Department of General Services - Lighting and Security Repairs at Site Exterior

501 5th Ave. Oakland, CA 94606



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APPLICABLE CODES

(MOST CURRENT VERSIONS AS ADOPTED BY CITY OF WOODLAND, CA AS OF

TITLE 24 C.C.R. PART 2, CALIFORNIA BUILDING CODE (CBC)

TITLE 24 C.C.R. PART 3, CALIFORNIA ELECTRICAL CODE (CEC)

TITLE 24 C.C.R. PART 4, CALIFORNIA MECHANICAL CODE (CMC)

TITLE 24 C.C.R. PART 5, CALIFORNIA PLUMBING CODE (CPC)

TITLE 24 C.C.R. PART 6, CALIFORNIA ENERGY CODE (CEC)

TITLE 24 C.C.R. PART 10, CALIFORNIA EXISTING BUILDING CODE (CEBC) TITLE 24 C.C.R. PART 11, CALIFORNIA GREEN BUILDING STANDARDS CODE (CALGreen) AND BUILDING ENERGY EFFICIENCY STANDARDS

NFPA 70E, STANDARD FOR ELECTRICAL SAFETY IN THE WORKPLACE

NFPA 70, NATIONAL ELECTRICAL CODE

NFPA 72, NATIONAL FIRE ALARM AND SIGNALING CODE

NFPA 101, LIFE SAFETY CODE

NFPA 110, STANDARD FOR EMERGENCY AND STANDBY POWER SYSTEMS.

PROJECT GENERAL NOTES

- THE CONTRACTOR SHALL VISIT THE JOB SITE AND VERIFY ALL DIMENSIONS AND CONDITIONS OF THE WORK. IMMEDIATELY NOTIFY PROJECT TEAM OF ALL DISCREPANCIES BETWEEN DRAWINGS AND THE
- APPROVAL OF PROJECT TEAM.
- THE CONTRACTOR SHALL BE SOLELY AND COMPLETELY RESPONSIBLE FOR JOB CONDITIONS ON THE JOB SITE INCLUDING SAFETY OF PUBLIC, WORKERS, PROPERTY, AND ENSURE COMPLIANCE WITH STATE OSHA AND DISTRICT GUIDELINES AND SAFETY REQUIREMENTS
- OR EXCEEDS THE REQUIREMENTS OF THE LATEST ADOPTED EDITIONS
- O IDENTIFY ALL LONG LEAD MATERIALS. THE CONTRACTOR AND THEIR
- RESPECTIVE DISCIPLINE AND FOLLOW FORMAL CONSTRUCTION
- ACCESS TO THE JOB SITE AND STAGING AREAS (IF REQUIRED) ON ROADS AND PARKING LOTS SHALL BE ARRANGED BETWEEN CONTRACTORS AND DISTRICT REPRESENTATIVE.
- NOT DISTURB THE NORMAL FUNCTION AND ACTIVITIES AT THE PROJECT SITE, DO NOT OBSTRUCT FIRE LANES AND EXITS.
- 10. AFTER THE COMPLETION OF CONSTRUCTION, THE CONTRACTOR SHALL COMPLETELY DEMOBILIZE FROM AND CLEAN THE PROJECT SITE.

PROJECT SCOPE

BACKGROUND:

PERALTA COMMUNITY COLLEGE DISTRICT IS REQUESTING REPLACEMENT OF (E) MALFUNCTIONING EXTERIOR LIGHTING FIXTURES W/(N) LIKE-FOR-LIKE REPLACEMENT AS SPECIFIED TO ACCOMMODATE (E) SITE CONDITIONS AND IN-LINE W/PRESENT DAY INDUSTRY STANDARDS.

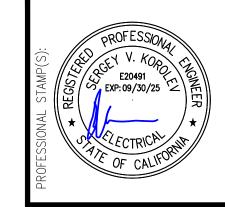
THE SCOPE OF THIS PROJECT IS PRIMARILY ELECTRICAL

THE CONTRACTOR SHALL SYSTEMATICALLY AND WITH MINIMAL IMPACT TO THE PROJECT SITE REPLACE THE (E) EXTERIOR LIGHTING FIXTURES AS SPECIFIED.

CONTRACTOR SHALL COORDINATE DEMOLITION AND NEW CONSTRUCTION SCOPE AND SCHEDULE WITH DISTRICT REPRESENTATIVE AND OTHER TRADES.

ALL PERMIT AND DISPOSAL FEES ARE CONTRACTORS RESPONSIBILITY. ALL WASTE MATERIAL RESULTING FROM DEMOLITION SHALL BE DISPOSED OF PER

THIS PROJECT HAS BEEN DETERMINED BY DISTRICT TO NOT BE SUBJECT TO DSA REVIEW PER DSA IR A-22 SECTION 1.3.1 - MAINTENANCE WORK PER CAC SECTION 4-315 AS DEFINED IN CAC SECTION 4-314.



ABBREVIATIONS

SEE E0.1

SYMBOLS

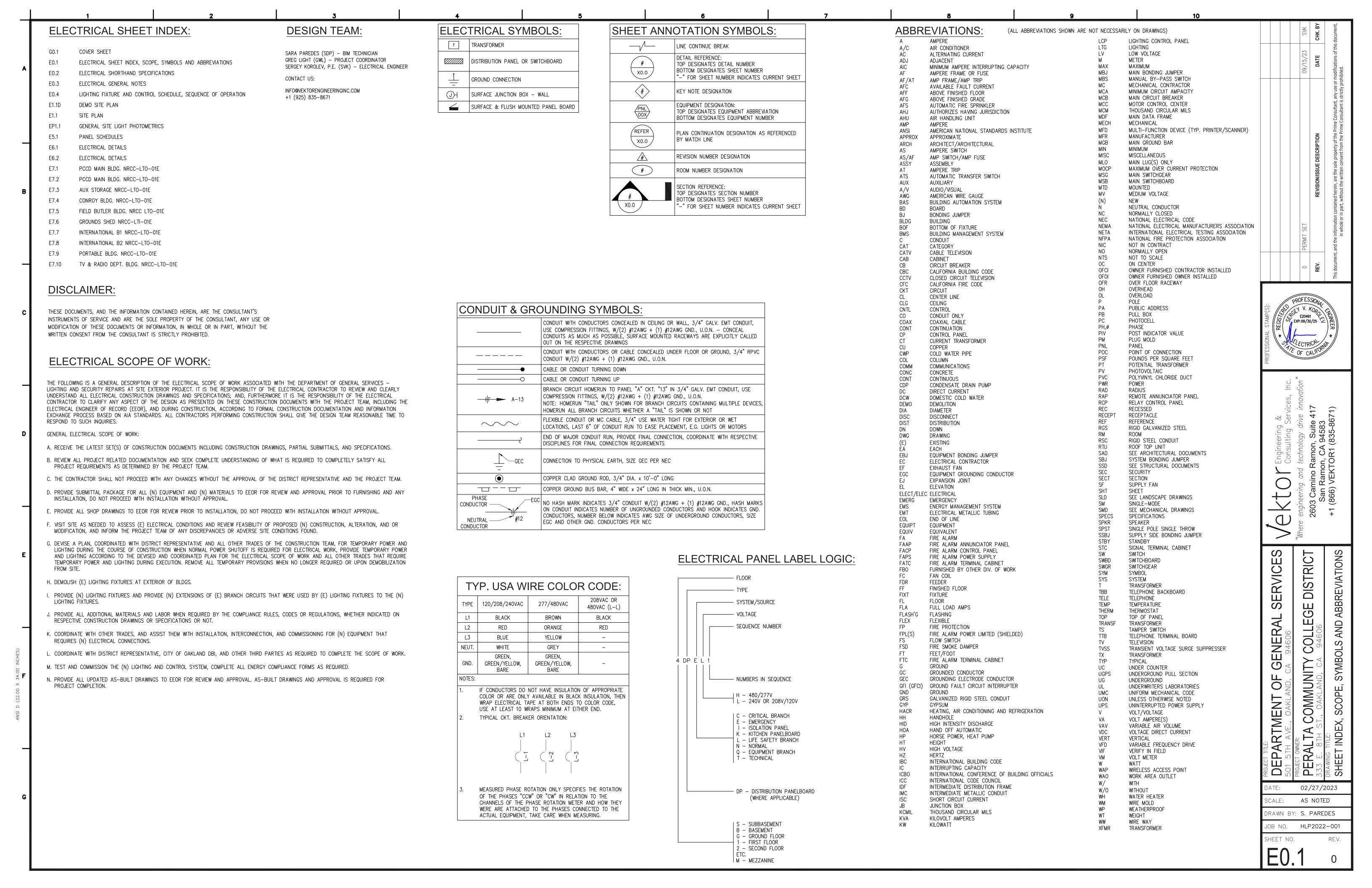
SEE E0.1

DEFERRED SUBMITTALS



SERVICE

PROJECT SITE OVERVIEW



<u> PART 1 — GENERAL:</u>

- .01 FURNISH ALL LABOR, MATERIALS, TOOLS, TRANSPORTATION, SUPERINTENDENCE, SERVICES, EQUIPMENT, FACILITIES AND TEMPORARY CONSTRUCTION REQUIRED AND NECESSARY TO PROVIDE ALL ELECTRICAL SYSTEMS INDICATED ON THESE CONSTRUCTION DRAWINGS AND SPECIFICATIONS. CONTRACTOR SHALL REVIEW ALL CONSTRUCTION DRAWINGS AND SPECIFICATIONS TO COMPLETELY UNDERSTAND THE SCOPE OF WORK, AND ACCOUNT FOR ALL ADDITIONAL RESOURCES AND EQUIPMENT NOT SPECIFICALLY INDICATED, BUT INFERRED AND IMPLIED, FOR A COMPLETE AND FUNCTIONAL INSTALLATION INCLUDING, BUT NOT LIMITED TO, ALL ACCESSORIES AND APPURTENANCES REQUIRED FOR TESTING AND COMMISSIONING THE VARIOUS SYSTEMS. ALL ELECTRICAL SYSTEMS MENTIONED IN THESE CONSTRUCTION DRAWINGS AND SPECIFICATIONS ARE INTENDED TO BE AND SHALL BE INSTALLED AS COMPLETE, FUNCTIONAL AND FULLY OPERATIONAL SYSTEMS.
 - A. WORK SHALL INCLUDE, BUT NOT BE LIMITED TO THE FOLLOWING:
 - 1. SEE EO.1 FOR A SUMMARY OF THE ELECTRICAL SCOPE OF WORK.
 - 2. THE CONTRACTOR SHALL VISIT THE JOB SITE AND VERIFY ALL DIMENSIONS AND CONDITIONS OF THE WORK PRIOR TO SUBMITTING BID. IMMEDIATELY NOTIFY DISTRICT REPRESENTATIVE AND PROJECT TEAM OF ALL DISCREPANCIES BETWEEN THESE CONSTRUCTION DOCUMENTS AND THE PROJECT SITE CONDITIONS. THE PRIME CONTRACTOR SHALL INCLUDE THE COST TO CORRECT THESE DISCREPANCIES IN THEIR BID. NO EXTRA COST SHALL BE CHARGED AFTER BID AWARD.
 - 3. THE CONTRACTOR SHALL NOT PROCEED WITH ANY CHANGES WITHOUT THE APPROVAL OF DISTRICT REPRESENTATIVE AND PROJECT TEAM.
 - 4. THE CONTRACTOR SHALL BE SOLELY AND COMPLETELY RESPONSIBLE FOR JOB CONDITIONS AT THE JOB SITE INCLUDING SAFETY OF PUBLIC, WORKERS, PROPERTY, AND ENSURE COMPLIANCE WITH STATE OSHA AND OWNER'S GUIDELINES AND SAFETY REQUIREMENTS.
 - 5. THE CONTRACTOR SHALL ENSURE THAT ALL WORK PERFORMED MEETS OR EXCEEDS THE REQUIREMENTS OF THE LATEST ADOPTED EDITIONS OF THE APPLICABLE CODES REFERENCED AS PART OF THESE CONSTRUCTION DOCUMENTS.
 - 6. THE CONTRACTOR SHALL PROTECT THE EXISTING BUILDINGS ADJACENT TO THE CONSTRUCTION SITE, THEIR EQUIPMENT, SYSTEM, FINISHES, AND FURNISHINGS FROM ANY DAMAGE DURING THE COURSE OF CONSTRUCTION. PUBLIC ACCESS TO ALL BUILDING AREAS MUST BE MAINTAINED AT ALL TIMES. THE CONTRACTOR SHALL REPAIR ALL DAMAGES TO THE ORIGINAL CONDITIONS AT NO COST. THIS COST SHALL BE PAID BY THE PRIME CONTRACTOR.
 - 7. THE CONTRACTOR SHALL COORDINATE WITH THEIR SUBCONTRACTORS TO IDENTIFY ALL LONG LEAD MATERIALS IMMEDIATELY UPON BEING AWARDED THE CONTRACT. THE CONTRACTOR AND THEIR SUBCONTRACTORS SHALL SUBMIT SHOP DRAWINGS AND SUBMITTALS FOR APPROVAL TO THEIR RESPECTIVE DESIGN CONSULTANT WITHIN (2) WEEKS TIME AFTER BID AWARD OTHERWISE CONTRACTOR SHALL BARE THE COSTS CAUSED BY THE DELAY.
 - 8. THE CONTRACTOR AND THEIR RESPECTIVE SUBCONTRACTORS SHALL BE COMPLETELY RESPONSIBLE FOR ALL GENERAL NOTES, SPECIFICATIONS, AND OTHER PERTINENT INFORMATION AS INDICATED WITHIN THE RESPECTIVE CONSTRUCTION DRAWINGS FOR THEIR DISCIPLINE AND FOLLOW FORMAL CONSTRUCTION INFORMATION EXCHANGE PRACTICES.
 - 9. ACCESS TO THE JOB SITE ON ROADS, PATHWAYS, AND PARKING LOTS SHALL BE ARRANGED BETWEEN CONTRACTOR AND DISTRICT REPRESENTATIVE. THE CONTRACTORS' ENTRANCE TO THE BUILDING WILL BE LIMITED TO LOCATIONS AS DESIGNATED BY DISTRICT REPRESENTATIVE. DO NOT OBSTRUCT FIRE LANES AND EXITS.
 - 10. THE CONTRACTOR SHALL SCHEDULE WORK WITH MINIMUM INTERFERENCE TO THE PROJECT SITE AND THE ACTIVITIES AND OPERATIONS OF ITS FACILITIES, COORDINATE WITH DISTRICT TO CLEARLY UNDERSTAND THE IMPACTS DURING THE COURSE OF CONSTRUCTION. LEGALLY DISPOSE OF DEBRIS AFTER EACH WORKING DAY SO AS TO NOT DISTURB THE NORMAL FUNCTION AND ACTIVITIES AT THE PROJECT SITE, DO NOT OBSTRUCT FIRE LANES AND EXITS.
 - 11. THE CONTRACTOR SHALL PROVIDE WITHOUT EXTRA CHARGE, ALL ADDITIONAL MATERIALS AND LABOR WHEN REQUIRED BY THE COMPLIANCE RULES, CODES OR REGULATIONS, WHETHER INDICATED ON RESPECTIVE CONSTRUCTION DRAWINGS OR SPECIFICATIONS OR NOT. NO CHANGE ORDERS SHALL BE ALLOWED FOR ANY MISINTERPRETATION OF THE REQUIREMENTS OF THESE DOCUMENTS.
 - 12. THE CONTRACTOR SHALL PROVIDE SUBMITTAL PACKAGE FOR ALL EQUIPMENT AND MATERIALS TO ELECTRICAL ENGINEER OF RECORD FOR REVIEW PRIOR TO FURNISHING.
 - 13. THE CONTRACTOR SHALL PROVIDE ALL AS-BUILT DRAWINGS TO ELECTRICAL ENGINEER OF RECORD FOR REVIEW PRIOR TO COMPLETION OF PROJECT, DO NOT RELEASE RETENTION OR CLOSE PROJECT WITHOUT
 - 14. AFTER COMPLETION OF THE PROJECT, THE CONTRACTOR SHALL CLEAN THE PROJECT SITE BEFORE ACCEPTANCE BY DISTRICT REPRESENTATIVE AND DEMOBILIZATION.

1.02 CODES AND STANDARDS (<u>ADDITIONAL TO THOSE ON E0.3</u>):

- WORK SHALL CONFORM TO THE LATEST EDITIONS OF THE FOLLOWING:
- 1. TITLE 24 C.C.R. PART 2, CALIFORNIA BUILDING CODE (CBC)
- 2. TITLE 24 C.C.R. PART 3, CALIFORNIA ELECTRICAL CODE (CEC) 3. TITLE 24 C.C.R. PART 4, CALIFORNIA MECHANICAL CODE (CMC)
- 4. TITLE 24 C.C.R. PART 5, CALIFORNIA PLUMBING CODE (CPC)
- 5. TITLE 24 C.C.R. PART 6, CALIFORNIA ENERGY CODE (CEC)
- 6. TITLE 24 C.C.R. PART 9, CALIFORNIA FIRE CODE (CFC)
- 7. TITLE 24 C.C.R. PART 10, CALIFORNIA EXISTING BUILDING CODE (CEBC) 8. TITLE 24 C.C.R. PART 11, CALIFORNIA GREEN BUILDING STANDARDS CODE (CALGreen) AND BUILDING
- ENERGY EFFICIENCY STANDARDS 9. NFPA 70E, STANDARD FOR ELECTRICAL SAFETY IN THE WORKPLACE
- 10. NFPA 70, NATIONAL ELECTRICAL CODE
- 11. NFPA 72, NATIONAL FIRE ALARM AND SIGNALING CODE
- 12. NFPA 101, LIFE SAFETY CODE
- 13. NFPA 110, STANDARD FOR EMERGENCY AND STANDBY POWER SYSTEMS 14. ILLUMINATING ENGINEERING SOCIETY (IES) LIGHTING HANDBOOK, 10TH EDITION
- 1.03 CONTRACTOR SHALL BECOME FAMILIAR WITH THE CONDITIONS OF THE JOB SITE, CONSTRUCTION DRAWINGS AND SPECIFICATIONS, AND PLAN THE INSTALLATION OF THE ELECTRICAL WORK TO CONFORM WITH THE EXISTING CONDITIONS AND THOSE SHOWN AND SPECIFIED SO AS TO PROVIDE THE BEST POSSIBLE ASSEMBLY OF THE COMBINED WORK OF THE TRADES.
- 1.04 CONTRACTOR SHALL OBTAIN AND PAY FOR ALL LICENSES, PERMITS REQUIRED, AND DISPOSAL FEES.
- .05 CONTRACTOR AND THEIR SUB-CONTRACTORS SHALL VISIT THE SITE AS NECESSARY PRIOR TO SUBMITTING BID TO VERIFY EXISTING CONDITIONS, DIMENSIONS, LOCATIONS, AND ANY OTHER PERTINENT INFORMATION SHOWN ON PLANS AND ADJUST BID TO COVER ALL WORK SHOWN OR REASONABLY IMPLIED ON PLANS AND ANY ADDITIONAL WORK DISCOVERED THAT IS REQUIRED IN FIELD. REQUIRED CHANGES DUE TO EXISTING CONDITIONS SHALL BE REPORTED TO THE CONSTRUCTION MANAGEMENT TEAM.
- .06 CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO EXISTING UTILITIES DURING DEMOLITION OR CONSTRUCTION.
- 1.07 ALL MATERIALS SHALL BE UL LISTED AND AS SPECIFIED. ANY SUBSTITUTIONS SHALL BE SUBMITTED AND APPROVED PRIOR TO FURNISHING.

1.08 WARRANTIES:

- A. ALL MATERIALS AND EQUIPMENT FURNISHED UNDER THIS SPECIFICATION AND/OR CONSTRUCTION DRAWINGS SHALL BE GUARANTEED BY CONTRACTOR IN WRITING FOR A PERIOD OF AT LEAST (1) YEAR FROM THE DATE OF FINAL ACCEPTANCE AGAINST DEFECTIVE MATERIALS, DESIGN AND WORKMANSHIP. CONTRACTOR SHALL APPLY FOR ALL REQUIRED EQUIPMENT AND MATERIAL WARRANTIES WITH RESPECTIVE MANUFACTURER'S AND REMAIN DIRECTLY RESPONSIBLE FOR FULFILLING THE MANUFACTURER WARRANTY OBLIGATIONS FOR THE FULL DURATION LISTED BY EACH MANUFACTURER FOR THE RESPECTIVE MATERIALS OR EQUIPMENT.
- B. UPON RECEIPT OF NOTICE FROM THE OWNER OF FAILURE OF ANY MATERIAL OR EQUIPMENT OR SECTIONS OF THE ELECTRICAL SYSTEM, DURING THE WARRANTY PERIOD, THE CONTRACTOR SHALL MAKE ALL NECESSARY ARRANGEMENT AND CORRECTIONS PROMPTLY AND WITHOUT EXPENSE OR INCONVENIENCE TO

- THE OWNER. REPLACE OR REPAIR MATERIALS AND EQUIPMENT IN THIS SCOPE OF WORK AND ANY DAMAGE
- 1.09 VERIFY ELECTRICAL RATING, LOAD, CIRCUIT REQUIREMENTS, AND CONNECTIONS FOR ALL EQUIPMENT SHOWN ON CONSTRUCTION DRAWINGS, AND FURNISHED BY OTHER DISCIPLINES PRIOR TO ROUGH IN, NOTIFY ELECTRICAL ENGINEER OF RECORD AND THE ENGINEER OF RECORD OF THE RESPECTIVE DISCIPLINE OF THIS CHANGE.
- 1.10 PROVIDE WIRING TEST UPON COMPLETION OF WORK AND MAKE ADJUSTMENTS AS NECESSARY FOR SATISFACTORY OPERATION OF ALL ELECTRICAL SYSTEMS AS DETERMINED BY CONSTRUCTION MANAGEMENT

1.11 DEFINITIONS

- A. "CONNECT": CONSTRUED TO MEAN MAKE FINAL ELECTRICAL CONNECTIONS FOR A COMPLETE INSTALLATION OF A FULLY OPERATING PIECE OF EQUIPMENT WITH NECESSARY ACCESSORIES.
- B. "AS DIRECTED": AS COMMUNICATED BY THE OWNER OR THEIR AUTHORIZED REPRESENTATIVE.
- C. "WORK": CONSTRUED TO MEAN ALL LABOR, MATERIALS, EQUIPMENT, APPARATUS, CONTROLS, ACCESSORIES, AND OTHER ITEMS REQUIRED FOR PROPER AND COMPLETE INSTALLATION TO REALIZE INTENDED FUNCTION OF THE EQUIPMENT TO BE INSTALLED.
- D. "WIRING": RACEWAY, FITTINGS, CONDUCTORS, CABLE, BOXES AND OTHER ITEMS REQUIRED FOR A PROPER AND COMPLETE ELECTRICAL CONNECTION.
- E. "CONCEALED": HIDDEN FROM SIGHT AS OBSERVED BY A REGULAR USER OF THE FACILITY OR PREMISES.
- E. "EXPOSED": NOT INSTALLED UNDERGROUND OR "CONCEALED" AS DEFINED ABOVE.
- F. "INDICATED", "SHOWN" OR "NOTED": AS INDICATED, SHOWN, OR NOTED ON RESPECTIVE CONSTRUCTION DRAWINGS OR SPECIFICATIONS.
- G. ALL OTHER DEFINITIONS AS PER THE ACCEPTED DEFINITIONS OF THE AMERICAN INSTITUTE OF ARCHITECTS (AIA).

1.12 SAFETY AND INDEMNITY

- A. SAFETY: THE CONTRACTOR SHALL BE SOLELY AND COMPLETELY RESPONSIBLE FOR CONDITIONS OF THE JOB SITE, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY DURING PERFORMANCE OF THE WORK. THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS. SEE ALSO THOSE REQUIREMENTS DESCRIBED BY THE GENERAL NOTES ON EO.3 AND SCOPE OF WORK ON EO.1.
- B. NO ACT, SHOP DRAWING REVIEW OR CONSTRUCTION REVIEW BY THE OWNER, THE ENGINEERS OR THEIR CONSULTANTS IS INTENDED TO INCLUDE REVIEW OF THE ADEQUACY OF THE CONTRACTOR'S SAFETY MEASURE, IN, ON, OR NEAR THE CONSTRUCTION SITE.
- C. INDEMNITY: THE CONTRACTOR SHALL HOLD HARMLESS, INDEMNIFY AND DEFEND THE OWNER, THEIR CONSULTANTS AND EACH OF THEIR OFFICERS, EMPLOYEES AND AGENTS, FROM ANY AND ALL LIABILITY CLAIMS, LOSSES OR DAMAGE ARISING OR ALLEGED TO ARISE FROM THE PERFORMANCE OF THE WORK DESCRIBED HEREIN, BUT NOT INCLUDING THE SOLE NEGLIGENCE OF THE OWNER, AND THEIR CONSULTANTS, AND EACH OF THEIR OFFICERS, EMPLOYEES AND AGENTS.

1.13 SUBMITTALS:

ELECTRICAL CONTRACTOR SHALL SUBMIT ALL SHOP DRAWINGS FOR MATERIALS AND EQUIPMENT, AND RESPECTIVE SPECIFICATION SHEETS (IN A SINGLE COMPLETE SUBMITTAL) FOR REVIEW BY ELECTRICAL ENGINEER OF RECORD, INCLUDING, BUT NOT LIMITED TO THE FOLLOWING:

A. LIGHTING FIXTURES.

- B. LIGHTING CONTROL SYSTEM AND DEVICES.
- C. WIRING DEVICES.
- D. WIRE, CONDUCTORS AND CABLES.
- E. CONDUIT, RACEWAYS, PULL BOXES, BOXES, FITTINGS, HANGERS AND SUPPORTS.
- F. TRANSFORMERS, PANELS AND DISCONNECTS.
- G. OTHER MAIN EQUIPMENT AS PART OF THIS WORK.

1.14 PROJECT CLOSEOUT:

- A. <u>SEE REQUIREMENTS ON E0.3.</u>
- 1.15 CLEAN-UP AND DEMOBILIZATION:
- A. REMOVE AND PROPERLY DISPOSE OF ALL SCRAP MATERIALS, TRASH AND DEBRIS DURING CONSTRUCTION AND TOWARDS COMPLETION OF THE PROJECT. LEAVE THE PREMISES AND SURROUNDING AREA IN A CLEAN AND ORDERLY CONDITION AS DIRECTED BY THE CONSTRUCTION MANAGEMENT TEAM. ALL MATERIALS AND EQUIPMENT SHALL BE DISPOSED OF PER GOVERNMENT REGULATIONS.

PART 2 - BASIC MATERIALS AND METHODS:

2.01 GENERAL:

A. MATERIALS AND EQUIPMENT SHALL BE NEW, CURRENT MODELS THAT ARE SUPPORTED BY MANUFACTURER'S, AND SHALL BEAR COMPLETE IDENTIFICATION AND LABELS. PANELS AND DISCONNECT SHALL BEAR SHORT CIRCUIT CURRENT STUDY LABELS IDENTIFYING APPROACH DISTANCES AND P.P.E. REQUIRED.

2.02 CONDUITS:

- A. ELECTRICAL METALLIC TUBING (EMT) SHALL BE GALVANIZED WITH COMPRESSION STYLE FITTINGS. COUPLINGS, FITTINGS AND CONNECTORS SHALL BE INSULATED THROAT TYPE AND GALVANIZED. SETSCREW TYPE FITTINGS ARE NOT PERMITTED.
- B. RIGID (RMC) OR INTERMEDIATE METAL CONDUIT (IMC) SHALL BE GALVANIZED WITH THREADED STYLE FITTINGS. COUPLINGS AND CONNECTORS SHALL BE INSULATED THROAT TYPE AND GALVANIZED.
- C. FLEXIBLE CONDUIT SHALL BE STEEL METAL STRIP INTERLOCK CONSTRUCTION, ZINC COATED OR WITH EXTERNAL PLASTIC ARMOR, INCLUDING SUITABLE ACCESSORIES. AND SHALL BE WATER TIGHT IN WET OR
- D. ALL EXTERIOR CONDUITS SHALL BE GALVANIZED RIGID (GALV. RMC) OR GALVANIZED INTERMEDIATE METAL CONDUIT (GALV. IMC). LAST 6' MAY BE FLEXIBLE CONDUIT TO EASE DEVICE PLACEMENT.
- E. ALL UNDERGROUND CONDUIT SHALL BE RIGID PVC SCHEDULE 80.
- F. ALL INTERIOR BRANCH CIRCUIT CONDUIT SHALL BE ELECTRICAL METAL TUBING (EMT) 3/4" MIN.
- G. ALL CONDUIT FITTINGS IN WET LOCATIONS, AND FOR EXTERIOR OR UNDERGROUND CONDUIT SHALL BE WATER TIGHT TYPE SPECIFIED FOR THE TYPE OF CONDUIT TO BE INTERCONNECTED AT THOSE LOCATIONS.

