 6 1 5 6 1 5 6 1 5 6 1 5 6 1 5 6 1 5 6 1 5 6 1 5 6 1 5 6 1 5 6 1 5 6 1 5 6 1 5 6 1 5 6 1 5 6 1 5 6 1 5 6 1 5 6 1 5 6 1 5 6 1 5 6 1 5 6 1 5 6 1 5 6 1 5 6 1 5 6 1 5 6 1 5 6 1 5 6 1 5 6 1 5 6 1 5 6 1 5 6 1 5 1 5 6 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 5 1 5 5 5 5 5 5 5 5 5 5 5 5 5	TING: SL OAD (V. PHASE B 1560 2080 960 1920	JRFACE A) PHASE A 1560 1560 720 1560 1560	BKR ↓ ↓ 30A/2P 30A/2P 30A/2P 20A/1P 20A/1P 30A/2P 30A/2P	CIII # 41 39 35 33 31 29 25 25 21 19 15 11 11 11	
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468 VA (E) PANE DESCRIPTION SPACE ↓ ISTING LOAD ISTING LOAD	85 A L'AC-PNL-1' DESCRIPTION DESCRIPTION \$PACE ↓ EXISTING LOAD	MOUN MOUN PHASE C 1 1560 2080 1 1560 1 1560 1 1 1 1 1 1 1 1 1 1 1 1 1	TING: SL DAD (V, PHASE B 1560 2080 2080 960 1920 1920	JRFACE A) PHASE A 1560 1560 720 1560 720	BKR ↓ ↓ 30A/2P 30A/2P 30A/2P 20A/1P 20A/1P 20A/1P 20A/1P 20A/1P 20A/1P	CIII # 411 39 37 35 33 31 29 27 25 23 21 19 17 15 13 11 19 17 15 13 11 9 7	
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468 VA (E) PANE DESCRIPTION SPACE ↓ ISTING LOAD ISTING LOAD	85 A L'AC-PNL-1' DESCRIPTION SPACE ↓ EXISTING LOAD	MOUN MOUN PHASE C 1 1560 2080 1 1560 1 1560 1 1 1 1 1 1 1 1 1 1 1 1 1	TING: SL DAD (V/ PHASE B 1560 2080 2080 960 1920 960 960	JRFACE A) PHASE A 1560 1560 720 1560 720 720	BKR ↓ ↓ 30A/2P 30A/2P 30A/2P 20A/1P 20A/1P 20A/1P 20A/1P 20A/1P 20A/1P	CIII # 41 39 37 35 33 31 29 27 25 23 21 19 17 15 13 11 19 7 5 3	
468 VA	85 A L'AC-PNL-1' DESCRIPTION SPACE ↓ EXISTING LOAD	MOUN MOUN PHASE C 1 1 1 2 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 0 1 1 0 0 1 1 0 0 1 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0	TING: SL DAD (V. PHASE B 1560 2080 2080 960 1920 960 960	JRFACE A) PHASE A 1560 1560 1560 1560 1560 1560 720 1560	BKR ↓ ↓ 30A/2P 30A/2P 30A/2P 20A/1P 20A/1P 20A/1P 20A/1P 20A/1P 20A/1P	CIII # 41 37 35 33 31 29 27 25 23 21 19 17 15 13 11 19 7 5 3 3 2 7 25 23 21 19 7 5 3 3 1 29 27 25 23 21 19 7 7 5 3 3 3 3 3 3 1 29 27 25 23 21 21 2 5 23 21 21 2 5 23 21 21 2 5 23 21 21 2 5 23 21 21 2 5 23 21 2 5 23 21 2 5 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	
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468 VA (E) PANE DESCRIPTION SPACE ↓ ISTING LOAD ISTING LOAD	85 A L'AC-PNL-1' DESCRIPTION DESCRIPTION SPACE \downarrow EXISTING LOAD	MOUN MOUN PHASE C 1 1 1 2 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0	TING: SL DAD (V. PHASE B 1560 2080 2080 960 960 960 960 0 0 0 C = 100 C = 83	JRFACE A) PHASE A 1560 1560 1560 1560 720 1560 720 1560 0	BKR ↓ ↓ 30A/2P 30A/2P 30A/2P 20A/1P 20A/1P 20A/1P 20A/1P 20A/1P 20A/1P	CIII # 411 399 335 331 299 277 255 233 311 299 277 255 233 211 199 177 159 131 111 99 77 5 33 21	