2.03 CONDUCTORS AND CABLE:

- A. ALL CONDUCTORS AND CABLE SHALL BE COPPER. ALUMINUM CONDUCTORS ARE NOT PERMITTED.
- B. CONDUCTORS: PROVIDE SOFT DRAWN, ANNEALED COPPER WIRE 98% CONDUCTIVITY OR BETTER, BARING THE UL LABEL, WITH 600V MIN. ELECTRICAL INSULATION RATING, #12AWG MINIMUM (USE #10AWG FOR BRANCH CIRCUIT RUNS OVER 100' OR AS INDICATED ON RESPECTIVE CONSTRUCTION DRAWINGS).
- C. CONDUCTORS #1AWG AND SMALLER USED IN DRY LOCATIONS SHALL HAVE THHN TYPE INSULATION, U.O.N.
- D. CONDUCTORS #1AWG AND SMALLER USED IN WET LOCATIONS SHALL HAVE THWN TYPE INSULATION, U.O.N.
- E. INSULATED EQUIPMENT GROUNDING CONDUCTORS, EQUIPMENT OR SYSTEM BONDING JUMPERS, AND OTHER INSULATED GROUNDING CONDUCTORS SHALL HAVE THHN TYPE INSULATION FOR DRY LOCATIONS AND THWN

- INSULATION FOR WET LOCATIONS, U.O.N.
- F. ALL BARE GROUNDING SYSTEM OR RING CONDUCTORS SHALL BE STRANDED COPPER #4AWG MIN. U.O.N.
- G. ALL BARE GROUNDING ELECTRODE CONDUCTORS SHALL BE STRANDED COPPER #6AWG.
- H. UNGROUNDED AND NEUTRAL CONDUCTORS #1/OAWG THROUGH #4/OAWG SHALL HAVE XHHW (55 MILS) INSULATION OR THICKER AND MORE DURABLE.
- I. UNGROUNDED AND NEUTRAL CONDUCTORS #250MCM (KCMIL) AND LARGER SHALL HAVE XHHW (65 MILS) INSULATION OR THICKER AND MORE DURABLE.
- J. ALL INSULATION SHALL HAVE A TEMPERATURE RATING OF 75 DEG. C MINIMUM.
- K. #8AWG AND LARGER SHALL BE STRANDED COPPER CONDUCTORS. SOLID CONDUCTORS MAY BE USED FOR #10AWG AND SMALLER WHERE VIBRATION IS PRESENT OR SPECIAL FLEXIBILITY IS REQUIRED; HOWEVER, ELECTRICAL ENGINEER OF RECORD SHALL APPROVE USE OF ANY SOLID CONDUCTORS PRIOR TO INSTALLATION.
- L. ALL SPLICES SHALL HAVE IN-LINE COLD SHRINK CONNECTION INSULATORS.

M. WIRING CONNECTORS:

- #8AWG AND SMALLER INTERIOR WIRING SHALL BE CONNECTED WITH CONNECTORS HAVING INSULATED PRESSURE TYPE LIVE SPRING, WITH INSULATION RATED FOR 600V, 105 DEG. C MIN., USE INSULATION RATING OF 1000V, 105 DEG. C MIN. FOR LIGHTING BRANCH CIRCUITS.
- 2. #6AWG AND LARGER SHALL BE CONNECTED WITH COMPRESSION TYPE CONNECTORS WITH #33+ OR SUPERIOR ELECTRICAL TAPE TO COVER PER INDUSTRY STANDARDS.

N. GROUNDING SHALL COMPLY WITH CEC REQUIREMENTS.

2.04 PANELS:

- A. ENCLOSURES SHALL BE SINGLE DOOR, DEAD FRONT OF CODE GAUGE STEEL WITH TRIM AND DOOR OF 12 GAUGE STRETCHER-LEVELED STEEL. ENCLOSURES SHALL BE 20" (MIN.) WIDE BY 5-3/4" DEEP (MAX.), U.O.N. ALL PANELS FOR THIS PROJECT SHALL BE MANUFACTURED BY THE SAME MANUFACTURER.
- 1. FINISH SHALL CONSIST OF ONE COAT RUST RESISTANT PRIMER, ONE COAT GRAY ENAMEL INSIDE AND
- 2. ENCLOSURES SHALL BE LOCKABLE WITH FLUSH TYPE COMBINATION LATCH, AND TWO KEYS SHALL BE FURNISHED. NO PLASTIC PARTS IN THE LATCH AND LOCK MECHANISM ARE PERMITTED.
- 3. PANEL RATING AND BUS CAPACITIES PER RESPECTIVE PANEL SCHEDULES. BUSSES SHALL BE MADE OF 98% CONDUCTIVITY OR BETTER COPPER BARS SIZED FOR CURRENT DENSITY OF 1,000 AMP/SQ. INCH OF CROSS SECTION (OR EQUIVALENT CURRENT DENSITY RATING TIN PLATED ALUMINUM).
- 4. CIRCUIT BREAKERS SHALL BE BOLT ON ONLY.

2.05 WIRING DEVICES:

- A. ALL WIRING DEVICES AND COVER PLATES SHALL BE COORDINATED TO MATCH FINISHES PROPOSED BY ARCHITECT PRIOR TO BEING FURNISHED AND INSTALLED.
- B. ASIDE FROM THE ENLIGHTED LIGHTING CONTROL DEVICES, SWITCHES, RECEPTACLES, PLATES, ETC. SHALL BE PURCHASED FROM THE SAME MANUFACTURER.

2.06 BOXES:

- A. OUTLET BOXES SHALL BE 4 INCH SQUARE BY 1-1/2 INCH DEEP (OR LARGER) GALVANIZED SHEET STEEL KNOCK-OUT TYPE WITH PLASTER RING AND COVER FOR GENERAL INTERIOR USE, AND CAST METAL, FERRIS STANDARD OR SHALLOW, OR FERRIS BOX DEEP WITH MATCHING SCREW COVERS FOR EXTERIOR LOCATIONS OR LOCATIONS EXPOSED TO WATER, PROVIDE GASKETED COVERS IN EXTERIOR, WET OR DAMP LOCATIONS.
- B. COVERS FOR WEATHER PROOF EXTERIOR SERVICE OR CONVENIENCE RECEPTACLES NEAR HVAC EQUIPMENT SHALL BE IN-USE WEATHER PROOF.
- C. NEW BRANCH CIRCUIT JUNCTION BOXES SHALL USE THE SAME TYPE OF BOX AS THOSE USED FOR NEW RECEPTACLES, COORDINATE TYPE WITH OTHER DISCIPLINES.
- D. ALL EXTERIOR PULL BOXES SHALL BE OF TRAFFIC RATED CONSTRUCTION AND SHALL HAVE A TRAFFIC RATED COVER. COVER SHALL HAVE PRE-CAST OR ENGRAVED SIGN INDICATING TYPE OF CONDUCTORS OR CABLING INSIDE, E.G. "ELECTRIC" OR "COMMS"

2.07 CONDUIT HANGERS (SEE SUPPORT AND ANCHORAGE REQUIREMENTS ON E0.3):

- A. INDIVIDUAL CONDUIT RUNS 1 INCH AND SMALLER SHALL BE ATTACHED TO STRUCTURAL MEMBERS DIRECTLY USING CONDUIT CLAMPS WITH FASTENERS ON BOTH SIDES OF THE CLAMP. USE ROD HANGERS WHEN CONDUIT RUN NEEDS TO BE EXTENDED LOWER THAN THE DIRECT ATTACHMENT TO STRUCTURAL MEMBERS
- B. INDIVIDUAL CONDUIT RUNS 1-1/4 INCH AND LARGER, OR MULTIPLE PARALLEL RUNS OF CONDUIT, SHALL BE ATTACHED TO STRUCTURAL MEMBERS USING A GALVANIZED METAL CHANNEL WITH MULTIPLE FASTENERS AS REQUIRED TO SUPPORT THE ASSEMBLY AND AN APPROPRIATELY SIZED CONDUIT CLAMP SPECIFIED FOR THE SIZE CONDUIT BY MANUFACTURER OF THE METAL CHANNEL.
- C. CONTRACTOR SHALL USE METAL CHANNEL TRAPEZE TYPE CONDUIT SUPPORT FOR CONDUIT RUNS THAT REQUIRE CONDUIT RUNS 1-1/4 INCH AND LARGER, OR MULTIPLE PARALLEL RUNS OF CONDUIT, WHERE CONDUIT RUNS NEED TO BE EXTENDED LOWER THAN THE DIRECT ATTACHMENT TO STRUCTURAL MEMBERS
- D. CONDUIT SUPPORT SYSTEMS SHALL BE DESIGNED FOR A MAXIMUM DEFLECTION NOT GREATER THAN 1/8
- E. DIAMETER OF HANGER ROD SHALL NOT BE LESS THAN 3/8 INCH.

2.08 LIGHTING AND RECEPTACLE COMPLIANCE:

- A. CONTRACTOR SHALL PROVIDE A COMPLETE AND FUNCTIONING LIGHTING CONTROL SYSTEM THAT COMPLIES WITH THE REQUIREMENTS OF THE CALIFORNIA ENERGY COMMISSION TITLE 24 REQUIREMENTS.
- B. CONTRACTOR SHALL PROVIDE ADDITIONAL LIGHTING CONTROL DEVICES AND COMMISSIONING TO ACCOMMODATE OCCUPANCY CONTROL OF VARIOUS RECEPTACLES THROUGHOUT.

2.09 LIGHTING

- A. INSTALL EMERGENCY EGRESS LIGHTING FIXTURES AS INDICATED ON RESPECTIVE PLANS ALONG THE EGRESS PATH IDENTIFIED BY ARCHITECT. PROVIDE EMERGENCY EGRESS LIGHTING FIXTURE CONTROL AND COMPLY WITH REQUIREMENTS OF UL924. PROVIDE A UL924 COMPLIANT CENTRAL LIGHTING INVERTER WITH 90-MINUTE BATTERY CAPACITY.
- B. CONTRACTOR SHALL COORDINATE WITH CONSTRUCTION MANAGEMENT TEAM FOR ACCESS, QUANTITY, TRANSPORTATION AND STORAGE OF THE EXIT SIGNS, LIGHTING FIXTURES AND LIGHTING CONTROL DEVICES TO BE RE-USED.

PART 3 – EXECUTION:

3.01 GENERAL:

- A. ELECTRICAL CONSTRUCTION DRAWINGS ARE DIAGRAMMATIC AND SHALL BE USED AS CLOSELY AS POSSIBLE AS ACTUAL CONSTRUCTION OF OTHER TRADES WILL PERMIT. VERIFY EXACT ROUTING OF CONDUITS AND RACEWAYS IN FIELD. EXACT LOCATIONS, DISTANCES, DIMENSIONS SHALL BE TAKEN FROM FIELD MEASUREMENTS. REPORT ALL MAJOR DEVIATIONS AND DISCREPANCIES THAT RESULT IN A 15% INCREASE IN ROUTE LENGTH TO ELECTRICAL ENGINEER OF RECORD.
- B. CONTRACTOR SHALL VERIFY ALL SCALED DIMENSIONS AND REPORT CONFLICTS TO ELECTRICAL ENGINEER OF RECORD.

- C. CONTRACTOR SHALL COORDINATE WORK WITH ALL OTHER DISCIPLINES, AND SHALL PLAN ADDITIONAL TIME TO ACCOUNT FOR ANY DEPENDENCY REQUIRED OF THEM OR REQUIRED BY THEM PRIOR TO SUBMITTING BID.
- D. ALL HOME RUNS TO RESPECTIVE PANELS ARE INDICATED AS STARTING FROM THE OUTLET CLOSEST TO THE PANEL, THE BRANCH CIRCUIT CONTINUES TOWARDS THE NEXT CLOSEST OUTLET WITH THE SAME BRANCH CIRCUIT DESIGNATION, AND SO ON, CONTINUE SUCH CIRCUITS TO THE PANEL AS THOUGH THE ROUTES WERE COMPLETELY INDICATED.
- E. CONTRACTOR SHALL NOT CUT, NOTCH OR BORE HOLES THROUGH ANY STRUCTURAL MEMBERS WITHOUT PERMISSION OF STRUCTURAL ENGINEER OF RECORD.

3.02 CONDUIT:

- A. CONTRACTOR SHALL USE GALVANIZED RIGID METAL CONDUIT (RMC) FOR ALL WIRING EXCEPT IN OR UNDER CONCRETE, IN EARTH, FILL, MASONRY WALLS, CONCRETE WALLS WHICH SHALL BE RIGID SCHEDULE 80 PVC.
- B. CONTRACTOR SHALL USE ELECTRICAL METAL TUBING (EMT) OR METAL CLAD (MC) CABLES IN TYPICAL WALLS AND CEILING AREAS.
- C. USE FLEXIBLE CONDUIT TO EASE FINAL CONNECTION, BUT IT SHALL NOT EXCEED 6' AS MEASURED FROM FINAL CONNECTION ALONG ROUTE.
- D. CONCEAL ALL CONDUIT IN WALLS AND ABOVE CEILING SPACES WHERE POSSIBLE. PROVIDE SLEEVES AND CHASES WHERE RACEWAYS PASS THROUGH WALLS. KEEP RACEWAYS WITHIN FURRING LINES ESTABLISHED ON THE DRAWINGS UNLESS SHOWN EXPOSED. AVOID OBSTRUCTION OF OPENINGS, PASSAGEWAYS AND REQUIRED CLEARANCES. ROUTE CONDUITS TO AVOID CONFLICTS WITH DUCTS, PIPING, LIGHTING FIXTURES, ETC. LOCATE ALL ADDITIONAL OPENINGS AND SPACES AND COORDINATE WITH OTHER DISCIPLINES.
- E. CONTRACTOR SHALL ALLOW FOR THE REQUIRED TIME TO PLAN AND NEATLY LAYOUT ROUTES TO AVOID UNNECESSARY CUTTING AND FITTING.
- F. CONTRACTOR SHALL INSTALL CONDUIT ROUTES PARALLEL TO EACH OTHER AND OTHER EXISTING CONDUIT ROUTES THAT ARE TO REMAIN AS PART OF THIS PROJECT. PARALLEL CONDUITS AND RACEWAYS SHALL RUN STRAIGHT AND TRUE WITH OFFSETS THAT ARE UNIFORM AND SYMMETRICAL.
- G. CONTRACTOR SHALL INSTALL CONDUIT ROUTES PERPENDICULAR TO STRUCTURAL MEMBERS IN WALLS AND ABOVE CEILINGS TO SPREAD THE WEIGHT OF THE CONDUIT THROUGH ANCHORS AND SUPPORTS AMONGST MULTIPLE STRUCTURAL MEMBERS ALONG ROUTE. DO NOT CONCENTRATE WEIGHT ON A SINGLE STRUCTURAL
- H. SEAL AND CAP ALL SPARE CONDUITS AT BOTH ENDS.
- I. PROVIDE #4 PULL CORD IN ALL CONDUITS

3.03 CONDUCTORS AND CABLE:

- A. PROVIDE NO CONDUCTORS SMALLER THAN #12AWG. PROVIDE STRANDED CONDUCTORS LARGER THAN #10AWG.
- B. ALL CONDUCTORS, INCLUDING, BUT NOT LIMITED TO UNGROUNDED CONDUCTORS, EQUIPMENT GROUNDING CONDUCTORS, BONDING JUMPERS, NEUTRALS, GROUNDING ELECTRODE CONDUCTORS SHALL BE SIZED AND INSTALLED PER CEC.

3.04 OUTLET AND JUNCTION BOXES:

- A. INSTALL BOXES SECURELY TO THE STRUCTURE. LOCATE BOXES SUCH THAT THE EXTENSION RING IS FLUSH WITH THE SURFACE.
- B. INSTALL JUNCTION AND PULL BOXES IN ACCESSIBLE LOCATION AS REQUIRED FOR SPLICING, CONNECTIONS AND PULLING OF CONDUCTORS.
- C. BOXES SHALL BE MOUNTED ON ADJUSTABLE BAR HANGERS ABOVE SUSPENDED CEILING AND ADJACENT TO STRUCTURAL MEMBERS IN WALLS.

3.05 DEVICES:

- A. INSTALL SWITCH, RECEPTACLE AND OTHER FLUSH DEVICE PLATES WITH THE VERTICAL CENTER LINE PLUMB WITH ALL EDGES OF THE PLATE IN CONTACT WITH THE FINISHED SURFACE. COORDINATE COLOR WITH ARCHITECT BASED ON SURROUNDING FINISHES AT RESPECTIVE MOUNTING LOCATION.
- B. BOXES FOR SWITCHES SHALL BE LOCATED WHERE INDICATED ON THE RESPECTIVE CONSTRUCTION DRAWINGS AT A MOUNTING HEIGHT OF 48" U.O.N.

- 3.06 PENETRATIONS A. PROVIDE FIRE STOP SYSTEMS AT ALL PENETRATIONS THROUGH EXTERIOR AND FIRE RATED WALLS AND CEILINGS, FINAL ASSEMBLY SHALL MEET OR EXCEED THE FIRE RATING OF THE WALL BEING PENETRATED.
- B. ALL PENETRATIONS TO THE EXTERIOR SHALL BE SLEEVED AND CAULKED WITH WATER PROOFING MATERIALS TO ENSURE A WATER TIGHT SEAL.
- C. PROVIDE SEAL FITTINGS FOR CONDUIT PENETRATIONS ENTERING PLENUMS.

DUCTS OR OPENINGS.

- A. INSTALL LIGHTING FIXTURES OF THE TYPES, SIZES, ETC. AS SHOWN IN THE LIGHTING FIXTURE SCHEDULE.
- 1. CONSTRUCTION DRAWINGS INDICATE FIXTURE TYPES THAT SHALL BE INSTALLED AT LOCATION BY MEANS OF FIXTURE TAG. WHERE NO TAG IS SHOWN. FIXTURE TYPE INDICATED FOR A SIMILAR AREA SHALL BE INSTALLED. CONSULT WITH ELECTRICAL ENGINEER OF RECORD IF ANY QUESTIONS OR CONFLICTS ARISE.
- 2. LOCATION OF FIXTURES SHOWN ON RESPECTIVE CONSTRUCTION DRAWINGS IS GENERAL, CONTRACTOR SHALL VERIFY LOCATIONS OF LIGHTING FIXTURES TO BE INSTALLED WITH ARCHITECTURAL REFLECTED CEILING PLANS AND OTHER REFERENCE DATA TO DETERMINE EXACT AND FINAL LOCATION PRIOR TO INSTALLATION, INCLUDING HEADROOM CLEARANCES, AND INTERFERENCE WITH CEILING COMPONENTS,
- B. CONTRACTOR SHALL COORDINATE BETWEEN ELECTRICAL AND CEILING TRADES TO VERIFY THAT ACCEPTED LIGHTING FIXTURES ARE FURNISHED IN THE PROPER SIZES, AND INSTALLED WITH THE PROPER HANGERS, CLIPS, TRIM, FRAMES, FLANGES, ETC. TO BE COMPATIBLE WITH THE CEILING SYSTEM BEING INSTALLED.
- C. CONTRACTOR SHALL ALIGN, MOUNT, AND LEVEL LIGHTING FIXTURES UNIFORMLY. FINAL DECISION FOR ACCEPTANCE OF INSTALLATION IS RESERVED FOR THE ARCHITECT.
- D. CONTRACTOR SHALL NOT INTERFERE WITH AND PROVIDE CLEARANCES FOR EQUIPMENT BEING INSTALLED BY OTHER TRADES, COORDINATE WORK WITH OTHER DISCIPLINES PRIOR TO INSTALLATION. REPORT ALL CONFLICTS TO ELECTRICAL ENGINEER OF RECORD, THE REPORT SHALL INDICATE A NEW PLAN TO ADJUST INDICATED LOCATIONS FOR LIGHTING FIXTURES BY THE MINIMUM DISTANCES NECESSARY AS ACCEPTED BY ARCHITECT
- E. PROVIDE 12 GAUGE WIRE HANGERS AT EACH CORNER OF MOUNTING BOX FOR LIGHTING FIXTURES RECESSED IN SUSPENDED OR HARD LID CEILING EXTENDED TO STRUCTURAL MEMBERS ABOVE.
- F. PROVIDE ALL NECESSARY SEISMIC RESTRAINTS FOR PENDANT OR SUSPENDED MOUNTED LIGHTING FIXTURES TO RESTRAIN LIGHTING FIXTURE FROM SWINGING INTO WALLS, ADJACENT LIGHTING FIXTURES OR OTHER DEVICES OR EQUIPMENT IN A 45 DEG. SWAY PATH IN ANY DIRECTION.
- G. LIGHTING FIXTURE SUPPORTS SHALL MAINTAIN FIXTURE POSITION AFTER CLEANING AND MAINTENANCE. SUPPORTS SHALL BE INSTALLED SUCH TO NOT DEFLECT THE CEILING OR PARTITION THE LIGHTING FIXTURE

3.08 GROUNDING:

- A. PROVIDE AN EQUIPMENT GROUNDING CONDUCTOR IN ALL CONDUITS SIZED PER CEC.
- B. PROVIDE A GROUNDING BUS, OR FURNISH EQUIPMENT WITH GROUNDING BUS ALREADY INSTALLED, FOR ALL PANELS, TRANSFORMERS AND DISCONNECT SWITCHES. PROVIDE CONNECTION OF EQUIPMENT GROUNDING CONDUCTORS, BONDING JUMPERS, GROUNDING ELECTRODE CONDUCTORS AS INDICATED ON CONSTRUCTION DRAWINGS

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Д 02/27/2023

DRAWN BY: S. PAREDES JOB NO. **HLP2022-001**

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GENERAL NOTES: 1. EVERYONE'S SAFETY IS ALWAYS THE TOP PRIORITY! BE RESPONSIBLE FOR WORKING CONDITIONS ON THE JOB SITE; INCLUDING, BUT NOT LIMITED TO, THE SAFETY OF ALL PERSONS AND PROPERTY DURING PROJECT PLANNING AND CONSTRUCTION, AND WORK THAT IS PERFORMED OUTSIDE OF NORMAL WORKING HOURS. 2. IMMEDIATELY NOTIFY THE CONSTRUCTION MANAGER UPON DISCOVERY OF CONFLICTS, ADVERSE SITE CONDITIONS OR DISCREPANCIES. ALL QUESTIONS REGARDING THIS PROJECT AND THE CONSTRUCTION DOCUMENTS, INCLUDING THOSE ADDRESSED TO THE ENGINEER OF RECORD FOR VARIOUS CONDITIONS, SOME OF WHICH ARE LISTED FURTHER IN THE GENERAL NOTES, SHALL BE COORDINATED THROUGH THE CONSTRUCTION MANAGER BY FORMAL CONSTRUCTION ADMINISTRATION PROCESS. 3. THE LATEST EDITION OF THE OWNER'S AND OR ARCHITECT'S GENERAL, SPECIAL AND SUPPLEMENTARY CONDITIONS, ESPECIALLY SPECIFICATION SECTIONS OF CONSTRUCTION SPECIFICATION INSTITUTE'S (CSI) DIVISIONS 25, 26, 27, 28 AND 48, AS WELL AS SEPARATE SPECIFICATIONS OR PROJECT MANUALS REQUIRED FOR THIS PROJECT, AND THESE CONSTRUCTION DRAWINGS, TOGETHER AS A COMPLETE SET ARE A PART OF THE CONSTRUCTION DOCUMENTS; AND, IT IS THE CONTRACTOR'S RESPONSIBILITY TO ATTAIN. INTERPRET AND COMPLETELY UNDERSTAND THE LATEST EDITIONS OF THESE CONSTRUCTION DOCUMENTS PRIOR TO ANY PROPOSAL, BID AND EXECUTION OF WORK. THIS INCLUDES CONSTRUCTION DOCUMENTS APPLICABLE TO OTHER DIVISIONS WHICH MAY INTERFERE OR OTHERWISE AFFECT THE WORK OF THE CONTRACTOR AND THEIR DISCIPLINE AND OR THEIR SUB-CONTRACTORS AND THEIR RESPECTIVE DISCIPLINES; THIS IS ESPECIALLY IMPORTANT TO COORDINATE FOR THE CONTRACTOR AND THEIR SUB-CONTRACTORS. 4. IF ANY CONSTRUCTION DOCUMENTS ARE UNCLEAR, THEN THE CONTRACTOR SHALL NOT PROCEED WITH ANY CONSTRUCTION AFFECTED BY THE PORTION OF THE CONSTRUCTION DRAWINGS IN QUESTION. INCONSISTENCIES AND OR DISCREPANCIES IN THE CONSTRUCTION DRAWINGS OR SPECIFICATIONS SHALL BE CLARIFIED WITH THE ENGINEER OF RECORD THROUGH FORMAL CONSTRUCTION ADMINISTRATION PROCESS IMMEDIATELY UPON DISCOVERY AND PRIOR TO INSTALLATION. 5. AFTER ACHIEVING A COMPLETE UNDERSTANDING OF THE CONSTRUCTION DOCUMENTS AND THE SCOPE OF THIS PROJECT, THE CONTRACTOR SHALL VISIT THE JOBSITE PRIOR TO SUBMITTING A FINAL PROPOSAL OR BID TO BECOME FAMILIAR WITH EXISTING CONDITIONS, AND INFORM THE ENGINEER OF RECORD OF ANY ADVERSE CONDITIONS, CONFLICTS OR INCONSISTENCIES DISCOVERED WITH THE PLANNED WORK AS DESCRIBED BY THE CONSTRUCTION DOCUMENTS THROUGH FORMAL WRITTEN CONSTRUCTION ADMINISTRATION PROCESS. 6. THESE GENERAL NOTES AND THE MINIMAL REQUIREMENTS THEY DESCRIBE FOR ELECTRICAL WORK SHALL ENCOMPASS AND SHALL ALSO BE REQUIREMENTS TO SUB-DISCIPLINES OF ELECTRICAL WORK SUCH AS FIRE ALARM, SECURITY, COMMUNICATION, AND OTHER ELECTRICAL SPECIALTY TRADES. HOWEVER, IT SHALL BE NOTED THAT. THERE MAY BE ADDITIONAL SPECIFIC REQUIREMENTS IDENTIFIED BY THESE CONSTRUCTION DOCUMENTS FOR THAT SPECIFIC SUB-DISCIPLINE AND ARE LISTED UNDER THE RESPECTIVE CONSTRUCTION DOCUMENT SECTIONS RELEVANT TO THAT SUB-DISCIPLINE OR TRADE 7. THESE GENERAL NOTES ARE INTENDED TO ASSIST THE CONTRACTOR DURING CONSTRUCTION. HOWEVER, THEY DO NOT COVER ALL POSSIBLE SCENARIOS AND THE DOCUMENTS USED TO MAKE UP THE OVERALL CONSTRUCTION DOCUMENTS COME FROM MULTIPLE SOURCES. IF ANY CONFLICTS OR CONTRADICTIONS EXIST BETWEEN SPECIFICATIONS, PROJECT MANUALS, CONSTRUCTION DRAWINGS OR ANY OTHER CONSTRUCTION DOCUMENTS, THEN THE STRICTER REQUIREMENT SHALL GOVERN AS DETERMINED BY THE ENGINEER OF RECORD FOR THE BENEFIT OF THE CLIENT UNDER OVERSIGHT BY THE AHJ. 8. THE SCOPE OF WORK SHALL INCLUDE LABOR, MATERIALS, FOUIPMENT, TOOLS AND OTHER SERVICES REQUIRED FOR ALL NECESSARY DEMOLITION AND COMPLETE INSTALLATION OF THE ELECTRICAL SYSTEMS AS INDICATED AND OR SPECIFIED BY THE CONSTRUCTION DOCUMENTS. 9. THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR DAMAGES INCURRED TO WALLS, FLOORS, CARPET, PAVEMENT, SIDEWALK, FENCES, CEILINGS AND OR OTHER SURFACES DURING CONSTRUCTION; AND THE CONTRACTOR SHALL PATCH, REPAIR, AND PAINT DAMAGED SURFACES TO RETURN THEM TO THEIR ORIGINAL CONDITION. 10. ELECTRICAL CONSTRUCTION DRAWINGS ARE DIAGRAMMATIC AND DO NOT SHOW ALL JUNCTION BOXES, PULL BOXES, OFFSETS, BENDS, ELBOWS OR OTHER SPECIFIC ELEMENTS WHICH MAY BE REQUIRED FOR PROPER INSTALLATION. SIZE, LOCATION OF EQUIPMENT AND WIRING ARE SHOWN TO SCALE WHERE POSSIBLE, BUT IN SOME CASES, SUCH AS LARGE SCALE SITE PLANS, ETC. NOT TO SCALE TO ENSURE OVERALL CLARITY. 11. CONTRACTOR SHALL MAINTAIN HEADROOM, AND KEEP OPENINGS, ACCESS AREAS, ACCESS HATCHES OR DOORS, PATHS OF EGRESS, AND PASSAGEWAYS CLEAR DURING ALL PERIODS OF CONSTRUCTION AND ENSURE THAT THE INSTALLED EQUIPMENT AND SYSTEMS DO NOT CREATE ANY OBSTRUCTION. 12. ALL MATERIAL AND EQUIPMENT SHALL BE NEW AND IN PERFECT CONDITION WHEN INSTALLED. EQUIPMENT SHALL BE LISTED, LABELED, AND INSTALLED PER A RECOGNIZED ELECTRICAL TESTING LABORATORY ADHERING TO MANUFACTURER'S INSTALLATION INSTRUCTIONS, AND THE MATERIALS SHALL BE MANUFACTURED IN ACCORDANCE WITH APPLICABLE STANDARDS OF ANSI, NEMA & NBFU. CONTRACTOR SHALL REPLACE NONCOMPLIANT, DEFECTIVE AND OR DAMAGED MATERIALS AS DETERMINED BY THE ENGINEER OF RECORD FOR THE BENEFIT OF THE CLIENT UNDER OVERSIGHT BY THE AHJ. A. "FURNISH": SUPPLY AND DELIVER TO PROJECT SITE, UNLOAD, UNPACK AND ASSEMBLE, AND PUT IN PLACE. B. "INSTALL": OPERATIONS AT PROJECT SITE INCLUDING, TEMPORARILY STORING, ERECTING, PLACING, ANCHORING, APPLYING, WORKING TO DIMENSION, FINISHING, CURING, PROTECTING, CLEANING, AND SIMILAR OPERATIONS. C. "PROVIDE": FURNISH AND INSTALL, COMPLETE AND READY FOR THE INTENDED USE. D. "SHALL": USED TO QUALIFY AN ACTION WHICH IS MANDATORY. 14. CONTRACTOR SHALL PROVIDE SEISMIC SUPPORT DEVICES, RESTRAINTS AND APPURTENANCES INCLUDING HANGERS, ANCHORS, SLEEVES, INSERTS, SEALS, FOR ELECTRICAL EQUIPMENT AND SYSTEMS REQUIRING SUCH SEISMIC SUPPORT IN ACCORDANCE WITH STATE, COUNTY, CITY, AND LOCAL CODES. SEISMIC RESTRAINTS AND ATTACHMENTS FOR ELECTRICAL EQUIPMENT AND SYSTEM COMPONENTS SHALL BE PROVIDED IN ACCORDANCE WITH CBC AND SMACNA REQUIREMENTS, SEE RESPECTIVE STRUCTURAL CONSTRUCTION DRAWINGS FOR REQUIREMENTS. SEE EQUIPMENT ANCHORAGE AND ELECTRICAL DISTRIBUTION SYSTEM BRACING NOTES. 15. CONTRACTOR SHALL PROVIDE MEANS TO KEEP CONSTRUCTION MATERIALS SUCH AS CONDUITS, CONDUIT OR PIPE OPENINGS, SURFACE FINISHES, CABLES, ASSEMBLIES, FIXTURES, EQUIPMENT, CONDUCTORS, ETC. PROTECTED DURING CONSTRUCTION TO PREVENT ENTRY OF FOREIGN MATTER AND EXPOSURE TO THE ELEMENTS. CONTRACTOR SHALL RESTORE OR REPLACE ANY CONSTRUCTION MATERIALS THAT ARE DAMAGED BY NEGLECTING THESE MEANS. 16. CONTRACTOR SHALL DELIVER CONSTRUCTION MATERIALS TO THE CONSTRUCTION SITE AS REQUIRED; AND, THE CONTRACTOR SHALL ENSURE THE DELIVERED CONSTRUCTION MATERIAL IS PROPERLY PACKED, CRATED AND STORED ON SITE. COORDINATE STORAGE LOCATION WITH OWNER THROUGH CONSTRUCTION MANAGER. 17. UNDERTAKE THE WORK IN ITS ENTIRETY IN ACCORDANCE WITH ITS DESIGN AND PURPOSE. WORK SHALL BE CARRIED OUT IN A PROFESSIONAL MANNER WITH MAXIMUM EFFICIENCY, EXCELLENT WORKMANSHIP AND SHALL MEET THE REQUIREMENTS OF, BUT NOT LIMITED TO, THE LATEST EDITION FOR THE FOLLOWING: A. CALIFORNIA CODE OF REGULATIONS: TITLE 8 - INDUSTRIAL RELATIONS (ELEVATOR SAFETY ORDERS). TITLE 19 – PUBLIC SAFETY. TITLE 22 – SOCIAL SECURITY - TITLE 24 - CALIFORNIA BUILDING STANDARDS CODE, (PARTS 1, 2 (CALIFORNIA BUILDING CODE), 3 (CALIFORNIA ELECTRICAL CODE), 4, 5, 6 (CALIFORNIA ENERGY CODE), 7, 8, 9, 10 & 11). B. CALIFORNIA STATE AND LOCAL FIRE MARSHAL. AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI). D. INSTITUTE OF ELECTRICAL AND ELECTRONIC ENGINEERS (IEEE). INSTITUTE OF CABLE ENGINEERS ASSOCIATION (ICEA). . NATIONAL ELECTRICAL CONTRACTORS ASSOCIATION STANDARDS FOR CONSTRUCTION (NECA). G. UNDERWRITERS LABORATORIES, INC, (UL). H. INSTRUMENT SOCIETY OF AMERICA (ISA). NFPA 70E, 70, 72, 101, 110, J. STATE INDUSTRIAL ACCIDENT COMMISSION. K. OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA). NATIONAL ELECTRICAL TESTING ASSOCIATION (NETA). M. ALL AMENDMENTS TO THE ITEMS ABOVE AS ADOPTED BY AUTHORITIES HAVING JURISDICTION. 18. CONTRACTOR SHALL SECURE AND PAY FOR PERMITS AND FEES NECESSARY FOR EXECUTION AND COMPLETION OF ELECTRICAL WORK, INCLUDING BUT NOT LIMITED TO, CHARGES BY STATE, COUNTY, CITY, AND LOCAL GOVERNMENT AND AGENCIES. OBTAIN REQUIRED CERTIFICATES OF INSPECTION FOR THE ELECTRICAL WORK AND DELIVER THE COMPLETED DOCUMENTS TO THE OWNER BEFORE REQUESTING ACCEPTANCE AND FINAL PAYMENT FOR WORK. 19. ALL DEMOLISHED MATERIALS SHALL BE DISPOSED OF PER STATE AND FEDERAL REGULATIONS BY CONTRACTOR AND OR THEIR SUB-CONTRACTORS. THE RESPECTIVE CONTRACTORS ARE RESPONSIBLE FOR ALL DISPOSAL FEES APPLICABLE TO THEIR TRADE. 20. CONTRACTOR SHALL CAREFULLY LAY OUT WORK IN ADVANCE TO AVOID UNNECESSARY CUTTING, CHANNELING, CHASING OR DRILLING OF FLOORS, WALLS, PARTITIONS, CEILINGS OR OTHER SURFACES. STRUCTURAL MEMBERS SHALL NOT BE CUT OR DRILLED WITHOUT THE APPROVAL OF THE ENGINEER OF RECORD AND OWNER. HOWEVER, WHERE SUCH WORK IS NECESSARY PROVIDE CUTTING, CORING AND PATCHING OF THE CONSTRUCTION WORK WHICH MAY BE REQUIRED FOR THE PROPER INSTALLATION OF THE ELECTRICAL WORK, PATCHING SHALL BE OF THE SAME MATERIALS, WORKMANSHIP AND FINISH, AND SHALL ACCURATELY MATCH SURROUNDING WORK. AFTER COMPLETION OF WORK, CLEAN UP RESULTANT DEBRIS AND REMOVE FROM SITE. 21. EQUIPMENT, ENCLOSURES, J-BOXES, GUTTERS, ETC., INSTALLED OUTDOORS OR SUBJECT TO WEATHER SHALL BE WEATHER PROOF AND UL LISTED FOR SUCH USE. RECEPTACLES INSTALLED OUTDOORS SHALL BE GFCI TYPE WITH "IN USE" TYPE WEATHERPROOF ENCLOSURES. GFCI TYPE RECEPTACLES LOCATED ON ROOF SHALL HAVE "IN USE" TYPE WEATHER PROOF ENCLOSURES, AND MUST BE LOCATED WITHIN 25' OF ROOF MOUNTED EQUIPMENT. 22. CONTRACTOR SHALL INSTALL EXPOSED CONDUITS PARALLEL TO OR AT RIGHT ANGLES TO NEARBY SURFACES OR STRUCTURAL MEMBERS, AND FOLLOW SURFACE CONTOURS AS MUCH AS POSSIBLE. 23. CONTRACTOR SHALL PROVIDE ELECTRICAL FINAL CONNECTIONS TO ELECTRICAL EQUIPMENT AND OUTLETS FOR A COMPLETE AND OPERABLE SYSTEM UNLESS OTHERWISE SPECIFICALLY NOTED ON THE RESPECTIVE CONSTRUCTION DRAWINGS. 24. PENETRATIONS OF FLOORS, ROOF, WALLS, AND WALL MEMBRANES REQUIRED TO HAVE A FIRE RESISTANCE RATING SHALL BE PROTECTED WITH THROUGH PENETRATION FIRE STOPS SUITABLE FOR THE METHOD OF PENETRATION. THROUGH PENETRATION FIRE STOPS SHALL BE TESTED IN ACCORDANCE WITH UL AND CBC REQUIREMENTS. 25. CONTRACTOR SHALL PROVIDE ENGRAVED LAMINATED PLASTIC NAMEPLATES FOR THE FOLLOWING EQUIPMENT INCLUDING BUT NOT LIMITED TO: METERS, PANELBOARDS, SWITCHBOARDS INCLUDING EACH INDIVIDUAL DEVICE OR PIECE OF EQUIPMENT WITHIN THE SWITCHBOARD, MOTOR CONTROL CENTERS (MCC) INCLUDING EACH DEVICE WITHIN THE MCC, ENCLOSED SWITCHES, STARTERS, CONTACTORS, CIRCUIT BREAKERS AND TRANSFORMERS.

- 26. EQUIPMENT SHALL BE BONDED AND GROUNDED IN ACCORDANCE WITH STATE, COUNTY, CITY, AND LOCAL CODES, APPLICABLE CODES AND JURISDICTIONS. REFER TO SPECIFICATIONS FOR DETAILS. ALL FEEDERS AND BRANCH CIRCUIT CONDUITS SHALL BE PROVIDED WITH AN INSULATED EQUIPMENT GROUNDING CONDUCTOR.
- 27. EQUIPMENT SHALL BE FULLY RATED FOR THE MAXIMUM AVAILABLE SHORT CIRCUIT CURRENT, REFER TO FEEDER LOAD SUMMARY AND CALCULATIONS TABLES FOR VOLTAGE DROP AND AVAILABLE FAULT CURRENT VALUES. FEEDER LENGTHS SHOWN ARE ESTIMATES FOR CALCULATION PURPOSES ONLY. CONTRACTOR SHALL DETERMINE ACTUAL LENGTHS BASED ON ROUTING AND FIELD CONDITIONS.
- 28. CONTRACTOR AND THEIR SUB-CONTRACTORS SHALL BE LICENSED IN THE STATE OF CALIFORNIA AND WORKERS SHALL BE CERTIFIED IN ACCORDANCE WITH THE DEPARTMENT OF INDUSTRIAL RELATIONS, DIVISION OF APPRENTICESHIP STANDARDS AND CALIFORNIA LABOR CODE SECTION 3099.
- 29. CONTRACTOR SHALL PROVIDE ADDITIONAL HARDWARE FOR CONNECTION TO DEVICES WHICH LUGS THAT DO NOT ACCEPT OVERSIZED CONDUCTORS, WHICH MAY BE REQUIRED DUE TO VOLTAGE DROP CALCULATIONS OR DUE TO OTHER REASONS. CONTRACTOR SHALL SUBMIT SPECIFICATIONS OR PROPOSAL FOR THIS ADDITIONAL HARDWARE TO ENGINEER OF RECORD FOR REVIEW AND APPROVAL.
- 30. WHERE THE CONDUCTOR SIZE IS NOT SPECIFIED, CONTRACTOR SHALL PROVIDE BRANCH CIRCUIT CONDUCTORS SIZED SO THAT VOLTAGE DROP DOES NOT EXCEED 3% TO THE LAST DEVICE BASED ON OVERALL LENGTH OF CONDUCTORS.
- 31. WHERE NOT SPECIFIED, BRANCH CIRCUITS WITH MORE THAN THREE CURRENT CARRYING CONDUCTORS IN A SINGLE CONDUIT SHALL HAVE THEIR AMPACITY DERATED PER ELECTRICAL CODE SECTION 315(B)(2), AND BASED ON THIS, THE CONTRACTOR SHALL PROVIDE APPROPRIATELY SIZED CONDUCTORS AND CONDUITS.
- 32. POWER RECEPTACLES SHALL BE 20A RATED, HEAVY DUTY, UNLESS OTHERWISE NOTED.
- 33. ELECTRICAL BOXES FOR POWER RECEPTACLES OR DATA OUTLETS SHALL NOT BE INSTALLED IN A BACK TO BACK CONFIGURATION, BUT SHALL BE INSTALLED SEPARATED HORIZONTALLY BY A MINIMUM OF 18" IN NOT FIRE RATED WALLS, AND A MINIMUM OF 24" IN FIRE RATED WALLS. WHERE THESE SEPARATIONS ARE NOT POSSIBLE TO MAINTAIN, THE CONTRACTOR SHALL PROVIDE SOUND DEADENING, FIRE RATED PADS AROUND THE BOXES, AND SEAL ALL GAPS WITH APPROPRIATE FIRE
- 34. 125 VOLT, 20 AMPERE RATED, SINGLE PHASE DUPLEX RECEPTACLES WITH GROUND FAULT CIRCUIT INTERRUPTER PROTECTION SHALL BE INSTALLED OUTDOORS, WITHIN 6 FEET OF A SINK OR WET EQUIPMENT OR OTHER SOURCE OF WATER. ELEVATOR MACHINE ROOMS AND PITS. KITCHENS. AND IN SURFACE METAL RACEWAYS OR ENCLOSURES. FEED THROUGH WIRING OF GROUND FAULT CIRCUIT INTERRUPTER TYPE RECEPTACLES SHALL NOT BE PERMITTED, UNLESS NOTED OTHERWISE.
- 35. ALL POWER RECEPTACLES AND DATA OUTLETS SHALL BE MOUNTED 18" A.F.F. TO THE CENTER OF THE OUTLET BOX, UNLESS OTHERWISE NOTED.
- 36. POWDER ACTUATED FASTENERS ARE NOT PERMITTED FOR USE ON THIS PROJECT.
- 37. FOR EQUIPMENT THAT DOES NOT HAVE SPECIFIC STRUCTURAL CONSTRUCTION DRAWINGS, DETAILS AND OR CALCULATIONS, THE CONTRACTOR SHALL FOLLOW MANUFACTURER'S INSTALLATION INSTRUCTIONS FOR CALIFORNIA BASED PROJECTS AND PROVIDE THE REQUIRED HARDWARE NECESSARY FOR A COMPLETE INSTALLATION. SEE EQUIPMENT ANCHORAGE AND ELECTRICAL DISTRIBUTION SYSTEM BRACING NOTES.
- 38. MINIMUM CONDUIT SIZE SHALL BE 3/4" STEEL, UNLESS OTHERWISE NOTED.
- 39. MINIMUM CONDUCTOR SIZE SHALL BE #12 AWG, UNLESS OTHERWISE NOTED.
- 40. EXECUTION OF WORK SHALL BE COORDINATED WITH ALL TRADES TO AVOID CONFLICTS AND/OR DELAYS.
- 41. WHEN NECESSARY ADJUST FIXTURE PLACEMENT TO FIELD CONDITIONS, NOTIFY ARCHITECT OF PROPOSED CHANGES.
- 42. ALL WIRE SHALL BE STRANDED COPPER WITH 75 DEG. THHN/THWN INSULATION, UNLESS OTHERWISE NOTED, OR REQUIRED BY CODE FOR SPECIAL SYSTEMS AND APPLICATIONS, SUCH AS FIRE ALARM AND COMMUNICATION, ETC.
- 43. STRUCTURAL INFORMATION SHOWN IN DETAILS SHALL BE FOR REFERENCE ONLY. VERIFY STRUCTURAL DETAILS WITH STRUCTURAL CONSTRUCTION DRAWINGS, DETAILS AND CALCULATIONS, AND REQUEST CLARIFICATION FROM STRUCTURAL ENGINEER AS NEEDED.
- 44. THE CONTRACTOR SHALL NOTIFY THE PROJECT MANAGER 24 HOURS PRIOR TO PLANNED INSPECTIONS.
- 45. SEE SPECIFICATION SECTION 26 08 00 (IF PROVIDED, OTHERWISE SEE RESPECTIVE DRAWINGS) FOR "TITLE 24" TESTING AND SYSTEM COMMISSIONING REQUIREMENTS.
- 46. COMPLETE, POST, SUBMIT, OR MAKE AVAILABLE TO THE ENFORCEMENT AGENCY AND BUILDING OWNER FOR ALL APPLICABLE INSPECTIONS, DOCUMENTATION IN ACCORDANCE WITH TITLE 24 PART 6 SECTION 120 AND 130 TO INCLUDE, BUT NOT BE LIMITED TO:
 - A. INSTALLATION CERTIFICATE(S) IN COMPLIANCE WITH CEC SECTION 110.9, 130.0-130.5, 140.6-150.0, 150.2 AND APPENDIX NA7.
- B. CERTIFICATE(S) OF ACCEPTANCE FORMS. LIGHTING AND POWER SYSTEMS AND DEVICES SHALL BE TESTED AND FORMS MUST BE FILED BY A CERTIFIED ACCEPTANCE TEST TECHNICIAN TO MEET TITLE 24 PART 1 AND PART 6 REQUIREMENTS.
- C. APPROPRIATE CERTIFICATE(S) OF COMPLIANCE AND A LIST OF THE FEATURES, MATERIALS, AND COMPONENTS INSTALLED IN THE BUILDING(S) SHALL BE DELIVERED TO THE OWNER WITH INSTRUCTIONS ON HOW TO OPERATE THEM EFFICIENTLY.
- D. MAINTENANCE INFORMATION FOR ALL FEATURES, MATERIALS, COMPONENTS, AND MANUFACTURED DEVICES THAT REQUIRE ROUTINE MAINTENANCE FOR
- EFFICIENT OPERATION. E. COMMISSION SUBMITTALS AND REPORT.
- 47. CONTRACTOR SHALL DELIVER A COMPLETE AND ACCURATE SET OF RECORD DRAWINGS DEPICTING THE COMPLETE, FULLY FUNCTIONING, AND FINAL STATE OF THE INSTALLATION, SOMETIMES REFERRED TO AS AS-BUILT DRAWINGS BY INDUSTRY TERMINOLOGY, TO BUILDING OWNER WITHIN 90 DAYS OF RECEIVING FINAL OCCUPANCY PERMIT OR FINAL INSPECTION SIGNOFF FROM THE ENFORCING AGENCY AND OR AUTHORITY HAVING JURISDICTION. IF ANY ENERGY COMPLIANCE OR EFFICIENCY CHARACTERISTICS CHANGE. THROUGH MATERIAL SUBSTITUTION OR OTHERWISE, BEFORE FINAL CONSTRUCTION AND INSTALLATION, SUCH THAT THE BUILDING NO LONGER COMPLIES WITH TITLE 24. PART 6: THE BUILDING AND OR INSTALLATION MUST BE BROUGHT BACK INTO COMPLIANCE, AND THE CHANGE SHALL BE INDICATED ON AMENDED PLANS. SPECIFICATIONS. AND CERTIFICATE(S) OF COMPLIANCE BY ENGINEER OF RECORD AND SHALL BE RE-SUBMITTED TO THE ENFORCEMENT AGENCY AND OR AUTHORITY HAVING JURISDICTION FOR VERIFICATION AND SIGNOFF, AND RE-ACCEPTED BY CONTRACTOR FOR INSTALLATION, AND RE-CERTIFIED BY THIRD PARTY FOR COMPLIANCE.
- 48. SEE ADDITIONAL SPECIFICATIONS AND REQUIREMENTS ON EO.2.

EQUIPMENT ANCHORAGE NOTES:

ALL ELECTRICAL COMPONENTS SHALL BE ANCHORED AND INSTALLED PER RESPECTIVE MOUNTING DETAILS. WHERE NO DETAIL IS INDICATED, THE FOLLOWING COMPONENTS SHALL BE ANCHORED OR BRACED TO MEET THE FORCE AND DISPLACEMENT REQUIREMENTS PRESCRIBED IN THE LATEST EDITION OF CBC, SECTIONS 1616A.1.18 THROUGH 1616A.1.26 AND ASCE 7-10 CHAPTERS 13, 26 AND 30.

- 1. ALL PERMANENT EQUIPMENT AND COMPONENTS.
- 2. TEMPORARY OR MOVABLE EQUIPMENT THAT IS PERMANENTLY ATTACHED (E.G. HARD WIRED) TO THE BUILDING UTILITY SERVICES SUCH AS ELECTRICITY, GAS OR WATER.
- 3. MOVEABLE EQUIPMENT WHICH IS STATIONED IN ONE PLACE FOR MORE THAN 8 HOURS AND HEAVIER THAN 400 LBS. ARE REQUIRED TO BE ANCHORED WITH TEMPORARY

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 CONDUIT OR RACEWAY.

- 1. COMPONENTS WEIGHING LESS THAN 400 LBS. AND HAVE A CENTER OF MASS LOCATED 4 FEET OR LESS ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT.
- 2. COMPONENTS WEIGHING LESS THAN 20 LBS., OR IN THE CASE OF DISTRIBUTED SYSTEMS, LESS THAN 5 POUNDS PER FOOT, WHICH ARE SUSPENDED FROM A ROOF OR FLOOR OR HUNG FROM A WALL

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 AND THE DSA DISTRICT STRUCTURAL ENGINEER. THE PROJECT INSPECTOR WILL VERIFY THAT ALL COMPONENTS AND EQUIPMENT HAVE BEEN ANCHORED IN ACCORDANCE WITH ABOVE REQUIREMENTS.

ELECTRICAL DISTRIBUTION SYSTEM BRACING NOTES:

PIPING, 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 SECTION 13.6.8, 13.6.7, 13.6.5.6 AND THE LATEST EDITION OF CBC, SECTIONS 1616A.1.23, 1616A.1.24, 1616A.1.25 AND

THE BRACING AND ATTACHMENTS TO THE STRUCTURE SHALL BE DETAILED ON THE APPROVED DRAWINGS TO SATISFY ANCHORAGE REQUIREMENTS OF ACI 318,

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.

THE STRUCTURAL ENGINEER OF RECORD SHALL VERIFY THE ADEQUACY OF THE STRUCTURE TO SUPPORT THE HANGER AND BRACE LOADS.

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DRAWN BY: S. PAREDES JOB NO. **HLP2022-001**

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TAG	SYMBOL	(APPROXIMATE) QUANTITY	DESCRIPTION	MANUFACTURER CATALOG NUMBER	VOLTAGE	NOMINAL LUMEN OUTPUT	WATTS	LM/ WATT	MOUNTING TYPE	APPROXIMATE WEIGHT (LBS.)	REMARKS & AREA OF USE
A		11	SIGNIFY-GARDCO MEDIUM SITE AND AREA FIXTURE MADE OF LOW COPPER CAST ALUMINUM ALLOY (A360) WITH DETACHABLE ARMS FOR QUICK MOUNTING, HEATSINK IS INTEGRAL TO THE HOUSING PROVIDING PASSIVE COOLING OF LEDS TO MAINTAIN LONG LED LIFE. TYPE 2 MEDIUM LED DISTRIBUTION, WARM WHITE 3,000K, 80 CRI, 0-10V DIMMING DRIVER, UL AND DLC/DLC PREMIUM LISTED, IP65, 5-YEAR WARRANTY, B3-U0-G3.	OPF-M-A10-830-T2M-WAL-UNV- NONE-FS1-BK W/OPF-WAL-(F) & FS1	UNV	19256	112	172	SURFACE MOUNT TO EXTERIOR WALL	13.5	PERIMETER OF PCCD WAREHOUSE, SIT AND ROADWAY LIGHTING
В		12	SIGNIFY—DAY—BRITE 4' LINEAR SUSPENDED FIXTURE, LBX IS EASY TO INSTALL AND CAN BE MOUNTED TOGETHER IN RUNS, METAL HOUSING PROVIDES EXCELLENT THERMAL TRANSFER TO EXTEND COMPONENT LIFE, END HOLES TO ATTACH V—BRACKET FOR CHAIN OR CABLE HANGING, 7/8" K.O. AT EACH END OF LUMINAIRE FOR WIRING OR MOTION DETECTOR, POLYESTER POWDER FINISH FOR EXCELLENT IMPACT AND CORROSION RESISTANCE, OVAL UPLIGHT, WARM WHITE 3,000K, 80 CRI, 0—10V DIMMING DRIVER, ETL AND DLC/DLC PREMIUM LISTED, DAMP LOCATION, 5—YEAR WARRANTY. LBX—HANGER BKT — HANGING BRACKET (PAIR), FKR—126 — (2) 5'—0"	LBX-40L-830-UNV-M-UD W/LBX-HANGER BKT, FKR-126, & LBX-WGUD4	UNV	4167	31	137	6" PENDANT SUSPENDED FROM STEEL OR WOOD CEILING JOIST BEAMS	6	UNDER INDUSTRIAL CANOPY AND ROC OF GROUNDS SHED AND AUX. STORAGE BLDGS.
			CHAINS AND "V" HOOKS, LBX-WGUD4 - 4'-0" WHITE WIRE GUARD FOR UD LENS, EA. FIXTURE.								
(c)		32	SIGNIFY-GARDCO MEDIUM WEDGE WALL SCONCE FIXTURE, FEATURES SPECIALIZED, HIGHLY EFFICIENT PRECISION PLUS OPTICS WHICH BALANCE LOW GLARE WITH EXCELLENT PERFORMANCE, MAIN BODY HOUSING AND DOOR FRAME MADE OF LOW COPPER DIE CAST ALUMINUM ALLOW FOR A HIGH RESISTANCE TO CORROSION, REMOVABLE DIE CAST BACKPLATE TO ALLOW ACCESS TO DRIVER OR OTHER ELECTRONIC COMPONENTS FOR SERVICING, THE HOUSING ACTS AS THE MAIN HEAT SINKING COMPONENT FOR MAXIMUM THERMAL DISSIPATION, WARM WHITE 3,000K, TYPE 2 LED DISTRIBUTION, 80 CRI, 0-10V DIMMING DRIVER, UL AND DLC/DLC PREMIUM LISTED, IP65, 5-YEAR WARRANTY, B1-U0-G1.	GWM-A07-830-T2M-UNV-NONE-NONE -NONE-BK W/GF-WS-BK	UNV	3522	23	153	SURFACE MOUNT TO EXTERIOR WALL	8	PERIMETER OF PORTABLES, CONROY BLDG., AND OTHER BLDGS. AT SITE
			GF-WS-BK - WALL MOUNTED BOX FOR SURFACE CONDUIT, PAINTED BLACK, FOR EA. FIXTURE.								
D		5	SIGNIFY-GARDCO ARCHITECTURAL ADJUSTABLE FLOOD LIGHT FIXTURE, MADE OF LOW COPPER CAST ALUMINUM ALLOY (A360) FOR A HIGH RESISTANCE TO CORROSION, 0.100" MINIMUM THICKNESS. SIDE RAIL EXTRUSIONS MADE OF CORROSION RESISTANT LOW COPPER EXTRUDED ANODIZED ALUMINUM ALLOW (ANODZIED 6063—T5). A33 ASYMETRIC 33 DEGREES FLOOD DISTRIBUTION, WARM WHITE 3,000K, 70 CRI GENERATION 2, 0-10V DIMMING DRIVER, UL AND DLC/DLC PREMIUM LISTED, IP66, 5-YEAR WARRANTY.	PFF-138L-700-WW-G2-YK-A33-UNV- NONE-F1-BLANK-NONE-BLANK-BK W/F1	UNV	42,433	289	146.8	SURFACE MOUNT TO EXTERIOR WALL, FIXTURE TILTS ON YOKE	66	EXTERIOR WALL OF FIELD BUTLER, YARD, AND AUX. STORAGE FLOOD LIGHT FOR SITE SECURITY
			ADJUSTABLE YOKE WITH 9' OF AWG 16-5 SEOOW CORD, IP66 CORD SEAL, YOKE MADE OF HIGH STRENGTH STEEL, GALVANIZED AND PAINTED FOR HIGH RESISTANCE TO CORROSION, 5 DEG. AIMING INCREMENTS WITH BOLTS TO SECURE AIMING IN PLACE, TILT UP 60 DEGREES.								
F		3	SIGNIFY-GARDCO SMALL SITE AND AREA FIXTURE MADE OF LOW COPPER CAST ALUMINUM ALLOY (A360) WITH DETACHABLE ARMS FOR QUICK MOUNTING, HEATSINK IS INTEGRAL TO THE HOUSING PROVIDING PASSIVE COOLING OF LEDS TO MAINTAIN LONG LED LIFE. TYPE 2 MEDIUM LED DISTRIBUTION, WARM WHITE 3,000K, 80 CRI, 0-10V DIMMING DRIVER, UL AND DLC/DLC PREMIUM LISTED, IP65, 5-YEAR WARRANTY, B2-U0-G2.	OPF-S-A01-830-T2M-AR1-NONE-FS1 -BK W/OPF-RMB	UNV	6,991	39	179.3	SURFACE MOUNT TO (E) POLES	11.5	SITE AND ROADWAY LIGHTING
ES:	ALL LIGHTING FIXTURE					•		•			_

THIRD PARTY COMMISSIONING. SEE NOTE 46 ON E0.3.