ATOR, ATS, AND UPS DIMENSIONS SCHEDULE

GHT(Lb)	W	D	Н	MOUNTING
3	134"	60"	82"	FREESTANDING
)	49.12"	36.66"	95.2"	FREESTANDING
)	49.12"	36.66"	95.2"	FREESTANDING
2	59.86"	33.34"	58.46"	FREESTANDING
2	59.86"	33.34"	58.46"	FREESTANDING

CAL DISTRIBUTION

RMER WEIGHT & ONS SCHEDULE

HT(LBS)	Н	Ŵ	D
27	33.5"	30.06"	27.43"



- DISCONNECT AND REMOVE EXISTING PANEL 'AC-PNL-1' AND REPLACE WITH THE NEW 'AC-PNL-1'
- PROVIDE AND INSTALL EATON 208V, 3Ø, 400A, NEMA 3R HEAVY DUTY
- 8. DISCONNECT AND REMOVE THE EXISTING UPS SWITCH DISCONNECT
- 9. DISCONNECT AND REMOVE THE EXISTING CIRCUIT BREAKER AND AND INSTALL NEW INDICATED CIRCUIT BREAKER AT THE SECONDARY

AND CONSENT OF BORRELLI AND ASSOCIATES, INC. AND ITS SUBSIDIARY COMPANIES. IN THE EVENT OF AN UNAUTHORIZED REUSE OF THESE PLANS BY A THIRD PARTY, THE THIRD PARTY SHALL HOLD THE FIRM OF BORRELLI AND ASSOCIATES, INC. AND ITS SUBSIDIARY COMPANIES HARMLESS AND SHALL BEAR THE COST OF BORRELLI AND ASSOCIATES, INC. AND ITS SUBSIDIARY COMPANIES LEGAL FEES ASSOCIATED WITH DEFENDING AND ENFORCING THESE RIGHTS.

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KIFORN

PROJECT.

http://www.borrelliengineering.com/

ca-bai@borrelliengineering.com

BAI# 20141

APPROVALS:



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Borrelli & Associates, Inc Consulting Electrical Engineers 2032 N. Gateway Boulevard Fresno, CA. 93727 Phone: 559-233-4138 http://www.borrelliengineering.com/ ca-bai@borrelliengineering.com BAI# 20141

، م ELECTRICAL AND FIRE ALARM SITE PLAN SHEET: PROJECT. G:\Educational\MaderaUSD\DistrictOffice\BackupGenerator\20141E2-01.dwg, 6/23/2022 11:27:22 AM, ARCH full bleed D (24.00 x 36.00 Inches)







SHEET NOTES (#)

2. DISCONNECT AND REMOVE THE EXISTING 4,000 POUND UPS AND

CONDUCTORS BACK TO SOURCE.

INSTALL NEW UPS INDICATED.

LINE DIAGRAM ON SHEET E1.03.

SHEET E1.03.

ATTACHMENT.

DISCONNECT AND REMOVE THE EXISTING UPS SWITCH DISCONNECT AND ASSOCIATED ELECTRICAL DEVICES. PULL ALL CONDUIT AND

ASSOCIATED BATTERY CABINETS AND REMOVE FROM SITE. PULL ALL CONDUIT AND CONDUCTORS BACK TO SOURCE. PROVIDE AND

3. EXISTING PANEL-STYLE J-BOX. REFER TO THE SINGLE LINE DIAGRAM ON

4. EXISTING PANEL 'AC-PNL-1'. DISCONNECT AND REMOVE EXISTING

5. EXISTING PREVIOUS DATA RACK, NOT USED. DATA RACK TO BE

6. PROVIDE AND INSTALL 2-1/2-INCH CONDUIT FOR THE FUTURE UPS BACK TO THE DISTRIBUTION BOARD 'DBEM2'. REFER TO THE SINGLE

7. ROUTE CIRCUITS FOR FAN COIL THROUGH DISCONNECTS. MOUNT

8. REFER TO MECHANICAL DRAWINGS DETAIL G/M4 FOR METHOD OF

9. PROVIDE AND INSTALL NEW PLACARDS TO READ "LINE SIDE UPS

DISCONNECT" AND "LOAD SIDE UPS DISCONNECT" INSTALL PLACARD

CONDUCTORS. PROVIDE AND INSTALL NEW BRANCH CIRCUIT WIRING TO PANEL AND CIRCUIT INDICATED. EXISTING LIGHTING TO BE ON THE

10. PROVIDE AND INSTALL DISCONNECT BELOW THE EXISTING RACEWAY.

11. DISCONNECT THE EXISTING BRANCH CIRCUIT WIRING AND CAP OFF

12. PROVIDE AND INSTALL (3) #12 AWG CONDUCTORS WITHIN A 3/4"

13. EXISTING ABANDONED HIGH HEAT ALARM PUSH BUTTON.

CONDUIT BACK TO PANEL INDICATED TO POWER THE NEW FIRE

DISCONNECTS BELOW EXISTING SURFACE RACEWAY.

PANEL 'AC-PNL-1' AND REPLACE WITH NEW 'AC-PNL-1'.

REMOVED. COORDINATE WITH THE DISTRICT.

ABOVE THEIR RESPECTIVE DISCONNECTS.

EMERGENCY ELECTRICAL SYSTEM.

SUPPRESSION CONTROL PANEL.

Borrelli & Associates, Inc. Consulting Electrical Engineers 2032 N. Gateway Boulevard Fresno, CA. 93727 Phone: 559-233-4138 http://www.borrelliengineering.com/ ca-bai@borrelliengineering.com BAI# 20141









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		FIRF AI AR			
	SYMBOI			CSFM LISTING	
		FIRE ALARM CONTROL PANEL (FACP)	NOMBER NOTIFIER #NFW-100X	NUMBER 7165-0028:505	
	ANN		NOTIFIER #N-ANN-80-W	7120-0028:240	
		SMOKE DETECTOR - SPOT TYPE	NOTIFIER #FSP-851		
The Discrete Process of the Pro		190°F FIXED HEAT DETECTOR	NOTIFIER #FST-851H		
		190° LINEAR HEAT DETECTOR	PROTECTOWIRE #PHSC-190-EPC	7270-0854:101	PROFESSIONA
	ММ	MONITOR MODULE	NOTIFIER #FMM-1	7300-0028:219	W. CARLO
	RM	RELAY MODULE	NOTIFIER #FRM-1	7300-0028:219	
	HZ	MANUAL PULL STATION	NOTIFIER #NBG-12LX	7150-0028:199	Exp. 6-30-22
	HZP	MULTI-CANDELA HORN/STROBE - WALL MOUNTED	WHEELOCK #LHSR3	7135-0785:501	OF CALIFORN
	HS I	MULTI-CANDELA HORN/STROBE - CEILING MOUNTED	WHEELOCK #LHSRC3	7135-0785:501	DATE:05-14-21
CAURE LICENSE Convergence Converg	R	END OF LINE RESISTOR 3.9KΩ	VARIOUS	N/A	
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FIRE ALARM FLOOR PLAN AND SYSTEM INFORMATION



Borrelli & Associates, Inc. Consulting Electrical Engineers 2032 N. Gateway Boulevard Fresno, CA. 93727 Phone: 559-233-4138 http://www.borrelliengineering.com/ ca-bai@borrelliengineering.com BAI# 20141

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AV15	AV75C	-	-	-	-	-	-	-	-
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12	12	12	12	12	12	12	12	12	12
48.000	19.000	25.000	31.000	43.000	19.000	34.000	24.000	30.000	14.000
0.034	0.169	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.203	0.169	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.038	0.013	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
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=	325.00	Ft	Symbol	Model	Descriptio	n	K=12.9, L=D	Dist. in ft., l=	Current
=	0.05	Volts	AV15	LHSR3	Horn/Strobe	2	Wiro Sizo		Circular
=	20.4	Volts	AV30	LHSR3	Horn/Strobe	9	wire size	///////	Mils
=	0.25	%	AV75	LHSR3	Horn/Strobe	5	10	1.018	10380
=	21.32	%	AV110	LHSR3	Horn/Strobe	2	12	1.59	6530

Device Type: FACP		Amo	ount	Supv. I	Supv. I _T	Alarm I	Alarm I_T
Fire Alarm Control Panel		1	1	0.1910	0.1910	0.3070	0.3070
Remote Annunciator		1	1	0.0400	0.0400	0.0400	0.0400
Pull station		+	2	0.0004	0.0008	0.0050	0.0100
Smoke Detector		1	4	0.0004	0.0014	0.0069	0.0274
Hattic Heat Detector			4	0.0003	0.0012	0.0068	0.0272
Relay Module			2	0.0004	0.0008	0.0004	0.0008
Monitor Module			1	0.0003	0.0003	0.0051	0.0051
15cd Wall Horn & Strobe	AV15	1	1	0.0000	0.0000	0.0340	0.0340
30cd Wall Horn & Strobe	AV30	0	0	0.0000	0.0000	0.0460	0.0000
75cd WallHorn & Strobe	AV75	0	0	0.0000	0.0000	0.1050	0.0000
15cd Ceiling Horn & Strobe	AV15C	0	0	0.0000	0.0000	0.0440	0.0000
30cd Ceiling Horn & Strobe	AV30C	0	0	0.0000	0.0000	0.0610	0.0000
75cd Ceiling Horn & Strobe	AV75C	1	1	0.0000	0.0000	0.1690	0.1690
Totals					0.2354		0.6205
Minimun runtime on batteries				24	HRS	15.0000	MIN.
Subtotal battery standby (Amp-Ho	urs)				5.6498		0.1551
Total battery standby (Amp-Hours)						5.8050
125% Safety Factor							125.00%
Minimum Capacity (Amp-Hours)							7.2562
Battery Size (Amp-Hours)							