CODE COMPLIANCE AND COMMISSIONING:

AS REQUIRED PRIOR TO APPLYING FOR SUBSTANTIAL COMPLETION; ALL APPLICABLE REQUIREMENTS, TESTING, DOCUMENTATION AND RECORD OF CONFORMANCE SHALL BE SUBMITTED IN ACCORDANCE WITH CALIFORNIA ENERGY CODE 10-103(A); INCLUDING, BOT NOT LIMITED TO, THE INSTALLATION CERTIFICATE FOR THE LIGHTING CONTROL SYSTEM AS PER CALIFORNIA ENERGY CODE SECTION 130.4(B).

BEFORE AN OCCUPANCY PERMIT IS GRANTED, INDOOR AND OUTDOOR LIGHTING CONTROLS SERVING THE BUILDING SHALL BE CERTIFIED AS MEETING THE ACCEPTANCE REQUIREMENTS FOR CODE COMPLIANCE IN ACCORDANCE WITH CALIFORNIA ENERGY CODE SECTION 130.4(A).

THE COMPLIANCE FORMS FOUND AS PART OF THIS SET ON RESPECTIVE ENERGY COMPLIANCE DRAWINGS SHALL BE SIGNED BY THE ELECTRICAL ENGINEER FOR THE DESIGN, THE ELECTRICAL CONTRACTOR FOR THE INSTALLATION, AND THE COMMISSIONING PARTY FOR COMPLIANCE.

*REVIEW AND COMPLY WITH ANY ADDITIONAL REQUIREMENTS OF NOTE 46 ON EO.3.

LIGHTING TYPICAL SEQUENCE OF OPERATIONS:

EXTERIOR AREAS

- MANUAL OVERRIDE OF AUTOMATIC FUNCTION ON OR OFF FROM ASTRONOMICAL TIMER CONTROL PANEL.
- ALL LIGHTING CIRCUITS AUTOMATICALLY TURN ON BASED ON ASTRONOMICAL TIMER SETTINGS.
- ALL LIGHTING CIRCUITS AUTOMATICALLY TURN OFF BASED ON ASTRONOMICAL TIMER SETTINGS.
- ALL TIMERS AT SITE SHALL BE PROGRAMMED WITH THE SAME SETTINGS TO ENSURE ALL FIXTURES TURN ON OR OFF AT THE SAME TIME.

GROUNDS SHED AND AUX. STORAGE INTERIOR AREAS

- MANUAL OVERRIDE OF AUTOMATIC FUNCTION ON OR OFF FROM ASTRONOMICAL TIMER CONTROL PANEL.
- ALL LIGHTING CIRCUITS AUTOMATICALLY TURN ON BASED ON ASTRONOMICAL TIMER SETTINGS.
- AFTER TURNING ON BY ASTRONOMICAL TIMER LIGHTING ILLUMINATES AT 100%, IF NO MOTION IS DETECTED FOR 15 MINUTES BY OCC. SENSOR, THEN LIGHTING DIMS TO 30%, ONCE MOTION IS DETECTED LIGHTING RETURNS TO 100%.
- ALL LIGHTING CIRCUITS AUTOMATICALLY TURN OFF BASED ON ASTRONOMICAL TIMER SETTINGS.
- ALL TIMERS AT SITE SHALL BE PROGRAMMED WITH THE SAME SETTINGS TO ENSURE ALL FIXTURES TURN ON OR OFF AT THE SAME TIME.

	NEW LIGHTING CONTROL DEVICES SCHEDULE								
SYMBOL	DESCRIPTION	MANUFACTURER CATALOG NUMBER	INPUT VOLTAGE	MOUNTING TYPE	REMARKS & AREA OF USE				
FSP	WATTSTOPPER ON/OFF/0-10 VOLT DIMMING OUTDOOR EXTERIOR FIXTURE CONTROLLER, PROVIDES MULTI-LEVEL CONTROL BASED ON MOTION AND/OR DAYLIGHT CONTRIBUTION, UL LISTED.	FSP-311B-S-L3-B	UNV	STRAIGHT NIPPLE, J-BOX	LOCAL DIMMING CONTROL				
[TM-X]	TORK NSI ASTRONOMICAL TIMER, DWZ SERIES, 365/7 DAY ADVANCED MULTIPURPOSE CONTROLS 2 CHANNELS, SCHEDULING, SUNSET ASTRONOMIC, ADJUSTS FOR DAYLIGHT SAVING, LEAP YEAR, EQUIPPED WITH MANUAL OVERRIDE, 7-DAY POWER OUTAGE BACKUP, UL LISTED. "X" IN TM-X INDICATES TIMER NUMBER IN SEQUENCE, NEMA 3R NORYL INDOOR/OUTDOOR ENCLOSURE.	DWZ200B	120VAC, 208–240VAC, 277VAC	SURFACE MOUNT	LOCAL ASTRONOMIC TIMER AND MANUAL OVERRIDE				

- ELECTRICAL CONTRACTOR SHALL PROGRAM AND CONFIGURE THE LIGHTING CONTROL SYSTEM TO BE PER SEQUENCE OF OPERATION SPECIFIED AND THE FINISHED INSTALLATION SHALL MEET OR EXCEED TITLE 24 REQUIREMENTS.
- ELECTRICAL CONTRACTOR SHALL REFER TO TYPICAL WIRING DIAGRAMS AND PROVIDE REQUIRED CABLING SHOWN. FOLLOW PROPER WIRING TERMINATION PER MANUFACTURER'S
- ELECTRICAL CONTRACTOR SHALL PROVIDE ADDITIONAL LIGHTING CONTROL COMPONENTS, CABLING AND/OR HARDWARE TO CONSTRUCT AND COMMISSION A COMPLETE AND FUNCTIONING
- ELECTRICAL CONTRACTOR SHALL INSTALL LIGHTING CONTROL DEVICES ACCORDING TO MANUFACTURER'S REQUIREMENT AND ENVIRONMENT CONDITIONS BASED ON DEVICE LOCATION AND INTENDED USE SHOWN ON RESPECTIVE DRAWINGS. ELECTRICAL CONTRACTOR SHALL COORDINATE AND SCHEDULE A 1-DAY SITE VISIT WITH EEOR AT LEAST 2-WEEKS IN ADVANCE TO DEMONSTRATE COMPLIANCE OF THE LIGHTING CONTROL SYSTEM FUNCTIONALITY WITH SEQUENCE OF OPERATION UNDER NORMAL CONDITIONS, AND WITH CALIFORNIA ENERGY AND EMERGENCY EGRESS REQUIREMENTS. THE ELECTRICAL

CONTRACTOR SHALL COORDINATE AND SCHEDULE ADDITIONAL SITE VISITS UNTIL THE EEOR DEEMS THE LIGHTING CONTROL SYSTEM TO BE IN AN ACCEPTABLE STATE AND READY FOR

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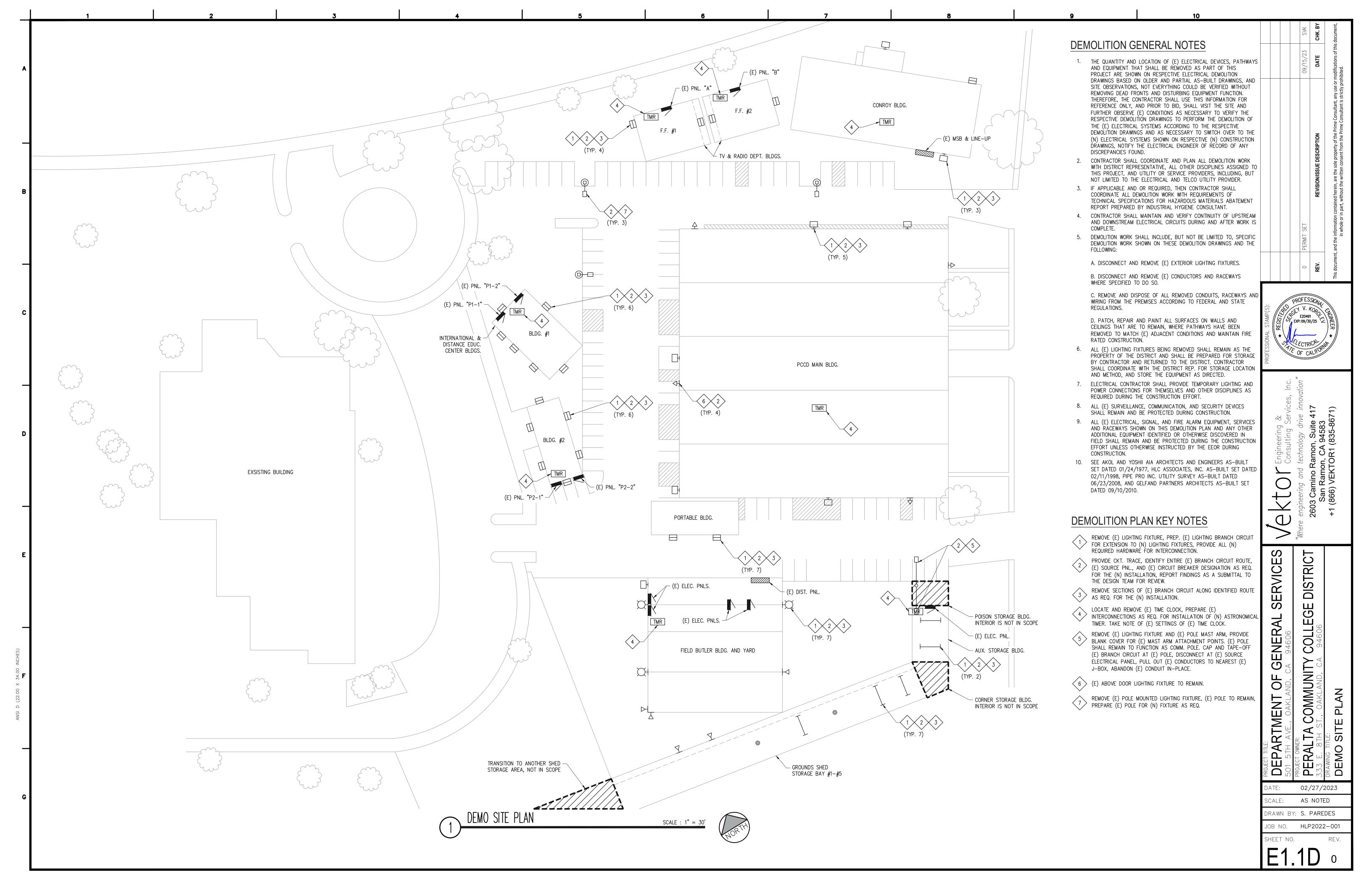
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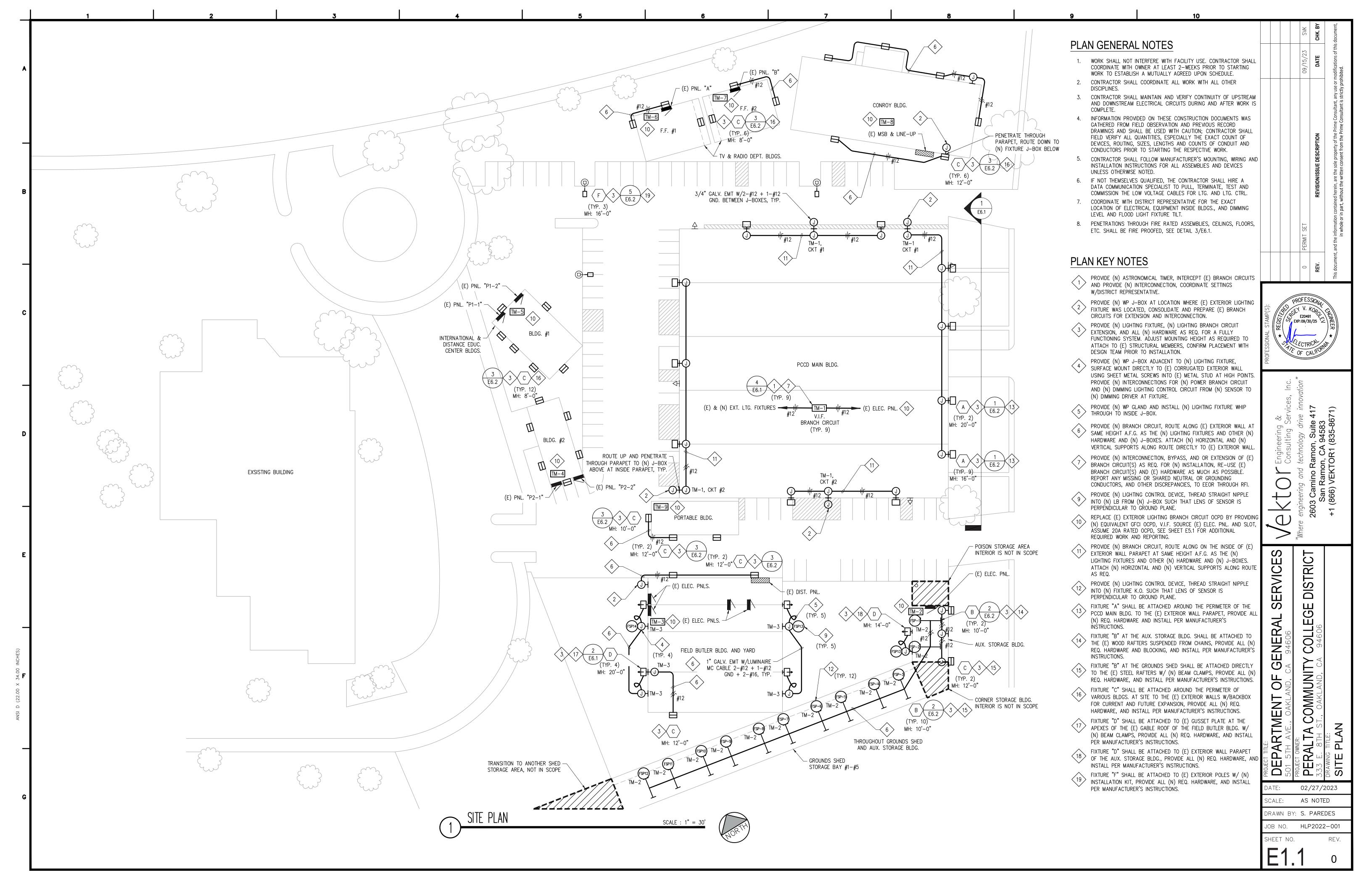
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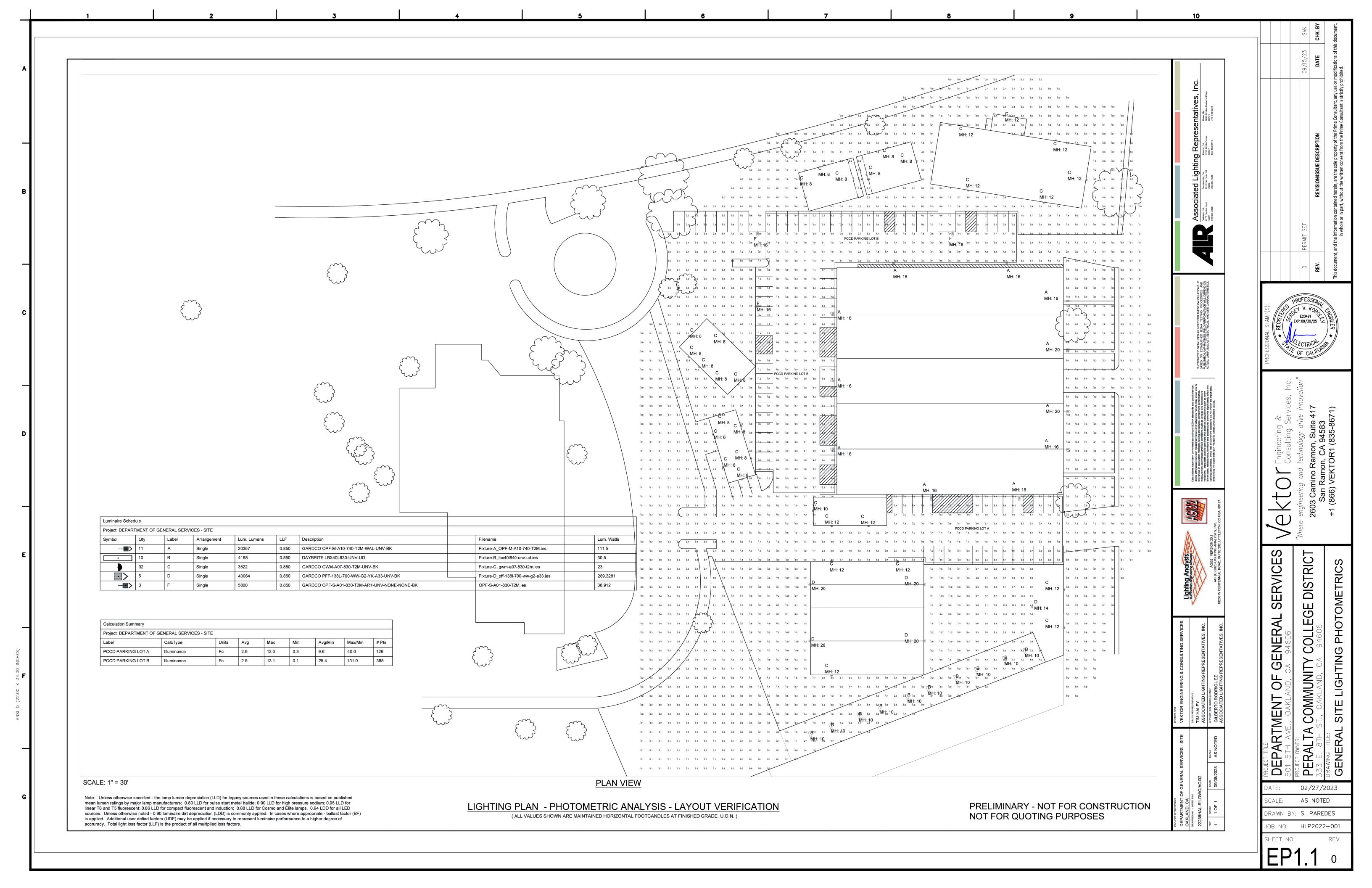
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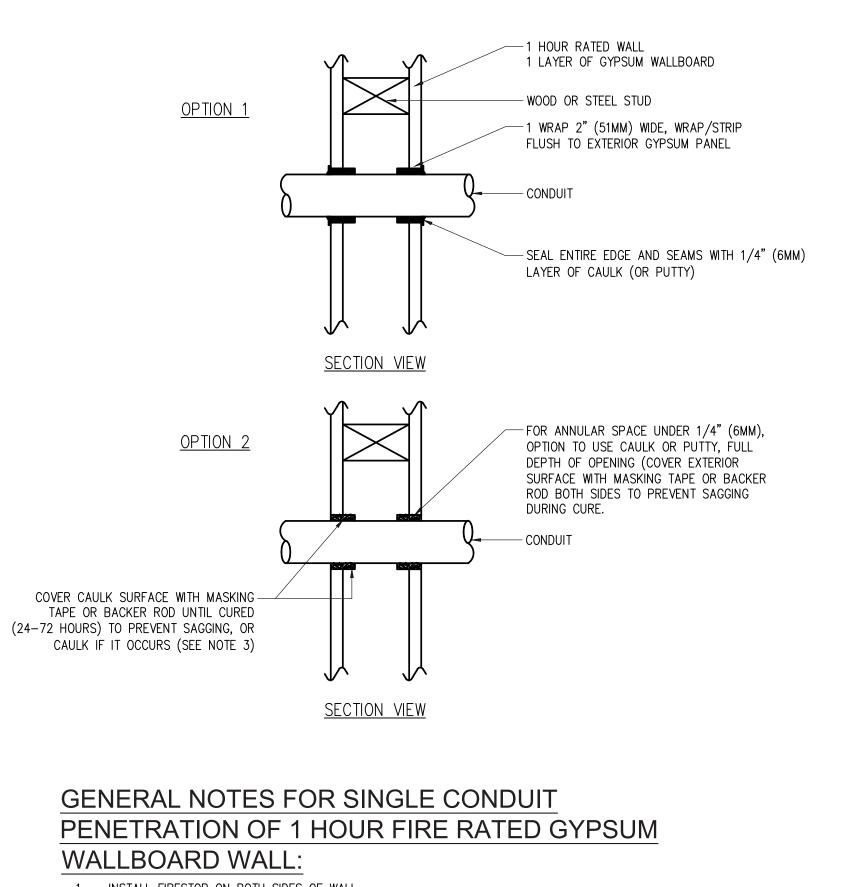
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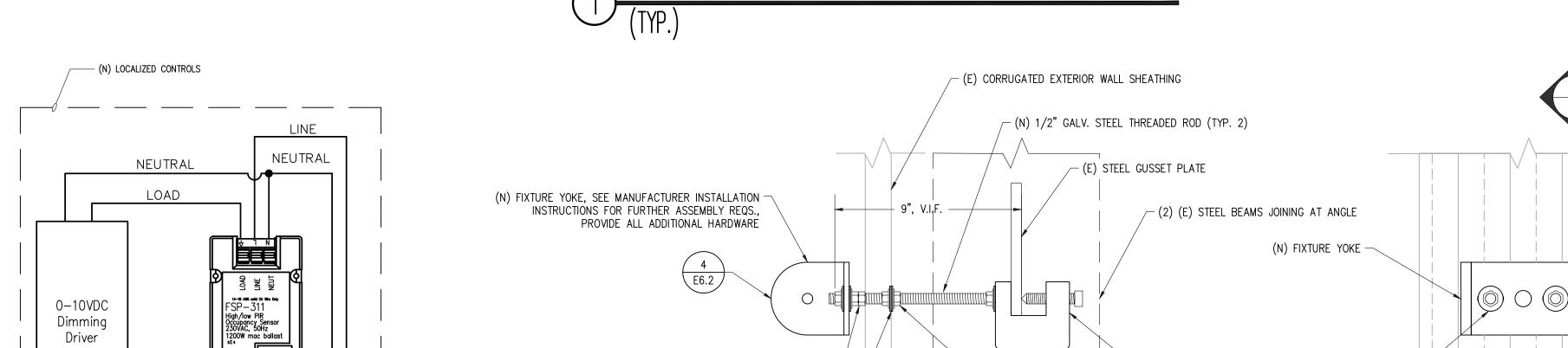
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									PANELS GENERAL NOTES	SVK CHK. BY his document,
A									1. ONCE CKT. TRACE IS COMPLETE FOR (E) EXTERIOR LIGHTING BRANCH CIRCUIT, REMOVE (E) PNL, DEAD FRONT AND VERIFY SCHEDULE.	09/15/23 DATE diffications of tl
									REPORT FINDINGS TO EEOR THROUGH SUBMITTAL, (E) PANEL SCHEDULES SHALL BE INCLUDED AS PART OF AS—BUILT DRAWINGS. 2. CONTRACTOR SHALL PROVIDE (N) TYPED PANEL SCHEDULE FOR EACH (N) OR (E) ELECTRICAL PANEL, PLACE IN CLEAR PLASTIC SLEEVE AND ATTACH TO INNER SURFACE OF PANEL DOOR.	any use or mo
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- 1. INSTALL FIRESTOP ON BOTH SIDES OF WALL.
- 2. RECOMMENDATIONS BASED ON PRODUCT PERFORMANCE PER ASTM E-814 (UL 1479) TIME TEMPERATURE FIRE ENCLOSURE CURVE.
- 3. OPTIONS FOR MASKING TAPE TO PREVENT SAGGING:
 A. INSTALL ADDITIONAL DAMMING MATERIAL INSIDE WALL AND OVER PRODUCT TO HOLD WITHIN B. REMOVE PRODUCT FROM CONTAINER AND ALLOW TO AIR CURE IN SMALL BATCHES FOR 12 HOURS, THEN HAND FORM INTO OPENING..







(N) 1/2" LOCKING NUT TO OFFSET FOR CORRUGATED -

SURFACE, OMIT FOR LARGER CORRUGATED SPACING WHERE (N) YOKE FITS ENTIRELY INTO LOW POCKET.

FIXTURE "A" MOUNTING, SECTION

PROVIDE SILICONE SEALANT AROUND — PENETRATION AND BEHIND WASHER

(N) SENSOR IS USED ONLY TO SET DIMMING LEVEL FOR FIXTURE "D", OCC. SENSOR FEATURE USED ONLY FOR FIXTURE "B", PHOTOCELL FEATURE IS DISABLED

SCALE: N.T.S.

0-10VDC Dimming Driver

FIXTURE

(N) ASTRO

GROUND

VIOLET (+)

GRAY(-) $\overline{\pm}$



(N) 1/2" GALV. STEEL BEAM CLAMP (TYP. 2)

- (N) 1/2" GALV. STEEL FLANGE NUT &

FENDER WASHER (TYP. 10)

(N) 1/2" THREADED ROD & ASSY., — PROVIDE ALL REQ. HARDWARE

FIXTURE "D" MTG. AT FIELD BUTLER BLDG.

SCALE: N.T.S.

SCALE: N.T.S.