M34846 Exp. 6-30-22 DATE: _____05-14-21 DISTRIC -65243 20 # CDS SCHOOL MADERA UNIFIED SERVER ROOM 1902 HOWARD ROAD MADERA, CA. 93637 U P A 93720 31-1362 431 431 U o ' К ^ن Z ШZ Π ΓŢ ► [1] ³ ≥ [™]Z Η J ◀ E N 7084 N. TITLE: FIRE ALARM CALCULATIONS, VOLTAGE DROPS, AND DETAILS SHEET: E3.04

APPROVALS:

APPLICATION #

XX Borrelli & Associates, Inc. Consulting Electrical Engineers 2032 N. Gateway Boulevard Fresno, CA. 93727 Phone: 559-233-4138 http://www.borrelliengineering.com/ ca-bai@borrelliengineering.com BAI# 20141



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PROJECT ____



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APPROVALS:





APPROVALS:

RESERVES ITS COMMON LAW COPYRIGHT AND OTHER APPLICABLE PROPERTY RIGHTS IN THESE PLANS. THESE PLANS ARE NOT TO BE REPRODUCED, CHANGED, OR COPIED IN ANY FORM OR MANNER WHATSOEVER, NOR ARE THEY TO BE ASSIGNED TO A THIRD PARTY WITHOUT FIRST OBTAINING THE WRITTEN PERMISSION AND CONSENT OF BORRELLI AND ASSOCIATES, INC. AND ITS SUBSIDIARY COMPANIES. IN THE EVENT OF AN UNAUTHORIZED REUSE OF THESE PLANS BY A THIRD PARTY, THE THIRD PARTY SHALL HOLD THE FIRM OF BORRELLI AND ASSOCIATES, INC. AND ITS SUBSIDIARY COMPANIES HARMLESS AND SHALL BEAR THE COST OF BORRELLI AND ASSOCIATES, INC. AND ITS SUBSIDIARY COMPANIES LEGAL FEES ASSOCIATED WITH DEFENDING AND ENFORCING THESE RIGHTS.

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APPROVALS:

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STATE OF CALIFORNIA **Outdoor Lighting** NRCC-LTO-E (Created 11/19) CERTIFICATE OF COMPLIA Project Name: Madera Project Address: 1902 H

G. CUTOFF REQUIREM This Section Does Not Apply

H. OUTDOOR LIGHTING CONTROLS

Mandatory Controls

allowance calculations pe is per <u>Table 140.7-A</u> while Table 140.7-B. Indicate w expand sections for user the "Use it or lose it" allo it or lose it" allowance. Table Continued

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

STATE OF CALIFORNIA Outdoor Lighting NRCC-LTO-E (Created 11/19) CERTIFICATE OF COMPLIA Project Name: Madera Project Address: 1902 Ho

> 02 Area Description HARDSCAPE

J. LIGHTING ALLOWAN This Section Does Not App

K. LIGHTING ALLOWAN This Section Does Not App

L. LIGHTING ALLOWAN This Section Does Not Ap

M. LIGHTING ALLOWA This Section Does Not App

N. EXISTING CONDITIC This Section Does Not Apply

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

		CALIFORNIA ENERGY COMMISSI19
ANCE		NRCC-LTO-E
a Unified School District Server Room	Report Page:	Page 3 of 6
oward Road Madera, CA. 93637	Date Prepared:	6-17-2021
IENTS (BUG)		2

Table Instructions: Complete this table demonstrating compliance with controls requirements for all new or altered luminaires installed as part of the permit application. For alteration projects, luminaires which are existing to remain (ie untouched) and luminaires which are removed and reinstalled (wiring only) do not need to be included in this table even if they are within the spaces covered by the permit application.

When an option having a * is selected, the notes section of this table must be completed. The lighting controls section of the Compliance Summary Table on the first page will show "DOES NOT COMPLY" if the notes are left blank. For each requirement in columns 02 through 04, do not leave the field blank, instead select NA or Exempt* from the dropdown list to indicate not applicable or an exemption.

Mandatory Controls											
01	02		03				04	l	05)5
Area Description			Auto-Schedule		Motion Sensor				Field Inspect		
· · · · · · · · · · · · · · · · · · ·	<u>9150.2(C)1</u>			<u>9150.2(c)2</u>			9150.2	2(0)5		Pass	Fail
HARDSCAPE	Photocontrol			Yes	•	E	Exemp	t *	-		
*NOTES: Controls with a * require a n EX: Not permitted by health & safety i	ote in the space below explain to be turned off; EXCEPTION 1	ning ho to <u>§13</u>	ow compliance 3 <u>0.2(c)</u> .	is achieved.							
HARDSCAPE	.2(c)3: nsing o	Luminaires wi ontrols	th a maximum rated v	wattage	of 40 watts ea	ach are	e not				
P					Reset		Add Row		Remo	ve Last	
I. LIGHTING POWER ALLOWANCE	(per <u>§140.7</u>)										(
Table Instructions: Please complete th	is table for areas using the	01									
allowance calculations per <u>§140.7</u> . G	eneral Hardscape Allowance		2 1.0	"[Jse it or	lose it" Allowa	ances	(select all that a	apply)	
is per <u>Table 140.7-A</u> while "Use it or lost it" Allowances are per <u>Table 140.7-B</u> . Indicate which allowances are being used to expand sections for user input. Luminaires that qualify for one of the "Use it or lose it" allowances shall not qualify for another "Use it or lose it" allowance.			General Hardscape Allowance	Per Application	Sa	ales Frontage		Ornamental		Per Spe	cific Area
			Table I (below) Table J			Table K Table L		Table M			
Calculated General Hardscape Lighting Power Allowance per <u>Table 140.7-A</u> (LZ 2 & 3)											
The second secon											

CALFORNIA ENERGY COM Report Page: Junified School District Server Room Report Page: Joate Prepared: Voltation of the School District Server Room Joate Prepared: Voltation of the School District Server Room Joate Prepared: Voltation of the School District Server Room Joate Prepared: Voltation of the School District Server Room Joate Prepared: Voltation of the School District Server Room Joate Prepared: Voltation of the School District Server Room Allowance (AWA) Linear Wattage Allowance (LWA) Inter Voltage Allowance (LWA) Inter Voltage Allowance (LWA) Voltation of the Voltage Allowance (LWA) Voltation of the Voltage Allowance (LWA) Inter Voltage Allowance (LWA) Inter Voltage Allowance (LWA) Inter Voltage Allowance (LWA) Inter Voltage Allowance (WA) Voltation of Voltage Allowance (the Voltage Allowance (the Voltage Allowance for Entre Site (Watts): Inter Voltation of Voltage Allowance for Entre Site (Watts): Voltation of Voltage Allowance for Entre Site (Watts): Voltation of Volt	AMISSI19 NRCC-LTO-E Page 4 of 6 6-17-2021 10 Total General AWA + LWA (Watts) 52.51 0
ANCE Unified School District Server Room Unified School District Server Room Date Prepared: Date	NRCC-LTO-E Page 4 of 6 6-17-2021 10 Total General AWA + LWA (Watts) 52.51 0
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DNS POWER ALLOWANCE (alterations only)	

STATE OF CALIFORNIA **Outdoor Lighting** NRCC-LTO-E (Created 11/19) CERTIFICATE OF COMPLIANCE This document is used to demonstrate compliance w Project Name: Madera Unified School District Ser Project Address: 1902 Howard Road Madera, CA. 9 A. GENERAL INFORMATION 01 Project Location (city) 02 Climate Zone 03 Outdoor Lighting Zone per <u>Title 24, Part 1 §10</u>] LZ-0: Very Low - Undeveloped Parkland 📃 LZ-1: Low - Developed Parkland ✓ LZ-**B. PROJECT SCOPE** Table Instructions: Include any outdoor lighting syst outlined in <u>§140.7</u> or <u>§141.0(b)2L</u> for alterations. My project consists of: 01 New Lighting System Altered Lighting System 03 % of Existing Luminaires Being Altered¹ Please proceed to Table F. Outdoor Lighting Fixtur ¹ FOOTNOTES: % of Existing Luminaires Being Altere C. COMPLIANCE RESULTS Table Instructions: If any cell on this table says "DOI Calculation of Total Allowed Lightin 01 02 03 General Per Sales