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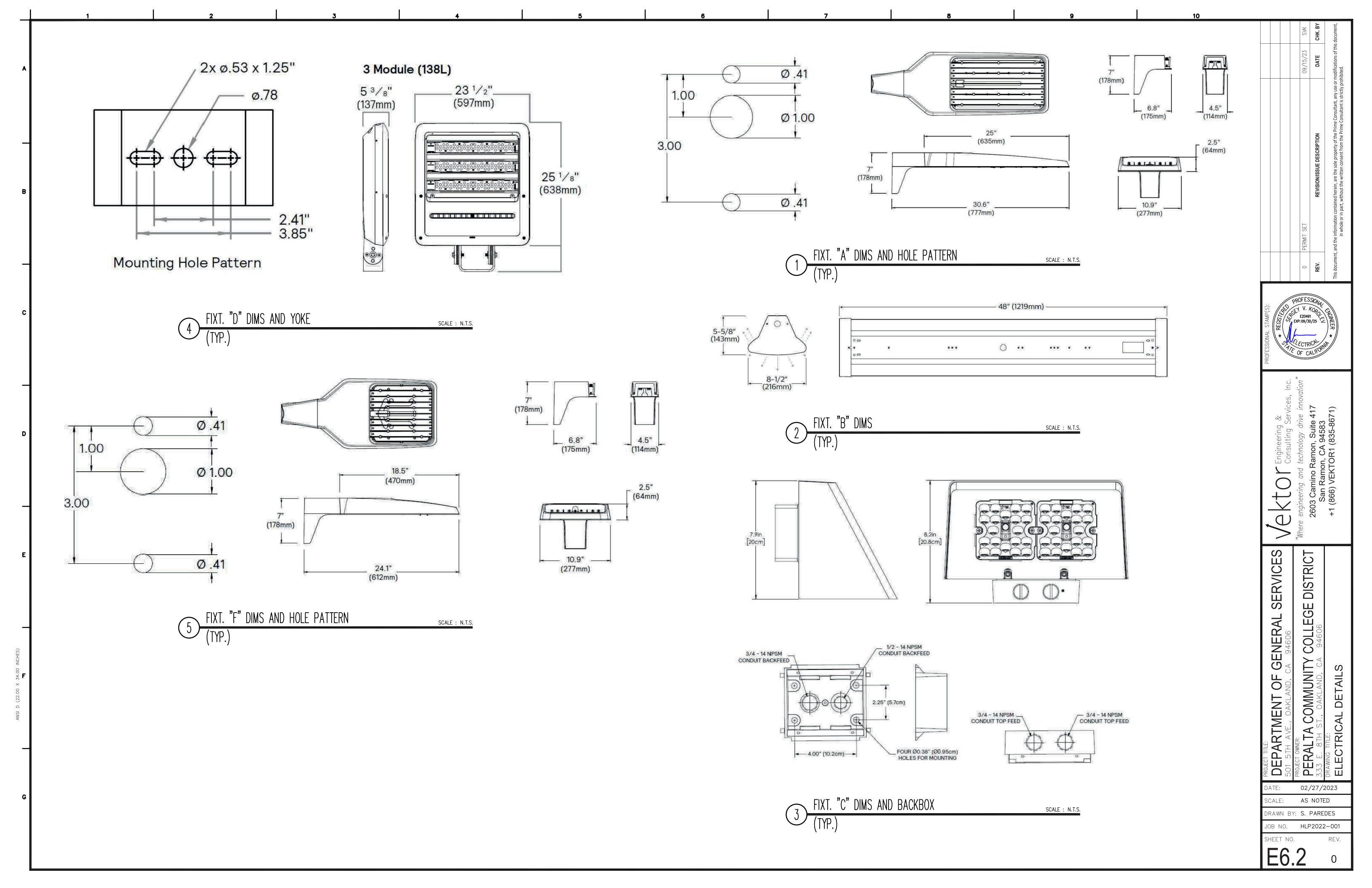
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02/27/2023 AS NOTED

DRAWN BY: S. PAREDES JOB NO. **HLP2022-001**

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STATE OF CALIFORNIA Outdoor Lighting CERTIFICATE OF COMPLIANCE Project Name: DGS - PCCD Main Bldg. Report Page: (Page 3 of 10)	STATE OF CALIFORNIA Outdoor Lighting CERTIFICATE OF COMPLIANCE Project Name: DGS - PCCD Main Bldg. Report Page: (Page 2 of 10)	STATE OF CALIFORNIA Outdoor Lighting CALIFORNIA ENERGY COMMISSION CERTIFICATE OF COMPLIANCE This document is used to demonstrate compliance with requirements in 110.9, 130.0, 130.2, 140.7, and 141.0(b)2L for outdoor lighting scopes using the prescriptive path for
Date Prepared: 2023-09-13T19:19:41-04:00	Date Prepared: 2023-09-13T19:19:41-04:00	nonresidential and hotel/motel occupancies. It is also used to document compliance with requirements in 160.5, 170.2(e)6, 180.1(a) and 180.2(b)4Bv for outdoor lighting scopes using the prescriptive path for multifamily and mixed-use occupancies. Multifamily includes dormitory and senior living facilities. Project Name: DGS - PCCD Main Bldg. Report Page: (Page 1 of 10) Project Address: 333 E. 8th St., Oakland, CA 94606 Date Prepared: 2023-09-13T19:19:41-04:00
F. OUTDOOR LIGHTING FIXTURE SCHEDULE For new or altered lighting systems demonstrating compliance with 140.7/170.2(e)6 all new luminaires being installed and any existing luminaires remaining or being moved within the spaces covered by the permit application are included in the Table below. For altered lighting systems using the Existing Power method per 141.0(b)2L only new luminaires being installed and replacement luminaires being installed as part of the project scope are included (le, existing luminaires remaining or existing luminaires being moved are not included). Outdoor lighting attached to multifamily buildings and controlled from the inside of a dwelling unit are included in Table H. and are not included here. All other multifamily outdoor lighting is included here. Designed Wattage: O1	C. COMPLIANCE RESULTS Results in this table are automatically calculated from data input and calculations in Tables F through N. Note: If any cell on this table says "COMPLIES with Exceptional Conditions" refer to Table D. Exceptional Conditions for guidance or see applicable Table referenced below. Calculations of Total Allowed Lighting Power (Wats) 140.7 / 170.2 (e) 6 or 141.0 (b) 2L / 180.2 (b) 4BV Campliance Results O1	A. GENERAL INFORMATION 0.1 Project Location (city) Oakland 0.2 Climate Zone 3 0.3 Outdoor Lighting Zone per Title 2 Part 1. 10.114 or as designated by Authority Having Jurisdiction (AHJ): 12-0: Very Low - Undeveloped Parkland 12-2: Moderate - Urban Clusters 12-4: High - Must be reviewed by CA Energy Commission for Approval 12-4: High - Must be reviewed by CA Energy Commission for Approval 12-4: High - Must be reviewed by CA Energy Commission for Approval 12-4: High - Must be reviewed by CA Energy Commission for Approval 12-4: High - Must be reviewed by CA Energy Commission for Approval 12-4: High - Must be reviewed by CA Energy Commission for Approval 12-4: High - Must be reviewed by CA Energy Commission for Approval 12-4: High - Must be reviewed by CA Energy Commission for Approval 12-4: High - Must be reviewed by CA Energy Commission for Approval 12-4: High - Must be reviewed by CA Energy Commission for Approval 12-4: High - Must be reviewed by CA Energy Commission for Approval 12-4: High - Must be reviewed by CA Energy Commission for Approval 12-4: High - Must be reviewed by CA Energy Commission for Approval 12-4: High - Must be reviewed by CA Energy Commission for Approval 12-4: High - Must be reviewed by CA Energy Commission for Approval 12-4: High - Must be reviewed by CA Energy Commission for Approval 12-4: High - Must be reviewed by CA Energy Commission for Approval 12-4: High - Must be reviewed by CA Energy Commission for Approval 12-4: High - Must be reviewed by CA Energy Commission for Approval 12-4: High - Must be reviewed by CA Energy Commission for Approval 12-4: High - Must be reviewed by CA Energy Commission for Approval 12-4: High - Must be reviewed by CA Energy Commission for Approval 12-4: High - Must be reviewed by CA Energy Commission for Approval 12-4: High - Must be reviewed by CA Energy Commission for Approval 12-4: High - Must be reviewed by CA Energy Commission for Approval 12-4: High - Must be reviewed by CA Energy Commission
Generated Date/Time: CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance Report Version: 2022.0.000 Schema Version: rev 20220101 Compliance ID: 132540-0923-0003 Report Generated: 2023-09-13 16:19:45	Generated Date/Time: CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance Report Version: 2022.0.000 Schema Version: rev 20220101 Compliance ID: 132540-0923-0003 Report Generated: 2023-09-13 16:19:45	Generated Date/Time: CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance Report Version: 2022.0.000 Schema Version: rev 20220101 Compliance ID: 132540-0923-0003 Report Generated: 2023-09-13 16:19:45
CALIFORNIA ENERGY COMMISSION CERTIFICATE OF COMPLIANCE Project Name: DGS - PCCD Main Bldg. Report Page: (Page 6 of 10) Date Prepared: 2023-09-13T19:19:41-04:00	Outdoor Lighting CERTIFICATE OF COMPLIANCE Project Name: DGS - PCCD Main Bldg. Report Page: (Page 5 of 10) Date Prepared: 2023-09-13T19:19:41-04:00	CALIFORNIA ENERGY COMMISSION CERTIFICATE OF COMPLIANCE Project Name: DGS - PCCD Main Bldg. Report Page: (Page 4 of 10) Date Prepared: 2023-09-13T19:19:41-04:00
This table includes areas using allowance calculations per 140.7/ 170.2(e). General Hardscape Allowance is per Table 140.7-B / Table 170.2-S. 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. Outdoor lighting attached to multifamily buildings and controlled from the inside of a dwelling unit are included in Table H. and are not included here. Calculated General Hardscape Lighting Power Allowance per Table 140.7-A for Nonresidential & Hotel/Motel O2	This table demonstrates 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 untuouched) 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. Outdoor lighting for nonresidential buildings, parking garages and common service areas in multifamily buildings must be documented separately from outdoor lighting attached to multifamily buildings and controlled from the inside of a dwelling unit Mandatory Controls for Nonresidential Occupancies, Parking Garages & Common Areas in Multifamily Buildings O1	This table includes fixtures of >=6,200 initial lumens indicated on Table F as needing to comply with Shielding Requirements. Maximum lumens can be found in Title 24, Part 11, Section 5,106.8. 5.106.8. 101 02 03 04 05 06 07 08 09 10 11 12 Backlight Rating?
Generated Date/Time: Documentation Software: Energy Code Ace CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance Report Version: 2022.0.000 Compliance ID: 132540-0923-0003 Report Generated: 2023-09-13 16:19:45 STATE OF CALIFORNIA Outdoor Lighting CERTIFICATE OF COMPLIANCE Project Name: DGS - PCCD Main Bldg. Report Page: (Page 9 of 10)	Generated Date/Time: CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance Report Version: 2022.0.000 Report Generated: 2023-09-13 16:19:45 STATE OF CALIFORNIA Outdoor Lighting CALIFORNIA ENERGY COMMISSION CERTIFICATE OF COMPLIANCE Project Name: DGS - PCCD Main Bldg. Report Page: Documentation Software: Energy Code Ace Compliance ID: 132540-0923-0003 Report Version: 2022.0.000 Report Version: 2022.0.000 Compliance ID: 132540-0923-0003 Report Generated: 2023-09-13 16:19:45 CALIFORNIA ENERGY COMMISSION CERTIFICATE OF COMPLIANCE Project Name: DGS - PCCD Main Bldg. Report Page: (Page 8 of 10)	Generated Date/Time: Documentation Software: Energy Code Ace CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance Report Version: 2022.0.000 Compliance ID: 132540-0923-0003 Report Generated: 2023-09-13 16:19-45 STATE OF CALIFORNIA Outdoor Lighting CERTIFICATE OF COMPLIANCE Project Name: DGS - PCCD Main Bldg. Report Page: (Page 7 of 10) Date Prepared: 2023-09-137119-19-41-04.00
P. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE There are no NRCA forms required for this project.	M. LIGHTING ALLOWANCE: PER SPECIFIC AREA This table includes areas using the wattage allowance per specific area from Table 140.7-B/Table 170.2-S. More than one specific area allowance may be taken in a single project, if applicable. However, multiple specific area allowances may not be taken for the exact same area on the site. O1	J. LIGHTING ALLOWANCE: PER APPLICATION This table includes areas using the wattage allowance per application from Table 140.7-B / Table 170.2-5. O1 O2 O3 O4 O5 O6 O7 O8 O9 10 CALCULATED ALLOWANCE (Watts) Area Description Application per Table 140.7-B / H of Locations Per Locations Locations Per Locations (Watts) (Watts) (Extra Allowance (Watts)) Entrances PCCD Main Bldg. Building Entrance/Exit 12 19 228 A 112 5 560 228 Total Design Watts for this Area: 1352
	Total Allowance (Watts) All Areas: 1352 1 FOOTNOTES: See Table 140.7-B / Table 170.2-S for rules for calculating the specific areas (ft² for these additional lighting allowances. 2 For luminaires indicated in Table F as linear, wattage in column 07 is W/lf instead of Watts/luminaire. Total linear feet should be indicated in column 08 instead of number of luminaires. N. EXISTING CONDITIONS POWER ALLOWANCE (alterations only) This section does not apply to this project. O. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION Selections have been made based on information provided in this document. If any selection has been changed by permit applicant, an explanation should be included in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and can be found online Form/Title NRCI-LTO-E - Must be submitted for all buildings	Total Allowance (Watts) All Areas: 1 FOOTNOTES: Primary entrance applications are only available for senior care facilities, healthcare facilities, police stations, hospitals, fire stations, and emergency vehicle facilities. 2 The Allowance per Location for ATMs is 100W for the first ATM and 35W for each additional per Table 140.7-8 /Table 170.2-5. 3 For luminaires indicated in Table F as linear, wattage in column 07 is W/lf instead of Watts/luminaire. Total linear feet should be indicated in column 08 instead of number of luminaires. K. LIGHTING ALLOWANCE: SALES FRONTAGE This section does not apply to this project. LIGHTING ALLOWANCE: ORNAMENTAL This section does not apply to this project. DATE: SCALE DRAW JOB N

PCCD MAIN BLDG. NRCC-LTO-01E

A B	CERTIFICATE OF CAUFORNIA Outdoor Lighting CERTIFICATE OF COMPILANCE Project Name: DGS - PCCD Main Bidg. Project Address: 333 E. 8th St., Oakland, CA 94606 Date Prepared: DOCUMENTATION AUTHOR'S DECLARATION STATEMENT Certify that this Certificate of Compiliance documentation is accurate and complete. Documentation Author Name: Documentation Author Name: Sergey Korolev	sation (if applicable): In design identified on this Certificate of Compliance (responsible designer) In design identified on this Certificate of Compliance conform to the requirements In ovided on other applicable compliance documents, worksheets, calculations, The building, and made available to the enforcement agency for all applicable on the builder provides to the building owner at occupancy.
C Synthesis of the State of the	Chiluteire (pronge (Michae) Soundaries - 2022 (Asmissionella Generature) - Soloma New York (Prone) - 2022 (Asmissionella Generature) - Soloma New York (Prone) - 2022 (Asmissionella Generature) - Soloma New York (Prone) - 2022 (Asmissionella Generature) - Soloma New York (Prone) - 2022 (Asmissionella Generature) - Soloma New York (Prone) - 2022 (Asmissionella Generature) - Soloma New York (Prone) - 2022 (Asmissionella Generature) - Soloma New York (Prone) - 2022 (Asmissionella Generature) - Soloma New York (Prone) - 2022 (Asmissionella Generature) - Soloma New York (Prone) - 2022 (Asmissionella Generature) - Soloma New York (Prone) - 2022 (Asmissionella Generature) - Soloma New York (Prone) - 2022 (Asmissionella Generature) - Soloma New York (Prone) - 2022 (Asmissionella Generature) - Soloma New York (Prone) - 2022 (Asmissionella Generature) - Soloma New York (Prone) - 2022 (Asmissionella Generature) - Soloma New York (Prone) - 2022 (Asmissionella Generature) - Soloma New York (Prone) - 2022 (Asmissionella Generature) - Soloma New York (Prone) - 2022 (Asmissionella Generature) - Soloma New York (Prone) - 2022 (Asmissionella Generature) - Soloma New York (Prone) - 2022 (Asmissionella Generature) - 2022 (Asmission	The property of the property o

Attdoor Lighting CALIFORNIA ENERGY COMMISSION REFLICATE OF COMPLIANCE ject Name: DGS - Aux. Storage Report Page: (Page 3 of 7)	Outdoor Lighting CERTIFICATE OF COMPLIANCE Project Name: DGS - Aux Storage Report Page: (Page 2 of 7)	Outdoor Lighting CERTIFICATE OF COMPLIANCE This document is used to demonstrate compliance with requirements in 110.9, 130.0, 130.2, 140.7, and 141.0/b)21, for outdoor lighting scopes using the prescriptive path for
roject Name: DGS - Aux. Storage Report Page: (Page 3 of 7) Date Prepared: 2023-09-13T19:00:20-04:00	Project Name: DGS - Aux. Storage Report Page: (Page 2 of 7) Date Prepared: 2023-09-13T19:00:20-04:00	This document is used to demonstrate compliance with requirements in 110.9, 130.0, 130.2, 140.7, and 141.0(b)2L for outdoor lighting scopes using the prescriptive path for nonresidential and hotel/motel occupancies. It is also used to document compliance with requirements in 160.5, 170.2(e)6, 180.1(a) and 180.2(b)4Bv for outdoor lighting scopes using the prescriptive path for multifamily and mixed-use occupancies. Multifamily includes dormitory and senior living facilities. Project Name: DGS - Aux. Storage Report Page: (Page 1 of 7)
F. OUTDOOR LIGHTING FIXTURE SCHEDULE	C. COMPLIANCE RESULTS	Project Address: 333 E. 8th St., Oakland, CA 94606 Date Prepared: 2023-09-13T19:00:20-04:00
For new or altered lighting systems demonstrating compliance with 140.7 / 170.2(e)6 all new luminaires being installed and any existing luminaires remaining or being moved within the spaces covered by the permit application are included in the Table below. For altered lighting systems using the Existing Power method per 141.0(b)2L only new luminaires being installed and replacement luminaires being installed as part of the project scope are included (ie, existing luminaires remaining or existing luminaires being moved are not included).	Results in this table are automatically calculated from data input and calculations in Tables F through N. Note: If any cell on this table says "COMPLIES with Exceptional Conditions" refer to Table D. Exceptional Conditions for guidance or see applicable Table referenced below.	A. GENERAL INFORMATION
Outdoor lighting attached to multifamily buildings and controlled from the inside of a dwelling unit are included in Table H. and are not included here. All other multifamily outdoor ighting is included here.	Calculations of Total Allowed Lighting Power (Watts) 140.7 / 170.2(e)6 or 141.0(b)2L / 180.2(b)4Bv Compliance Results 01 02 03 04 05 06 07 08 09	01 Project Location (city) Oakland 02 Climate Zone 3 Total Illuminated Hardscape Area (ft²) 5312
Oesigned Wattage: 01 02 03 04 05 06 07 08 09 10	General Hardscape Hardscape Application Application Application Application Area OR Allewages Area OR Allewages Area OR Allewages Area OR Allewages Area OR Allewages Area	03 Outdoor Lighting Zone per Title 24 Part 1 10.114 or as designated by Authority Having Jurisdiction (AHJ): □ LZ-0: Very Low - Undeveloped Parkland □ LZ-2: Moderate - Urban Clusters □ LZ-4: High - Must be reviewed by CA Energy Commission for Approval
Name or Item Complete Luminaire Description Watts per Watts per Wattage Wattage How is Wattage Watta	Allowance $\begin{vmatrix} 140.7(d)2 / \\ 140.7(d)2 / \\ 170.2(e)6 \end{vmatrix}$ $\begin{vmatrix} 140.7(d)2 / \\ 170.2(e)6 \end{vmatrix}$	□ LZ-1: Low - Rural Areas □ LZ-3: Moderately High - Urban Areas 05 Occupancy Types within Project
Tag Complete Editinate Description luminaire ^{1,2} Wattage determined Luminaires ² Status ³ 140.7(a) / 170.2(e)6A 130.2(b) / 160.5(c)1 ⁴ Pass Fail	(See Table I) (See Table J) (See Table K) (See Table M) (See Table N) (See Table N) 184.75 + + + + >	• Warehouse
D GARDCO PFF Linear 289 Mfr. Spec 1 New 🖂 Permitted by 🗆	Shielding Compliance (See Table G for Details) Controls Compliance (See Table H for Details) COMPLIES	B. PROJECT SCOPE
C GARDCO GWM ☐ Linear 23 Mfr. Spec 2 New ☐ 46 NA: < 6200 lumens ☐ ☐	D. EXCEPTIONAL CONDITIONS	This table includes outdoor lighting systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in 140.7 / 170.2(e)6 or 141.0(b)2L / 180.2(b)4Bv for alterations. My Project Consists of:
Total Design Watts: 46 * NOTES: Selections with a * require a note in the space below explaining how compliance is achieved.	This table is auto-filled with uneditable comments because of selections made or data entered in tables throughout the form.	01 02 New Lighting System Must Comply with Allowances from 140.7 / 170.2(e)6
FOOTNOTES: Authority Having Jurisdiction may ask for Luminaire cut sheets to confirm wattage used for compliance per 130.0(c) / 160.5(b)	E. ADDITIONAL REMARKS	New Lighting System
For linear luminaires, wattage should be indicated as W/lf instead of Watts/luminaire. Total linear feet should be indicated in column 05 instead of number of luminaires. Select "New" for new luminaires in a new outdoor lighting project, or for added luminaires in an alteration. Select "Altered" for replacement luminaires in an alteration. Select "Existing to Remain"	This table includes remarks made by the permit applicant to the Authority Having Jurisdiction.	% of Existing Luminaires Being Altered¹ Sum Total of Luminaires Being Added or Altered Calculation Method
or existing luminaires within the project scope that are not being altered and are remaining. Select "Existing Reinstalled" for existing luminaires which are being removed and reinstalled as part of the project scope. Compliance with mandatory shielding requirements is required for luminaires with initial lumen output >= 6,200 unless exempted by 130.2(b)/ 160.5(c)		□ < 10%
G. SHIELDING REQUIREMENTS (BUG)		¹ FOOTNOTES: % of Existing Luminaires Being Altered = (Sum Total of Luminaires Being Added or Altered / Existing Luminaires within the Scope of the Permit Application) x 100.
This section does not apply to this project.		
CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance Report Version: 2022.0.000 Report Version: 2022.0.000 Compliance ID: 133180-0923-0002	CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance Report Version: 2022.0.000 Report Version: 2022.0.000 Compliance ID: 133180-0923-0002	CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance Report Version: 2022.0.000 Compliance ID: 133180-0923-0002
Schema Version: rev 20220101 Report Generated: 2023-09-13 16:00:23	Schema Version: rev 20220101 Report Generated: 2023-09-13 16:00:23	Schema Version: rev 20220101 Report Generated: 2023-09-13 16:00:23
STATE OF CALIFORNIA Outdoor Lighting CALIFORNIA ENERGY COMMISSION	Outdoor Lighting California energy commission	STATE OF CALIFORNIA Outdoor Lighting CALIFORNIA ENERGY COMMISSION
CERTIFICATE OF COMPLIANCE Project Name: DGS - Aux. Storage Report Page: (Page 6 of 7)	CERTIFICATE OF COMPLIANCE Project Name: DGS - Aux. Storage Report Page: (Page 5 of 7)	CERTIFICATE OF COMPLIANCE NRCC-LTO-E Project Name: DGS - Aux. Storage Report Page: (Page 4 of 7)
Date Prepared: 2023-09-13T19:00:20-04:00	Date Prepared: 2023-09-13T19:00:20-04:00	Date Prepared: 2023-09-13T19:00:20-04:00
M. LIGHTING ALLOWANCE: PER SPECIFIC AREA	I. LIGHTING POWER ALLOWANCE (per 140.7 / 170.2(e))	H. OUTDOOR LIGHTING CONTROLS
This section does not apply to this project.	This table includes areas using allowance calculations per 140.7 / 170.2(e). General Hardscape Allowance is per Table 140.7-A/Table 170.2-R while "Use it or lose it" Allowances are per Table 140.7-B / Table 170.2-S. Indicate which allowances are being	This table demonstrates 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.
N. EXISTING CONDITIONS POWER ALLOWANCE (alterations only)	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. Outdoor limit to prove the location of the "Use it or lose it" allowance. Control of the "Use it or lose it" allowance it	Outdoor lighting for nonresidential buildings, parking garages and common service areas in multifamily buildings must be documented separately from outdoor lighting attached to multifamily buildings and controlled from the inside of a dwelling unit
This section does not apply to this project.	Outdoor lighting attached to multifamily buildings and controlled from the inside of a dwelling unit are included in Table H. and are not included here. All other multifamily outdoor lighting is included here.	Mandatory Controls for Nonresidential Occupancies, Parking Garages & Common Areas in Multifamily Buildings 01 02 03 04 05
O. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION Selections have been made based on information provided in this document. If any selection has been changed by permit applicant, an explanation should be included in Table E.	Calculated General Hardscape Lighting Power Allowance per Table 140.7-A for Nonresidential & Hotel/Motel 02 03 04 05 06 07 08 09	Area Description Shut-Off Auto-Schedule Motion Sensor Field Inspector 130.2(c)1 / 160.5(c) 130.2(c)2 / 160.5(c) 130.2(c)3 / 160.5(c)
Additional Remarks. These documents must be provided to the building inspector during construction and can be found online Form/Title	Area Wattage Allowance (AWA) Linear Wattage Allowance (LWA) Total General Area Description Illuminated Area Allowed Density Area Allowance Perimeter Length Allowed Density Linear Allowance AWA + LWA	Hardscape Area around Aux. Storage: "D" Astronomical Timer Provided NA: Industrial Sites Lighting □ □
NRCI-LTO-E - Must be submitted for all buildings	(ft²) (W/ft²) (Watts) (If) (W/lf) (Watts) Hardscape Area around Aux. Storage 5312 0.021 111.55 366 0.2 73.2 184.75	Hardscape Area around Aux. Storage: "C" Astronomical Timer Provided NA: Each Luminaire <= 40 Watts
P. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE	Initial Wattage Allowance for Entire Site (Watts): Instances of Initial Wattage Allowance (LZ 0 only) ¹	¹ FOOTNOTE: Text has been abbreviated, please refer to Table 160.5-A to confirm compliance with the specific light source technologies listed. ² Authority having jurisdiction may ask for cutsheets or other documentation to confirm compliance of light source.
There are no NRCA forms required for this project.	Total General Hardscape Allowance (Watts): 184.75	³ Recessed luminaires marked for use in fire-rated installations, and recessed luminaires installed in non-insulated ceilings are excepted from ii and iii.
	J. LIGHTING ALLOWANCE: PER APPLICATION This section does not apply to this project.	
	K. LIGHTING ALLOWANCE: SALES FRONTAGE	
	This section does not apply to this project.	
	L. LIGHTING ALLOWANCE: ORNAMENTAL	
	This section does not apply to this project.	
Generated Date/Time: Documentation Software: Energy Code Ace	Generated Date/Time: Documentation Software: Energy Code Ace	Generated Date/Time: Documentation Software: Energy Code Ace
CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance Report Version: 2022.0.000 Schema Version: rev 20220101 Compliance ID: 133180-0923-0002 Report Generated: 2023-09-13 16:00:23	CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance Report Version: 2022.0.000 Compliance ID: 133180-0923-0002 Schema Version: rev 20220101 Report Generated: 2023-09-13 16:00:23	CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance Report Version: 2022.0.000 Compliance ID: 133180-0923-0002 Schema Version: rev 20220101 Report Generated: 2023-09-13 16:00:23
		STATE OF CALIFORNIA
		Outdoor Lighting CALIFORNIA ENERGY COMMISSION CERTIFICATE OF COMPLIANCE NRCC-LTO-E Project Name: DGS - Aux. Storage Report Page: (Page 7 of 7)
		Project Address: 333 E. 8th St., Oakland, CA 94606 Date Prepared: 2023-09-13T19:00:20-04:00
		DOCUMENTATION AUTHOR'S DECLARATION STATEMENT
		I certify that this Certificate of Compliance documentation is accurate and complete.
		Documentation Author Name: Documentation Author Signature:
		Documentation Author Name: Sergey Korolev Company: Vektor Engineering and Consulting Services, Inc. Documentation Author Signature: Signature Date: 9/13/2023
		Documentation Author Name: Sergey Korolev Company: Vektor Engineering and Consulting Services, Inc. Address: 2603 Camino Ramon, Suite 417 City/State/Zip: San Ramon, CA 94583 Documentation Author Signature: Signature Date: 9/13/2023 CEA/ HERS Certification (if applicable): Phone: (925) 698-8067
		Documentation Author Name: Sergey Korolev Company: Vektor Engineering and Consulting Services, Inc. Address: 2603 Camino Ramon, Suite 417 Documentation Author Signature: Signature Date: 9/13/2023 CEA/ HERS Certification (if applicable):
		Documentation Author Name: Sergey Korolev Company: Vektor Engineering and Consulting Services, Inc. Address: 2603 Camino Ramon, Suite 417 CEA/ HERS Certification Identification (if applicable): City/State/Zip: San Ramon, CA 94583 RESPONSIBLE PERSON'S DECLARATION STATEMENT I certify the following under penalty of perjury, under the laws of the State of California: 1. The information provided on this Certificate of Compliance is true and correct. 2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer) 3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.
		Documentation Author Name: Sergey Korolev Company: Vektor Engineering and Consulting Services, Inc. Address: 2603 Camino Ramon, Suite 417 CEA/ HERS Certification Identification (if applicable): City/State/Zip: San Ramon, CA 94583 RESPONSIBLE PERSON'S DECLARATION STATEMENT I certify the following under penalty of perjury, under the laws of the State of California: 1. The information provided on this Certificate of Compliance is true and correct. 2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer) 3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements
		Documentation Author Name: Sergey Korolev Company: Vektor Engineering and Consulting Services, Inc. Address: 2603 Camino Ramon, Suite 417 CEA/ HERS Certification Identification (if applicable): City/State/Zip: San Ramon, CA 94583 Phone: (925) 698-8067 RESPONSIBLE PERSON'S DECLARATION STATEMENT I certify the following under penalty of perjury, under the laws of the State of California: 1. The information provided on this Certificate of Compliance is true and correct. 2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer) 3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations. 4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application. 5. I will ensure that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the building owner at occupancy. Responsible Designer Name: Responsible Designer Signature:
		Documentation Author Name: Sergey Korolev Company: Vektor Engineering and Consulting Services, Inc. Address: 2603 Camino Ramon, Suite 417 CEA/ HERS Certification Identification (if applicable): City/State/Zip: San Ramon, CA 94583 RESPONSIBLE PERSON'S DECLARATION STATEMENT I certify the following under penalty of perjury, under the laws of the State of California: 1. The information provided on this Certificate of Compliance is true and correct. 2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer) 3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations. 4. The building design features or system design features or system design indentified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations. 5. I will ensure that a completed signed copy of this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application. 5. I will ensure that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the building owner at occupancy. Responsible Designer Name: Responsible Designer Name: Responsible Designer Signature: Responsible Designer Signature: Responsible Designer Signature: Sergey Korolev Company: Vektor Engineering and Consulting Services, Inc. Date Signed: 9/13/2023 License: CA E20491
		Documentation Author Name: Sergey Korolev Company: Vektor Engineering and Consulting Services, Inc. Address: 2603 Camino Ramon, Suite 417 City/State/Zip: San Ramon, CA 94583 RESPONSIBLE PERSON'S DECLARATION STATEMENT I certify the following under penalty of perjury, under the laws of the State of California: 1. The information provided on this Certificate of Compliance is true and correct. 2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations. 4. The building design features or system design features identified on this Certificate of Compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application. 5. I will ensure that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the building owner at occupancy. Responsible Designer Name: Sergey Korolev Company: Vektor Engineering and Consulting Services, Inc. Date Signature Date: 9/13/2023
		Documentation Author Name: Sergey Korolev Company: Vektor Engineering and Consulting Services, Inc. Address: 2603 Camino Ramon, Suite 417 CEA/ HERS Certification Identification (if applicable): City/State/Zip: San Ramon, CA 94583 RESPONSIBLE PERSON'S DECLARATION STATEMENT I certify the following under penalty of perjury, under the laws of the State of California: 1. The information provided on this Certificate of Compliance is true and correct. 2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer) 3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations. 4. The building design features or system design features or system design indentified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations. 5. I will ensure that a completed signed copy of this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application. 5. I will ensure that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the building owner at occupancy. Responsible Designer Name: Responsible Designer Name: Responsible Designer Signature: Responsible Designer Signature: Responsible Designer Signature: Sergey Korolev Company: Vektor Engineering and Consulting Services, Inc. Date Signed: 9/13/2023 License: CA E20491
		Documentation Author Name: Sergey Korolev Company: Vektor Engineering and Consulting Services, Inc. Address: 2603 Camino Ramon, Suite 417 CEA/ HERS Certification Identification (if applicable): City/State/Zip: San Ramon, CA 94583 RESPONSIBLE PERSON'S DECLARATION STATEMENT I certify the following under penalty of perjury, under the laws of the State of California: 1. The information provided on this Certificate of Compliance is true and correct. 2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer) 3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations. 4. The building design features or system design features or system design indentified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations. 5. I will ensure that a completed signed copy of this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application. 5. I will ensure that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the building owner at occupancy. Responsible Designer Name: Responsible Designer Name: Responsible Designer Signature: Responsible Designer Signature: Responsible Designer Signature: Sergey Korolev Company: Vektor Engineering and Consulting Services, Inc. Date Signed: 9/13/2023 License: CA E20491
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DISTRICT

PERALTA COMMUNITY COLLEGE

02/27/2023 AS NOTED

BY: S. PAREDES

HLP2022-001

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	STATE OF CALIFORNIA Outdoor Lighting CALIFORNIA ENERGY COMMISSION	STATE OF CALIFORNIA Outdoor Lighting CALIFORNIA ENERGY COMMISSION	STATE OF CALIFORNIA Outdoor Lighting CALIFORNIA ENERGY COMMISSION	SVK SVK
	CERTIFICATE OF COMPLIANCE Project Name: DGS - Conroy Bldg. Report Page: (Page 3 of 8)	CERTIFICATE OF COMPLIANCE Project Name: DGS - Conroy Bldg. Report Page: (Page 2 of 8)	CERTIFICATE OF COMPLIANCE This document is used to demonstrate compliance with requirements in 110.9, 130.0, 130.2, 140.7, and 141.0(b)2L for outdoor lighting scopes using the prescriptive path for	m /23
A	Date Prepared: 2023-09-13T19:36:28-04:00	Date Prepared: 2023-09-13T19:36:28-04:00	nonresidential and hotel/motel occupancies. It is also used to document compliance with requirements in 160.5, 170.2(e)6, 180.1(a) and 180.2(b)4Bv for outdoor lighting scopes using the prescriptive path for multifamily and mixed-use occupancies. Multifamily includes dormitory and senior living facilities. Project Name: DGS - Conroy Bldg. Report Page: (Page 1 of 8)	09/15
	F. OUTDOOR LIGHTING FIXTURE SCHEDULE For new or altered lighting systems demonstrating compliance with 140.7 / 170.2(e)6 all new luminaires being installed and any existing luminaires remaining or being moved within	C. COMPLIANCE RESULTS	Project Address: 333 E. 8th St., Oakland, CA 94606 Date Prepared: 2023-09-13T19:36:28-04:00	
	the spaces covered by the permit application are included in the Table below. For altered lighting systems using the Existing Power method per 141.0(b)2L only new luminaires being installed and replacement luminaires being installed as part of the project scope are included (ie, existing luminaires remaining or existing luminaires being moved are not included). Outdoor lighting attached to multifamily buildings and controlled from the inside of a dwelling unit are included in Table H. and are not included here. All other multifamily outdoor	Results in this table are automatically calculated from data input and calculations in Tables F through N. Note: If any cell on this table says "COMPLIES with Exceptional Conditions" refer to Table D. Exceptional Conditions for guidance or see applicable Table referenced below. Calculations of Total Allowed Lighting Power (Watts) 140.7 / 170.2(e)6 or 141.0(b)2L / 180.2(b)4Bv Compliance Results	A. GENERAL INFORMATION O1 Project Location (city) Oakland O4 Total Illuminated Hardscape Area (ft²) 15387	
	lighting is included here. Designed Wattage:	01 02 03 04 05 06 07 08 09 General Por Specific Existing Existing Existing	02 Climate Zone 3	
	01 02 03 04 05 06 07 08 09 10 Name or Item	Hardscape Hard	□ LZ-1: Low - Rural Areas □ LZ-3: Moderately High - Urban Areas O5 Occupancy Types within Project	NO.
	Tag Complete Luminaire Description Wattage Uminaire 1, 2 Uminaire 2 Complete Luminaire Description Wattage Uminaire 1, 2 Uminaire 2 Complete Luminaire Description Wattage Uminaire 1, 2 Uminaire 2 Status 3 140.7(a) / 170.2(e)6A Design Watts Umen output 130.2(b) / 160.5(c)14 Pass Fail	170.2(e)6 (See Table I) (See Table II) (See Table II) (See Table III) (See Table IIII) (See Table IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	• Office	SCRIPT
	C GARDCO GWM Linear 23 Mfr. Spec 3 Existing Alteration 69 NA: < 6200 lumens	Shielding Compliance (See Table G for Details) Controls Compliance (See Table H for Details) COMPLIES	B. PROJECT SCOPE This table includes outdoor lighting systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in 140.7 /	SSUE DE
	C GARDCO GWM ☐ Linear 23 Mfr. Spec 3 New ☐ 69 NA: < 6200 lumens ☐ ☐ Total Design Watts: 138	D. EXCEPTIONAL CONDITIONS	170.2(e)6 or 141.0(b)2L / 180.2(b)4Bv for alterations. My Project Consists of:	ISION/IS
В	* NOTES: Selections with a * require a note in the space below explaining how compliance is achieved. EX: Luminaire is lighting a statue; EXCEPTION 2 to 130.2(b) 1FOOTNOTES: Authority Having Jurisdiction may ask for Luminaire cut sheets to confirm wattage used for compliance per 130.0(c) / 160.5(b)	This table is auto-filled with uneditable comments because of selections made or data entered in tables throughout the form.	01 02 ☐ New Lighting System Must Comply with Allowances from 140.7 / 170.2(e)6 ☐ Altered Lighting System Is your alteration increasing the connected lighting load (Watts)? • Yes • No	R. H.
	² For linear luminaires, wattage should be indicated as W/lf instead of Watts/luminaire. Total linear feet should be indicated in column 05 instead of number of luminaires. ³ Select "New" for new luminaires in a new outdoor lighting project, or for added luminaires in an alteration. Select "Altered" for replacement luminaires in an alteration. Select "Existing to Remain" for existing luminaires which are being removed and reinstalled as part of	E. ADDITIONAL REMARKS This table includes remarks made by the permit applicant to the Authority Having Jurisdiction.	03 04 05 % of Existing Luminaires Being Altered¹ Sum Total of Luminaires Being Added or Altered Calculation Method	
	the project scope. 4 Compliance with mandatory shielding requirements is required for luminaires with initial lumen output >= 6,200 unless exempted by 130.2(b)/ 160.5(c)		□ < 10%	III SET
	G. SHIELDING REQUIREMENTS (BUG) This section does not apply to this project.		¹ FOOTNOTES: % of Existing Luminaires Being Altered = (Sum Total of Luminaires Being Added or Altered / Existing Luminaires within the Scope of the Permit Application) x 100.	DERV.
4	This section does not apply to this project.			REV.
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	CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance Report Version: 2022.0.000 Compliance ID: 133125-0923-0003 Schema Version: rev 20220101 Report Generated: 2023-09-13 16:36:31	CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance Report Version: 2022.0.000 Compliance ID: 133125-0923-0003 Schema Version: rev 20220101 Report Generated: 2023-09-13 16:36:31	CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance Report Version: 2022.0.000 Schema Version: rev 20220101 Report Generated: 2023-09-13 16:36:31	PROFESSION
С	STATE OF CALIFORNIA Outdoor Lighting CALIFORNIA ENERGY COMMISSION	STATE OF CALIFORNIA Outdoor Lighting CALIFORNIA ENERGY COMMISSION	STATE OF CALIFORNIA Outdoor Lighting CALIFORNIA ENERGY COMMISSION	(S) dWY (V. KORO) (S) E20491 (S) EXP: 09/30/25
	CERTIFICATE OF COMPLIANCE Project Name: DGS - Conroy Bldg. Report Page: (Page 6 of 8)	CERTIFICATE OF COMPLIANCE NRCC-LTO-E Project Name: DGS - Conroy Bldg. Report Page: (Page 5 of 8)	CERTIFICATE OF COMPLIANCE Project Name: DGS - Conroy Bldg. Report Page: (Page 4 of 8)	S S S S S S S S S S
	Date Prepared: 2023-09-13T19:36:28-04:00	Date Prepared: 2023-09-13T19:36:28-04:00	Date Prepared: 2023-09-13T19:36:28-04:00	OSS OF CALIFORNIA
	J. LIGHTING ALLOWANCE: PER APPLICATION This table includes areas using the wattage allowance per application from Table 140.7-B / Table 170.2-S.	I. LIGHTING POWER ALLOWANCE (per 140.7 / 170.2(e)) This table includes areas using allowance calculations per 140.7 / 170.2(e). General 01	H. OUTDOOR LIGHTING CONTROLS This table demonstrates compliance with controls requirements for all new or altered luminaires installed as part of the permit application. For alteration projects, luminaires which are	PRO
	01 02 03 04 05 06 07 08 09 10 CALCULATED ALLOWANCE (Watts) DESIGN WATTS Additional	Hardscape Allowance is per Table 140.7-A/Table 170.2-R while "Use it or lose it" Allowances are per Table 140.7-B /Table 170.2-S. Indicate which allowances are being used to expand sections for user input. Luminaires that qualify for one of the "Use it or "Use it or lose it" Allowance (select all that apply) (select all that apply) General	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. Outdoor lighting for nonresidential buildings, parking garages and common service areas in multifamily buildings must be documented separately from outdoor lighting attached to	nc. 00n"
	Area Description Application per Table 140.7-B ¹ Allowance per Allowance Allowance Extra Allowance Name or Luminaire Lumina	lose it" allowances shall not qualify for another "Use it or lose it" allowance. Outdoor lighting attached to multifamily buildings and controlled from the inside of a dwelling unit are included in Table H. and are not included here. All other multifamily Hardscape Allowance Allowance Allowance Application Table I (below) Table J Ornamental Area Table M T	multifamily buildings and controlled from the inside of a dwelling unit Mandatory Controls for Nonresidential Occupancies, Parking Garages & Common Areas in Multifamily Buildings	es, Ir
	Entrances Conroy Bldg. Building Entrance/Exit 3 19 57 C 23 1 23 57	outdoor lighting is included here. Calculated General Hardscape Lighting Power Allowance per Table 140.7-A for Nonresidential & Hotel/Motel	Area Description Shut-Off Auto-Schedule Area Description Area Description Auto-Schedule Auto-Schedule Auto-Schedule Auto-Schedule Auto-Schedule Auto-Schedule Auto-Schedule Auto-Schedule Auto-Schedule	& ervic, <i>ve inr</i>
D	C 23 2 46 Total Design Watts for this Area: 69	02 03 04 05 06 07 08 09 Area Wattage Allowance (AWA) Linear Wattage Allowance (LWA) Total General Area Description Illuminated Area Allowed Density Area Allowance Perimeter Length Allowed Density Linear Allowance AWA + LWA	Hardscape Area around Astronomical Times Provided NA: Each Lyminaira < 40 Watts	ing on a Suite
	Total Allowance (Watts) All Areas: 57 FOOTNOTES: Primary entrance applications are only available for senior care facilities, healthcare facilities, police stations, hospitals, fire stations, and emergency vehicle facilities.	(ft²) (W/ft²) (Watts) (If) (W/If) (Watts) (Watts) Hardscape Area around Conroy Bldg. 15387 0.021 323.13 650 0.2 130 453.13	Conroy Bldg.: "C" Hardscape Area around Conroy Bldg.: "C" Astronomical Timer Provided NA: Each Luminaire <= 40 Watts NA: Each Luminaire <= 40 Watts	ngineering & Sansulting Sechnology driv Chnology driv CA 94583
	² The Allowance per Location for ATMs is 100W for the first ATM and 35W for each additional per Table 140.7-B /Table 170.2-S. ³ For luminaires indicated in Table F as linear, wattage in column 07 is W/lf instead of Watts/luminaire. Total linear feet should be indicated in column 08 instead of number of luminaires.	Initial Wattage Allowance for Entire Site (Watts): Instances of Initial Wattage Allowance (LZ 0 only) ¹ Total General Hardscape Allowance (Watts): 453.13	Entrances Conroy Bldg.: "C" Astronomical Timer Provided NA: Each Luminaire <= 40 Watts	Eng Cor t tech
	K. LIGHTING ALLOWANCE: SALES FRONTAGE This section does not apply to this project.	issai sonera na assape menance (nata).	¹ FOOTNOTE: Text has been abbreviated, please refer to Table 160.5-A to confirm compliance with the specific light source technologies listed. ² Authority having jurisdiction may ask for cutsheets or other documentation to confirm compliance of light source. ³ Recessed luminaires marked for use in fire-rated installations, and recessed luminaires installed in non-insulated ceilings are excepted from ii and iii.	g and mino
	L. LIGHTING ALLOWANCE: ORNAMENTAL			Teerin San San
1	This section does not apply to this project.			engii. 260:
	M. LIGHTING ALLOWANCE: PER SPECIFIC AREA This section does not apply to this project.			Where
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	CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance Report Version: 2022.0.000 Compliance ID: 133125-0923-0003 Schema Version: rev 20220101 Report Generated: 2023-09-13 16:36:31	CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance Report Version: 2022.0.000 Compliance ID: 133125-0923-0003 Schema Version: rev 20220101 Report Generated: 2023-09-13 16:36:31	CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance Report Version: 2022.0.000 Schema Version: rev 20220101 Report Generated: 2023-09-13 16:36:31	STR
		STATE OF CALIFORNIA Outdoor Lighting CALIFORNIA ENERGY COMMISSION	Outdoor Lighting California Energy Commission	
		CERTIFICATE OF COMPLIANCE NRCC-LTO-E Project Name: DGS - Conroy Bldg. Report Page: (Page 8 of 8) Project Address: 333 E. 8th St., Oakland, CA 94606 Date Prepared: 2023-09-13T19:36:28-04:00	CERTIFICATE OF COMPLIANCE NRCC-LTO-E Project Name: DGS - Conroy Bldg. Report Page: (Page 7 of 8) Date Prepared: 2023-09-13T19:36:28-04:00	
\exists			2225 05 2012500125 0 100	
(S:		DOCUMENTATION AUTHOR'S DECLARATION STATEMENT I certify that this Certificate of Compliance documentation is accurate and complete. Documentation Author Name:	N. EXISTING CONDITIONS POWER ALLOWANCE (alterations only) This section does not apply to this project.	NE S S S S S S S S S
O INCHE		Documentation Author Name: Sergey Korolev Company: Vektor Engineering and Consulting Services, Inc. Signature Date: 9/13/2023 Of a / URBS Continue Power Suits 417	O. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION	
× 34.00		Address: 2603 Camino Ramon, Suite 417 CEA/ HERS Certification Identification (if applicable): City/State/Zip: San Ramon, CA 94583 RESPONSIBLE PERSON'S DECLARATION STATEMENT	Selections have been made based on information provided in this document. If any selection has been changed by permit applicant, an explanation should be included in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and can be found online	
(22.00		I certify the following under penalty of perjury, under the laws of the State of California: 1. The information provided on this Certificate of Compliance is true and correct. 2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer)	NRCI-LTO-E - Must be submitted for all buildings	
O ISN		 The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application. 	P. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE	JON STATE OF THE S
<		5. I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy. Responsible Designer Name:	There are no NRCA forms required for this project.	
		Sergey Korolev Company: Vektor Engineering and Consulting Services, Inc. Address: 2603 Camino Ramon, Suite 417 License: CA E20491		AR MNER: ATTE
		City/State/Zip: San Ramon, CA 94583 Phone: (925) 698-8067		DECT II DEP JECT II JECT OF DECT OF AWING
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		CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance Report Version: 2022.0.000 Compliance ID: 133125-0923-0003 Schema Version: rev 20220101 Report Generated: 2023-09-13 16:36:31	CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance Report Version: 2022.0.000 Schema Version: rev 20220101 Report Generated: 2023-09-13 16:36:31	JE7.4

	STATE OF CALIFORNIA Outdoor Lighting CERTIFICATE OF COMPLIANCE Project Name: DGS - Field Butler Bldg. Yard Report Page: (Page 3 of 8) Date Prepared: 2023-09-13T19:27:14-04:00	STATE OF CALIFORNIA Outdoor Lighting CERTIFICATE OF COMPLIANCE Project Name: DGS - Field Butler Bldg. Yard Report Page: (Page 2 of 8) Date Prepared: 2023-09-13T19:27:14-04:00	STATE OF CALIFORNIA Outdoor Lighting CALIFORNIA ENERGY COMMISSION CERTIFICATE OF COMPLIANCE This document is used to demonstrate compliance with requirements in 110.9, 130.0, 130.2, 140.7, and 141.0(b)2L for outdoor lighting scopes using the prescriptive path for nonresidential and hotel/motel occupancies. It is also used to document compliance with requirements in 160.5, 170.2(e)6, 180.1(a) and 180.2(b)4Bv for outdoor lighting scopes using
	For new or altered lighting systems demonstrating compliance with 140.7 / 170.2(e)6 all new luminaires being installed and any existing luminaires remaining or being moved within the spaces covered by the permit application are included in the Table below. For altered lighting systems using the Existing Power method per 141.0(b)2L only new luminaires being installed and an epiacement luminaires being moved are not included). Outdoor lighting attached to multifamily buildings and controlled from the inside of a dwelling unit are included in Table H. and are not included here. All other multifamily outdoor lighting is included here. Designed Wattage: O1	C. COMPLIANCE RESULTS Results in this table are automatically calculated from data input and calculations in Tables F through N. Note: If any cell on this table says "COMPLIES with Exceptional Conditions" refer to Table D. Exceptional Conditions for guidance or see applicable Table referenced below. Calculations of Total Allowed Lighting Power (Watts) 140.7 / 170.2(e)6 or 141.0(b)2L/180.2(b)48v Calculations of Total Allowed Lighting Power (Watts) 140.7 / 170.2(e)6 or 141.0(b)2L/180.2(b)48v Compliance Results 01 02 03 04 05 06 07 08 09 Per Specific Area 140.7(d)2 / 140.7(d)2 / 170.2(e)6 (See Table I) (See Table I) (See Table II) (See Table II) (See Table III) (See Table IIII) (See Table IIII) (See Table IIII) (See Table IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	the prescriptive path for multifamily and mixed-use occupancies. Multifamily includes dormtory and senior living facilities. Project Name: DGSField Buller Bildy, and Marked-use occupancies. Multifamily includes dormtory and senior living facilities. Project Address: 333 E. 8th St., Oakland, CA 94606
Martin M	Generated Date/Time: CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance Report Version: 2022.0.000 Compliance ID: 132590-0923-0003	CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance Report Version: 2022.0.000 Compliance ID: 132590-0923-0003	CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance Report Version: 2022.0.000 Compliance ID: 132590-0923-0003
Part	Outdoor Lighting CALIFORNIA ENERGY COMMISSION CERTIFICATE OF COMPLIANCE NRCC-LTO-E	Outdoor Lighting CERTIFICATE OF COMPLIANCE CALIFORNIA ENERGY COMMISSION NRCC-LTO-E	Outdoor Lighting CERTIFICATE OF COMPLIANCE CALIFORNIA ENERGY COMMISSION NRCC-LTO-E
Mary Continue Co	Date Prepared: 2023-09-13T19:27:14-04:00	Date Prepared: 2023-09-13T19:27:14-04:00	Date Prepared: 2023-09-13T19:27:14-04:00
Service of the control of the contro	This table includes areas using the wattage allowance per application from Table 140.7-B/Table 170.2-S. O1	This table includes areas using allowance calculations per 140.7 / 170.2(e). General Hardscape Allowance is per Table 140.7-A/Table 170.2-R while "Use it or lose it" Allowances are per Table 140.7-B/Table 170.2-S. Indicate which allowances are being used to expand sections for user input. Luminaires that qualify for one of the "Use it or lose it" allowance. Outdoor lighting attached to multifamily buildings and controlled from the inside of a dwelling unit are included in Table H. and are not included here. All other multifamily outdoor lighting is included here. Calculated General Hardscape Lighting Power Allowance per Table 140.7-A for Nonresidential & Hotel/Motel O2	This table demonstrates 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. Outdoor lighting for nonresidential buildings, parking garages and common service areas in multifamily buildings must be documented separately from outdoor lighting attached to multifamily buildings and controlled from the inside of a dwelling unit Mandatory Controls for Nonresidential Occupancies, Parking Garages & Common Areas in Multifamily Buildings 01
	CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance Report Version: 2022.0.000 Compliance ID: 132590-0923-0003	CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance Report Version: 2022.0.000 Report Generated: 2023-09-13 16:27:18 STATE OF CALIFORNIA Outdoor Lighting CALIFORNIA ENERGY COMMISSION CERTIFICATE OF COMPLIANCE Project Name: DGS - Field Butler Bidg, Yard Report Page: NRCC-LTO-E Project Address: 333 E. 8th St., Oakland, CA 94606 Date Prepared: 2023-09-13T19:27:14-04:00 DOCUMENTATION AUTHOR'S DECLARATION STATEMENT I certify that this Certificate of Compliance documentation is accurate and complete. Documentation Author Name: Sergey Korolev Company: Vektor Engineering and Consulting Services, Inc. Address: 2603 Camino Ramon, Suite 417 CEA/ HERS Certification Identification (if applicable): Certify the following under penalty of perjury, under the laws of the State of California: 1. The Information provided on this Certificate of Compliance is true and correct. 2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 2-8, Part 1 and Part 5 of the California; on the Internation Provided on this Certificate of Compliance is true and correct. 4. The building design features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 2-8, Part 1 and Part 5 of the California; components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 2-8, Part 1 and Part 5 of the California; components, and manufactured devices for the building general applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency of this Certificate of Compliance are consistent with the building permit(s) issued for the building and made available to the enforcement	CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance Report Version: 2022 0.000 Schema Version: rev 20220101 STATE OF CALIFORNIA Outdoor Lighting CALIFORNIA ENERGY COMMISSION NECC-LTO-E Project Name: DGS - Field Butler Bidg, Yard Report Page: (Page 7 of 8) Date Prepared: 2023-09-1319:27:14-04:00 M. LIGHTING ALLOWANCE: PER SPECIFIC AREA This table includes areas using the wattage allowance per specific area from Table 140.7-8 / Table 170.2-S. More than one specific area allowance may be taken in a single project, if applicable. However, multiple specific area allowances may not be taken for the exact same area on the site. Area Description Specific Area Type per Table 140.7-B Specific Area Type per Table 140.7-B BuildingFacade 6400 0.17 1088 C 23 3 69 Total Design Watts for this Area: 1225 Total Allowance (Watts) All Areas; 1088

Indoor Lighting		CALIFORNIA ENERGY COMMISSION	ndoor Lighting CALIFORNIA ENERGY COMMISSION Indoor Lighting	CALIFORNIA ENERGY COMMISSION
CERTIFICATE OF COMPLIANCE Project Name: DGS - Grounds Shed	Report Page: Date Prepared:	NRCC-LTI-E (Page 3 of 8) 2023-09-11T17:28-54-04:00		trate compliance with requirements in 110.9, 110.12(c), 130.0, 130.1, 140.6 and 141.0(b)2 for indoor lighting scopes using the prescriptive path for accupancies. It is also used to document compliance with requirements in 160.5, 170.2(e) and 180.2(b)4 for indoor lighting scopes using the prescriptive
	vate rrepared:	2023-09-11T17:28:54-04:00		Multifamily includes dormitory and senior living facilities.
F. INDOOR LIGHTING FIXTURE SCHEDULE	ing unit/hatel/mastel and	on unit and batal fronts	Project Address: 333 E. 8th St., Oak C. COMPLIANCE RESULTS	
This table includes all planned permanent and portable lighting other than dwell documented in Table T. If using Table T to document lighting in multifamily comn not included here.	ing unit/ hotel/ motel room lighting. Multifamily dwelling non use areas providing shared provisions for living, eatin	ng unit and hotel/motel room lighting is ng, cooking or sanitation, those luminaires are	f any cell on this table says "DOES NOT COMPLY" or "COMPLIES with Exceptional Conditions" refer to Table D. for guidance. Adjusted Lighting Power per 140 5(a) / 170 3(a)	
Designed Wattage: Unconditioned Spaces 01 02 03 04	05 06 07 08	09 10	Lighting in 01 02 03 04 05 06 07 08 09 02 Climate Zone	Oakland 04 Total Conditioned Floor Area (ft²) 0 3 05 Total Unconditioned Floor Area (ft²) 6,820
	atts per How is Wattage minaire How is Wattage determined of Luminaires 170, 2(a)	3 / Design Watts	conditioned and unconditioned spaces must not be Complete Area Category Tailored spaces must not be Complete Category Tailored Area Category Tailored Spaces must not be Complete Category Tailored Area Category Tailored Spaces must not be Complete Category Tailored Spaces must not be Category Tailored Tailored Spaces must not be Category Tailored Tailor	ect (select all that apply): 06 # of Stories (Habitable Above Grade) 1
Tag Description (Track) Fixture Color Change ¹ Iui	170.2(e)2	2C Pass Fail	combined for compliance per Building 140.6(c)2 / 140.6(c)2 / 170.2(e)4B Additional 140.6(c)3 / 170.2(e)4B Total Allowed (Watts) Control Credits 140.6(a)2 / 170.2(e) Watts) 05 must be >= 08 140.6 / 170.2(e)	
¹ FOOTNOTE: Design Watts for small aperture and color changing luminaires whic			(+) (See Table I) (See Table I) (See Table I) (See Table II) (See	stems that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in 140.6 / 170.2(e) or
automatically makes this adjustment, the permit applicant should enter full rated ² Authority Having Jurisdiction may ask for Luminaire cut sheets to confirm watta		used must be the maximum rated for the	Conditioned	cope of Work Conditioned Spaces Unconditioned Spaces
luminaire, not the lamp.			Controls Compliance (See Table H for Details) Rated Power Reduction Compliance (See Table Q for Details) My Project Cons	01 02 03 04 05 ists of (check all that apply): Calculation Method Area (ft²) Calculation Method Area (ft²)
G. MODULAR LIGHTING SYSTEMS This section does not apply to this project.			New Lighting System ☐ New Lighting System - Park	
H. INDOOR LIGHTING CONTROLS (Not including PAFs)				N/A 0 Area Category Method 6820 Area of Work (ft²) 6820
This table includes lighting controls for conditioned and unconditioned spaces. Building Level Controls			E. ADDITIONAL REMARKS	
01	02	03 Field Inspector	This table includes remarks made by the permit applicant to the Authority Having Jurisdiction.	
Mandatory Demand Response 110.12(c) NA < 4.000W subject to multilevel	Shut-off controls 130.1(c) / 160.5(b) See Area/Space Level Controls			
14A < 4,000 vv subject to mutilievel	See Area/Space Level Controls			
CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance	Generated Date/Time: Report Version: 2022.0.000	Documentation Software: Energy Code Ace Compliance ID: 132569-0923-0003	CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance Report Version: 2022.0.000 Report Version: 2022.0.000 Compliance ID: 132569-0923-0003 CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance	Generated Date/Time: Documentation Software: Energy Code Ace ards - 2022 Nonresidential Compliance Report Version: 2022.0.000 Compliance ID: 132569-0923-0003
	Schema Version: rev 20220101	Report Generated: 2023-09-11 14:28:57	Schema Version: rev 20220101 Report Generated: 2023-09-11 14:28:57	Schema Version: rev 20220101 Report Generated: 2023-09-11 14:28:57
STATE OF CALIFORNIA Indoor Lighting		CALIFORNIA ENERGY COMMISSION	rate of California ndoor Lighting California energy Commission state of California Indoor Lighting	CALIFORNIA ENERGY COMMISSION
CERTIFICATE OF COMPLIANCE Project Name: DGS - Grounds Shed	Report Page:	NRCC-LTI-E (Page 6 of 8)	CERTIFICATE OF COMPLIANCE Project Name: DGS - Grounds Shed Report Page: Project Name: DGS - Grounds Shed CERTIFICATE OF COMPLIANCE Project Name: DGS - Grounds Shed	
	Date Prepared:	2023-09-11T17:28:54-04:00	Date Prepared: 2023-09-11T17:28:54-04:00	Date Prepared: 2023-09-11T17:28:54-04:00
P. POWER ADJUSTMENT: LIGHTING CONTROL CREDIT (POWER ADJUSTN	MENT FACTOR (PAF))		LIGHTING POWER ALLOWANCE: COMPLETE BUILDING OR AREA CATEGORY METHODS H. INDOOR LIGHTING CONTROL Area Level Control	DLS (Not including PAFs)
This section does not apply to this project.			Shed Bay #2 Commercial Industrial Storage Area 0.4 1,364 545.6 No No No Area Level Controls Shed Bay #3 Commercial Industrial Storage Area 0.4 1,364 545.6 No No No O4 04	05 06 07 08 09 10 11 12
Q. RATED POWER REDUCTION COMPLIANCE FOR ONE-FOR-ONE ALTERA	TIONS		Shed Bay #4 Commercial Industrial Storage Area 0.4 1,364 545.6 No No Shed Bay #5 Commercial Industrial Storage Area 0.4 1,364 545.6 No No TOTALS: 6.820 2.728 See Tables J. or P for detail Area Description	Complete Building or Area Controls Category Primary Function Manual Area Controls Controls Category Primary Function Manual Area Controls Control
This section does not apply to this project.			TOTALS: 6,820 2,728 See Tables J, or P for detail Area Description	Category Primary Function Area 130.1(a) / 130.1(b) / 160.5(b)4B 130.1(c) // 160.5(b)4C 130.1(d) / 160.5(b)4D 130.1(d) / 160.5(b)4D 130.1(d) / 160.5(b)4D 130.1(d) / 160.5(b)4D 170.2(e)2A Pass Fail
R. 80% LIGHTING POWER FOR ALL ALTERATIONS - CONTROLS EXCEPTION This section does not apply to this project.	NS		I. ADDITIONAL ALLOWANCE: AREA CATEGORY METHOD QUALIFYING LIGHTING SYSTEM Shed Bay #1	Commercial Industrial Storage Auth. NA: General Area Personnel Ltg <= 0.5W/SF Occupancy Sensor Ltg < 120W Ltg < 120W Ltg < 120W
			Shed Bay #2 K. TAILORED METHOD GENERAL LIGHTING POWER ALLOWANCE	Commercial Industrial Storage Auth. Personnel Ltg <= 0.5W/SF Occupancy Sensor Representation NA: General Ltg < 120W Ltg < 120W NA: General Ltg
S. DAYLIGHT DESIGN POWER ADJUSTMENT FACTOR (PAF) This section does not apply to this project.			This section does not apply to this project. Shed Bay #3	Commercial Industrial Storage Auth. Area Personnel Ltg <= 0.5W/SF Occupancy Sensor Ltg < 120W Ltg < 120W Ltg < 120W
T. DWELLING UNIT LIGHTING			ADDITIONAL LIGHTING ALLOWANCE: TAILORED WALL DISPLAY	Commercial Industrial Storage Auth. NA: General Area Personnel Ltg <= 0.5W/SF Occupancy Sensor NA: General Ltg < 120W Ltg < 120W
This section does not apply to this project.			Shed Bay #5 Shed Bay #5	Area Personnel Ltg <= 0.5W/SF Occupancy Sensor Ltg < 120W Ltg < 120W No Ltg < 120W 13
U. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION Selections have been made based on information provided in this document. If a	ny calactions have been changed by permit applicant, an	a evolunation should be included in Table F	M. ADDITIONAL LIGHTING ALLOWANCE: TAILORED FLOOR AND TASK LIGHTING This section does not apply to this project.	Plan Sheet Showing Daylit Zones:
Additional Remarks. These documents must be provided to the building inspecto	r during construction and can be found online Form/Title	respiration should be included in Tuble 2.	I. LIGHTING POWER ALLOWANCE. TAILORED DECORATIVE (CRECIAL EFFECTS)	NCE: COMPLETE BUILDING OR AREA CATEGORY METHODS
NRCI-LTI-E - Must be submitted for all buildings	Formy fittle		N. ADDITIONAL LIGHTING ALLOWANCE: TAILORED DECORATIVE / SPECIAL EFFECTS	mplete Building or Area Category Methods per 140.6(b) are included in this table. Column 06 indicates if additional lighting power allowances per
			Unconditioned Spaces D. ADDITIONAL LIGHTING ALLOWANCE: TAILORED VERY VALUABLE MERCHANDISE 01	02 03 04 05 06
			This section does not apply to this project. Area Description	Complete Building or Area Category Primary Function Area Allowed Density (W/ft²) Area (ft²) Area (ft²) Area (ft²) Area (ft²) Area Category PAF
	Generated Date/Time:	Documentation Software: Energy Code Ace	Shed Bay #1 Generated Date/Time: Documentation Software: Energy Code Ace	Commercial Industrial Storage Area 0.4 1,364 545.6 No No No Generated Date/Time: Documentation Software: Energy Code Ace
CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance	Report Version: 2022.0.000 Schema Version: rev 20220101	Compliance ID: 132569-0923-0003 Report Generated: 2023-09-11 14:28:57		rds - 2022 Nonresidential Compliance Report Version: 2022.0.000 Compliance ID: 132569-0923-0003 Schema Version: rev 20220101 Report Generated: 2023-09-11 14:28:57
			TATE OF CALIFORNIA STATE OF CALIFORNIA	
			ndoor Lighting CALIFORNIA ENERGY COMMISSION Indoor Lighting CERTIFICATE OF COMPLIANCE CERTIFICATE OF COMPLIANCE	CALIFORNIA ENERGY COMMISSION NRCC-LTI-E
			Project Name: DGS - Grounds Shed Report Page: Project Address: 333 E. 8th St., Oakland, CA 94606 Page: Date Prepared: 2023-09-11T17:28:54-04:00	
			certify that this Certificate of Compilance documentation is accurate and complete.	O CERTIFICATES OF ACCEPTANCE
			Additional Remarks. These documents of the second series of the second s	on information provided in this document. If any selections have been changed by the permit applicant, an explanation should be included in Table E. nents must be provided to the building inspector during construction and any with "-A" in the form name must be completed through an Acceptance der (ATTCP). For more information visit: http://www.energy.ca.gov/title24/attcp/providers.html
			Address: 2603 Camino Ramon, Suite 417 CEA/ HERS Certification (if applicable): City/State/Zip: San Ramon, CA 94583 Phone: (925) 698-8067	Form/Title Systems/Spaces To Be Field Verified
			RESPONSIBLE PERSON'S DECLARATION STATEMENT certify the following under penalty of perjury, under the laws of the State of California: NRCA-LTI-02-A - Must be submitted.	ed for occupancy sensors and automatic time switch controls. Shed Bay #1; Shed Bay #2; Shed Bay #3; Shed Bay #4; Shed Bay #5
			1. The information provided on this Certificate of Compliance is true and correct. 2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer) 3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24. Part 1 and Part 6 of the California Code of Regulations	Siled day #3
			of Title 24, Part 1 and Part 6 of the California Code of Regulations. 4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application. 5. Livillengue that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable.	
			5. I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy. Responsible Designer Name: Responsible Designer Signature:	
			Sergey Korolev Company: Vektor Engineering and Consulting Services, Inc. Date Signed: 9/11/2023 Address: 2603 Camino Ramon, Suite 417 License: CA E20491	
			License: 2003 Carnino Ramon, Suite 417 License: CA E20491 City/State/Zip: San Ramon, CA 94583 Phone: (925) 698-8067	

IFICATE OF COMPLIANCE NRCC-LTO-E	STATE OF CALIFORNIA Outdoor Lighting CALIFORNIA ENERGY COMMISSION CERTIFICATE OF COMPLIANCE NRCC-LTO-E	STATE OF CALIFORNIA Outdoor Lighting CALIFORNIA ENERGY COMMISSION CERTIFICATE OF COMPLIANCE NRCC-LTO-E
tot Name: DGS - International & Distance Educ. Center Bldg. #1 Report Page: (Page 3 of 8) Date Prepared: 2023-09-13T19:31:08-04:00	Project Name: DGS - International & Distance Educ. Center Bldg. #1 Report Page: (Page 2 of 8) Date Prepared: 2023-09-13T19:31:08-04:00	This document is used to demonstrate compliance with requirements in 110.9, 130.0, 130.2, 140.7, and 141.0(b)2L for outdoor lighting scopes using the prescriptive path for nonresidential and hotel/motel occupancies. It is also used to document compliance with requirements in 160.5, 170.2(e)6, 180.1(a) and 180.2(b)4Bv for outdoor lighting scopes using
		the prescriptive path for multifamily and mixed-use occupancies. Multifamily includes dormitory and senior living facilities. Project Name: DGS - International & Distance Educ. Center Bldg. #1 Report Page: (Page 1 of 8) Project Address: 333 E. 8th St., Oakland, CA 94606 Date Prepared: 2023-09-13T19:31:08-04:00
DEPUTDOOR LIGHTING FIXTURE SCHEDULE new or altered lighting systems demonstrating compliance with 140.7 / 170.2(e)6 all new luminaires being installed and any existing luminaires remaining or being moved within spaces covered by the permit application are included in the Table below. For altered lighting systems using the Existing Power method per 141.0(b)2L only new luminaires being	C. COMPLIANCE RESULTS Results in this table are automatically calculated from data input and calculations in Tables F through N. Note: If any cell on this table says "COMPLIES with Exceptional Conditions" refer	
Illed and replacement luminaires being installed as part of the project scope are included (ie, existing luminaires remaining or existing luminaires being moved are not included). Ioor lighting attached to multifamily buildings and controlled from the inside of a dwelling unit are included in Table H. and are not included here. All other multifamily outdoor	to Table D. Exceptional Conditions for guidance or see applicable Table referenced below. Calculations of Total Allowed Lighting Power (Watts) 140.7 / 170.2(e)6 or 141.0(b)2L / 180.2(b)4Bv Compliance Results	A. GENERAL INFORMATION O1 Project Location (city) Oakland O2 Climate 7 and 04 Total Illuminated Hardscape Area (ft²) 6313
ing is included here. gned Wattage:	01 02 03 04 05 06 07 08 09 General Hardsone Per Soles Organism Legistra Existing Existing Power Existing Power	02 Climate Zone 3 03 Outdoor Lighting Zone per Title 24 Part 1 10.114 or as designated by Authority Having Jurisdiction (AHJ): □ LZ-0: Very Low - Undeveloped Parkland □ LZ-2: Moderate - Urban Clusters □ LZ-4: High - Must be reviewed by CA Energy Commission for Approval
01 02 03 04 05 06 07 08 09 10 Cutoff Req. > Field How is Table 1 - Excluded per 6,200 initial Inspector	Allowance + Application + Frontage + I40.7(d)2 / + Frontage + I40.7(d)2 / + I70.7(d)2 / + I70.7	□ LZ-1: Low - Rural Areas □ LZ-3: Moderately High - Urban Areas O5 Occupancy Types within Project
Tag Complete Luminaire Description Watts per Wattage Complete Luminaire Description Complete Luminaire Description Wattage Complete Luminaire Description Uminaire Complete Luminaire Description Wattage Complete Luminaire Description Uminaire Complete Luminaire Description Wattage Complete Luminaire Description Uminaire Description Complete Luminaire Description Wattage Complete Luminaire Description Uminaire Description Uminaire Description Complete Luminaire Description Uminaire Description Uminaire Description Complete Luminaire Description Uminaire Description	170.2(e)6 (See Table I) (See Table II) (See Table II) (See Table III) (See Table III) (See Table III) (See Table IIII) (See Table IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	Office Office
C GARDCO GWM	458.37	B. PROJECT SCOPE
Total Design Watts: 138 Test: Selections with a * require a note in the space below explaining how compliance is achieved.	Controls Compliance (See Table H for Details) COMPLIES	This table includes outdoor lighting systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in 140.7 / 170.2(e)6 or 141.0(b)2L / 180.2(b)4Bv for alterations.
TNOTES: Authority Having Jurisdiction may ask for Luminaire cut sheets to confirm wattage used for compliance per 130.0(c) / 160.5(b)	D. EXCEPTIONAL CONDITIONS This table is auto-filled with uneditable comments because of selections made or data entered in tables throughout the form.	My Project Consists of: 01 02
linear luminaires, wattage should be indicated as W/lf instead of Watts/luminaire. Total linear feet should be indicated in column 05 instead of number of luminaires. ct "New" for new luminaires in a new outdoor lighting project, or for added luminaires in an alteration. Select "Altered" for replacement luminaires in an alteration. Select "Existing to Remain" isting luminaires within the project scope that are not being altered and are remaining. Select "Existing Reinstalled" for existing luminaires which are being removed and reinstalled as part of	E. ADDITIONAL REMARKS	□ New Lighting System Must Comply with Allowances from 140.7 / 170.2(e)6 □ Altered Lighting System Is your alteration increasing the connected lighting load (Watts)? Yes No
pliance with mandatory shielding requirements is required for luminaires with initial lumen output >= 6,200 unless exempted by 130.2(b)/ 160.5(c)	This table includes remarks made by the permit applicant to the Authority Having Jurisdiction.	03 04 05 % of Existing Luminaires Being Altered¹ Sum Total of Luminaires Being Added or Altered Calculation Method
HIELDING REQUIREMENTS (BUG)		□ < 10% □ >= 10% and < 50% ☒ >= 50% 6 Calculated Allowance per 140.7 / 170.2(e)6 1 FOOTNOTES: % of Existing Luminaires Being Altered = (Sum Total of Luminaires Being Added or Altered / Existing Luminaires within the Scope of the Permit Application) x 100.
section does not apply to this project.		
,		
,		
Generated Date/Time: Documentation Software: Energy Code Ace Building Energy Efficiency Standards - 2022 Nonresidential Compliance Report Version: 2022.0.000 Compliance ID: 133056-0923-0003	Generated Date/Time: Documentation Software: Energy Code Ace CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance Report Version: 2022.0.000 Compliance ID: 133056-0923-0003	CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance Report Version: 2022.0.000 Compliance ID: 133056-0923-0003
Schema Version: rev 20220101 Report Generated: 2023-09-13 16:31:12	Schema Version: rev 20220101 Report Generated: 2023-09-13 16:31:12	Schema Version: rev 20220101 Report Generated: 2023-09-13 16:31:12
of California cdoor Lighting CALIFORNIA ENERGY COMMISSION	STATE OF CALIFORNIA Outdoor Lighting CALIFORNIA ENERGY COMMISSION	STATE OF CALIFORNIA Outdoor Lighting CALIFORNIA ENERGY COMMISSION
IFICATE OF COMPLIANCE ct Name: DGS - International & Distance Educ. Center Bldg. #1 Report Page: (Page 6 of 8)	CERTIFICATE OF COMPLIANCE Project Name: DGS - International & Distance Educ. Center Bldg. #1 Report Page: (Page 5 of 8)	CERTIFICATE OF COMPLIANCE Project Name: DGS - International & Distance Educ. Center Bldg. #1 Report Page: (Page 4 of 8)
Date Prepared: 2023-09-13T19:31:08-04:00	Date Prepared: 2023-09-13T19:31:08-04:00	Date Prepared: 2023-09-13T19:31:08-04:00
GHTING ALLOWANCE: PER APPLICATION	I. LIGHTING POWER ALLOWANCE (per 140.7 / 170.2(e))	H. OUTDOOR LIGHTING CONTROLS
table includes areas using the wattage allowance per application from Table 140.7-B / Table 170.2-S. 01 02 03 04 05 06 07 08 09 10	This table includes areas using allowance calculations per 140.7 / 170.2(e). General Hardscape Allowance is per Table 140.7-A/Table 170.2-R while "Use it or lose it" Allowances are per Table 140.7-B/Table 170.2-S. Indicate which allowances are being "Use it or lose it" Allowance (select all that apply) (select all that apply)	This table demonstrates 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.
Area Description Application per Table 140.7-B ¹ Area Description Application per Table 140.7-B ¹ Additional Allowance Per Allowance Name or Nam	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.	Outdoor lighting for nonresidential buildings, parking garages and common service areas in multifamily buildings must be documented separately from outdoor lighting attached to multifamily buildings and controlled from the inside of a dwelling unit
Locations Location ² (Watts) Item Tag Luminaire Luminaires (Watts)	Outdoor lighting attached to multifamily buildings and controlled from the inside of a dwelling unit are included in Table H. and are not included here. All other multifamily outdoor lighting is included here. Allowance Table I (below) Table I (below) Table I Table K Table I Table I Table I Table I Table I Table I Table I Table II Table	Mandatory Controls for Nonresidential Occupancies, Parking Garages & Common Areas in Multifamily Buildings 01 02 03 04 05
Entrances Bldg. #1 Building Entrance/Exit 2 19 38 C 23 2 46 38 Total Design Watts for this Area: 46	Calculated General Hardscape Lighting Power Allowance per Table 140.7-A for Nonresidential & Hotel/Motel 02 03 04 05 06 07 08 09	Area Description Shut-Off Auto-Schedule Motion Sensor Field Inspector 130.2(c)1 / 160.5(c) 130.2(c)2 / 160.5(c) 130.2(c)3 / 160.5(c)
Total Allowance (Watts) All Areas: 38 TOTAL Allowance (Watts) All Areas: 38 TOTAL Allowance (Watts) All Areas: 38	Area Wattage Allowance (AWA) Linear Wattage Allowance (LWA) Total General Area Description Illuminated Area Allowed Density Area Allowance Perimeter Length Allowed Density Linear Allowance AWA + LWA	Hardscape Area around Bldg. #1: "C" Astronomical Timer Provided NA: Each Luminaire <= 40 Watts
Allowance per Location for ATMs is 100W for the first ATM and 35W for each additional per Table 140.7-B /Table 170.2-S. luminaires indicated in Table F as linear, wattage in column 07 is W/lf instead of Watts/luminaire. Total linear feet should be indicated in column 08 instead of number of luminaires.	(ft²) (W/ft²) (Watts) (If) (W/If) (Watts) Hardscape Area around Bldg. #1 6313 0.021 132.57 379 0.2 75.8 208.37	Entrances Bldg. #1: "C" Astronomical Timer Provided NA: Each Luminaire <= 40 Watts
GHTING ALLOWANCE: SALES FRONTAGE	Initial Wattage Allowance for Entire Site (Watts): 250 Instances of Initial Wattage Allowance (LZ 0 only) ¹	¹ FOOTNOTE: Text has been abbreviated, please refer to Table 160.5-A to confirm compliance with the specific light source technologies listed. ² Authority having jurisdiction may ask for cutsheets or other documentation to confirm compliance of light source. ³ Recessed luminaires marked for use in fire-rated installations, and recessed luminaires installed in non-insulated ceilings are excepted from ii and iii.
section does not apply to this project.	Total General Hardscape Allowance (Watts): 458.37	
GHTING ALLOWANCE: ORNAMENTAL section does not apply to this project.		
IGHTING ALLOWANCE: PER SPECIFIC AREA		
section does not apply to this project.		
XISTING CONDITIONS POWER ALLOWANCE (alterations only)		
section does not apply to this project.		
Generated Date/Time: Documentation Software: Energy Code Ace	Generated Date/Time: Documentation Software: Energy Code Ace	Generated Date/Time: Documentation Software: Energy Code Ace
Building Energy Efficiency Standards - 2022 Nonresidential Compliance Report Version: 2022.0.000 Compliance ID: 133056-0923-0003 Schema Version: rev 20220101 Report Generated: 2023-09-13 16:31:12	CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance Report Version: 2022.0.000 Compliance ID: 133056-0923-0003 Schema Version: rev 20220101 Report Generated: 2023-09-13 16:31:12	CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance Report Version: 2022.0.000 Schema Version: rev 20220101 Report Generated: 2023-09-13 16:31:12
	STATE OF CALIFORNIA	STATE OF CALIFORNIA
·	Outdoor Lighting CERTIFICATE OF COMPLIANCE CALIFORNIA ENERGY COMMISSION NRCC-LTO-E	Outdoor Lighting CERTIFICATE OF COMPLIANCE CALIFORNIA ENERGY COMMISSION NRCC-LTO-E
·	Project Name:DGS - International & Distance Educ. Center Bldg. #1Report Page:(Page 8 of 8)Project Address: 333 E. 8th St., Oakland, CA 94606Date Prepared:2023-09-13T19:31:08-04:00	Project Name:DGS - International & Distance Educ. Center Bldg. #1Report Page:(Page 7 of 8)Date Prepared:2023-09-13T19:31:08-04:00
·	DOCUMENTATION AUTHOR'S DESCRIPTION STATEMENT	
·	DOCUMENTATION AUTHOR'S DECLARATION STATEMENT I certify that this Certificate of Compliance documentation is accurate and complete.	O. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION Selections have been made based on information provided in this document. If any selection has been changed by permit applicant, an explanation should be included in Table E.
·	Documentation Author Name: Sergey Korolev Company: Vektor Engineering and Consulting Services, Inc. Documentation Author Signature: Signature Date: 9/13/2023	Additional Remarks. These documents must be provided to the building inspector during construction and can be found online Form/Title
·	Address: 2603 Camino Ramon, Suite 417 CEA/ HERS Certification Identification (if applicable): City/State/Zip: San Ramon, CA 94583 Phone: (925) 698-8067	NRCI-LTO-E - Must be submitted for all buildings
·	RESPONSIBLE PERSON'S DECLARATION STATEMENT I certify the following under penalty of perjury, under the laws of the State of California: 1. The information provided on this Certificate of Compliance is true and correct.	P. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE
· · · · · · · · · · · · · · · · · · ·	2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer) 3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.	There are no NRCA forms required for this project.
·	4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application. 5. I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable	
	inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy.	
	Responsible Designer Name: Responsible Designer Signature:	
	Sergey Korolev Company: Vektor Engineering and Consulting Services, Inc. Date Signed: 9/13/2023	
	Sergey Korolev	
	Sergey Korolev Company: Vektor Engineering and Consulting Services, Inc. Address: 2603 Camino Ramon, Suite 417 License: CA E20491	
	Sergey Korolev Company: Vektor Engineering and Consulting Services, Inc. Address: 2603 Camino Ramon, Suite 417 License: CA E20491	
	Sergey Korolev Company: Vektor Engineering and Consulting Services, Inc. Address: 2603 Camino Ramon, Suite 417 License: CA E20491	
	Sergey Korolev Company: Vektor Engineering and Consulting Services, Inc. Address: 2603 Camino Ramon, Suite 417 License: CA E20491	
	Sergey Korolev Company: Vektor Engineering and Consulting Services, Inc. Address: 2603 Camino Ramon, Suite 417 License: CA E20491	
	Sergey Korolev Company: Vektor Engineering and Consulting Services, Inc. Address: 2603 Camino Ramon, Suite 417 License: CA E20491	Generated Date/Time: Documentation Software: Energy Code Ace

e engineering and teciniousy suite 417
2603 Camino Ramon, Suite 417
San Ramon, CA 94583
+1 (866) VEKTOR1 (835-8671)

INTERNATIONAL B1 NRCC-LTO-01E

STATE OF CALIFORNIA Outdoor Lighting CALIFORNIA ENERGY COMMISSION	STATE OF CALIFORNIA Outdoor Lighting CALIFORNIA ENERGY COMMISSION	STATE OF CALIFORNIA Outdoor Lighting CALIFORNIA ENERGY COMMISSION
CERTIFICATE OF COMPLIANCE Project Name: DGS - International & Distance Educ. Center Bldg. #2 Report Page: (Page 3 of 8) Date Prepared: 2023-09-13T19:29:45-04:00	CERTIFICATE OF COMPLIANCE Project Name: DGS - International & Distance Educ. Center Bldg. #2 Report Page: (Page 2 of 8) Date Prepared: 2023-09-13T19:29:45-04:00	CERTIFICATE OF COMPLIANCE This document is used to demonstrate compliance with requirements in 110.9, 130.0, 130.2, 140.7, and 141.0(b)2L for outdoor lighting scopes using the prescriptive path for nonresidential and hotel/motel occupancies. It is also used to document compliance with requirements in 160.5, 170.2(e)6, 180.1(a) and 180.2(b)4Bv for outdoor lighting scopes using the prescriptive path for multifamily and mixed-use occupancies. Multifamily includes dormitory and senior living facilities.
F. OUTDOOR LIGHTING FIXTURE SCHEDULE For new or altered lighting systems demonstrating compliance with 140.7 / 170.2(e)6 all new luminaires being installed and any existing luminaires remaining or being moved within the spaces covered by the permit application are included in the Table below. For altered lighting systems using the Existing Power method per 141.0(b)2L only new luminaires being installed and replacement luminaires being installed as part of the project scope are included (ie, existing luminaires remaining or existing luminaires being moved are not included). Outdoor lighting attached to multifamily buildings and controlled from the inside of a dwelling unit are included in Table H. and are not included here. All other multifamily outdoor lighting is included here. Designed Wattage: 01 02 03 04 05 06 07 08 09 10 Cutoff Req. > Field	C. COMPLIANCE RESULTS Results in this table are automatically calculated from data input and calculations in Tables F through N. Note: If any cell on this table says "COMPLIES with Exceptional Conditions" refer to Table D. Exceptional Conditions for guidance or see applicable Table referenced below. Calculations of Total Allowed Lighting Power (Watts) 140.7 / 170.2(e)6 or 141.0(b)2L / 180.2(b)4Bv Calculations of Total Allowed Lighting Power (Watts) 140.7 / 170.2(e)6 or 141.0(b)2L / 180.2(b)4Bv Compliance Results O1	Project Name: DGS - International & Distance Educ. Center Bldg. #2 Report Page: (Page 1 of 8) Project Address: 333 E. 8th St., Oakland, CA 94606 Date Prepared: 2023-09-13T19:29:45-04:00 A. GENERAL INFORMATION O1 Project Location (city) Oakland O2 Climate Zone 3 Outdoor Lighting Zone per Title 24 Part 1 10.114 or as designated by Authority Having Jurisdiction (AHJ): IZ-0: Very Low - Undeveloped Parkland IZ-2: Moderate - Urban Clusters IZ-4: High - Must be reviewed by CA Energy Commission for Approval IZ-1: Low - Rural Areas X IZ-3: Moderately High - Urban Areas
Name or Item Tag Complete Luminaire Description Watts per luminaire ^{1, 2} Watts per luminaire ^{1, 2} Mfr. Spec GARDCO GWM Linear Luminaires 2 Mfr. Spec GARDCO GWM Linear Mfr. Spec GARDCO GWM Total Number Luminaire Status ³ Mfr. Spec GARDCO GWM Linear Luminaires 2 Mfr. Spec GARDCO GWM Linear Luminaires 2 Status ³ Mfr. Spec GARDCO GWM Linear Total Design Watts NA: < 6200 Initial lumen output 130.2(b) / 160.5(c)1 ⁴ Pass Fail Total Number Luminaire Status ³ Fail Total Design Watts: 138 *NOTES: Selections with a * require a note in the space below explaining how compliance is achieved. EX: Luminaire is lighting a statue; EXCEPTION 2 to 130.2(b) *FOOTNOTES: Authority Having Jurisdiction may ask for Luminaire cut sheets to confirm wattage used for compliance per 130.0(c) / 160.5(b)	140.7(d)1 / 170.2(e)6 (See Table I) 140.7(d)2 140.7(d)2 170.2(e)6 (See Table L) 170.2(e)6 (See Table M) 141.0(b)2L / 180.2(b)4Bv (See Table N) (Watts) Watts) 481.85 + 38 + + + + + + OR = 519.85 ≥ 138 COMPLIES Shielding Compliance (See Table H for Details) Controls Compliance (See Table H for Details) D. EXCEPTIONAL CONDITIONS This table is auto-filled with uneditable comments because of selections made or data entered in tables throughout the form.	Office B. PROJECT SCOPE This table includes outdoor lighting systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in 140.7 / 170.2(e)6 or 141.0(b)2L / 180.2(b)4Bv for alterations. My Project Consists of: 01 02
General luminaires, wattage should be indicated as W/lf instead of Watts/luminaire. Total linear feet should be indicated in column 05 instead of number of luminaires. Select "New" for new luminaires in a new outdoor lighting project, or for added luminaires in an alteration. Select "Altered" for replacement luminaires in an alteration. Select "Existing to Remain" for existing luminaires within the project scope that are not being altered and are remaining. Select "Existing Reinstalled" for existing luminaires which are being removed and reinstalled as part of the project scope. Compliance with mandatory shielding requirements is required for luminaires with initial lumen output >= 6,200 unless exempted by 130.2(b)/ 160.5(c) G. SHIELDING REQUIREMENTS (BUG) This section does not apply to this project.	E. ADDITIONAL REMARKS This table includes remarks made by the permit applicant to the Authority Having Jurisdiction.	□ New Lighting System Must Comply with Allowances from 140.7 / 170.2(e)6 □ Altered Lighting System Is your alteration increasing the connected lighting load (Watts)? Yes No 03 04 05 % of Existing Luminaires Being Altered¹ Sum Total of Luminaires Being Added or Altered Calculation Method □ < 10%
Generated Date/Time: Documentation Software: Energy Code Ace CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance Report Version: 2022.0.000 Compliance ID: 132901-0923-0004 Schema Version: rev 20220101 Report Generated: 2023-09-13 16:29:48	Generated Date/Time: CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance Report Version: 2022.0.000 Schema Version: rev 20220101 Compliance ID: 132901-0923-0004 Report Generated: 2023-09-13 16:29:48	Generated Date/Time: CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance Report Version: 2022.0.000 Schema Version: rev 20220101 Report Generated: 2023-09-13 16:29:48
CALIFORNIA CALIFORNIA Outdoor Lighting CERTIFICATE OF COMPLIANCE Project Name: DGS - International & Distance Educ. Center Bldg. #2 Report Page: (Page 6 of 8) Date Prepared: 2023-09-13T19:29:45-04:00	STATE OF CALIFORNIA Outdoor Lighting CERTIFICATE OF COMPLIANCE Project Name: DGS - International & Distance Educ. Center Bldg. #2 Report Page: (Page 5 of 8) Date Prepared: 2023-09-13T19:29:45-04:00	STATE OF CALIFORNIA Outdoor Lighting CERTIFICATE OF COMPLIANCE Project Name: DGS - International & Distance Educ. Center Bldg. #2 Report Page: (Page 4 of 8) Date Prepared: 2023-09-13T19:29:45-04:00
Tight Ting ALLOWANCE: PER APPLICATION This table includes areas using the wattage allowance per application from Table 140.7-B/Toble 170.2-S. O1 O2 O3 D4 O5 O6 O7 O8 O9 10 CALCULATED ALLOWANCE (Watts) Application per Table 140.7-B ¹ # of Cactions Application per Table 140.7-B ¹ # of Locations Allowance Extra Allowance Luminaire Luminaire Luminaire Luminaire Luminaire Luminaire Toble 140 Table 140 Tab	This table includes areas using allowance calculations per 140.7 / 170.2(e). General Hardscape Allowance is per Table 140.7-A/Table 170.2-R while "Use it or lose it" Allowance sore per Table 140.7-B/Table 170.2-S. Indicate which allowances are being used to expand sections for user input. Luminaires that qualify for one of the "Use it or lose it" allowance in the qualify for one of the "Use it or lose it" allowance for a dwelling unit or eniculated in Table H. and are not included here. All other multiformity outdoor lighting is included here. Calculated General Hardscape Lighting Power Allowance per Table 140.7-A for Nonresidential & Hotel/Mote! Q2	H. OUTDOOR LIGHTING CONTROLS This table demonstrates compiliance 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 furniaires 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. Outdoor lighting for nonresidential buildings, parking garages and common service areas in multifamily buildings must be documented separately from outdoor lighting attached to multifamily buildings and controlled from the inside of a dwelling unit Mandatory Controls for Nonresidential Occupancies, Parking Garages & Common Areas in Multifamily Buildings 01
Generated Date/Time: Documentation Software: Energy Code Ace Report Version: 2022.0.000 Schema Version: rev 20220101 CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance CA Building Energy Efficienc	Generated Date/Time: CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance Report Version: 2022.0.000 Schema Version: rev 20220101 STATE OF CALIFORNIA Outdoor Lighting CALIFORNIA ENERGY COMMISSION CERTIFICATE OF COMPLIANCE Project Name: DGS - International & Distance Educ. Center Bldg. #2 Report Version: 2022.0.000 Report Version: 2022.0.000 Report Version: 2022.0.000 Report Generated: 2023-09-13 16:29:48 CALIFORNIA ENERGY COMMISSION (Page 8 of 8)	Generated Date/Time: CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance Report Version: 2022.0.000 Report Generated: 2023-09-13 16:29:48 STATE OF CALIFORNIA Outdoor Lighting CERTIFICATE OF COMPLIANCE Project Name: DGS - International & Distance Educ. Center Bldg. #2 Report Version: 2022.0.000 Report Version: 2022.0.000 Report Version: 2022.0.000 Report Generated: 2023-09-13 16:29:48 CALIFORNIA ENERGY COMMISSION (Page 7 of 8)
	DOCUMENTATION AUTHOR'S DECLARATION STATEMENT Lertify that this Certificate of Compliance documentation is accurate and complete. Documentation Author Name: Sergey Korolev Company: Vector Engineering and Consulting Services, Inc. Journal of Services of Compliance documentation is accurate and complete. Segrey Korolev Company: Vector Engineering and Consulting Services, Inc. Journal of Services of Company: Vector Engineering and Consulting Services, Inc. Journal of Services	Dete Prepared: 2023-09-33119:29-45-04-00 O. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION Selections have been made based on information provided in this document. If any selection has been changed by permit applicant, an explanation should be included in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and can be found online Form/Title NRCHITO-E - Must be submitted for all buildings P. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE There are no NRCA forms required for this project. DA SC. DR. JOB CONTRACTOR OF TREQUIRED CERTIFICATES OF ACCEPTANCE There are no NRCA forms required for this project.
	Generated Date/Time: CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance Report Version: 2022.0.000 Schema Version: rev 20220101 Compliance ID: 132901-0923-0004 Report Generated: 2023-09-13 16:29:48	Generated Date/Time: CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance Report Version: 2022.0.000 Schema Version: rev 20220101 Compliance ID: 132901-0923-0004 Report Generated: 2023-09-13 16:29:48

STATE OF CALIFORNIA Outdoor Lighting CERTIFICATE OF COMPLIANCE Project Name: DGS - Portable Bldg. Report Page: (Page 3 of 8) Date Prepared: 2023-09-13T19:13:51-04:00	STATE OF CALIFORNIA Outdoor Lighting CERTIFICATE OF COMPLIANCE Project Name: DGS - Portable Bldg. Report Page: (Page 2 of 8) Date Prepared: 2023-09-13T19:13:51-04:00	CERTIFICATE OF COMPLIANCE This document is used to demonstrate compliance with requirements in 110.9, 130.0, 130.2, 140.7, and 141.0(b)2L for outdoor lighting scopes using the prescriptive path for nonresidential and hotel/motel occupancies. It is also used to document compliance with requirements in 160.5, 170.2(e)6, 180.1(a) and 180.2(b)4Bv for outdoor lighting scopes using the prescriptive path for multifamily and mixed-use occupancies. Multifamily includes dormitory and senior living facilities. Project Name: DGS - Portable Bldg. Report Page: (Page 1 of 8)
F. OUTDOOR LIGHTING FIXTURE SCHEDULE For new or altered lighting systems demonstrating compliance with 140.7 / 170.2(e)6 all new luminaires being installed and any existing luminaires remaining or being moved within the spaces covered by the permit application are included in the Table below. For altered lighting systems using the Existing Power method per 141.0(b)2L only new luminaires being installed and replacement luminaires being installed as part of the project scope are included (ie, existing luminaires remaining or existing luminaires being moved are not included). Outdoor lighting attached to multifamily buildings and controlled from the inside of a dwelling unit are included in Table H. and are not included here. All other multifamily outdoor lighting is included here. Designed Wattage: O1	C. COMPLIANCE RESULTS Results in this table are automatically calculated from data input and calculations in Tables F through N. Note: If any cell on this table says "COMPLIES with Exceptional Conditions" refer to Table D. Exceptional Conditions for guidance or see applicable Table referenced below. Calculations of Total Allowed Lighting Power (Watts) 140.7 / 170.2(e)6 or 141.0(b)2L / 180.2(b)4Bv Calculations of Total Allowed Lighting Power (Watts) 140.7 / 170.2(e)6 or 141.0(b)2L / 180.2(b)4Bv Compliance Results Or	A. GENERAL INFORMATION 11 Project Location (city) Oakland O2 Climate Zone 3 Outdoor Lighting Zone per Title 24 Part 1 10.114 or as designated by Authority Having Jurisdiction (AHJ): 12-0: Very Low - Undeveloped Parkland 12-2: Moderate - Urban Clusters 12-4: High - Must be reviewed by CA Energy Commission for Approval 12-1: Low-Rural Areas 05 Occupancy Types within Project • Office B. PROJECT SCOPE This table includes outdoor lighting systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in 140.7/ 170.2(e)6 or 141.0(b)2L/180.2(b)48v for alterations. My Project Consists of:
* NOTES: Selections with a * require a note in the space below explaining how compliance is achieved. EX: Luminaire is lighting a statue; EXCEPTION 2 to 130.2(b) 1FOOTNOTES: Authority Having Jurisdiction may ask for Luminaire cut sheets to confirm wattage used for compliance per 130.0(c) / 160.5(b) 2 For linear luminaires, wattage should be indicated as W/lf instead of Watts/luminaire. Total linear feet should be indicated in column 05 instead of number of luminaires. 3 Select "New" for new luminaires in a new outdoor lighting project, or for added luminaires in an alteration. Select "Altered" for replacement luminaires in an alteration. Select "Existing to Remain" for existing luminaires within the project scope that are not being altered and are remaining. Select "Existing Reinstalled" for existing luminaires which are being removed and reinstalled as part of the project scope. 4 Compliance with mandatory shielding requirements is required for luminaires with initial lumen output >= 6,200 unless exempted by 130.2(b)/160.5(c) G. SHIELDING REQUIREMENTS (BUG) This section does not apply to this project.	This table is auto-filled with uneditable comments because of selections made or data entered in tables throughout the form. E. ADDITIONAL REMARKS This table includes remarks made by the permit applicant to the Authority Having Jurisdiction.	New Lighting System Must Comply with Allowances from 140.7 / 170.2(e)6 Altered Lighting System Is your alteration increasing the connected lighting load (Watts)? Yes No
Generated Date/Time: CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance Report Version: 2022.0.000 Schema Version: rev 20220101 CALIFORNIA Outdoor Lighting CALIFORNIA ENERGY COMMISSION CERTIFICATE OF COMPLIANCE Project Name: DGS - Portable Bidg. Report Date / Documentation Software: Energy Code Ace Compliance ID: 133209-0923-0002 Report Generated: 2023-09-13 16:13:55 CALIFORNIA ENERGY COMMISSION (Page 6 of 8)	Generated Date/Time: CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance Report Version: 2022.0.000 Schema Version: rev 20220101 CALIFORNIA Outdoor Lighting CERTIFICATE OF COMPLIANCE Project Name: DGS - Portable Bldg. Generated Date/Time: Documentation Software: Energy Code Ace Compliance ID: 133209-0923-0002 Report Version: 2022.0.000 Compliance ID: 133209-0923-0002 Report Generated: 2023-09-13 16:13:55 CALIFORNIA ENERGY COMMISSION Report Page: (Page 5 of 8)	Generated Date/Time: CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance Report Version: 2022.0.000 Schema Version: rev 20220101 STATE OF CALIFORNIA Outdoor Lighting CALIFORNIA ENERGY COMMISSION CERTIFICATE OF COMPLIANCE Project Name: DGS - Portable Bidg. Report Page: Documentation Software: Energy Code Ace Compliance ID: 133209-0923-0002 Report Generated: 2023-09-13 16:13:55
J. LIGHTING ALLOWANCE: PER APPLICATION This table includes areas using the wattage allowance per application from Table 140.7-8 / Table 170.2-5. O1 O2 O3 O4 O5 O6 O7 O8 O9 10 CALCULATED ALLOWANCE (Watts) DESIGN WATTS Additional Allowance Allowance Per Allowance (Watts) Entrance Portable Bidg. Building Entrance/Exit 1 19 19 C 23 2 46 19 Total Design Watts for this Area: 46 Total Allowance (Watts) A	Date Prepared: 2023-09-13T19:13:51-04:00	Date Prepared: 2023-09-13T19:13:51-04:00
This section does not apply to this project. L. LIGHTING ALLOWANCE: ORNAMENTAL This section does not apply to this project. M. LIGHTING ALLOWANCE: PER SPECIFIC AREA This section does not apply to this project. N. EXISTING CONDITIONS POWER ALLOWANCE (alterations only) This section does not apply to this project.	Total General Hardscape Allowance (Watts): 116.11	³ Recessed luminaires marked for use in fire-rated installations, and recessed luminaires installed in non-insulated ceilings are excepted from ii and iii.
CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance Report Version: 2022.0.000 Schema Version: rev 20220101 Compliance ID: 133209-0923-0002 Report Generated: 2023-09-13 16:13:55	Generated Date/Time: CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance Report Version: 2022.0.000 Schema Version: rev 20220101 STATE OF CALIFORNIA Outdoor Lighting CALIFORNIA ENERGY COMMISSION CERTIFICATE OF COMPLIANCE Documentation Software: Energy Code Ace Compliance ID: 133209-0923-0002 Report Generated: 2023-09-13 16:13:55 CALIFORNIA ENERGY COMMISSION NRCC-LTO-E	Generated Date/Time: Documentation Software: Energy Code Ace CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance Report Version: 2022.0.000 Compliance ID: 133209-0923-0002 Report Generated: 2023-09-13 16:13:55 STATE OF CALIFORNIA Outdoor Lighting CALIFORNIA ENERGY COMMISSION CERTIFICATE OF COMPLIANCE Outdoor Lighting NRCC-LTO-E
	Project Name: DGS - Portable Bidg. Report Page: (Page 8 of 8) Project Address: 333 E. 8th St., Oakland, CA 94606 Date Prepared: 2023-09-13719:13:51-04:00 DOCUMENTATION AUTHOR'S DECLARATION STATEMENT I certify that this Certificate of Compliance documentation is accurate and complete. Documentation Author Name: Sergey Korolev Company: Vektor Engineering and Consulting Services, Inc. Address: 2603 Camino Ramon, Suite 417 City/State/Zip: San Ramon, CA 94583 RESPONSIBLE PRSON SDECLARATION STATEMENT I certify the following under penalty of perjury, under the laws of the State of California: 1. The Information provided on this Certificate of Compliance is true and correct. 2. Jam eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer) 3. He building design or system design identified on this Certificate of Compliance conform to the requirements of Title 3. Part 1 and Parts of the California: 4. The building design or system design identified on this Certificate of Compliance or System design identified on this Certificate of Compliance or System design identified on this Certificate of Compliance conform to the requirements of Title 3. Part 1 and Parts of the California: 4. The building design or system design information provided on this certificate of Compliance are consistent which the Information provided on this Certificate of Compliance or System design information provided on the Certificate of Compliance or System design information provided on the Certificate of Compliance or System design information provided on the Certificate of Compliance or System design design or System	Project Name: DGS - Portable Bidg. Report Page: (Page 7 of 8) Date Propared: 2023-09-13T19-13-51-04:00 O. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION Selections have been made based on information provided in this document. If any selection has been changed by permit applicant, an explanation should be included in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and can be found online Form/Title NRCHITO-E - Must be submitted for all buildings P. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE There are no NRCA forms required for this project. SOURTH SERVICE STATES OF ACCEPTANCE There are no NRCA forms required for this project.
	Generated Date/Time: Documentation Software: Energy Code Ace CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance Report Version: 2022.0.000 Compliance ID: 133209-0923-0002 Schema Version: rev 20220101 Report Generated: 2023-09-13 16:13:55	DATE: SCALE: DRAWN B JOB NO. CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance Report Version: 2022.0.000 Schema Version: rev 20220101 Report Generated: 2023-09-13 16:13:55

DRAWING TITLE:
PORTABLE BLDG. NRCC-LTO-01E

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CERTIFICATE OF COMPLIANCE Project Name: DGS - TV & Radio Dept. Bldgs. Report Page: (Page 3 of 8) Date Prepared: 2023-09-13T19:33:56-04:00	CERTIFICATE OF COMPLIANCE Project Name: DGS - TV & Radio Dept. Bldgs. Report Page: (Page 2 of 8) Date Prepared: 2023-09-13T19:33:56-04:00	CERTIFICATE OF COMPLIANCE This document is used to demonstrate compliance with requirements in 110.9, 130.0, 130.2, 140.7, and 141.0(b)2L for outdoor lighting scopes using the prescriptive path for nonresidential and hotel/motel occupancies. It is also used to document compliance with requirements in 160.5, 170.2(e)6, 180.1(a) and 180.2(b)4Bv for outdoor lighting scopes using	
OUTDOOR LIGHTING FIXTURE SCHEDULE		the prescriptive path for multifamily and mixed-use occupancies. Multifamily includes dormitory and senior living facilities. Project Name: DGS - TV & Radio Dept. Bldgs. Report Page: (Page 1 of 8) Project Address: 333 E. 8th St., Oakland, CA 94606 Date Prepared: 2023-09-13T19:33:56-04:00	
For new or altered lighting systems demonstrating compliance with 140.7 / 170.2(e)6 all new luminaires being installed and any existing luminaires remaining or being moved within the spaces covered by the permit application are included in the Table below. For altered lighting systems using the Existing Power method per 141.0(b)2L only new luminaires being installed and replacement luminaires being installed as part of the project scope are included (ie, existing luminaires remaining or existing luminaires being moved are not included). Outdoor lighting attached to multifamily buildings and controlled from the inside of a dwelling unit are included in Table H. and are not included here. All other multifamily outdoor	C. COMPLIANCE RESULTS Results in this table are automatically calculated from data input and calculations in Tables F through N. Note: If any cell on this table says "COMPLIES with Exceptional Conditions" refer to Table D. Exceptional Conditions for guidance or see applicable Table referenced below.	A. GENERAL INFORMATION 01 Project Location (city) Oakland	
lighting is included here. Designed Wattage:	Calculations of Total Allowed Lighting Power (Watts) 140.7 / 170.2(e)6 or 141.0(b)2L / 180.2(b)4Bv Compliance Results 01 02 03 04 05 06 07 08 09 General Per Fersion Per Specific	02 Climate Zone 3 Total Illuminated Hardscape Area (ft²) 7793 03 Outdoor Lighting Zone per Title 24 Part 1 10.114 or as designated by Authority Having Jurisdiction (AHJ): □ LZ-0: Very Low - Undeveloped Parkland □ LZ-2: Moderate - Urban Clusters □ LZ-4: High - Must be reviewed by CA Energy Commission for Approval	
Name or Item Complete Luminaire Description Watts per Wattage Watts per Wattage W	Allowance + Application + Application 140.7(d)2 / 170.2(e)6 +	□ LZ-1: Low - Rural Areas □ LZ-3: Moderately High - Urban Areas □ 5 Occupancy Types within Project	
Iuminaire determined Luminaires Status 170.2(e)6A 130.2(b) / 160.5(c)1 ⁴ Pass Fail Fxisting NA < 6200	(See Table I) (See Table J) (See Table I) (See Table I) (See Table M) (See Table M) (See Table N) (• Office	
C GARDCO GWM ☐ Linear 23 Mfr. Spec 4 Alteration ☐ 92 Inv. < 6200 lumens	Controls Compliance (See Table H for Details) COMPLIES	B. PROJECT SCOPE This table includes outdoor lighting systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in 140.7/ 170.2(e)6 or 141.0(b)2L / 180.2(b)4Bv for alterations.	
* NOTES: Selections with a * require a note in the space below explaining how compliance is achieved. EX: Luminaire is lighting a statue; EXCEPTION 2 to 130.2(b)	D. EXCEPTIONAL CONDITIONS This table is auto-filled with uneditable comments because of selections made or data entered in tables throughout the form.	My Project Consists of: 01 New Lighting System Must Comply with Allowances from 140.7 / 170.2(e)6	
¹ FOOTNOTES: Authority Having Jurisdiction may ask for Luminaire cut sheets to confirm wattage used for compliance per 130.0(c) / 160.5(b) ² For linear luminaires, wattage should be indicated as W/lf instead of Watts/luminaire. Total linear feet should be indicated in column 05 instead of number of luminaires. ³ Select "New" for new luminaires in a new outdoor lighting project, or for added luminaires in an alteration. Select "Altered" for replacement luminaires in an alteration. Select "Existing to Remain"	E. ADDITIONAL REMARKS This table includes remarks made by the permit applicant to the Authority Having Jurisdiction.	Altered Lighting System Is your alteration increasing the connected lighting load (Watts)? Yes No 05	
for existing luminaires within the project scope that are not being altered and are remaining. Select "Existing Reinstalled" for existing luminaires which are being removed and reinstalled as part of the project scope. 4 Compliance with mandatory shielding requirements is required for luminaires with initial lumen output >= 6,200 unless exempted by 130.2(b)/ 160.5(c)		% of Existing Luminaires Being Altered¹ Sum Total of Luminaires Being Added or Altered Calculation Method <10% >= 10% and <50% >= 50% Please proceed to Table F. Outdoor Lighting Fixture Schedule to define the project's luminaires.	
G. SHIELDING REQUIREMENTS (BUG) This section does not apply to this project.		¹ FOOTNOTES: % of Existing Luminaires Being Altered = (Sum Total of Luminaires Being Added or Altered / Existing Luminaires within the Scope of the Permit Application) x 100.	
Generated Date/Time: Documentation Software: Energy Code Ace CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance Report Version: 2022.0.000 Compliance ID: 133119-0923-0004	Generated Date/Time: Documentation Software: Energy Code Ace CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance Report Version: 2022.0.000 Compliance ID: 133119-0923-0004	Generated Date/Time: Documentation Software: Energy Code Ace CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance Report Version: 2022.0.000 Compliance ID: 133119-0923-0004	
Schema Version: rev 20220101 Report Generated: 2023-09-13 16:34:00	Schema Version: rev 20220101 Report Generated: 2023-09-13 16:34:00	STATE OF CALIFORNIA	(S) //
Outdoor Lighting CALIFORNIA ENERGY COMMISSION CERTIFICATE OF COMPLIANCE NRCC-LTO-E	Outdoor Lighting CERTIFICATE OF COMPLIANCE CALIFORNIA ENERGY COMMISSION NRCC-LTO-E	Outdoor Lighting CERTIFICATE OF COMPLIANCE CALIFORNIA ENERGY COMMISSION NRCC-LTO-E	STAMP
Project Name: DGS - TV & Radio Dept. Bldgs. Report Page: (Page 6 of 8) Date Prepared: 2023-09-13T19:33:56-04:00	Project Name:DGS - TV & Radio Dept. Bldgs.Report Page:(Page 5 of 8)Date Prepared:2023-09-13T19:33:56-04:00	Project Name: DGS - TV & Radio Dept. Bldgs. Report Page: (Page 4 of 8) Date Prepared: 2023-09-13T19:33:56-04:00	SSIONAL
J. LIGHTING ALLOWANCE: PER APPLICATION This table includes areas using the wattage allowance per application from Table 140.7-B / Table 170.2-S.	I. LIGHTING POWER ALLOWANCE (per 140.7 / 170.2(e)) This table includes areas using allowance calculations per 140.7 / 170.2(e). General 01	H. OUTDOOR LIGHTING CONTROLS This table demonstrates compliance with controls requirements for all new or altered luminaires installed as part of the permit application. For alteration projects, luminaires which are	PROFI
01 02 03 04 05 06 07 08 09 10 CALCULATED ALLOWANCE (Watts) DESIGN WATTS Additional	Hardscape Allowance is per Table 140.7-A/Table 170.2-R while "Use it or lose it" Allowances are per Table 140.7-B / Table 170.2-S. Indicate which allowances are being used to expand sections for user input. Luminaires that qualify for one of the "Use it or lose it" Allowance (select all that apply) (select all that apply) General Hardscape	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. Outdoor lighting for nonresidential buildings, parking garages and common service areas in multifamily buildings must be documented separately from outdoor lighting attached to multifamily buildings and controlled from the inside of a dwelling unit	
Application per lable 140.7-b # of Locations per Location Loca	Outdoor lighting attached to multifamily buildings and controlled from the inside of a dwelling unit are included in Table H. and are not included here. All other multifamily outdoor lighting is included here.	Mandatory Controls for Nonresidential Occupancies, Parking Garages & Common Areas in Multifamily Buildings 01 02 03 04 05	
Entrances TV & Radio Dept. Bldgs. Building Entrance/Exit 4 19 76 C 23 4 92 76 Total Design Watts for this Area: 92 Total Allowance (Watts) All Areas: 76	Calculated General Hardscape Lighting Power Allowance per Table 140.7-A for Nonresidential & Hotel/Motel 02 03 04 05 06 07 08 09	Area Description Shut-Off Auto-Schedule Motion Sensor Field Inspector 130.2(c)1 / 160.5(c) 130.2(c)2 / 160.5(c) Pass Fail	ž
¹ FOOTNOTES: Primary entrance applications are only available for senior care facilities, healthcare facilities, police stations, hospitals, fire stations, and emergency vehicle facilities. ² The Allowance per Location for ATMs is 100W for the first ATM and 35W for each additional per Table 140.7-B /Table 170.2-S. ³ For luminaires indicated in Table F as linear, wattage in column 07 is W/lf instead of Watts/luminaire. Total linear feet should be indicated in column 08 instead of number of luminaires.	Area Description Illuminated Area Allowed Density Area Allowance Perimeter Length Allowed Density Linear Allowance AWA + LWA (ft²) (W/ft²) (Watts) (Watts) (Watts)	Hardscape Area around TV & Radio Dept. Bldgs.: "C" Hardscape Area around TV Astronomical Timer Provided NA: Each Luminaire <= 40 Watts	
K. LIGHTING ALLOWANCE: SALES FRONTAGE	Hardscape Area around TV & Radio Dept. Bldgs. 7793 0.021 163.65 469 0.2 93.8 257.45 Initial Wattage Allowance for Entire Site (Watts): Instances of Initial Wattage Allowance (LZ 0 only) ¹	Rardiscape Area around TV & Radio Dept. Bldgs.: "C"	با ع ح
This section does not apply to this project.	Total General Hardscape Allowance (Watts): 257.45	¹ FOOTNOTE: Text has been abbreviated, please refer to Table 160.5-A to confirm compliance with the specific light source technologies listed. ² Authority having jurisdiction may ask for cutsheets or other documentation to confirm compliance of light source. ³ Recessed luminaires marked for use in fire-rated installations, and recessed luminaires installed in non-insulated ceilings are excepted from ii and iii.	7
L. LIGHTING ALLOWANCE: ORNAMENTAL This section does not apply to this project.			+
M. LIGHTING ALLOWANCE: PER SPECIFIC AREA This section does not apply to this project.			
N. EXISTING CONDITIONS POWER ALLOWANCE (alterations only) This section does not apply to this project.			
			S
CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance Report Version: 2022.0.000 Schema Version: rev 20220101 Documentation Software: Energy Code Ace Compliance ID: 133119-0923-0004 Report Generated: 2023-09-13 16:34:00	CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance Report Version: 2022.0.000 Schema Version: rev 20220101 Documentation Software: Energy Code Ace Compliance ID: 133119-0923-0004 Report Generated: 2023-09-13 16:34:00	CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance Report Version: 2022.0.000 Schema Version: rev 20220101 Report Generated Date/Time: Documentation Software: Energy Code Ace Compliance ID: 133119-0923-0004 Report Generated: 2023-09-13 16:34:00	
	STATE OF CALIFORNIA Outdoor Lighting CALIFORNIA ENERGY COMMISSION	STATE OF CALIFORNIA Outdoor Lighting CALIFORNIA ENERGY COMMISSION	
	CERTIFICATE OF COMPLIANCE NRCC-LTO-E Project Name: DGS - TV & Radio Dept. Bldgs. Report Page: (Page 8 of 8)	CERTIFICATE OF COMPLIANCE Project Name: DGS - TV & Radio Dept. Bldgs. Report Page: (Page 7 of 8)	
	Project Address: 333 E. 8th St., Oakland, CA 94606 Date Prepared: 2023-09-13T19:33:56-04:00	Date Prepared: 2023-09-13T19:33:56-04:00	A A
	DOCUMENTATION AUTHOR'S DECLARATION STATEMENT I certify that this Certificate of Compliance documentation is accurate and complete. Documentation Author Name: Documentation Author Signature:	O. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION Selections have been made based on information provided in this document. If any selection has been changed by permit applicant, an explanation should be included in Table E.	
	Sergey Korolev Company: Vektor Engineering and Consulting Services, Inc. Address: 2603 Camino Ramon, Suite 417 CEA/ HERS Certification Identification (if applicable):	Additional Remarks. These documents must be provided to the building inspector during construction and can be found online Form/Title	5
	City/State/Zip: San Ramon, CA 94583 RESPONSIBLE PERSON'S DECLARATION STATEMENT I certify the following under prealty of perjury, under the laws of the State of California:	P. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE	"
	 The information provided on this Certificate of Compliance is true and correct. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer) The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations. 	There are no NRCA forms required for this project.	
	 The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application. I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the building owner at occupancy. 		
	Responsible Designer Name: Sergey Korolev Company: Vektor Engineering and Consulting Services, Inc. Date Signed: 9/13/2023 Date Signed: 9/13/2023		^ R
	Address: 2603 Camino Ramon, Suite 417 City/State/Zip: San Ramon, CA 94583 License: CA E20491 Phone: (925) 698-8067		FET T
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TV & RADIO DEPT, BLDG, NRCC-LTO-01E