A Building Energy	Efficiency Standards - 2019 Nonreside
ATE OF CALIFORNIA	A
utdoor Lig	hting
CC-LTO-E (Created	11/19)
RTIFICATE OF C	COMPLIANCE
oject Name:	Madera Unified School District Se
oject Address:	1902 Howard Road Madera, CA. 9

Application + Frontage

§140.7(d)2

<u>§140.7(d)2</u>

(See Table I) (See Table J) (See Table K)

E. ADDITIONAL REMARKS

Hardscape

Allowance

§140.7(d)1

52.51

November 2019

F. OUTDOOR LIGHTING FIXTURE SCHEDULE Table Instructions: For new or altered lighting syste existing luminaires remaining or being moved with method per <u>§141.0(b)2L</u> (ie Table N has expanded f (ie, do not include existing luminaires remaining or

Designed \	Nattage:		
01	02		12 T
Name or Item Tag	Complete Luminaire D	Description	۱ اu
E	2,647 Lumens LED	Linear	
			0

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

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November 2019

										CALIFORNI		
										CALIFORNI		RCC-LTO-E
vii	th requirement	s in	§110.9, §130.	0, §	130.2, §140.7,	an	d §141.0(b)2	L for ou	ıtdo	or lighting scopes us	ing the prescript	ive path.
rv	er Room				Rep	ort	Page:					Page 1 of 6
36	637				Dat	e Pr	repared:					6-17-2021
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	Made						I FI		10	.21	806.4	
	12	era			04 Total IIIu	min	lated Hardso	ape Are	ea (T	[*]	890.4	
-114 or as designated by Authority Having Jurisdiction (A						AHJ):		<u> </u>		۲ ۸		
2. Nouerate - Rural Areas				lust be revie	wea by	CAI	Energy Commission	for Approval				
S. MOUCHALENY FIGH - UTUATI ALEAS												
												2
e	ms that are wit	thin	the scope of t	he p	permit applica	tion	and are der	nonstra	ting	compliance using th	e prescriptive po	rth
02												
Must Comply with Allowances from <u>§140.7</u> .												
Is your alteration increasing the connected lighting los					ad (Watts)?			💽 Yes	🔘 No			
			04		20					05		
	Sum Total o	f Lu	iminaires Bein	g Ad	ded or Altered	d				Calculation Metho	od	
e	Schedule to de	fin	e the project's	lun	ninaires.							
d	= (Sum Total o	fLι	ıminaires Bein	g Ad	dded or Altered	d / E	Existing Lum	inaires v	with.	in the Scope of the F	ermit Applicatio	n) x 100
												2
ES	NOT COMPLY	" or	"COMPLIES w	ith	Exceptional Co	ndi	tions" refer t	o Table	D. f	for quidance.		
Ig	Power (Watts) <u>§</u> 1	40.7 or §141.	D(b)	2L					Compliance Resul	ts	
_	04		05		06		07			08	09	ŝ
F	Ornamental <u>§140.7(d)2</u>	+	Per Specific Area <u>§140.7(d)2</u>	OR	Existing Power <u>§141.0(b)2L</u>	I	Total Allo (Watts	wed	≥	Total Actual (Watts)	07 Must be	≥08
	(See Table L)		(See Table M)		(See Table N)					(See Table F)		
E		+		OR		=	52.51		≥	44	COMPLI	ES
	Cutof	f Co	ompliance (Se	e Ta	ble G for Deta	ils)				Not Applicable		
	Control	s Co	ompliance (Se	e Ta	ble H for Deta	ils)		CON	MPLI	IES with Exceptiona	Conditions	

CA Building	Energy Efficiency Standar	ds - 2019 Nonre	esidential Comp	liance: <u>http://www</u> .	.energy.ca.gov/	title24/2019sta	andards				Novemb	oer 201
STATE OF CAL	IFORNIA Ir Lighting											
NRCC-LTO-E (Created 11/19)									CALIFORNIA ENERGY COI	VMISSI19	I HINT COTTAN
CERTIFICAT	TE OF COMPLIANCE										NRC	C-LTO
Project Nar	me: Madera Unified	School Distric	t Server Room			Report	t Page:				Pa	ge 2 of
Project Add	dress: 1902 Howard Ro	oad Madera, C	A. 93637			Date P	repared:				6-	17-20
D. EXCEPT	TIONAL CONDITIONS											
This table i	is auto-filled with unedi	table commer	nts because of	selections made c	or data entere	d in tables thi	roughout	the form.				
Table H. O HARDSC Selections	utdoor Lighting Control APE: EXCEPTION 1 to Se made in Table O have b	s Permit Appli ection 130.2(c been changed	icant Notes:)3: Luminaires by the permit	with a maximum applicant. See Ta	rated wattage ble E. Additio	e of 40 watts nal Remarks 1	each are for permi	not requir t applicant	ed to have mot 's explanation.	ion sensing controls		
E. ADDITI	ONAL REMARKS	and and address	Alle as in Solar	er 10 and 24 km 10 an a 10 km 10 a	de 10 Anton such							
This table i	includes remarks made	by the permit	applicant to th	he Authority Havir	ng Jurisdiction	•						
			G									6
F. OUTDO			E		1.1.64.40							
rable instr	uctions: For new or alte	erea lighting sj poing moved w	ystems aemon. uithin the space	strating compilan	nce with <u>9140.</u> Dermit applic	(le Table I n	as expan	aea for inp wFor alta	ut), incluae all li rod lighting cus	iminaires being inst toms using the Evisti	ing Pow	a any or
method ne	er 8141 0(b)21 (ie Table	N has expand	ed for input) i	nclude only new li	uminaires beir	na installed a	nd renlac	ement lum	inaires heina in:	stalled as part of the	ng i own nroiect	scope
lie. do not	include existing luming	ires remaining	a or existina lui	minaires beina ma	oved).	ig nistanea a	na replac	enteriertent	indireo bering inc	italica do part of the	project	Jeope
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. Internet of the					Total			Excluded		Cutoff Req. ≥	Field In	snact
Name or	Complete Luminaire	Description	Watts per	How Wattage is	number	Luminaire	Status³	per	Design Watts	6,200 initial lumen		эреси
Item Tag			luminaire ^{1,2}	determined	luminaires ²			§140.7(a)	_	output		F - 1
							_			<u>913U.2(b)</u> *	Pass	Fall
E	2,647 Lumens LED	Linear	22	Mfr. Spec'	2	New			44	NA: <6,200 lume		
		• • • • • • • • • • • • • • • • • • •	1			10	tal Desigi	ned Watts:	44			
* NOTES: S	selections with a * requ	Ire a note in t	he space below	w explaining how	compliance is	achieved.						
EA. LUMING	alle is lighting a statue,	EACEPTION 2	10 <u>9150.2[b]</u> .					Î	Depat	Add Davy	Dama	un lan
15007100					<i>c</i> .		1.	640	Keset	Add KOW	Remo	ve Las
² FOOINOI	IES: Authority Having Ju	urisdiction ma	y ask for Lumir	naire cut sheets to	o confirm watt	age used for	complian	ce per <u>913</u>	<u>U.U(C)</u>	l in column OF insta	-	unhau .
- For linear	r luminaires, wattage sr	iouia pe maici	atea as w/ŋ m	stead of watts/iu	minaire. Tota	n nnear jeet j	or the lur	ninaire sho	ula de maicateo	i in column 05 instea		mber c
³ Select "N	Iew" for new luminaires	in a new out	loor lighting n	roject or for adde	d luminaires ir	an alteratio	n Select	"Altorod" f	or replacement	luminaires in an alte	eration	Solor
"Evisting to	o Remain" for evisting l	uminaires wit	hin the project	scope that are po	a lammanes n at heina altere	d and are ren	n. Select nainina	Select "Evi	sting Reinstaller	l" for existing lumin	rires wh	ich are
heina rem	oved and reinstalled as	nart of the nr	niert scope	scope mat are no	n being unere	a ana are ren	nannig.		ang achistanet	, joi existing turning	11 C3 W/1	ich ure
⁴ Complian	nce with mandatory cut	off requirement	nts is reauired	for luminaires wit	th initial lume	n output ≥ 6.2	200 unles	s exempted	by §130.2(b).			
	,			.		/-						

Borrelli & Associates, Inc. Consulting Electrical Engineers 2032 N. Gateway Boulevard Fresno, CA. 93727 Phone: 559-233-4138 http://www.borrelliengineering.com/ ca-bai@borrelliengineering.com BAI# 20141

November 2019

PROFESSIONA PROFESSIONA W. CAP M34846 Exp. 6-30-22 CALLFORM DATE: 05-14-21					
SCHOOL DISTRICT CDS #: 20-65243					
MADERA UNIFIED S SERVER ROOM 1902 HOWARD ROAD MADERA, CA. 93637					
SNG					
E N C E ING G R O U P Fresno, CA 93720 FAX (559) 431-1362					
LANAR ENGINEER 7084 N. Maple Ave., Suite 101 (559) 431-0101					
OUTDOOR LIGHTING					

APPROVALS:

STATE OF CALIFORNIA **Outdoor Lighting** NRCC-LTO-E (Created 11/19) CERTIFICATE OF COMPLIANCE Project Name: Madera Unified School District Serve Project Address: 1902 Howard Road Madera, CA. 936

O. DECLARATION OF REQUIRED CERTIFICATES C Table Instructions: Selections have been made based Table E. Additional Remarks. These documents must l title24/2019standards/2019_compliance_documents YES NO NRCI-LTO-01-E - Must be sub • NRCI-LTO-02-E - Must be sub 0 ۲ recognized for compliance. P. DECLARATION OF REQUIRED CERTIFICATES O

Table Instru Table E. Add Certificatior	ctions: Sele litional Rei Provider (ections have been made base marks. These documents mu (ATTCP). For more informati
YES	NO	
۲	0	NRCA-LTO-02-A - Must be luminaires.

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

RTIFICATE OF COMPLIANCE			
			NRCC-LTO-E
ject Name: Madera Unifier	d School District Server Room	Report Page:	Page 6 of 6 6-17-2021
		Dute rieparea.	
	S DECLARATION STATEMENT		2
rtify that this certificate of C	ompliance documentation is accurate and col	mpiete	time -
cumentation Author Name:		Cignature Date:	
irpany:	2022 N. Cataway Boulayard	CEA / HERS Contification Iden	tification (if applicable)
VCtata /7in	Erenno CA 02727	Bhons:	
PONSIBLE PERSON'S DECLA		Prione.	555-255-4156
rtify the following under pe	nalty of perjury, under the laws of the State	of California:	
am eligible under Division 3 Compliance (responsible des The energy features and perf Certificate of Compliance co The building design features compliance documents, wor will ensure that a complete to the enforcement agency f	of the Business and Professions Code to acc igner) formance specifications, materials, compone nform to the requirements of Title 24, Part 1 or system design features identified on this ksheets, calculations, plans and specification d signed copy of this Certificate of Compliance or all applicable inspections. I understand the	ept responsibility for the building designts, and manufactured devices for the land Part 6 of the California Code of Reg Certificate of Compliance are consistent s submitted to the enforcement agency ce shall be made available with the buil at a completed signed copy of this Certi	n or system design identified on this Certificate of puilding design or system design identified on this gulations. It with the information provided on other applicable for approval with this building permit application. ding permit(s) issued for the building, and made available ficate of Compliance is required to be included with the
documentation the builder p	rovides to the building owner at occupancy.		• • • • • • • • • • • • • • • • • • •
ponsible Designer Name:	John Borrelli, PE	Responsible Designer Signati	ure:
npany :	Borrelli and Associates, Inc.	Date Signed:	546300
aress:	2032 N. Gateway Boulevard	License:	E16390
Building Energy Efficiency Standa	ards - 2019 Nonresidential Compliance: <u>http://ww</u>	w.energy.ca.gov/title24/2019standards	November 2019
Building Energy Efficiency Stand	ards - 2019 Nonresidential Compliance: <u>http://www</u>	w.energy.ca.gov/title24/2019standards	November 2019

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		CALIFORNIA EN	NERGY COMMIS	SI19 🍻
				NRCC-LTO-E
ver Room	Report Page:			Page 5 of 6
637	Date Prepared: 6-17-202			
OF INSTALLATION				2
l on information provided in previous tables o be provided to the building inspector during s/Nonresidential_Documents/NRCI/	f this document. If a construction and can	ny selection needs to be changed, ‡ be found online at <u>https://www.er</u>	olease explai nergy.ca.gov	n why in Z
Form/Title		Field Inspector		
		Pass	Fail	
bmitted for all buildings.				
bmitted for a lighting control system; or for an Energy Management Control System (EMCS), to be				
DF ACCEPTANCE				?
on information provided in previous tables og be provided to the building inspector during o visit: <u>http://www.energy.ca.gov/title24/attc</u>	f this document. If an construction and mus p/providers.html	ny selection needs to be changed, pl st be completed through an Accepto	lease explain ance Test Teo	why in chnician
			Field Inspector	
Form/litie		Pass	Fail	
ubmitted for all outdoor lighting controls except for alterations where controls area added to \leq 20				

PROJECT 21052

November 2019

APPROVALS: