- 2. PROVIDE ALL LABOR, MATERIALS, APPLIANCES, TOOLS, EQUIPMENT, FACILITIES, TRANSPORTATION, AND SERVICES NECESSARY FOR AND INCIDENTAL TO PERFORMING ALL OPERATIONS IN CONNECTION WITH FURNISHING, INSTALLATION, AND MAKING FULLY OPERATIONAL THE WORK OF THIS DIVISION, COMPLETE, AND AS SHOWN AND/OR SPECIFIED HEREIN. EXCEPT SUCH MATERIAL OR EQUIPMENT SPECIFICALLY INDICATED AS PROVIDED BY THE OWNER OR BY OTHERS.
- 3. IN THE EVENT OF CONFLICT OR INCONSISTENCY BETWEEN ITEMS INDICATED ON THE PLANS AND/OR SPECIFICATIONS, THE PLAN, NOTE OR SPECIFICATION WHICH PRESCRIBES AND ESTABLISHES THE MORE COMPLETE JOB OR THE HIGHER STANDARD
- 4. THE CONTRACTOR SHALL EXAMINE THE SITE AND THE AREA WHERE THE WORK IS TO BE PERFORMED. BY SUBMITTING A BID ON THE WORK, HE SHALL BE DEEMED TO HAVE ACCEPTED THE SITE CONDITION.
- 5. FINISH AND INSTALL ALL CONDUITS, WIRES, BOXES, SWITCHES, LIGHT FIXTURES(WITH LAMPS), RECEPTACLES, SERVICE DEVICES, SWITCHBOARDS, PANELBOARDS, TRANSFORMERS, AND ALL RELATED ITEMS REQUIRED FOR A COMPLETE AND
- 6. FURNISH AND INSTALL CONDUIT AND CONDUCTORS FOR CABLE TV, TELEPHONE, DATA SYSTEMS, AND SECURITY SYSTEM AS OUTLINED IN PLANS.
- 7. ALL MATERIAL SHALL BE NEW AND OF THE HIGHEST QUALITY, AND SHALL MEET THE FULL APPROVAL OF OWNER OR ENGINEER.
- 8. MATERIALS FURNISHED SHALL BE STANDARD PRODUCTS OF THE MANUFACTURER REGULARLY ENGAGED IN MANUFACTURING OF SUCH PRODUCT. USE LATEST DESIGN THAT COMPLIES WITH THE SPECIFICATION REQUIREMENTS WITH AT LEAST 12 MONTH OF SUCCESSFUL RECORD.
- 9. ALL MATERIALS AND EQUIPMENT SHALL BE NEW AND SHALL BEAR THE UNDERWRITERS' LABEL (UL) AND SHALL BE INSTALLED IN THE MANNER FOR WHICH THEY ARE DESIGNED AND APPROVED.
- 10. ALL WORK AND MATERIALS OF THIS CONTRACT SHALL BE GUARANTEED FOR A PERIOD OF ONE (1) YEAR FROM THE DATE OF FINAL ACCEPTANCE. LIGHTING FIXTURES BALLASTS SHALL BE GUARANTEED FOR TWO(2) YEARS. BATTERY PACKS SHALL BE GUARANTEED FOR FIVE YEARS.
- 11. NO EXTRA WORK SHALL BE UNDERTAKEN WITHOUT WRITTEN APPROVAL OF THE OWNER OR HIS REPRESENTATIVE.
- 12. CONTRACTOR SHALL OBTAIN AND PAY FOR PERMIT AND INSPECTIONS REQUIRED.
- 13. THE DRAWINGS INDICATE DIAGRAMMATICALLY THE DESIRED LOCATIONS OR ARRANGEMENT OF CONDUIT RUNS ARE TO BE FOLLOWED AS CLOSELY AS POSSIBLE. PROPER JUDGMENT MUST BE EXERCISED IN EXECUTING THE WORK AS TO SERVE THE POSSIBLE INSTALLATION IN THE AVAILABLE SPACE AND TO OVERCOME LOCAL DIFFICULTIES DUE TO SPACE LIMITATIONS OR INTERFERENCE OF STRUCTURAL CONDITIONS ENCOUNTERED.
- 14. LOCATIONS SHOWN ON THE INTERIOR AND MECHANICAL DRAWINGS TAKE PRECEDENCE OVER THOSE SHOWN ON THE ELECTRICAL DRAWINGS. REFER TO MECHANICAL, PLUMBING AND HEAT/AC DRAWINGS FOR THE EXACT LOCATIONS, RATINGS, TYPE, CONNECTIONS, WIRING DIAGRAM AND AUXILIARY DEVICES.
- 15. REFER TO THE REFLECTED CEILING PLAN AND THE INFERIOR FLOOR PLANS FOR THE EXACT LOCATIONS OF LIGHTING FIXTURES AND DEVICES. VERIFY LOCATION OF LIGHTS WITH EXPOSED DUCTWORK AND PIPING.
- 16. WRITTEN DIMENSIONS SHALL TAKE PRECEDENCE OVER SCALED DIMENSIONS.
- 17. THE ELECTRICAL CONTRACTOR IN COOPERATION WITH THE MECHANICAL CONTRACTOR SHALL DEMONSTRATE THAT ALL EQUIPMENT IS IN PERFECT WORKING ORDER. THE ELECTRICAL CONTRACTOR SHALL MAKE ALL POWER CONNECTIONS OVER 100V TO A/C EQUIPMENT.
- 18. THE ELECTRICAL CONTRACTOR SHALL FURNISH AND INSTALL CONDUIT ONLY WITH PULL ROPE FOR LOW VOLTAGE CONTROL WIRING FOR THE A/C EQUIPMENT. CONTROL WIRING FROM THERMOSTATS AND OVERRIDES TO A/C UNITS IS BY THE MECHANICAL
- 19. THE CONTRACTOR MAY USE TEMPORARY POWER AND WATER AVAILABLE FOR LIGHTING AND SMALL TOOLS. TOILET FACILITIES ON SITE MAY BE USED BY CONTRACTOR
- 20. SUBMIT THREE (3) SETS OF SHOP DRAWINGS FOR APPROVAL TO ENGINEER FOR ALI PANELBOARDS. DRAWINGS SHALL BE PICTORIAL AND INDICATE ALL MATERIAL RATINGS. DIMENSIONS AND FINISHES.
- 21. CONTRACTOR SHALL MAINTAIN, ON THE JOB, A SET OF PRINTS OF WHICH ALL DAILY CHANGES IN LOCATION OR RUNS SHALL BE CAREFULLY INDICATED. THESE PRINTS SHALL BE DELIVERED TO THE OWNER AT THE CONCLUSION OF THE PROJECT, INDICATING 'AS BUILT' CONDITION.
- 22. ACCOMPLISH ALL TEST NECESSARY TO DEMONSTRATE TO THE SATISFACTION OF THE OWNER THAT ALL EQUIPMENT IS IN PROPER WORKING ORDER AND IS IN COMPLIANCE
- 23. CLEAN UP ALL TRASH AND DEBRIS BY THE WORK DAILY.
- 24. THE GENERAL CONDITIONS OF THE CONTRACT APPLY TO ALL WORK HEREIN SPECIFIED.
- 25. CUTTING, DRILLING, AND PATCHING SHALL BE ACCOMPLISHED IN ACCORDANCE WITH THE APPLICABLE SECTIONS OF THE SPECIFICATIONS.
- 26. ROUGH- AND FURNISHED-CONCRETE WORK REQUIRED SHALL BE ACCOMPLISHED IN ACCORDANCE WITH THE APPLICABLE SECTIONS OF THE SPECIFICATIONS.
- 27. SUBSTITUTIONS: MANUFACTURER AND CATALOG NUMBERS INDICATED ARE FOR THE PURPOSES OF ESTABLISHING STANDARDS OF QUALITY, ALLOWABLE SIZE OF COMPONENTS, AND THE TYPE OF MATERIALS TO BE USED, PRODUCTS BY OTHER MANUFACTURERS WILL BE CONSIDERED IF THE SUBMITTAL ASSOCIATED WITH THAT ITEM IS CLEARLY MARKED "THIS ITEM IS A SUBSTITUTION" AND IT COMPLIES WITH THE FOLLOWING: (1) QUALITY AND CAPACITY ARE EQUAL TO OR BETTER THAN SPECIFIED ITEM, AND (2) COMPONENTS FIT IN ALLOWED SPACES AND ARE SIMILAR IN APPEARANCE. NO SUBSTITUTION ITEMS MAY BE FURNISHED OR INSTALLED WITHOUT WRITTEN APPROVAL OF THE OWNER.
- 28. OPERATIONS AND MAINTENANCE MANUALS: THREE COPIES OF OPERATING AND MAINTENANCE DATA FOR ALL ELECTRICAL EQUIPMENT, BOUND IN A HARDCOVER THREE-RING PLASTIC BINDER WITH A TABLE OF CONTENT.
- 29. COORDINATION: PROVIDE NECESSARY COORDINATION WITH SERVING UTILITY COMPANIES TO ESTABLISH SERVICE ENTRANCE FACILITIES, AND TO MEET OTHER REQUIREMENTS FOR A COMPLETE AND OPERABLE INSTALLATION. VERIFY SIZE AND ORIENTATION OF EQUIPMENT TO BE ENSURE ADEQUATE WORKING CLEARANCE AND VENTILATION. COORDINATE THE WORK OF OTHER TRADES, VERIFYING REQUIRED WORKING. CLEARANCES, SLEEVES, SUPPORTS, DOOR SWINGS, AND OTHER ITEMS AFFECTING THE WORK OF THIS SECTION. VERIFY THE METHODS OF INSTALLING AND CONNECTING EQUIPMENT, OUTLETS, AND OTHER ITEMS.
- 30. QUALITY ASSURANCE: ALL MATERIALS AND THE MANNER IN WHICH THEY ARE APPLIED AND INSTALLED SHALL BE IN COMPLIANCE WITH THE LATEST RULES AND REGULATIONS OF THE CALIFORNIA CODE OF REGULATIONS TITLE 24, PART 3 "CALIFORNIA ELECTRICAL CODE" THE NATIONAL ELECTRICAL CODE; AND OTHER APPLICABLE STATE- AND LOCAL-LAWS AND REGULATIONS. PROTECTION AND CLEANING: ALL PARTS OF EQUIPMENT AND MATERIALS SHALL BE THOROUGHLY CLEANED. PROTECT ALL WORK, MATERIALS AND EQUIPMENT FROM DAMAGE FROM ANY CAUSE AND PROVIDE ADEQUATE AND PROPER STORAGE FACILITIES DURING THE PROGRESS OF THE WORK. PROVIDE FOR THE SAFETY AND GOOD CONDITION OF ALL THE WORK UNTIL FINAL ACCEPTANCE BY THE OWNER; REPLACE ALL DAMAGED OR DEFECTIVE. WORK, MATERIALS AND EQUIPMENT PRIOR TO REQUESTING FINAL ACCEPTANCE, PROVIDE AND MAINTAIN SUITABLE BARRIERS, WARNING SIGNS. LIGHTS. ETC. WHERE REQUIRED FOR PROTECTION OF THE PUBLIC AND OCCUPANTS ABOUT THE SITE. AT THE CONCLUSION OF EACH WORKDAY, THE PREMISES SHALL BE LEFT FREE FROM DEBRIS INCIDENTAL TO THE WORK, AND IN A CONDITION ACCEPTABLE TO THE OWNER OR TENANT.

- CONDUITS OUTSIDE THE BUILDING SHALL BE RIGID STEEL STANDARD WEIGHT HOT DIPPED GALVANIZED THREADED AT BOTH ENDS OR EMT WHERE APPLICABLE.
- 2. UNDERGROUND CONDUITS IF ANY SHALL BE PVC SCHEDULE 40.
- THE WIRING CAN BE ROMEX WHERE PERMITTED BY LOCAL JURISDICTION. ALL OTHER CONDUITS INSIDE THE BUILDING SHALL BE ELECTRICAL METALLIC TUBING (EMT) OR MC CABLE UNLESS IF SUBJECT TO DAMAGE. CONDUITS SUBJECT TO PHYSICAL DÁMAGE SHALL BE RIGID GALVANIZED STEEL CONDUIT.
- FLEXIBLE LIQUID TIGHT METAL CONDUITS SHALL BE USED FOR FINAL CONNECTION TO ROTATING EQUIPMENT, CONDENSING UNITS. EXHAUST FAN AND FAN COILS. A GREEN INSULATED EQUIPMENT GROUNDING CONDUCTOR SHALL BE INSTALLED IN ALL FLEXIBLE METALLIC CONDUIT RUNS.
- ALL CIRCUIT BREAKERS, FUSES AND ELECTRICAL EQUIPMENT SHALL HAVE AN INTERRUPTING RATING NOT LESS THAT THE MAXIMUM SHORT CIRCUIT CURRENT TO WHICH IT MAY BE SUBJECTED.
- ALL DEVICES INSTALLED OUTSIDE OR IN DAMP LOCATIONS SHALL BE APPROVED WEATHERPROOF.
- CONDUCTORS SHALL BE COPPER WITH THHN/THWN INSULATION. INSULATED WIRES AND CABLES MANUFACTURED MORE THAN SIX (6) MONTH PRIOR TO DATE OF DELIVERY TO THE SITE SHALL NOT BE USED. `ALL WIRE SHALL BE UL LISTED. RATED FOR 600 VOLTS, NO 12 MINIMUM SIZE EXCEPT FOR CONTROLS OR OTHERWISE AS
- GROUNDING CONDUCTORS SHALL BE SOFT DRAWN INSULATED COPPER WIRE AS INDICATED WITH GREEN COLORED INSULATION OR GREEN PLASTIC IDENTIFICATION BENDS. GROUNDING AND BONDING OF EQUIPMENT SHALL CONFORM TO UL 467.
- WIRES SHALL BE SPLICED WITH AN INSULATED CONNECTOR. SPLICES OF WIRES NO. 8 AWG AND LARGER SHALL BE MADE WITH APPROVED SOLDERLESS CONNECTORS AND THEN SHALL BE COVERED NEATLY WITH INSULATING TAPES. HOT MOLDED COMPOSITION COVERS, OR OTHER APPROVED EQUIVALENT TO THE CONDUCTOR
- 10. CONNECTORS AND TERMINALS CONFORMING TO UL 486 SHALL BE DESIGNATED FOR USE WITH THE SPECIFIC ASSOCIATED CONDUCTOR MATERIAL. AND SHALL PROVIDE A UNIFORM COMPRESSION OVER THE ENTIRE CONTACT SURFACE. TERMINATION LUGS SHALL BE USED ON ALL STRANDED CONDUCTORS.
- 11. ELECTRICAL TAPES USED FOR ELECTRICAL INSULATION AND OTHER PURPOSES IN WIRE AND CABLE SPLICES, TERMINATIONS, REPAIRS, AND MISCELLANEOUS PURPOSES SHALL CONFORM TO THE REQUIREMENT OF UL STANDARD 510.
- 12. OUTLET BOXES, EXTENSION RINGS AND COVERS SHALL BE PRESSED STEEL, GALVANIZED, KNOCKOUT TYPE OR PLASTIC AS LOCAL JURISDICTION PERMITS. BOX SIZES SHALL BE AS REQUIRED BY CODE FOR THE NUMBER OF WIRES ENTERING BOX. PLASTER RINGS SHALL BE PROVIDED FOR FLUSH MOUNTING.
- 13. DISCONNECT SWITCHES FUSED OR UNFUSED SHALL BE HEAVY DUTY TYPE, SIZED FOR LOAD NOTED ON THE PLANS, UL LISTED AND HORSEPOWER RATED, WITH PROVISIONS TO PAD LOCK HANDLE IN "ON" OR "OFF" POSITION. ENCLOSURE SHALL BE NEMA 3R FOR OUTSIDE OR NEMA 1 FOR INSIDE.
- 14. THREE (3) SPARE FUSES OF EACH TYPE SHALL BE PROVIDED TO THE OWNER. FUSES SHALL BE DUAL ELEMENT, TIME DELAY, HIGH INTERRUPTING TYPE, UL APPROVED. FUSE SIZES IN SWITCHES FOR HVAC EQUIPMENT SHALL BE AS SPECIFIED BY EQUIPMENT MANUFACTURER.
- 15. FURNISH ALL RELAYS, TIME CLOCKS, CONTROL TRANSFORMERS, ETC., REQUIRED FOR INSTALLATION.
- 16. PANELBOARDS MAY BE PLUG-IN CIRCUIT BREAKER TYPE. DEAD FRONT IN BREAKERS SHALL BE RATED AS INDICATED ON PLANS, NEMA 1 ENCLOSURE FOR INTERIOR PANELS, NEMA 3R ENCLOSURE FOR EXTERIOR PANELS.
- 17. LIGHTING FIXTURES SHALL BE FURNISHED COMPLETE WITH ALL COMPONENTS, LAMPS AND MOUNTING ACCESSORIES. ALSO SEE FIXTURE SCHEDULE.
- 18. RECEPTACLES: DUPLEX, THREE-WIRE GROUNDING TYPE, RATED 20A AT 125V, NEMA CONFIGURATION 5-20R. PROVIDE GFCI (SELF-CONTAINED) TYPE AT LOCATIONS SHOWN. FOR EXTERIOR LOCATIONS, PROVIDE WITH WEATHERPROOF BOX, AND ALUMINUM GASKETED SPRING-SHUT COVER. HUBBELL 53XX-SERIES, OR EQUAL FROM PASS & SEYMOUR OR
- 19. SWITCHES: TOGGLE TYPE, NUMBER OF POLES AS SHOWN, QUIET TYPE, RATED 20A AT 120/277V. HUBBELL HBL 12XX-SERIES, OR EQUAL FROM PASS & SEYMOUR OR
- 20. SWITCHBOARDS (SEE SINGLE LINE DIAGRAM): NEMA PB 2; UL 891. RATED AS SHOWN. CU/AL BUS. SIEMENS, CUTLER HAMMER, OR EQUAL BY SQUARE-D OR GE.
- 21. DISCONNECT SWITCHES: NEMA KS 1, UL 98, UL 198C AND 198E. RATED AS SHOWN, HEAVY DUTY TYPE, EXTERNALLY-OPERATED, QUICK-MAKE QUICK-BREAK TYPE, THREE-POLE EXCEPT AS OTHERWISE SHOWN. FOR FUSIBLE TYPE, PROVIDE DUAL-ELEMENT TIME-DELAY CLASS RK-1 CURRENT -LIMITING FUSES. FOR EXTERIOR LOCATIONS, AND WHERE INDICATED, PROVIDE NEMA 3R ENCLOSURES. SQUARE-D, OR EQUAL BY GE OR WESTINGHOUSE.
- 22. MOTOR CONTROLLERS: A. NEMA ICS 2/ICS 6/250/AB 1/FU 1/KS 1; UL 98/198C/198E/489/508. PROVIDE MANUAL MOTOR CONTROLLERS FOR SINGLE-PHASE MOTORS RATED BELOW 2 HP. AND COMBINATION MOTOR CONTROLLERS AS SHOWN. B. MANUAL MOTOR CONTROLLERS: MANUAL MOTOR STARTING SWITCH WITH INTEGRAL THERMAL TYPE OVERLOAD PROTECTION, TOGGLE LEVER TYPE. ALLEN-BRADLEY BULLETIN 609, OR EQUAL BY SQUARE-D, GE OR WESTINGHOUSE. C. COMBINATION MOTOR CONTROLLERS: ENCLOSED COMBINATION STARTER, FUSIBLE DISCONNECT SWITCH TYPE, ALLEN-BRADLEY BULLETIN 512, OR EQUAL BY SQUARE-D, GE OR WESTINGHOUSE.
- 23. PHOTOELECTRIC CONTROLLERS: RATED FOR CONNECTED LOAD, 20A MINIMUM. PARAGON, TORK, SANGANMO, OR EQUAL. 24. TELEPHONE SYSTEM: A. PROVIDE TELEPHONE SYSTEM AS FOLLOWS, EXCEPT AS OTHERWISE SHOWN: B. SERVICE ENTRANCE FACILITY: PROVIDE WALL-MOUNTED 3/4" X 4" x 8" (OR SIZE AS INDICATED) PLYWOOD "MAIN TELEPHONE BACKBOARD" AT THE LOCATION SHOWN WITH (1) A DEDICATED 20A/120V BRANCH CIRCUIT /QUADRAPLEX POWER RECEPTACLE AND (2) A GROUNDING ELECTRODE PIGTAIL (\$6 AWG BARE STRANDED COPPER CABLE ROUTED IN 1" CONDUIT DIRECTLY TO FACILITY GROUNDING ELECTRODE AND CONNECTED THEREON), AT THE TELEPHONE BACKBOARD LOCATION. C. VOICE DROPS AND CABLING PATHWAYS: PROVIDE FLUSH MOUNTED 4" SQUAREBOX/WALLPLATE WITH TELEPHONE JACK AT EACH OF THE LOCATIONS SHOWN. INCLUDING 3/4" CONDUIT (WITH PULLROPE) CONTINUOUS TO THE TELEPHONE BACKBOARD LOCATION AT THE SERVICE ENTRANCE FACILITY. TELEPHONE JACKS SHALL BE PROVIDED AS SPECIFIED BY OWNER. CABLING AND ENTRANCE FACILITY TELEPHONE EQUIPMENT/CROSS-CONNECT FRAMES/NETWORK INTERFACE DEVICES WILL BE PROVIDED BY OWNER

- THE CONTRACTOR SHALL INSTALL ALL CONDUITS AND WIRES WITH A MINIMUM NUMBER OF BENDS AND IN SUCH A MANNER AS TO CONFORM TO THE STRUCTURE. AVOID OBSTRUCTIONS, PRESERVE HEAD ROOM, KEEP OPENINGS AND PASSAGE WAYS CLEAR AND MEET ALL STRUCTURAL CODE REQUIREMENTS. CODE-SIZED PULL BOXES SHALL BE INSTALLED IN RUNS OF OVER 100 FEET OR MORE THAN 4 BENDS.
- SUPPLY AND INSTALL ALL SUPPORTS AND BRACING NECESSARY FOR THE PROPER INSTALLATION OF THE EQUIPMENT.
- 3. ALL EXPOSED CONDUIT SHALL BE INSTALLED AT RIGHT ANGLE TO ROOM OR STRUCTURE OR ALONG EXPOSED BEAMS. CONDUITS SHALL BE SUPPORTED FROM BUILDING STRUCTURE WITH APPROVED PIPE HANGERS.
- 4. ALL PULL BOXES AND ALL JUNCTION BOXES MUST BE ACCESSIBLE AFTER THE CONSTRUCTION IS COMPLETE, ESPECIALLY IN CONCEALED CONDUIT INSTALLATIONS. FINISH FOR ALL EXPOSED J-BOXES AND PULL BOXES SHALL BE PER INTERIOR DESIGN.
- ALL CONDUITS ARE SIZED TO MEET THE REQUIREMENT OF CEC TABLE 3A, "MAXIMUM NUMBER OD CONDUCTORS IN TRADE SIZES OF CONDUIT OR TUBING". CONTRACTOR SHALL CONSIDER THESE SIZES AS A MINIMUM REQUIREMENT AND INCREASE THE CONDUIT SIZE IF NECESSARY TO FACILITATE HIS CABLE PULLING.
- THE ENTIRE ELECTRICAL INSTALLATION SHALL BE GROUNDED AS SHOWN AND AS REQUIRED BY ALL APPLICABLE CODES AND THE SERVING UTILITY. NO CONDUIT SHALL BE USED AS A GROUND, EXCEPT FOR LIGHTING CIRCUIT.
- INCLUDE A GREEN-WIRE SIZED AS REQUIRED BY NATIONAL ELECTRICAL CODE IN ALL CONDUIT RUN D FOR EQUIPMENT GROUND AND GREEN-YELLOW STRIPE WIRE FOR ISOLATED GROUND AS SHOWN ON PARTICULAR CONDUIT RUNS ALONG WITH THE GREEN WIRE. SAME APPLIES TO FLEXIBLE CONDUITS EVEN IF UL LABELED FOR GROUND, UNLESS USED IN LIGHTING CIRCUITS.
- 8. PROVIDE FIRE PROOFING FOR PENETRATIONS THROUGH RATED WALLS AND FLOORS.
- 9. ALL CUTTING AND PATCHING REQUIRED FOR INSTALLATION OF THE ELECTRICAL WORK SHALL BE DONE BY THIS CONTRACTOR. DO NOT CUT OR DRILL STRUCTURAL MEMBERS WITHOUT WRITTEN PERMISSION OF THE STRUCTURAL ENGINEER. ALL CUTTING AND PATCHING SHALL BE NEAT, AND PATCHING SHALL MATCH ADJACENT SURFACE AS TO TEXTURE AND FINISH. ALL SURFACE SHALL BE REPLACED IN KIND.
- 10. BACK TO BACK INSTALLATION OF OUTLET IS NOT PERMITTED IN ROOMS INSULATED FOR SOUND, BECAUSE OF SOUND TRANSFERENCE THROUGH OUTLETS. SEAL SUCH OUTLETS AIR
- 11. DIMENSIONS SHOWN ON OUTLET BOXES SHALL BE FROM THE FINISHED FLOOR TO THE CENTER OF THE BOX.
- 12. FLUORESCENT FIXTURES SHALL BE SUPPORTED FROM STRUCTURE ABOVE. 13. ALL PENETRATION THROUGH ROOF SHALL BE FLASHED AND COUNTER FLASHED TO
- MAKE WATER-TIGHT. 14. PROVIDE A MANUAL DISCONNECTING MEANS AT MOTOR FOR ALL MOTORS NOT WITHIN
- SIGHT OF THE SERVING PANEL OR THEIR DISCONNECT.
- 15. INSTALL BLANK PLATES AS REQUIRED TO CLOSE OPENINGS IN SWITCHBOARDS OR PANELS WHERE EQUIPMENT HAS BEEN REMOVED.
- 16. ELECTRICAL IDENTIFICATION: PROVIDE NAMEPLATES FOR SWITCHBOARDS, PANELBOARDS, DISCONNECT SWITCHES, CONTACTORS/RELAYS, AND TERMINAL CABINET/BACKBOADS, MOTOR CONTROLLERS, INDIVIDUALLY-MOUNTÉD ANY OTHER CONTROL DEVICE OR MAJOR ITEMS OF ELECTRICAL EQUIPMENT.
- 17. NAMEPLATES SHALL BE BLACK-ON-WHITE LAMINATED PLASTIC, ATTACHED WITH MACHINE SCREWS. LETTERING SHALL BE 1/4" HIGH MINIMUM, CORRESPONDING TO THE DESIGNATION (OR ADDITIONAL INFORMATION) SHOWN. COLOR CODE ALL WIRE WITH INSULATION/JACKET (FACTORY-APPLIEDO COLOR FOR PHASE IDENTIFICATION (CONTINUOUS FOR CIRCUIT FROM OUTLET-TO OUTLET. PULL BOX, OR CABINET) AS FOLLOWS:

| | SYSTEM VOLTAGE | |
|---------|----------------|----------|
| PHASE | 208Y/120 | 480Y/277 |
| A | BLACK | YELLOW |
| В | RED | BROWN |
| С | BLUE | ORANGE |
| NEUTRAL | WHITE | WHITE |
| GROUND | GREEN | GREEN |

- 18. LIGHT FIXTURE IN CONTACT WITH INSULATION TO BE U.L. LISTED FOR THERMAL BARRIER OR PROVIDE 3" MINIMUM CLEARANCE.
- 19. PANEL CIRCUIT DIRECTORY TO COMPLY WITH SECT. 408.4, CEC.
- 20. W.P. COVER OF OUTLETS TO COMPLY WITH SECT. 406.8(B)(1), CEC.

START-UP

- TEST THE ENTIRE WIRING SYSTEM FOR SHORT CIRCUITS, GROUNDS AND INSULATION RESISTANCE BETWEEN CONDUCTORS AND TO GROUND.
- 2. DEMONSTRATE THAT THE EQUIPMENT OPERATES IN ACCORDANCE WITH THE REQUIREMENTS OF THESE DRAWINGS. DEMONSTRATE THAT PROTECTIVE FUNCTIONS ARE OPERATING PROPERLY AND INCORPORATED IN THE CONTROL

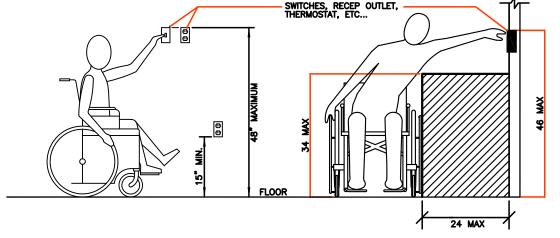
SYSTEM CIRCUIT BREAKER, AND MOTOR CONTROL CENTER CIRCUITRY.

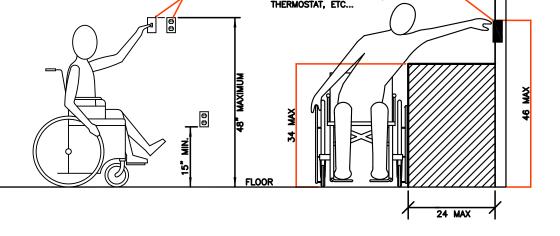
- CHECK VOLTAGE AMPLITUDE AND BALANCE BETWEEN PHASES FOR LOADED AND UNLOADED CONDITIONS.
- 4. SET THE OVERLOAD HEATERS OF INDIVIDUAL MOTORS ACCORDING TO SERVICE, CODE AND MANUFACTURER'S REQUIREMENT.
- CHECK AND CORRECT THE ROTATION OF ALL MOTORS. CHECKS WITH THE CONTRACTOR RESPONSIBLE FOR DRIVEN EQUIPMENT.
- ALL TESTS TO BE PERFORMED IN PRESENCE OF THE OWNER. SUBMIT THE
- REPORTS TO THE ENGINEER FOR REVIEW.

GREEN BLDG. NOTES

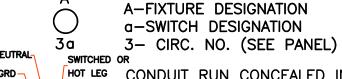
- THE OUTDOOR LIGHTING SYSTEMS SHALL BE DESIGNED AND INSTALLED TO COMPLY WITH ALL THE FOLLOWING: 1.1. THE MINIMUM REQUIREMENTS IN CALIFORNIA ENERGY CODE FOR LIGHTING ZONES 1-4.
- 1.2. BACKLIGHT, UPLIGHT AND GLARE(BUG) RATING AS DEFINED IN IESNA TM-15-11 1.3. ALLOWABLE BUG RATINGS NOT EXCEEDING THOSE SHOWN IN
- TABLES 5.106.8. 2. NEW RESIDENTIAL GRADE EQUIPMENT AND APPLIANCES PROVIDED AND INSTALLED SHALL BE ENERGY STAR LABELED IF ENERGY STAR IS APPLICABLE TO THAT EQUIPMENT OR APPLIANCE

RECEPT. MOUNTING HEIGHT





1. PROVIDE A GROUNDING SYSTEM FOR A SEPARATE STRUCTURE PER CEC 250-32(B). SYMBOL **DESCRIPTION** LIGHT OUTLET 2. PROVIDE WORKING CLEARANCES @ NEW & EXISTING EQUIPMENT. CEC ART. 110-26.



HOT LEG CONDUIT RUN CONCEALED IN WALL OR CEILING. CROSS LINES INDICATE NO. OF #12 COPPER WIRES EXCLUDING GROUND CONDUCTORS WHERE REQ'D (1/2" CONDUIT U.O.N)

CONDUIT RUN IN FLOOR OR U.G. CONDUIT RUN EXPOSED **GROUND CONNECTION** CONDUIT STUB OUT WITH CAP

PANEL MOUNTED CIRCUIT BREAKER **→**~~~

→>--ALL SWITCHES (36" MIN TO 48" MAX AFF, SEE NOTE1)

PANEL MOUNTED FUSED SWITCH

SINGLE POLE SWITCH THREE WAY SWITCH

FOUR WAY SWITCH DIMMER SWITCH

OR

THREE WAY DIMMER SWITCH DISCONNECT SWITCH, FUSED DISCONNECT SWITCH, NON FUSED

SWITCHBOARD

TRANSFORMER

PUSH BUTTON

QUAD RECEPTACLE

GFCI (TEC

AFCI 🕽

 $(\mathsf{\,SFD\,})$

TELEPHONE BACKBOARD

ALL RECEPTACLES AT 15" MIN TO 48" MAX AFF.

GROUND FAULT CIRCUIT INTERRUPTER RECEPTACLE

GROUND DUPLEX RECEPTACLE WITH USB CHARGER (15A)

ARC FAULT CIRCUIT INTRRUPTER RECEPTACLE

DEDICATED RECEPTACLE (20A)

FLOOR MOUNTED RECEPTACLE

CEILING MOUNTED RECEPTACLE

TELEPHONE OUTLET (+18 U.O.N.)

TELEPHONE CLG. MOUNTED OUTLET

TELEPHONE FLOOR MOUNTED OUTLET

DATA (CAT 6) OUTLET (+18" U.O.N.)

DATA (CAT 6) CLG. MOUNTED OUTLET

DATA (CAT 6) FLR. MOUNTED OUTLET

DUPLEX DATA (CAT 6) OUTLET (+18" U.O.N.)

SMOKE DETECTOR/CARBON MONOXIDE DETECTOR

PROJECT SCOPE

SWITCHED RECEPTACLE

SIMPLEX RECEPTACLE

FLOOR MOUNTED J-BOX

JUNCTION BOX

INTERCOM OUTLET

CABLE TELEVISION OULET

SMOKE FIRE DAMPER

SMOKE DETECTOR

EQUIPMENT

1. NEW SINGLE FAMILY HOME

GROUND FAULT CIRCUIT INTERRUPTER DOUBLE DUPLEX RECEPTACLE

MINIMUM DIMENSION IS MEASURED FROM THE

BOTTOM OF THE BOX AND MAXIMUM IS

MEASURED FROM THE TOP OF THE BOX.

GROUND DUPLEX RECEPTACLE (15A)

MAGNETIC MOTOR STARTER 17. THE ELECTRICAL EQUIPMENT SHALL BE RATED FOR THE AVAILABLE FAULT CURRENT AS SPECIFIED IN THE SINGLE LINE DIAGRAM NOTES PER CEC, PANELBOARD

- 18. ISOLATED GROUNDING CONDUCTORS SHALL TERMINATE AT THE SERVICE. CEC, ART.250-96(B). 19. ALARM SYSTEMS AND ELECTRIC SIGNS SHALL BE ON A SEPARATE
- PLAN. ART.210-19(A). 20. DERATING OF CONDUCTORS WILL APPLY PER CEC, ART.310-15(B) (2) (A)
- PERMIT. 21. A 125V RECEPTACLE (GFCI PROTECTED & WP) IS REQUIRED WITHIN 25 FEET

ELECTRICAL CODE

3. GROUNDING ELECTRODE CONDUCTOR INSTALLATION SHALL COMPLY WITH

6. COMPLY WITH CEC ART 670 FOR INSTALLATION OF INDUSTRIAL MACHINERY.

COMPLY WITH CEC, ART.250-97. NOTE THAT STANDARD LOCK NUTS ARE

METHOD OF GROUNDING OF ALL TRANSFORMERS SHALL COMPLY

8. GROUND FAULT PROTECTION @ SERVICES SHALL BE PROVIDED PER

10. BONDING FOR CIRCUITS OF OVER 250 VOLTS TO GROUND SHALL

11. TORQUEING OF TERMINATIONS SHALL BE IN ACCORDANCE WITH THE

12. ALL EQUIPMENT SHALL BE LISTED & LABELED BY AN APPROVED

WILL BE REQUIRED BEFORE FINAL APPROVAL IS GRANTED.

14. GROUNDING ELECTRODE SYSTEM SHALL COMPLY WITH CEC,

EQUIPMENT LABEL AND PRIOR OF TORQUE IS REQUIRED PRIOR TO

TESTING AGENCY. TESTING BY AN APPROVED TESTING LABORATORY

13. PROVIDE AN EQUIPMENT GROUNDING CONDUCTOR FOR ALL CIRCUITS

16. THE CONTRACTOR SHALL PROVIDE TO THE CITY THE AIC VALUE AND

ELECTRICAL UTILITY IN THE FORM OF LETTER THAT SHALL BE WRITTEN UPON THE ELECTRICAL UTILITY'S LETTERHEAD. A COPY OF

THE NOMINAL CIRCUIT VOLTAGE SUPPLIED TO THE SERVICE BY THE

NOT PERMITTED IN THE INSTALLATION OF THE RACEWAY.

4. GROUNDING ELECTRODE CONDUCTOR ENCLOSURE SHALL COMPLY

GROUNDING ELECTRODE CONDUCTOR CONNECTION TO THE

ELECTRODE SHALL COMPLY WITH CEC 250-70.

9. CONDUIT BURIAL DEPTH PER CEC TABLE 300-5

PER CEC, ART.250-110 AND ART.250-118.

15. BONDING SHALL COMPLY WITH CEC 250, PART 5.

THIS SHALL BE PLACED ON THE PLAN.

CEC ART.250-64.

WITH CEC. ART.250-64(E)

WITH CEC, ART.250-30.

FINAL, CEC. ART.110-3(B)

CEC, ART.230-95.

OF ROOF MOUNTED EQUIPMENT. CEC, ART.210-63, ART. 210-8(B). 22. COMMUNICATION & DATA CONDUCTORS RUN IN CONDUIT OR OTHER RACEWAYS SHALL HAVE A BUSHING, OR OTHER TERMINAL FITTING,

WITH AN INTEGRAL BUSHED OPENING @ THE END OF THE CONDUIT OR

RACEWAY, CEC. ART.300-4. 23. BREAKERS USED AS SWITCHES IN LIGHTING SYSTEMS SHALL BE MARKED"SWD" PER CEC, ART.240-83(D). 25. ELECTRICAL CONTRACTOR TO PREPARE CONDUITS AND BACK BOXES, SUPPORT, ETC. FOR FIRE ALARM

ABBREVIATIONS

WEATHER PROOF

CONDUIT ONLY

AIR CONDITIONING

SYSTEM INSTALLATION.

CKT CIRCUIT FULL LOAD AMPERE

GROUND FAULT CIRCUIT INTERRUPTER

HORSEPOWER

LIGHTING

NOT IN CONTRACT

NOT TO SCALE

UNSWITCHED NIGHT LIGHT

PULL BOX

UNDERGROUND

UNDERGROUND UNLESS OTHERWISE NOTED

AUTHORITY HAVING JURISDICTION

VERIFY LOCATION

OPEN CIRCUIT VOLTAGE

SHORT CIRCUIT CURRENT

POLE

BARE COPPER COND CONDUIT

CONDUIT

CU

ALUMINUM

COPPER

EQUIPMENT GROUNDING CONDUCTOR

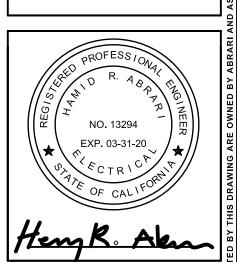
NATIONAL ELECTRICAL CODE

CALIFORNIA ELECTRICAL CODE



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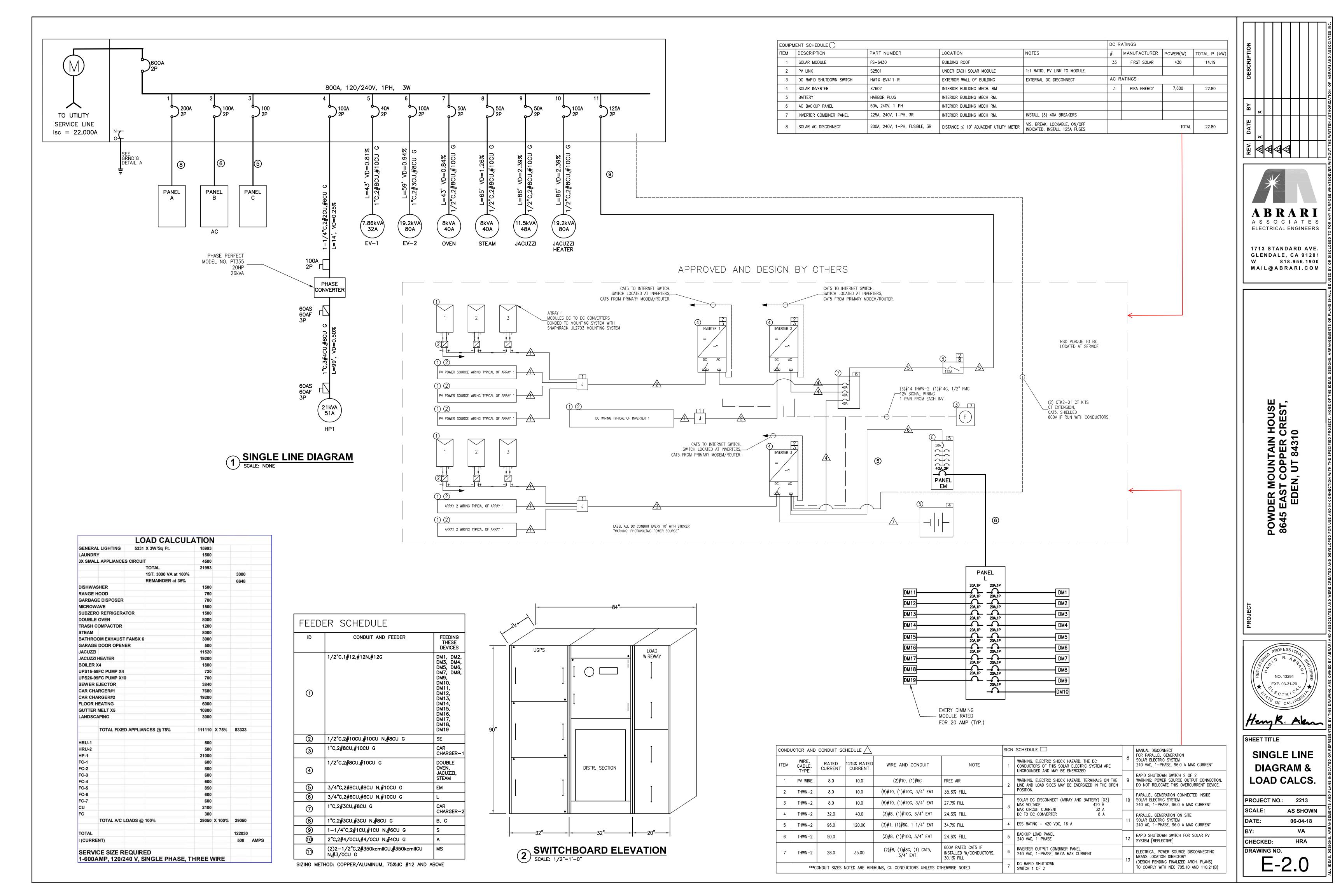
> R ⊥ u o \mathcal{C} ∞ ZL 00



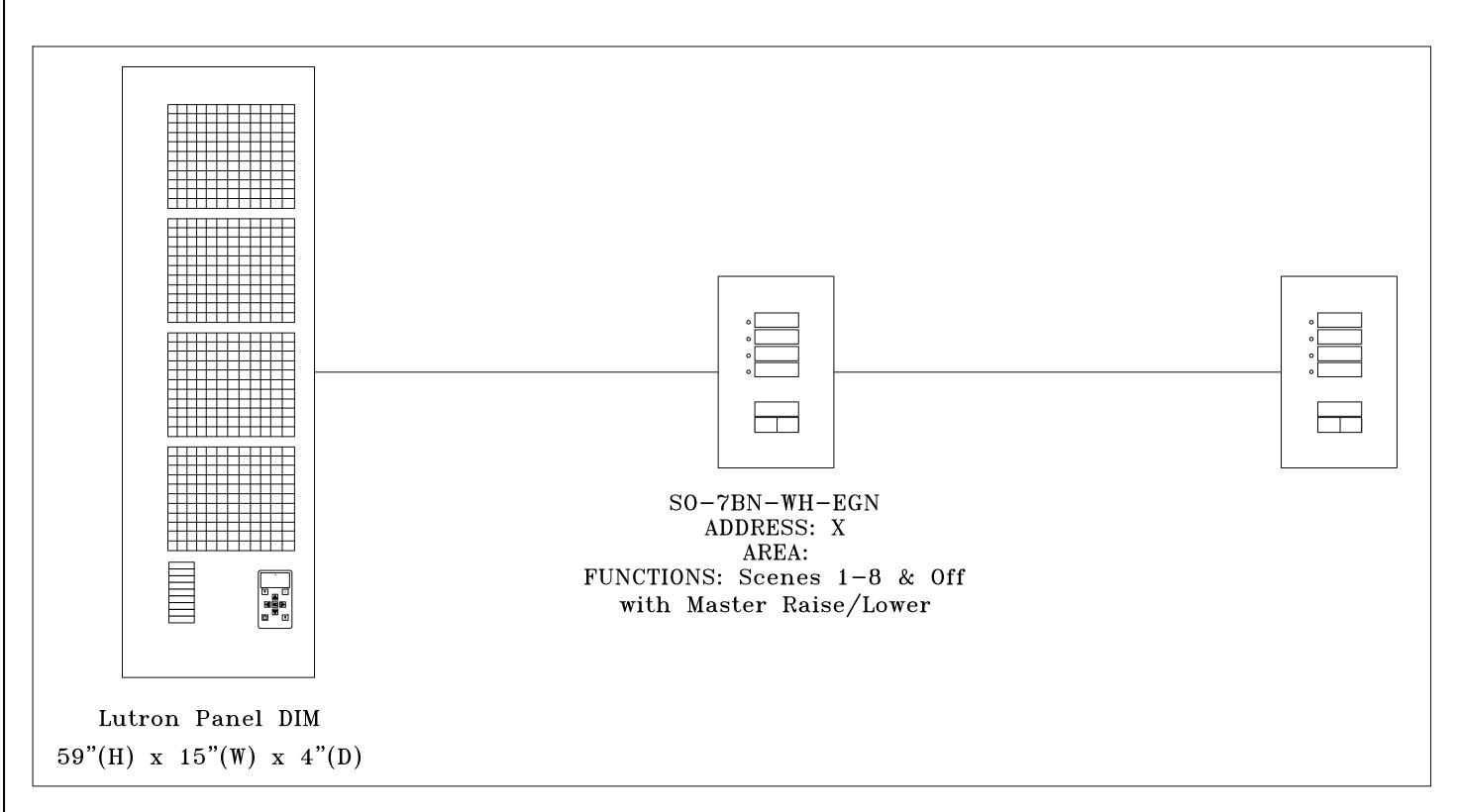
SHEET TITLE **NOTES &**

SYMBOLS PROJECT NO.: 2213 SCALE: NONE

06-04-18 DATE: HRA CHECKED: DRAWING NO.



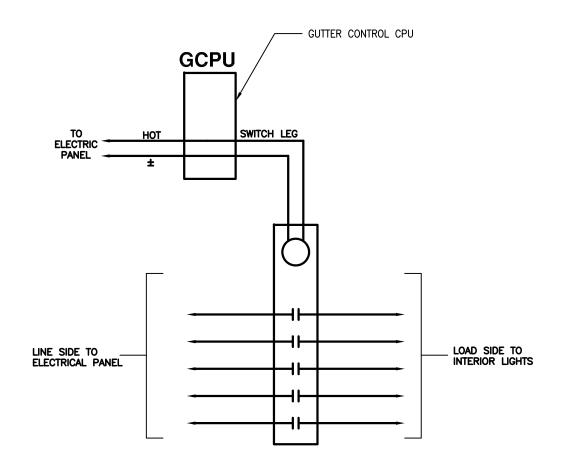
| DEVICE | FEE | DER | BRANCH CIRCU | JIT | TOTAL VOLTAGE |
|--------|--------------|----------------|------------------|-----------|---------------|
| | VOLTAGE DROP | WIRE SIZE | MAX VOLTAGE DROP | WIRE SIZE | DROP |
| С | 0% | #3CU | 1.05% (CKT 13) | #12 | 1.05% |
| MS | 0% | (2)#350kcmilCU | 2.37% (TAP 5) | #2CU | 2.37% |
| Α | 0.21% | #4/0CU | 2.11% (CKT 14) | #12 | 2.31% |
| В | 0.38% | #3CU | 0.54% (CKT 18) | #12 | 0.92% |
| S | 0.33% | #1CU | _ | _ | 0.33% |
| ЕМ | 0.63% | #8CU | 2.33% (CKT 4) | #12 | 2.97% |
| L | 0.73% | #6CU | _ | _ | 0.73% |
| DM1 | 0.8% | #12 | 0.09% (CKT 3) | #12 | 0.89% |
| DM10 | 0.77% | #12 | 0.18% (CKT 4) | #12 | 0.95% |
| DM11 | 0.83% | #12 | 0.31% (CKT 4) | #12 | 1.14% |
| DM12 | 0.79% | #12 | 0.1% (CKT 4) | #12 | 0.89% |
| DM13 | 0.82% | #12 | 0.19% (CKT 1) | #12 | 1% |
| DM14 | 0.84% | #12 | 0.43% (CKT 1) | #12 | 1.26% |
| DM15 | 0.77% | #12 | 0.07% (CKT 3) | #12 | 0.84% |
| DM16 | 0.75% | #12 | 0.09% (CKT 1) | #12 | 0.85% |
| DM17 | 0.76% | #12 | 0.06% (CKT 1) | #12 | 0.82% |
| DM18 | 0.74% | #12 | 0.05% (CKT 1) | #12 | 0.79% |
| DM19 | 0.76% | #12 | 0.16% (CKT 1) | #12 | 0.92% |
| DM2 | 0.74% | #12 | 0.01% (CKT 2) | #12 | 0.75% |
| DM3 | 0.78% | #12 | 0.07% (CKT 1) | #12 | 0.84% |
| DM4 | 0.78% | #12 | 0.08% (CKT 1) | #12 | 0.86% |
| DM5 | 0.75% | #12 | 0.06% (CKT 4) | #12 | 0.82% |
| DM6 | 0.78% | #12 | 0.06% (CKT 4) | #12 | 0.83% |
| DM7 | 0.8% | #12 | 0.1% (CKT 3) | #12 | 0.9% |
| DM8 | 0.76% | #12 | 0.16% (CKT 2) | #12 | 0.92% |
| DM9 | 0.8% | #12 | 0.23% (CKT 1) | #12 | 1.03% |
| SE | 0% | #10CU | _ | _ | 0% |



, DIMMING PANEL "DIM" DETAIL

SINGLE FAMILY ELECTRICAL NOTES:

- CONTRACTOR SHALL PERFORM ALL WORK IN CONFORMANCE WITH THE PRODUCTS, DEVICES AND EQUIPMENT AS DESCRIBED IN THE "LIGHTING & ELECTRICAL LEGEND", AND PER THESE ELECTRICAL
- CONTRACTOR SHALL BE RESPONSIBLE FOR SECURING ALL ELECTRICAL PERMITS, AND INCLUDING THE COST OF ALL NECESSARY FEES FOR SAID PERMITS IN THE BID.
- CONTRACTOR SHALL BE RESPONSIBLE FOR ASSISTING THE OWNER IN SECURING ALL ELECTRIC/POWER UTILITY APPROVALS, AND ENSURING THAT ALL WORK IS INSTALLED IN COMPLIANCE WITH THE REGULATIONS OF SAID UTILITY COMPANY. ALL UTILITY FEES SHALL BE PAID BY THE OWNER.
- BEFORE INSTALLING ANY LIGHTING FIXTURES AND OTHER ELECTRICAL DEVICES THE CONTRACTOR SHALL REVIEW ALL CONSTRUCTION DOCUMENTS, INCLUDING STRUCTURAL AND LANDSCAPE DRAWINGS TO VERIFY THAT ADEQUATE POWER AND WIRING, SPACE REQUIREMENTS AND POINTS OF CONNECTION AVAILABLE FOR ALL EQUIPMENT AND DEVICES.
- MINOR ADJUSTMENTS IN THE WORK (CHANGES TO RESOLVE PHYSICAL AND ENGINEERING CONFLICTS WHICH DO NOT AFFECT COST, SCHEDULE OR THE LOCATION OF FIXTURES AND DEVICES) MAY BE INITIATED AND APPROVED BY THE CONTRACTOR.
- MAJOR ADJUSTMENTS IN THE WORK (CHANGES TO RESOLVE PHYSICAL AND ENGINEERING CONFLICTS WHICH DO AFFECT COST, SCHEDULE OR THE LOCATION OF FIXTURES AND DEVICES) MUST BE INITIATED BY THE CONTRACTOR, AND APPROVED BY THE ARCHITECT IN WRITING PRIOR TO INSTALLATION.
- 7. ALL ELECTRICAL EQUIPMENT, DEVICES, LAMPS AND TRIM KITS SHALL BE SUPPLIED TO THE PROJECT AS SPECIFIED IN NEW, UNOPENED CONTAINERS, FREE OF DEFECTS, AND INSTALLED LEVEL, PLUMB, AND/OR IN ALIGNMENT WITH THE ADJACENT FINISHED SURFACE.
- ALL ELECTRICAL EQUIPMENT SHALL BE INSTALLED PER MFG. RECOMMENDATIONS, AND ALL COMPONENTS INCLUDING LAMPS, TRIM KITS, COVERPLATES, ETC. WILL BE LEFT CLEAN OF FINGERPRINTS, LUBRICANTS,
- 9. CONTRACTOR WILL LAY OUT AND ROUGH—IN THE LOCATION OF ALL ELECTRICAL LIGHTING FIXTURES, EQUIPMENT AND DEVICES IN THE CEILINGS, WALLS AND FLOORS, AND SHALL SCHEDULE AND CONDUCT A WALK-THROUGH FOR THE EXPLICIT PURPOSE OF SECURING THE ARCHITECT'S APPROVAL PRIOR TO BEGINNING ROUGH-IN OF WIRING.
- 10. ALL RECESSED ELECTRICAL FIXTURES IN INSULATED CEILINGS MUST BE I.C. RATED.
- CONTRACTOR SHALL VERIFY THE LOCATIONS AND ELECTRICAL REQUIREMENTS OF ALL EQUIPMENT AND APPLIANCES REQUIRED BY THIS PROJECT, AND SHALL PROVIDE COMPLETE STANDARD VOLTAGE DISCONNECTS AND OUTLETS PER CODE FOR SAID EQUIPMENT.
- 12. CONTRACTOR SHALL PROVIDE THE MAIN SERVICE, BREAKER PANEL(S), AND SUB-PANELS COMPLETE FOR THE PROJECT, AND WILL SECURE THE WRITTEN APPROVAL OF THE OWNER AND ARCHITECT FOR ALL SUB-PANEL LOCATIONS PRIOR TO INSTALLATION.
- 13. WHERE ELECTRICAL PANELS, CONDUIT AND/OR WIRING PENETRATE A FIRE-RATED ALL, CONTRACTOR SHALL PROVIDE FIRE-RESISTANCE RATED COMPONENTS AND/OR PROTECTED OPENING AS REQUIRED BY THE UNIFORM BUILDING CODE (U.B.C.), SECTION # 709.6, THE UNIFORM FIRE CODE (U.F.C.), THE N.E.C., OR PER THE LOCAL ADOPTED CODE.
- 14. CONTRACTOR SHALL PROVIDE UFER GROUNDS, PROPERLY INSTALLED, INSULATED AND GROUNDED PER CODE. WHERE REQUIRED BY THE AGENCY WITH JURISDICTION, CONTRACTOR WILL PROVIDE LIGHTNING RODS PER CODE, AND SUBMIT DRAWINGS TO THE ARCHITECT FOR REVIEW.
- 15. CONTRACTOR SHALL REVIEW AND CONFIRM THAT GENERAL PURPOSE LIGHTING IN THE KITCHEN AND ALL BATHROOMS WILL BE PROVIDED BY FIXTURES USING LED LAMPS IN COMPLIANCE WITH THE ENERGY CONSERVATION REGULATIONS OF THE CALIFORNIA STATE BUILDING CODE, "TITLE 24". VERIFY THIS REQUIREMENT AND THE FIXTURES NOTED IN THE "LIGHTING & ELECTRICAL LEGEND".
- 16. CONTRACTOR SHALL PROVIDE POWER PER CODE TO ALL LIGHTING FIXTURES AND SWITCHES, OUTLETS,
- 17. CONTRACTOR SHALL PROVIDE POWER PER CODE TO ALL INTERIOR ELECTRICAL EQUIPMENT, INCLUDING APPLIANCES, KITCHEN EXHAUST HOODS, MECHANICAL EQUIPMENT, GARAGE DOOR MOTORS, SECURITY PANEL(S), BUILT-IN VACUUM MOTORS, ELEVATOR EQUIPMENT, ETC.
- 18. CONTRACTOR SHALL PROVIDE POWER PER CODE TO ALL EXTERIOR ELECTRICAL EQUIPMENT, INCLUDING MECHANICAL EQUIPMENT, POOL EQUIPMENT, TENNIS COURT LIGHTING, FOUNTAINS, SECURITY GATES, IRRIGATION CONTROLS, LANDSCAPE LIGHTING, ETC. FINAL CONNECTIONS TO ALL EQUIPMENT SHALL BE BY RESPECTIVE CONTRACTOR FOR THAT TRADE OR EQUIPMENT.
- 19. CONTRACTOR SHALL PROVIDE "FLEX" CONDUIT PER CODE FOR ALL ELECTRICAL WIRING THROUGHOUT THE PROJECT'S BUILDING, AND PVC OR SIMILAR EXTERIOR-RATED CONDUIT PER CODE FOR ALL EXTERIOR WIRING. IF ROMEX IS APPROVED FOR USE AS INTERIOR WIRING BUY LOCAL JURISDICTION, APPROVAL FOR ITS USE SHALL BE OBTAINED FROM THE GC/OWNER.
- 20. ELECTRICAL CONTRACTOR SHALL SUPPLY AND INSTALL ALL WIRING FOR SECURITY LIGHTING, PHOTO CELLS, ENTRY GATE MOTORS.
- 21. ELECTRICAL CONTRACTOR SHALL PROVIDE WATER PROOF/WEATHER RESISTANCE FIXTURES (AS CERTIFIED BY U.L. OR OTHER CODE- ACCEPTED TESTING AGENCY) IN OR NEAR ALL BATH TUBS AND SHOWERS AND AT ALL EXTERIOR LOCATIONS. ALL FIXTURES SHALL BE INSTALLED PER CODE AND MANUFACTURER'S INSTRUCTIONS.
- ELECTRICAL CONTRACTOR SHALL PROVIDE GROUND FAULT CIRCUIT INTERRUPTER (G.F.C.I.) OUTLETS IN THE KITCHEN, BATHROOMS, AND OTHER APPLICABLE ROOMS AND AREAS AS PER CODE.
- 23. ELECTRICAL CONTRACTOR SHALL USE A SINGLE COVER PLATE TO COVER MULTIPLE SWITCHES AND DIMMERS WHEREVER MULTIPLE CONTROLS ARE INDICATED ON THE LIGHTING DESIGN PLANS.
- 24. ELECTRICAL CONTRACTOR SHALL INSTALL ALL WALL-MOUNTED FIXTURES. SEE INTERIOR ELEVATIONS FOR
- 25. ELECTRICAL CONTRACTOR SHALL VERIFY WEIGHT OF ALL LIGHTING FIXTURES, AND PROVIDE ADEQUATE SUPPORT FOR EACH FIXTURE AT ALL J-BOXES AS REQUIRED. IF ADDITIONAL BACKING OR BLOCKING IS REQUIRED TO SECURELY ANCHOR A J- BOX IT WILL BE PROVIDED BY THE CONTRACTOR WHERE DIRECTED BY THE ELECTRICAL CONTRACTOR.
- 26. CONTRACTOR SHALL COORDINATE WITH OWNER THE LOCATION OF ALL EAVE OUTLETS FOR CHRISTMAS



GUTTER CONTROL SCHEMATIC

SINGLE LINE DIAGRAM NOTES:

- 1. ALL WORK SHALL BE PERFORMED PER 2014 NATIONAL ELECTRICAL CODE.
- 2. ALL ELECTRICAL EQUIPMENT AND SWITCHBOARDS SHALL BE FULLY RATED.
- 3. ALL ELECTRICAL EQUIPMENT AND SWITCHBOARDS SHALL BE SERIES RATED.
- 4. PROVIDE A CAUTIONARY LABEL TO THE SERIES RATED DEVICE COVER STATING CAUTION-SERIES COMBINATION SYSTEM RATED _____A. IDENTIFIED REPLACEMENT COMPONENTS REQUIRED".
- 5. ALL ELECTRICAL EQUIPMENT, SWITCHBOARDS, ETC. TO WITHSTAND AVAILABLE FAULT CURRENT. VERIFY WITH SERVING UTILITY COMPANY.
- 6. ELECTRICAL EQUIPMENT SHALL BE LISTED BY A CITY OF LOS ANGELES RECOGNIZED ELECTRICAL TESTING LABORATORY OR UL.
- 7. PROVIDE SEISMIC BRACING FOR ALL SERVICE EQUIPMENT, SWITCHBOARDS AND OTHER FLOOR STANDING EQUIPMENT BY INSTALLING APPROVED ANCHORS TO THE BUILDING STRUCTURE FROM EACH EQUIPMENT ENCLOSURE.
- 8. FURNISH ELECTRICAL EQUIPMENT OF THE SAME TYPE OR CLASS FROM ONE MANUFACTURER.
- 9. EQUIP ALL DISTRIBUTION FUSIBLE SWITCHES WITH REJECTION TYPE FUSE CLIPS FOR USE WITH CURRENT LIMITING, U.L. CLASS "R" FUSES.
- 10. PROVIDE FUSES FROM ONE MANUFACTURER OF THE FOLLOWING TYPES:
- A. "RK-1" U.L. CLASS "RK-1" CURRENT LIMITING FUSES, "BUSSMANN" LOW-PEAK TYPE LPN-RK_SP. B. "RK5" - U.L. CLASS "RK5" CURRENT LIMITING, DUAL ELEMENT FUSES, "BUSSMANN" LOW-PEAK TYPE LPN-RK_SP.
- 11. ALL CONDUCTORS SHALL BE COPPER WITH TYPE "THWN/THHN" INSULATION RATED FOR 600 VOLTS.
- 12. FEEDER LENGTHS NOTED ON DRAWINGS ARE FOR VOLTAGE DROP AND SHORT CIRCUIT CALCULATIONS ONLY AND ARE NOT TO BE USED FOR ESTIMATE OR MATERIAL
- 13. NO PIPING, DUCTS OR EQUIPMENT FOREIGN TO ELECTRICAL EQUIPMENT SHALL BE PERMITTED TO BE LOCATED WITHIN THE DEDICATED SPACE.
- 14. ALL TERMINALS/LUGS SHALL BE DUAL RATED 60°/75° C.
- 15. THE ELECTRICAL ROOM DOOR SHALL OPEN OUTWARD AND SHALL BE EQUIPPED WITH PANIC HARDWARE.
- 16. THE GROUNDING CONDUCTOR SHALL BE CONNECTED TO WATER PIPE (GROUNDING ELECTRODE) WITHIN 5' FROM THE POINT OF ENTRANCE INTO THE BUILDING.
- 17. PROVIDE SEISMIC ANCHORING AND BRACING FOR MAIN SWITCHBOARD AND ALL STANDING SECTIONS.
- 18. ELEVATOR CIRCUIT BREAKER SHALL BE EQUIPPED W/ SHUNT TRIP (SIEMENS C/B TYPE FXD6 OR EQ.)
- 19. INSTALL A 1" CONDUIT FROM THE MAIN SWITCHBOARD TO THE ROOF AND TERMINATE IN A 12"X12"X6" NEMA 3R BOX FOR FUTURE SOLAR. "THE CONDUIT FOR THE FUTURE ELECTRICAL SOLAR SYSTEM SHALL BE LABELED AS PER LOS ANGELES FIRE DEPARTMENT REQUIREMENTS"
- 20. CIRCUIT BREAKERS USED AS SWITCHES IN 120 AND 277 VOLT FLUORESCENT LIGHTING CIRCUITS SHALL BE LISTED AND MARKED AS "SWD" OR "HID".
- 21. PROVIDE A LABEL STATING "EV CAPABLE" IS A CONSPICUOUS PLACE AT THE SERVICE PANEL OR SUBPANEL AND NEXT TO THE RACEWAY TERMINATION POINT.
- 22. CONDUCTORS OF A MULTI-WIRE BRANCH CIRCUIT SHALL CONSPICUOUS ORIGINATE FROM THE SAME PANELBOARD. THE BRANCH CIRCUIT SHALL BE PROVIDED WITH A MEANS THAT WILL SIMULTANEOUSLY DISCONNECT ALL UNGROUNDED CONDUCTORS AT THE POINT WHERE THE BRANCH CIRCUIT ORIGINATES (210.4, 240.15(B)(1))
- 23. ANY CONDUIT RUN OR MULTICONDUCTOR CABLE LEAVING THE CLASS I, DIVISION 1 OR CLASS I, DIVISION 2 LOCATION SHALL BE PROVIDED WITH A CONDUIT OR CABLE SEAL. THE CABLE SHALL BE INCAPABLE OF TRANSMITTING GASSES OR VAPORS THROUGH THE CABLE CORE. THE SEAL SHALL BE INSTALLED ON EITHER SIDE WITHIN 10 FEET OF THE SPECIFIED HAZARDOUS AREA BOUNDARY, UNLESS SHORTER DISTANCE IS REQUIRED BY METHANE STANDARD. (501.15(A)(4),(B)(2),(D)(3))
- 24. EACH ELECTRICAL SERVICE SHALL HAVE PERMANENTLY INSTALLED USER-ACCESSIBLE METERING OF TOTAL ELECTRICAL ENERGY USE PER TABLE 130.5(A)

3/0

250 MCM

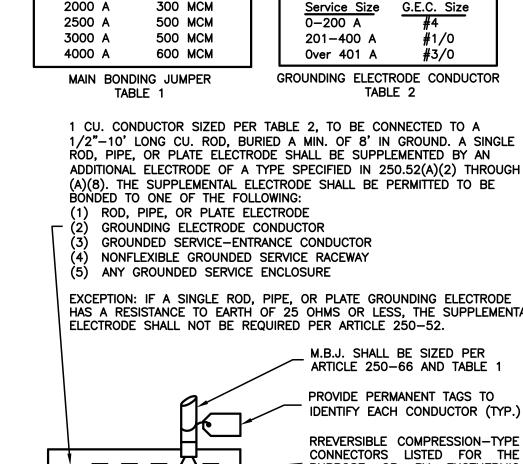
4/0

SERVIICE SIZE

0-1000 A 1200 A

1600 A

25. ALL SWITCHBOARD EQUIPMENT AND CIRCUIT BREAKERS GREATER THAN 400A SHALL BE RATED FOR 100%.



1 CU. CONDUCTOR SIZED PER

TABLE 2, TO EFFECTIVELY

GROUND THE METAL FRAME

HAS A RESISTANCE TO EARTH OF 25 OHMS OR LESS, THE SUPPLEMENTAL ELECTRODE SHALL NOT BE REQUIRED PER ARTICLE 250-52. M.B.J. SHALL BE SIZED PER ARTICLE 250-66 AND TABLE 1 PROVIDE PERMANENT TAGS TO IDENTIFY EACH CONDUCTOR (TYP.) RREVERSIBLE COMPRESSION-TYPE CONNECTORS LISTED FOR THE PURPOSE OR BY EXOTHERMIC WELDING PROCESS (TYP.) , 1#6 CU. TO MAIN TELEPHONE BACKBOARD 3/4"C. 1 CONDUCTOR SIZED PER TABLE 2, TO COLD WATER PIPE WITHIN THE FIRST FIVE FEET OF COLD

ALL AROUND PER ARTICLE OF THE BUILDING PER ARTICLE 250-52(A2)(OPTIONAL). 250-52(A3)(OPTIONAL). GROUNDING DETAIL A GROUN
SCALE: NONE

WATER PIPE ENTRANCE INTO THE

BUILDING PER ARTICLE 250-52 (A1).

20 FEET OF BARE CU CONDUCTOR

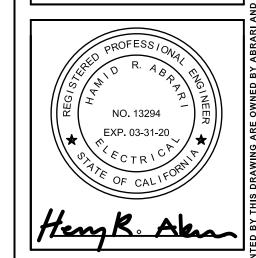
SIZED PER TABLE 2, ENCASED N

MIN. TWO INCHES OF CONCRETE



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> \pm \circ 3 ∞ Z R MOI AST CO ₹ Ⅲ POWI 8645



SHEET TITLE

SINGLE LINE **DIAGRAM &** LOAD CALCS.

PROJECT NO.: 2213 SCALE: **AS SHOWN** DATE: 06-04-18 VA HRA CHECKED: DRAWING NO.

| | A | | | | | | | | | | | | | | |
|---------|-----------------------------------|--|--|--|---------------------------------------|--|--|------------------------------------|--|---|---|------------|---|----------------------|---------|
| | | ITING FL FROM MS | | | BUS AM | 240/120 IPS 225 L 100% | | w | | MAIN | 22,000 BKR MLO STANDARD | | | | |
| | CKT # | CKT BKR | CIRCUIT DESC | CRIPTION | | LOAD A | KVA B | CKT # | CKT BKR | CIRCUIT DESC | RIPTION | | LOAD A | KVA B | |
| | 1 3 5 7 9 11 13 | 20/1 20/1 20/1 20/1 20/1 20/1 20/1 | FREEZER REC., SHADE DINING REC., DINING PATIO REC., SHADE LIVING ROOM KID'S ROOM F | SHADE WIND REC. WINDOW REC., SHADE FAN, REC. | | 1.50 1.31 0.95 0.95 | 0.77 0.54 0.95 | 2 4 6 8 10 12 14 | 20/1 20/1 20/1 20/1 20/1 20/1 20/1 | FOYER FAN, BATHROOM R GARAGE REC. HOOD FAN DISHWASHER GD FAN, REC., S | EC. | v | 1.15 0.54 1.20 1.46 | 0.18 0.80 0.87 | 1 1 1 1 |
| 1 1 1 1 | 15 17 19 21 23 25 | 20/1 20/1 20/1 20/1 20/1 20/1 | GUEST ROOM BOOT WARME SD SC, SMOK SITE REC. SITE REC. MA. BATHROO | R REC. Œ DETECTOR | | 0.36 0.72 0.18 | 1.130.010.72 | 16 18 20 22 24 26 | 20/1 20/1 20/1 20/1 20/1 20/1 | MA. BATHROO BATHROOM R GUEST ROOM FAN, REC. UNFINISHED E LAUNDRY, RE | EC. REC. BASEMENT RE C. | C. | 0.54 1.31 1.68 | 0.72 | 1 1 |
| 1 | 27 29 31 33 35 37 | 20/1 20/1 -/1 -/1 -/1 -/1 | W.H. UNFINISHED E SPACE SPACE SPACE SPACE SPACE | BASEMENT RE | CC. | 0.90 | 0.04 0.00 0.00 | 28 30 32 34 36 38 | 20/1 -/1 -/1 -/1 -/1 | JACUZZI DECI SPACE SPACE SPACE SPACE SPACE | K REC. | | 0.00 0.00 0.00 | 0.36 0.00 0.00 | 1 |
| | 39 41 | -/1 -/1 | SPACE SPACE | | | 0.00 | 0.00 | 40 42 | -/1 -/1 | SPACE SPACE | | | 0.00 | 0.00 | |
| | | | | | | | | | | TOTAL CO | NNECTED KV | A BY PHASE | 14.75 | 8.71 | |
| | | | | | | | | | | TOTAL CON | | S BY PHASE | 122.92 | 72.55 | |
| | | LAR(OTHE RECE | TING GEST MOTOR ER MOTORS EPTACLES HEN EQUIP | 0.01 0.05 0.55 22.85 0.00 | 0.01 0.06 0.55 16.43 0.00 | (125%) (125%) (100%) (50%>10 (N/A) |) | | HEA COO NON DIVE MET TOT | ITINUOUS ITING DLING ICONTINUOUS ERSE ERED DEMAND AL KVA ANCED AMPS | 0.00 0.00 0.00 0.00 0.00 0.00 0.00 23.46 | 0.00 | (125%) (N/A) (N/A) (100%) (N/A) (125%) | | |

| | _ | | | | | |
|---|---------|---------|-------|----|------|------|
| 1 | CIRCUIT | BREAKER | SHALL | ΒE | AFCI | RATE |

| | NTING FL FROM E | | | BUS AM | 240/120 IPS 60 L 100% | | W | | MAIN | 22,000 BKR MLO STANDARD | | | | |
|---|--|--|--|-----------------------------------|--|--|--|--|---|--|--------------------------------------|--|---|---|
| CKT # | CKT BKR | CIRCUIT DESC | CRIPTION | | LOAD A | KVA B | CKT # | CKT BKR | CIRCUIT DESC | CRIPTION | | LOAD A | KVA B | } |
| 1 3 5 7 9 11 13 15 17 19 21 23 25 27 29 31 33 35 | 20/1 20/1 20/1 20/1 20/1 20/1 20/1 20/1 | PANEL DM1 PANEL DM2 PANEL DM3 PANEL DM4 PANEL DM5 PANEL DM6 PANEL DM7 PANEL DM8 PANEL DM9 PANEL DM10 SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE | | | 0.23 0.15 0.07 0.23 0.23 0.00 0.00 0.00 | 0.04 0.17 0.16 0.10 0.13 0.00 0.00 0.00 | 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 32 34 36 | 20/1 20/1 20/1 20/1 20/1 20/1 20/1 20/1 | PANEL DM11 PANEL DM12 PANEL DM13 PANEL DM15 PANEL DM16 PANEL DM17 PANEL DM18 PANEL DM19 SPACE | | | 0.32 0.27 0.12 0.08 0.09 0.00 0.00 0.00 | 0.19 0.33 0.07 0.03 0.00 0.00 0.00 0.00 | |
| 37 39 | -/1 -/1 | SPACE SPACE | | | 0.00 | 0.00 | 38 40 | -/1 -/1 | SPACE SPACE | | | 0.00 | 0.00 | |
| | | | | | <u> </u> | | | | | | A BY PHASE | 1.78 | 1.21 | - |
| | LAR OTH REC KITO | EPTACLES CHEN EQUIP | CONN KVA 2.98 0.00 0.00 0.00 0.00 | CALC KVA 3.73 0.00 0.00 0.00 0.00 | (125%) (N/A) (100%) (50%>10 (N/A) |)) | | HEA COC NON DIVE | ITINUOUS ITING DLING ICONTINUOUS ERSE | CONN KVA 0.00 0.00 0.00 0.00 0.00 | 0.00 0.00 0.00 0.00 0.00 | (125%) (N/A) (N/A) (100%) (N/A) | 10.05 | |
| | SIKCUI | T BREAKER | . SMALL E | BE AFCI F | RATED | | | тот | ERED DEMAND AL KVA ANCED AMPS | 2.98 | 0.00 3.73 15.54 | (125%) | | |

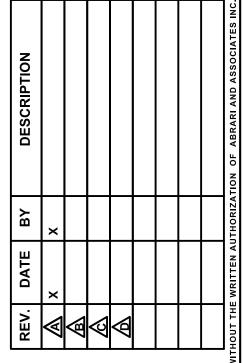
| SE | | | | | | | | | | | | | |
|-----|--------------------|----------------|----------|----------|-----------------------------|---------|----------|------|----------------------|-------------------------------|---------------|--------|-------|
| | NTING FL FROM U | LUSH TILITY | | BUS AM | 240/120 IPS 30 L 100% |)V 2P 3 | W | | MAIN | 22,000 BKR MLO STANDARD | | | |
| CKT | CKT | | | | LOAD | KVA | СКТ | CKT | | | | LOAD | KVA |
| # | BKR | CIRCUIT DES | CRIPTION | | Α | В | # | BKR | CIRCUIT DESC | RIPTION | | Α | В |
| 1 | 20/2 | SE-1 | | | 0.96 | | 2 | 20/2 | SE-2 | | | 0.96 | |
| 3 | | | | | | 0.96 | 4 | 1 | | | | | 0.96 |
| | | | | | | | | | TOTAL CO | NNECTED KV | 'A BY PHASE | 1.92 | 1.92 |
| | | | | | | | | | TOTAL CON | NECTED AMP | S BY PHASE | 16.00 | 16.00 |
| | | | CONN KVA | CALC KVA | • | | | | | CONN KVA | CALC KVA | | |
| | LIGH | ITING | 0.00 | 0.00 | (125%) | | | CON | ITINUOUS | 0.00 | 0.00 | (125%) | |
| | LAR | GEST MOTOR | 1.92 | 2.40 | (125%) | | | HEA | TING | 0.00 | 0.00 | (N/A) | |
| | ОТН | ER MOTORS | 1.92 | 1.92 | (100%) | | | COC | LING | 0.00 | 0.00 | (N/A) | |
| | REC | EPTACLES | 0.00 | 0.00 | (50%>10 |)) | | NON | ICONTINUOUS | 0.00 | 0.00 | (100%) | |
| | KITO | HEN EQUIP | 0.00 | 0.00 | (N/A) | | | DIVE | ERSE | 0.00 | 0.00 | (N/A) | |
| | | | | | | | | MET | ERED DEMAND | 0.00 | 0.00 | (125%) | |
| | | | | | | | | | AL KVA ANCED AMPS | 3.84 | 4.32 18.00 | | |

| B | | | | | | | | | | | | | |
|----------|--------------------|--------------|----------|----------|-------------------------------|------|--------------|-------------|----------------------|-------------------------------|---------------|--------------------------|----------|
| 1 | NTING FL FROM M | | | BUS AN | 240/120 MPS 125 NL 100% | | W | | MAIN | 22,000 BKR MLO STANDARD | | | |
| СКТ | CKT | | | | LOAD | KVA | СКТ | CKT | | | | LOAD | KVA |
| # | BKR | CIRCUIT DESC | CRIPTION | | Α | В | # | BKR | CIRCUIT DESC | RIPTION | | Α | В |
| 1 | 20/2 | FC-1 | | | 0.30 | 1 | 2 | 20/2 | FC-6 | | | 0.30 | |
| 3 5 | 20/2 | FC-2 | | | 0.40 | 0.30 | 4 6 | 20/2 | FC-7 | | | 0.30 | 0.30 |
| 7 | | | | | | 0.40 | 8 | | | | | | 0.30 |
| 9 | 20/2 | FC-3 | | | 0.30 | 0.30 | 10 | 20/2 | HRU-1 | | | 0.25 | 0.25 |
| 11 | 1 20/2 | FC-4 | | | 0.30 | 0.30 | 12 14 | 20/2 | HRU-2 | | | 0.03 | 0.25 |
| 15 | 1 | ' ' | | | 0.00 | 0.30 | 16 | 1 | "" | | | 0.00 | 0.03 |
| 17 | 20/2 | FC-5 | | | 0.43 | 1 | 18 | 20/1 | EF-6 | | | 0.42 | |
| 19 | 1 | | | | Ţ | 0.43 | 20 | 20/1 | EF-4 | | | | 0.50 |
| 21 | 20/2 | CU | | | 1.06 | | 22 | -/1 | SPACE | | | 0.00 | |
| 23 25 | -/1 | SPACE | | | 0.00 | 1.06 | 24 26 | -/1 -/1 | SPACE SPACE | | | 0.00 | 0.00 |
| 27 | 20/2 | FC | | | 0.00 | 0.15 | 28 | -/1 | SPACE | | | 0.00 | 0.00 |
| 29 | | ' | | | 0.15 | 0.10 | 30 | -/ 1 | SPACE | | | 0.00 | 0.00 |
| | | | | | | | | | TOTAL CC | NNECTED KV | 'A BY PHASE | 4.23 | 4.31 |
| | | | | | 1 | | | | TOTAL CON | NECTED AMP | S BY PHASE | 35.21 | 35.88 |
| | | | CONN KVA | CALC KVA | | ļ | | | | CONN KVA | CALC KVA | | <u> </u> |
| | LIGH | ITING | 0.00 | 0.00 | (125%) | | | CON | ITINUOUS | 0.00 | 0.00 | (125%) | |
| | | GEST MOTOR | 2.11 | 2.64 | (125%) | | | | TING | 0.00 | 0.00 | (N/A) | |
| | | ER MOTORS | 6.42 | 6.42 | (100%) | | | | LING | 0.00 | 0.00 | (N/A) | |
| | | EPTACLES | 0.00 | 0.00 | (50%>10 |)) | | | ICONTINUOUS | 0.00 | 0.00 | (100%) | |
| | KIIC | CHEN EQUIP | 0.00 | 0.00 | (N/A) | | | | ERSE ERED DEMAND | 0.00 | 0.00 0.00 | (N/A) (125 %) | |
| | | | | | | | | | AL KVA ANCED AMPS | 8.53 | 9.06 37.74 | | |

| EN | / | | | | | | | | | | | | |
|-------------------------------|------------|------------------|----------|----------|-----------------------------|---------|--------------|-------------|--------------|-------------------------------|------------|--------------|-------|
| ROOM MOUN FED I NOTE | | USH | | BUS AM | 240/120 IPS 50 L 100% | OV 2P 3 | SW . | | MAIN | 22,000 BKR MLO STANDARD | | | |
| СКТ | CKT | | | | LOAD | KVA | СКТ | CKT | | | | LOAD | KVA |
| # | BKR | CIRCUIT DESC | CRIPTION | | Α | В | # | BKR | CIRCUIT DESC | RIPTION | | Α | В |
| 1 1 | 20/1 | REFRIGERATO | R | | 1.50 |] | 2 | 20/1 | GARAGE DOO | R OPENER | | 0.86 | |
| 3 | 20/1 | MICROWAVE | | | | 1.50 | 4 | 20/1 | OFFICE REC., | SHADE WIND | OW | | 1.36 |
| 5 | -/1 | SPACE | | | 0.00 | | 6 | 20/1 | OFFICE REC. | | | 0.36 | |
| 7 | 20/1 | FAMILY RM. SPACE | IV REC. | | 1 000 | 0.36 | 8 | 20/1 | KITCHEN REC | | | 0.76 | 0.38 |
| 9 | -/1 -/1 | SPACE | | | 0.00 | 0.00 | 10 12 | 20/1 -/1 | KITCHEN REC | • | | 0.36 | 0.00 |
| 13 | -/1 | SPACE | | | 0.00 | 0.00 | 14 | -/1 | SPACE | | | 0.00 | 0.00 |
| 15 | -/1 | SPACE | | | 5.55 | 0.00 | 16 | -/1 | SPACE | | | 5.55 | 0.00 |
| 17 | -/1 | SPACE | | | 0.00 | | 18 | -/1 | SPACE | | | 0.00 | |
| 19 | -/1 | SPACE | | |] | 0.00 | 20 | -/1 | SPACE | | | | 0.00 |
| 21 | -/1 | SPACE | | | 0.00 | | 22 | -/1 | SPACE | | | 0.00 | |
| 23 | -/1 | SPACE | | | 1 . 70 | 0.00 | 24 | -/1 | SPACE | | | | 0.00 |
| 25 27 | 60/2 | PANEL L | | | 1.78 | 1.21 | 26 28 | -/1 /1 | SPACE SPACE | | | 0.00 | 0.00 |
| 29 | -/1 | SPACE | | | 0.00 | 1.21 | 30 | -/1 -/1 | SPACE | | | 0.00 | 0.00 |
| 20 | / . | 31 NOL | | | + 0.00 | | | | ! | | | | 1.01 |
| | | | | | | | | | | | A BY PHASE | 4.86 | 4.81 |
| | | | | | | | | | TOTAL CON | INECTED AMP | S BY PHASE | 40.53 | 40.05 |
| | | | CONN KVA | CALC KVA | | | | | | CONN KVA | CALC KVA | | |
| | LIGH | TING | 2.98 | 3.73 | (125%) | | | CON | ITINUOUS | 1.50 | 1.88 | (125%) | |
| | LAR | GEST MOTOR | 0.86 | 1.08 | (125%) | | | HEA | ATING | 0.00 | 0.00 | (N/A) | |
| | | ER MOTORS | 0.10 | 0.10 | (100%) | | | | DLING | 0.00 | 0.00 | (N/A) | |
| | | EPTACLES | 4.22 | 4.22 | (50%>10 |)) | | | ICONTINUOUS | 0.00 | 0.00 | (100%) | |
| | KITC | HEN EQUIP | 0.00 | 0.00 | (N/A) | | | | ERSE | 0.00 | 0.00 | (N/A) | |
| | | | | | | | | MET | ERED DEMAND | 0.00 | 0.00 | (125%) | |
| 1 | | | | | | | | | AL KVA | 9.67 | 11.01 | | |
| | | | | | | | | BAL | ANCED AMPS | | 45.86 | | |

| | ITING FL FROM U | | | BUS AM | 240/120 MPS 125 NL 100% | | 3W | | MAIN | 22,000 BKR MLO STANDARD | | | |
|----------------|----------------------|--|---------------------------------------|---------------------------------------|--|----------|----------------|----------------------------------|--|--|--|---|----------|
| CKT # | CKT BKR | CIRCUIT DESC | CRIPTION | | LOAD | KVA B | CKT # | CKT BKR | CIRCUIT DESC | RIPTION | | LOAD | KVA B |
| 1 3 5 | 20/2 30/2 | RECEPTACLE GUTTER MEL | | | 0.27 | 0.27 | 2 4 6 | 30/2 30/2 | GUTTER MELT | • | | 1.08 | 1.08 |
| 7 9 11 | 20/1 20/1 | PUMP-UPS15 | 5-58FC | | 0.70 | 1.08 | 8 10 12 | | GUTTER MELT | | | 1.08 | 1.08 |
| 13 15 17 | 20/1 20/1 20/1 | BOILER CONTROLS & BOILERS | | | 1.80 | 0.00 | 14 16 18 | 30/2 -/1 | GUTTER MELT | • | | 1.08 | 1.08 |
| 19 21 23 | -/1 -/1 -/1 | SPACE SPACE SPACE | | | 0.00 | 0.00 | 20 22 24 | -/1 -/1 -/1 | SPACE SPACE SPACE | | | 0.00 | 0.00 |
| 25 27 29 | -/1 -/1 -/1 | SPACE SPACE SPACE | | | 0.00 | 0.00 | 26 28 30 | -/1 -/1 -/1 | SPACE SPACE SPACE | | | 0.00 | 0.00 |
| 23 | | OF AGE | | | 0.00 | | | /' | <u> </u> | NNECTED KV | A BY PHASE | 8.17 | 6.47 |
| | | | | | | | | | TOTAL CON | | S BY PHASE | 68.08 | 53.92 |
| | LAR OTH REC | HTING GEST MOTOR ER MOTORS EPTACLES CHEN EQUIP | 0.00 2.16 11.94 0.54 0.00 | 0.00 2.70 11.94 0.54 0.00 | (125%) (125%) (100%) (50%>10 (N/A) |)) | | HEA COC NON DIVE MET | ITINUOUS .TING DLING ICONTINUOUS ERSE ERED DEMAND AL KVA | 0.00 0.00 0.00 0.00 0.00 0.00 0.00 | 0.00 0.00 0.00 0.00 0.00 0.00 0.00 | (125%) (N/A) (N/A) (100%) (N/A) (125%) | |

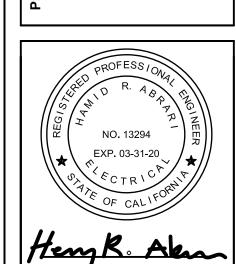
| S | | | | | | | | | | | | | |
|---------------------|--------------------------|--|--------------------------------------|--------------------------------------|--|--------------|----------------------|----------------------------------|---|--|---|---|-------|
| | I ITING FL FROM M | | | BUS AM | 240/120 IPS 125 L 100% | | 5W | | MAIN | 22,000 BKR MLO STANDARD | | | |
| скт | CKT | | | | LOAD | KVA | СКТ | CKT | | | | LOAD | KVA |
| # | BKR | CIRCUIT DESC | CRIPTION | | Α | В | # | BKR | CIRCUIT DESC | RIPTION | | Α | В |
| 1 3 5 7 | 50/2 -/1 -/1 | PANEL EM SPACE SPACE | | | 4.86 0.00 | 4.81 0.00 | 2 4 6 8 | -/1 -/1 -/1 -/1 | SPACE SPACE SPACE SPACE | | | 0.00 | 0.00 |
| 9 11 13 15 | -/1 -/1 -/1 -/1 | SPACE SPACE SPACE SPACE | | | 0.00 | 0.00 | 10 12 14 16 | -/1 -/1 -/1 -/1 | SPACE SPACE SPACE SPACE | | | 0.00 | 0.00 |
| 17 19 21 | -/1 -/1 -/1 | SPACE SPACE SPACE | | | 0.00 | 0.00 | 18 20 22 | -/1 -/1 -/1 | SPACE SPACE SPACE | | | 0.00 | 0.00 |
| 23 25 27 | -/1 -/1 -/1 | SPACE SPACE SPACE | | | 0.00 | 0.00 | 24 26 28 | -/1 -/1 -/1 | SPACE SPACE SPACE | | | 0.00 | 0.00 |
| 29 | -/1 | SPACE | | | 0.00 | | 30 | -/1 | SPACE | | | 0.00 | |
| | | | | | | | | | TOTAL CO | NNECTED KV | 'A BY PHASE | 4.86 | 4.81 |
| | | | | | | | | | TOTAL CON | NECTED AMP | S BY PHASE | 40.53 | 40.05 |
| | | | CONN KVA | CALC KVA | | | | | | CONN KVA | CALC KVA | | |
| | LAR OTH REC | ITING GEST MOTOR ER MOTORS EPTACLES CHEN EQUIP | 2.98 0.86 0.10 4.22 0.00 | 3.73 1.08 0.10 4.22 0.00 | (125%) (125%) (100%) (50%>10 (N/A) |)) | | HEA COO NON DIVE MET | NTINUOUS ATING DLING NCONTINUOUS ERSE IERED DEMAND | 1.50 0.00 0.00 0.00 0.00 0.00 9.67 | 1.88 0.00 0.00 0.00 0.00 0.00 11.01 | (125%) (N/A) (N/A) (100%) (N/A) (125%) | |
| | | | | | | | | | AL KVA ANCED AMPS | 3.0/ | 45.86 | | |





> POWDER MOUNTAIN HOUSE 8645 EAST COPPER CREST, EDEN. UT 84310

ROJECT



SHEET TITLE

PANEL SCHEDULES

| PROJECT NO.: | 2213 |
|--------------|----------|
| SCALE: | NONE |
| DATE: | 06-04-18 |
| BY: | VA |
| CHECKED: | HRA |
| DRAWING NO. | |

| DN | M1 | | | | | | | | | | | | |
|----------|--------------------|--|--------------------------------------|--------------------------------------|---|------------------|----------|---------------------------|--|--|--|---|------------------|
| | NTING FL FROM L | USH | | BUS A | 120V 1P MPS 60 AL 100% | | | | MAIN | 22,000 BKR MLO STANDARD | | | |
| CKT # | CKT BKR | CIRCUIT DESC | CRIPTION | | | LOAD KVA A | CKT # | CKT BKR | CIRCUIT DESC | RIPTION | | | LOAD KVA A |
| 1 | -/1 -/1 | BATHROOM L GUEST ROOM | | | | 0.12 0.07 | 2 4 | -/1 -/1 | BATHROOM L' BATHROOM L' | | | | 0.03 0.02 |
| | | | | | | | | | TO | OTAL CONNEC | CTED KVA BY | PHASE | 0.23 |
| | | | | | | | | | TOT | TAL CONNECT | ED AMPS BY | PHASE | 1.92 |
| | | | CONN KVA | CALC KVA | _ | | | | | CONN KVA | CALC KVA | | |
| | LAR OTH REC | TING GEST MOTOR ER MOTORS EPTACLES HEN EQUIP | 0.23 0.00 0.00 0.00 0.00 | 0.29 0.00 0.00 0.00 0.00 | (125%) (N/A) (100%) (50%>10 (N/A) |)) | | HEA COC NON DIVE | ITINUOUS .TING DLING ICONTINUOUS ERSE ERED DEMAND | 0.00 0.00 0.00 0.00 0.00 0.00 | 0.00 0.00 0.00 0.00 0.00 0.00 | (125%) (N/A) (N/A) (100%) (N/A) (125%) | |
| | | | | | | | | | AL KVA AL AMPS | 0.23 | 0.29 2.40 | | |

| | ITING FL FROM L | .USH | | BUS A | 120V 1P MPS 60 AL 100% | 2W | | | MAIN | 22,000 BKR MLO STANDARD | | | |
|-----|--------------------|--------------------------|----------|----------|------------------------------|--------------|----------|------------|--------------|-------------------------------|------------|----------------------|----------|
| CKT | CKT BKR | CIRCUIT DES | CRIPTION | | | LOAD KVA | CKT # | CKT BKR | CIRCUIT DESC | CRIPTION | | | LO K\ |
| 1 3 | -/1 -/1 | BATHROOM L KID'S ROOM | | | | 0.07 0.05 | 2 4 | -/1 -/1 | BATHROOM L | | | | 0. 0. |
| | | | | | | | | | TO | OTAL CONNEC | CTED KVA B | Y PHASE | 0. |
| | | | | | | | | | TO | TAL CONNECT | ED AMPS B | Y PHASE | 1.3 |
| | | | CONN KVA | CALC KVA | | | | | | CONN KVA | CALC KVA | | |
| | LIGH | ITING | 0.17 | 0.21 | - (125 %) | | | CON | ITINUOUS | 0.00 | 0.00 | - (125 %) | |
| | LAR | GEST MOTOR | 0.00 | 0.00 | (N/A) | | | HEA | TING | 0.00 | 0.00 | (N/A) | |
| | OTH | ER MOTORS | 0.00 | 0.00 | (100%) | | | COC | LING | 0.00 | 0.00 | (N/A) | |
| | REC | EPTACLES | 0.00 | 0.00 | (50%>10 |)) | | NON | ICONTINUOUS | 0.00 | 0.00 | (100%) | |
| | KITC | HEN EQUIP | 0.00 | 0.00 | (N/A) | | | | ERSE | 0.00 | 0.00 | (N/A) | |
| | | | | | | | | MET | ERED DEMAND | 0.00 | 0.00 | (125%) | |
| | | | | | | | | тот | AL KVA | 0.17 | 0.21 | _ | |
| | | | | | | | | TOT | AL AMPS | | 1.72 | | |

| | ITING FI FROM L | | | BUS | TS 120V 1F AMPS 60 TRAL 100% | | | | MAIN | 10,000 BKR MLO STANDARD | | | |
|----------|--------------------|-------------------------------------|----------------------|----------------------|------------------------------------|--------------|----------|------------|------------------------------------|-------------------------------|----------------------|---------------------------|-------------|
| CKT # | CKT BKR | CIRCUIT DESC | CRIPTION | | | LOAD KVA | CKT # | CKT BKR | CIRCUIT DESC | CRIPTION | | | LOAI KVA |
| 1 3 | -/1 -/1 | GARAGE CLO STAIRS LTG | SET LTG | | | 0.03 0.10 | 2 4 | -/1 -/1 | ART WALL LT KITCHEN LTG | G | | | 0.0 |
| | | | | | | | | | | OTAL CONNEC | | | 0.2 |
| | | | | | | | | | T01 | TAL CONNECT | ED AMPS BY | Y PHASE | 1.90 |
| | | | CONN KVA | CALC KV | <u>'A</u> | | | | | CONN KVA | CALC KVA | _ | |
| | LAR OTH | HTING REEST MOTOR REER MOTORS | 0.23 0.00 0.00 | 0.29 0.00 0.00 | (125%) (N/A) (100%) | ., | | HEA | TINUOUS TING PLING | 0.00 0.00 0.00 | 0.00 0.00 0.00 | (125%) (N/A) (N/A) | |
| | | CEPTACLES CHEN EQUIP | 0.00 0.00 | 0.00 | (50%>10 (N/A) | <i>'</i>) | | DIVE | ICONTINUOUS ERSE ERED DEMAND | 0.00 0.00 0.00 | 0.00 0.00 0.00 | (100%) (N/A) (125%) | |
| | | | | | | | | | AL KVA AL AMPS | 0.23 | 0.29 2.38 | - | |

| D١ | <i>M</i> 10 |) | | | | | | | | | | | |
|-------------------------------|--------------------|---|--------------------------------------|--------------------------------------|---|------------------|----------|----------------------------------|--|--|--|---|------------------|
| ROOM MOUN FED I NOTE | ITING FI FROM L | LUSH | | BUS A | S 120V 1P AMPS 60 RAL 100% | 2W | | | MAIN | 10,000 BKR MLO STANDARD | | | |
| CKT # | CKT BKR | CIRCUIT DES | CRIPTION | | | LOAD KVA A | CKT # | CKT BKR | CIRCUIT DESC | CRIPTION | | | LOAI KVA A |
| 1 3 | -/1 -/1 | DINING PATIO | | | | 0.01 0.04 | 2 4 | -/1 -/1 | PATIO LTG BASEMENT PA | ATIO LTG | | | 0.01 0.07 |
| | | | | | | | | | T | OTAL CONNE | CTED KVA E | BY PHASE | 0.13 |
| | | | | | | | | | TO | TAL CONNECT | TED AMPS E | BY PHASE | 1.08 |
| | | | CONN KVA | CALC KVA | \ | | | | | CONN KVA | CALC KVA | \ | |
| | LAR OTH REC | HTING EGEST MOTOR IER MOTORS EEPTACLES CHEN EQUIP | 0.13 0.00 0.00 0.00 0.00 | 0.16 0.00 0.00 0.00 0.00 | (125%) (N/A) (100%) (50%>10 (N/A) |) | | HEA COO NON DIVE MET | ITINUOUS ATING DLING ICONTINUOUS ERSE ERED DEMAND AL KVA | 0.00 0.00 0.00 0.00 0.00 0.00 | 0.00 0.00 0.00 0.00 0.00 0.00 0.16 1.35 | (125%) (N/A) (N/A) (100%) (N/A) (125%) | |

| D١ | 12 | | | | | | | | | | | | |
|----------|-------------------|---|--------------------------------------|--------------------------------------|---|--------------|----------|--|---|--|--|---|--------------|
| | ITING FI | | | BUS A | 120V 1P MPS 60 AL 100% | 2W | | | MAIN | 22,000 BKR MLO STANDARD | | | |
| CKT # | CKT BKR | CIRCUIT DES | CRIPTION | | | LOAD KVA | CKT # | CKT BKR | CIRCUIT DESC | CRIPTION | | | LOAD KVA |
| 1 3 | -/1 -/1 | BATHROOM L KID'S BATHR | | | | 0.01 0.01 | 2 4 | -/1 -/1 | BATHROOM L' STAIRS LTG | TG | | | 0.01 0.01 |
| | | | | | | | | | TO | OTAL CONNEC | CTED KVA B | Y PHASE | 0.04 |
| | | | | | | | | | TO | TAL CONNECT | ED AMPS B | Y PHASE | 0.34 |
| | | | CONN KVA | CALC KVA | | - | | | | CONN KVA | CALC KVA | | |
| | LAR OTH REC | HTING GEST MOTOR IER MOTORS EPTACLES CHEN EQUIP | 0.04 0.00 0.00 0.00 0.00 | 0.05 0.00 0.00 0.00 0.00 | (125%) (N/A) (100%) (50%>10 (N/A) |)) | | HEA COO NOI DIV ME ⁻ TO1 | NTINUOUS ATING DLING NCONTINUOUS ERSE TERED DEMAND TAL KVA TAL AMPS | 0.00 0.00 0.00 0.00 0.00 0.00 | 0.00 0.00 0.00 0.00 0.00 0.00 0.05 0.43 | (125%) (N/A) (N/A) (100%) (N/A) (125%) | |

| | ITING FI FROM L | | | BUS A | 120V 1P MPS 60 AL 100% | 2W | | | MAIN | IO,000 BKR MLO STANDARD | | | |
|----------|--------------------|---|--------------------------------------|--------------------------------------|---|------------------|----------|---------------------------|---|--|--|---|---------|
| CKT # | CKT BKR | CIRCUIT DESC | CRIPTION | | | LOAD KVA A | CKT # | CKT BKR | CIRCUIT DESC | RIPTION | | | LC K |
| 1 3 | -/1 -/1 | ENTERY EXTE | | | | 0.01 0.01 | 2 4 | -/1 -/1 | ENTERY EXTE | RIOR LTG | | | 0. |
| | | | | | | | | | | OTAL CONNEC | | | 0 |
| | | | CONN KVA | CALC KVA | | | | | 101 | CONN KVA | | PHASE | 0 |
| | LAR OTH REC | HTING GEST MOTOR IER MOTORS EPTACLES CHEN EQUIP | 0.07 0.00 0.00 0.00 0.00 | 0.09 0.00 0.00 0.00 0.00 | (125%) (N/A) (100%) (50%>10 (N/A) |) | | HEA COO NON DIVE | ITINUOUS ATING DLING ICONTINUOUS ERSE ERED DEMAND | 0.00 0.00 0.00 0.00 0.00 0.00 | 0.00 0.00 0.00 0.00 0.00 0.00 | (125%) (N/A) (N/A) (100%) (N/A) (125%) | |
| | | | | | | | | | AL KVA AL AMPS | 0.07 | 0.09 0.76 | • | |

| | 18 | | | | | | | | | | | | |
|----------|--------------------|---------------------|----------|----------|------------------------------|-------------|----------|-------------|---------------------|-------------------------------|------------|-----------------|--------------|
| | ITING FL FROM L | USH | | BUS AM | 120V 1P MPS 60 AL 100% | | | | MAIN | 10,000 BKR MLO STANDARD | | | |
| CKT # | CKT BKR | CIRCUIT DESC | CRIPTION | | | LOAD KVA | CKT # | CKT BKR | CIRCUIT DESC | CRIPTION | | | LOAD KVA |
| | | | | | | A | <u> </u> | | | | | | A |
| 3 | -/1 20/1 | SPACE BATHROOM L | .TG | | | 0.00 | 2 4 | 20/1 -/1 | GARAGE LTG SPACE | | | | 0.10 0.00 |
| | | | | | | | | | TO | OTAL CONNEC | TED KVA BY | / PHASE | 0.10 |
| | | | | | | | | | TOT | TAL CONNECT | ED AMPS BY | PHASE | 0.87 |
| | | | CONN KVA | CALC KVA | | | | | | CONN KVA | CALC KVA | | |
| | LIGH | TING | 0.10 | 0.13 | (125 %) | | | CON | ITINUOUS | 0.00 | 0.00 | (125 %) | |
| | LAR | GEST MOTOR | 0.00 | 0.00 | (N/A) | | | HEA | TING | 0.00 | 0.00 | (N/A) | |
| | OTH | ER MOTORS | 0.00 | 0.00 | (100%) | | | COC | LING | 0.00 | 0.00 | (N/A) | |
| | | EPTACLES | 0.00 | 0.00 | (50%>10 |)) | | NON | ICONTINUOUS | 0.00 | 0.00 | (100%) | |
| | KITC | HEN EQUIP | 0.00 | 0.00 | (N/A) | | | | ERSE | 0.00 | 0.00 | (N/A) | |
| | | | | | | | | MET | ERED DEMAND | 0.00 | 0.00 | (125%) | |
| | | | | | | | | ТОТ | AL KVA | 0.10 | 0.13 | - | |
| | | | | | | | | тот | AL AMPS | | 1.09 | | |

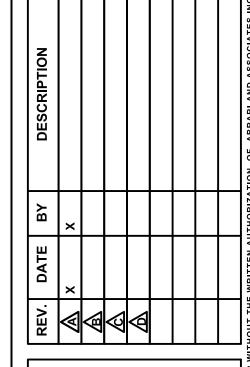
| | ITING FL FROM L | LUSH | | BUS | S 120V 1F AMPS 60 RAL 100% | | | | MAIN | IO,000 BKR MLO STANDARD | | | |
|----------|--------------------|----------------------------------|----------------------|----------------------|----------------------------------|--------------|----------|------------|------------------------------------|-------------------------------|------------------------------|------------------------------------|-------------|
| CKT # | CKT BKR | CIRCUIT DESC | CRIPTION | | | LOAD KVA | CKT # | CKT BKR | CIRCUIT DESC | CRIPTION | | | LOAI KVA |
| 1 3 | -/1 -/1 | DINING ROOM KITCHEN LTG | | | | 0.03 0.10 | 2 4 | -/1 -/1 | DINING ROOM MA. BEDROOM | | | | 0.0 0.18 |
| | | | | | | | | | TO | OTAL CONNEC | CTED KVA B | Y PHASE | 0.32 |
| | | | | | | | | | TO1 | TAL CONNECT | ED AMPS B | Y PHASE | 2.66 |
| | | | CONN KVA | CALC KVA | 4 | | | | | CONN KVA | CALC KVA | | |
| | LAR | ITING GEST MOTOR ER MOTORS | 0.32 0.00 0.00 | 0.40 0.00 0.00 | (125%) (N/A) | | | HEA | ITINUOUS TING DLING | 0.00 0.00 0.00 | 0.00 0.00 0.00 | (125%) (N/A) | |
| | REC | EPTACLES CHEN EQUIP | 0.00 0.00 0.00 | 0.00 0.00 0.00 | (100%) (50%>10 (N/A) |)) | | NON | ICONTINUOUS ERSE ERED DEMAND | 0.00 0.00 | 0.00 0.00 0.00 0.00 | (N/A) (100%) (N/A) (125%) | |
| | | | | | | | | | AL KVA AL AMPS | 0.32 | 0.40 3.32 | - ` ′ | |

| | ITING FI FROM L | LUSH | | BUS A | 120V 1F MPS 60 AL 100% | | | | MAIN | 22,000 BKR MLO STANDARD | | | |
|----------|--------------------|--|--------------------------------------|--------------------------------------|---|--------------|----------|---------------------------|--|--------------------------------------|--|---|--------------|
| CKT # | CKT BKR | CIRCUIT DES | CRIPTION | | | LOAD KVA | CKT # | CKT BKR | CIRCUIT DESC | CRIPTION | | | LOAI KVA |
| 1 3 | -/1 -/1 | BATHROOM L | | | | 0.06 0.02 | 2 4 | -/1 -/1 | KID'S BATHRO | OOM LTG | | | 0.03 0.04 |
| | | | | | | | | | T | OTAL CONNEC | CTED KVA B | Y PHASE | 0.15 |
| | | | | | | | | | TO | TAL CONNECT | TED AMPS B | Y PHASE | 1.26 |
| | | | CONN KVA | CALC KVA | _ | | | | | CONN KVA | CALC KVA | _ | |
| | LAR OTH REC | HTING GEST MOTOR ER MOTORS EPTACLES CHEN EQUIP | 0.15 0.00 0.00 0.00 0.00 | 0.19 0.00 0.00 0.00 0.00 | (125%) (N/A) (100%) (50%>10 (N/A) |)) | | HEA COO NON DIVI | ITINUOUS ATING DLING ICONTINUOUS ERSE ERED DEMAND | 0.00 0.00 0.00 0.00 0.00 | 0.00 0.00 0.00 0.00 0.00 0.00 | (125%) (N/A) (N/A) (100%) (N/A) (125%) | |
| | | | | | | | | | AL KVA AL AMPS | 0.15 | 0.19 1.58 | | |

| | ITING FI FROM L | LUSH | | BUS A | 120V 1P MPS 60 AL 100% | 2W | | | MAIN | 10,000 BKR MLO STANDARD | | | |
|----------|--------------------|-------------------------------------|----------------------|----------------------|------------------------------|------------------|----------|------------|----------------------------|-------------------------------|----------------------|--------------------------|------------|
| CKT # | CKT BKR | CIRCUIT DESC | CRIPTION | | | LOAD KVA A | CKT # | CKT BKR | CIRCUIT DESC | RIPTION | | | LOA KVA |
| 1 3 | -/1 -/1 | FOYER BATH CLOSET LTG | ROOM LTG | | | 0.03 0.03 | 2 4 | -/1 -/1 | ART WALL LT MUD ROOM L | | | | 0.0 |
| | | | | | | | | | TC | OTAL CONNEC | CTED KVA BY | PHASE | 0.16 |
| | | | | | | | | | TOT | AL CONNECT | ED AMPS BY | PHASE | 1.29 |
| | | | CONN KVA | CALC KVA | | | | | | CONN KVA | CALC KVA | | |
| | | ITING GEST MOTOR | 0.16 0.00 | 0.19 0.00 | (125%) (N/A) | | | | TINUOUS TING | 0.00 0.00 | 0.00 0.00 | (125%) (N/A) | |
| | REC | ER MOTORS EPTACLES CHEN EQUIP | 0.00 0.00 0.00 | 0.00 0.00 0.00 | (100%) (50%>10 (N/A) |) | | NON | LING CONTINUOUS :RSE | 0.00 0.00 0.00 | 0.00 0.00 0.00 | (N/A) (100%) (N/A) | |
| | KIIC | JILIN EQUII | 0.00 | 0.00 | (11) (1) | | | | ERED DEMAND | 0.00 | 0.00 | (125%) | |
| | | | | | | | | | AL KVA AL AMPS | 0.16 | 0.19 1.61 | | |

| | FLU L | JSH | | BUS A | 120V 1F MPS 60 AL 100% | | | | MAIN | 10,000 BKR MLO STANDARD | | | |
|-------------|------------|---|--------------------------------------|--------------------------------------|---|--------------|----------|---------------------------|---|--|--|---|------------------|
| - Г २ | | CIRCUIT DES | CRIPTION | | | LOAD KVA | CKT # | CKT BKR | CIRCUIT DESC | CRIPTION | | | LOAE KVA A |
| 1 | | OFFICE LTG LTG | | | | 0.14 0.06 | 2 | -/1 -/1 | STAIRS LTG STAIRS LTG | | | | 0.02 |
| | | | | | | | | | | OTAL CONNECT | | | 0.23 |
| | | | CONN KVA | CALC KVA | | | <u> </u> | | 101 | CONN KVA | | THASE | 1.00 |
| .A DT | ARG THE | TING EST MOTOR ER MOTORS EPTACLES HEN EQUIP | 0.23 0.00 0.00 0.00 0.00 | 0.28 0.00 0.00 0.00 0.00 | (125%) (N/A) (100%) (50%>10 (N/A) |)) | | HEA COC NON DIVE | ITINUOUS ITING DLING ICONTINUOUS ERSE ERED DEMAND | 0.00 0.00 0.00 0.00 0.00 0.00 | 0.00 0.00 0.00 0.00 0.00 0.00 | (125%) (N/A) (N/A) (100%) (N/A) (125%) | |
| •• | | L.V. E.GO. | 0.00 | 0.00 | (.4,.4 | | | MET TOT | | | | | |

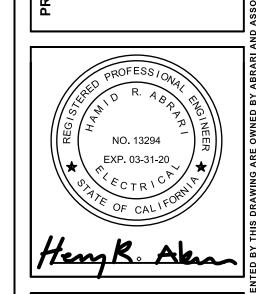
| | ITING FL FROM L | .USH | | BUS AN | 120V 1P MPS 60 AL 100% | 2W | | | MAIN | IO,000 BKR MLO STANDARD | | | |
|----------|--------------------|---|--------------------------------------|--------------------------------------|---|------------------|----------|---------------------------|--|--|--|---|------------------|
| CKT # | CKT BKR | CIRCUIT DES | CRIPTION | | | LOAD KVA A | CKT # | CKT BKR | CIRCUIT DESC | CRIPTION | | | LOAD KVA A |
| 1 3 | -/1 -/1 | KITCHEN LTG KITCHEN LTG | | | | 0.10 0.02 | 2 4 | -/1 -/1 | PANTRY LTG LIVING ROOM | LTG | | | 0.02 0.05 |
| | | | | | | | | | TC | OTAL CONNEC | CTED KVA BY | / PHASE | 0.19 |
| | | | | | | | | | тот | TAL CONNECT | TED AMPS BY | / PHASE | 1.58 |
| | | | CONN KVA | CALC KVA | | | | | | CONN KVA | CALC KVA | | |
| | LAR OTH REC | TING GEST MOTOR ER MOTORS EPTACLES CHEN EQUIP | 0.19 0.00 0.00 0.00 0.00 | 0.24 0.00 0.00 0.00 0.00 | (125%) (N/A) (100%) (50%>10 (N/A) |) | | HEA COO NON DIVE | ITINUOUS ITING DLING ICONTINUOUS ERSE ERED DEMAND | 0.00 0.00 0.00 0.00 0.00 0.00 | 0.00 0.00 0.00 0.00 0.00 0.00 | (125%) (N/A) (N/A) (100%) (N/A) (125%) | |
| | | | | | | | | | AL KVA AL AMPS | 0.19 | 0.24 1.97 | | |





> POWDER MOUNTAIN HOUSE 8645 EAST COPPER CREST, EDEN, UT 84310

2



PANEL SCHEDULES

| PROJECT NO.: | 2213 |
|--------------|----------|
| SCALE: | NONE |
| DATE: | 06-04-18 |
| BY: | VA |
| CHECKED: | HRA |
| DRAWING NO. | |
| | \circ |

| DI | M13 | ,) | | | | | | | | | | | |
|----------|---|--|--------------------------------------|--------------------------------------|---|--------------|----------|---------------------------|--|--|--|---|------------------|
| MOU | ROOM VOLTS 120V 1 MOUNTING FLUSH BUS AMPS 60 FED FROM L NEUTRAL 1009 NOTE | | | | MPS 60 | | | | MAIN | 10,000 BKR MLO STANDARD | | | |
| CKT # | CKT BKR | CIRCUIT DESC | CRIPTION | | | LOAD KVA | CKT # | CKT BKR | CIRCUIT DESC | CRIPTION | | | LOAD KVA A |
| 1 3 | -/1 -/1 | STAIRS LTG LIVING ROOM | LTG | | | 0.12 0.03 | 2 4 | -/1 -/1 | FAMILY MEDIA STAIRS LTG | ROOM LTG | | | 0.05 0.07 |
| | | | | | | | | | | OTAL CONNECT | | | 0.27 2.22 |
| | | | CONN KVA | CALC KVA | | | | | 10 | CONN KVA | CALC KVA | I PHASE | 2.22 |
| | LAR OTH REC | ITING GEST MOTOR ER MOTORS EPTACLES :HEN EQUIP | 0.27 0.00 0.00 0.00 0.00 | 0.33 0.00 0.00 0.00 0.00 | (125%) (N/A) (100%) (50%>10 (N/A) |)) | | HEA COO NON DIVE | ITINUOUS ITING DLING ICONTINUOUS ERSE ERED DEMAND | 0.00 0.00 0.00 0.00 0.00 0.00 | 0.00 0.00 0.00 0.00 0.00 0.00 | (125%) (N/A) (N/A) (100%) (N/A) (125%) | |
| ſ | | | | | | | | | AL KVA AL AMPS | 0.27 | 0.33 2.78 | - | |

| <u> </u> | <u>и16</u> |) | | | | | | | | | | | |
|----------|---|--|--------------------------------------|--------------------------------------|---|------------------|----------|---------------------------|--|--|--|---|--------------|
| | MOUNTING FLUSH BUS AMPS 60 ED FROM L NEUTRAL 100 | | | MPS 60 | 2W | | | MAIN | 10,000 BKR MLO STANDARD | | | | |
| CKT # | CKT BKR | CIRCUIT DES | CRIPTION | | | LOAD KVA A | CKT # | CKT BKR | CIRCUIT DESC | CRIPTION | | | LOAD KVA |
| 1 3 | -/1 -/1 | MASTER BED SPACE | RM. LTG | | | 0.05 0.00 | 2 4 | -/1 -/1 | MASTER BEDI SPACE | RM. LTG | | | 0.01 0.00 |
| | | | | | | | | | TO | OTAL CONNEC | CTED KVA B | Y PHASE | 0.07 |
| | | | | | | | | | TOT | TAL CONNECT | TED AMPS B | Y PHASE | 0.55 |
| | | | CONN KVA | CALC KVA | | | | | | CONN KVA | CALC KVA | | |
| | LAR OTH REC | ITING GEST MOTOR ER MOTORS EPTACLES CHEN EQUIP | 0.07 0.00 0.00 0.00 0.00 | 0.08 0.00 0.00 0.00 0.00 | (125%) (N/A) (100%) (50%>10 (N/A) |)) | | HEA COO NON DIVE | ITINUOUS ITING DLING ICONTINUOUS ERSE ERED DEMAND | 0.00 0.00 0.00 0.00 0.00 0.00 | 0.00 0.00 0.00 0.00 0.00 0.00 | (125%) (N/A) (N/A) (100%) (N/A) (125%) | |
| | | | | | | | | | AL KVA AL AMPS | 0.07 | 0.08 0.68 | | |

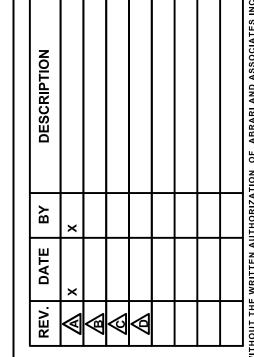
| | MOUNTING FLUSH BUS AMPS 60 FED FROM L NEUTRAL 100% | | | | 2W | | | MAIN | 10,000 BKR MLO STANDARD | | | | |
|----------|---|-------------------|----------|----------|---------|------------------|-------------|-------------|-------------------------------|-------------|-------------|-----------------|------------------|
| CKT # | CKT BKR | CIRCUIT DESC | CRIPTION | | | LOAD KVA A | CKT # | CKT BKR | CIRCUIT DESC | RIPTION | | | LOAI KVA A |
| 1 3 | -/1 -/1 | SITE LTG SPACE | | | | 0.06 0.00 | 2 4 | -/1 -/1 | SITE LTG SPACE | | | | 0.03 |
| | | | | | | TO | OTAL CONNEC | CTED KVA BY | / PHASE | 0.09 | | | |
| | | | | | | | | | TO1 | TAL CONNECT | TED AMPS BY | PHASE | 0.75 |
| | | | CONN KVA | CALC KVA | | | | | | CONN KVA | CALC KVA | | |
| | LIGH | TING | 0.09 | 0.11 | (125%) | | | CON | ITINUOUS | 0.00 | 0.00 | (125 %) | |
| | LAR | GEST MOTOR | 0.00 | 0.00 | (N/A) | | | HEA | TING | 0.00 | 0.00 | (N/A) | |
| | OTH | ER MOTORS | 0.00 | 0.00 | (100%) | | | COC | LING | 0.00 | 0.00 | (N/A) | |
| | | EPTACLES | 0.00 | 0.00 | (50%>10 |) | | | ICONTINUOUS | 0.00 | 0.00 | (100%) | |
| | KITC | HEN EQUIP | 0.00 | 0.00 | (N/A) | | | | ERSE | 0.00 | 0.00 | (N/A) | |
| | | | | | | | | MET | ERED DEMAND | 0.00 | 0.00 | (125 %) | |
| | | | | | | | | тот | AL KVA | 0.09 | 0.11 | | |
| | | | | | | | | TOT | AL AMPS | | 0.94 | | |

| D١ | <i>M</i> 14 | - | | | | | | | | | | | |
|----------|---|----------------------|----------|----------|---------|------------------|----------|------------|----------------------------|-------------------------------|-------------|-----------------|------------------|
| | OUNTING FLUSH BUS AMPS 60 ED FROM L NEUTRAL 100% | | | | | | | | | 10,000 BKR MLO STANDARD | | | |
| CKT # | CKT BKR | CIRCUIT DESC | CRIPTION | | | LOAD KVA A | CKT # | CKT BKR | CIRCUIT DESC | CRIPTION | | | LOAD KVA A |
| 1 3 | -/1 -/1 | LIVING ROOM SPACE | LTG | | | 0.20 0.00 | 2 4 | -/1 -/1 | MASTER BEDI ART WALL LT | | | | 0.10 0.02 |
| | | | | | | | | | TO | OTAL CONNEC | CTED KVA BY | / PHASE | 0.33 |
| | | | | | | | | | TOT | TAL CONNECT | ED AMPS BY | / PHASE | 2.71 |
| | | | CONN KVA | CALC KVA | | | | | | CONN KVA | CALC KVA | | |
| | LIGH | TING | 0.33 | 0.41 | (125%) | | | CON | TINUOUS | 0.00 | 0.00 | (125 %) | |
| | LAR | GEST MOTOR | 0.00 | 0.00 | (N/A) | | | HEA | TING | 0.00 | 0.00 | (N/A) | |
| | | ER MOTORS | 0.00 | 0.00 | (100%) | | | | LING | 0.00 | 0.00 | (N/A) | |
| | | EPTACLES | 0.00 | 0.00 | (50%>10 |)) | | | CONTINUOUS | 0.00 | 0.00 | (100%) | |
| | KITC | HEN EQUIP | 0.00 | 0.00 | (N/A) | | | DIVE | | 0.00 | 0.00 | (N/A) | |
| | | | | | | | | MET | ERED DEMAND | 0.00 | 0.00 | (125 %) | |
| | | | | | | | | TOT | AL KVA | 0.33 | 0.41 | | |
| | | | | | | | TOT | AL AMPS | | 3.39 | | | |

| DI | M17 | , | | | | | | | | | | | |
|----------|---|-------------------------|--------------|--------------|-----------------|------------------|----------|------------|-------------------------------|--------------|--------------|-----------------|------------------|
| | OUNTING FLUSH BUS AMPS 60 PROM L NEUTRAL 100% | | | | 2W | | | | 10,000 BKR MLO STANDARD | | | | |
| CKT # | CKT BKR | CIRCUIT DESC | CRIPTION | | | LOAD KVA A | CKT # | CKT BKR | CIRCUIT DESC | CRIPTION | | | LOAD KVA A |
| 1 | -/1 -/1 | BATHROOM L SPACE | TG | | | 0.06 0.00 | 2 4 | -/1 -/1 | LOWER FOYER | R LTG | | | 0.02 0.00 |
| | | | | | | | | | TO | OTAL CONNEC | CTED KVA B | Y PHASE | 0.08 |
| | | | | | | | | | T01 | TAL CONNECT | ED AMPS B | Y PHASE | 0.64 |
| | | | CONN KVA | CALC KVA | | | | | | CONN KVA | CALC KVA | | |
| | | TING | 0.08 | 0.10 | (125%) | | | | TINUOUS | 0.00 | 0.00 | (125%) | |
| | | GEST MOTOR ER MOTORS | 0.00 0.00 | 0.00 0.00 | (N/A) (100%) | | | | TING LING | 0.00 0.00 | 0.00 0.00 | (N/A) | |
| | | EPTACLES | 0.00 | 0.00 | (50%>10 |) | | | ICONTINUOUS | 0.00 | 0.00 | (N/A) (100%) | |
| | | HEN EQUIP | 0.00 | 0.00 | (N/A) | , | | DIVE | | 0.00 | 0.00 | (N/A) | |
| | | | | | • | | | MET | ERED DEMAND | 0.00 | 0.00 | (125%) | |
| | | | | | | | | | AL KVA AL AMPS | 0.08 | 0.10 0.80 | _ | |

| | MOUNTING FLUSH BUS AN REUTRA | | | AIC 10,000 AMPS 60 MAIN BKR MLO TRAL 100% LUGS STANDARD | | | | | | | | | |
|----------|------------------------------|---------------------|--------------|---|-----------------|------------------|----------|------------|-------------------|--------------|--------------|-----------------|------------------|
| CKT # | CKT BKR | CIRCUIT DESC | CRIPTION | | , | LOAD KVA A | CKT # | CKT BKR | CIRCUIT DESC | CRIPTION | | | LOAD KVA A |
| 1 3 | -/1 -/1 | MA. BATHRO | | | | 0.02 0.05 | 2 4 | -/1 -/1 | MA. BATHROO | | | | 0.02 0.03 |
| • | | | | | | | | | TC | OTAL CONNEC | CTED KVA BY | PHASE | 0.12 |
| | | | | | | | | | TOT | TAL CONNECT | ED AMPS BY | PHASE | 0.98 |
| | | | CONN KVA | CALC KVA | | | | | | CONN KVA | CALC KVA | | |
| | | ITING GEST MOTOR | 0.12 0.00 | 0.15 0.00 | (125%) (N/A) | | | | TINUOUS TING | 0.00 0.00 | 0.00 0.00 | (125%) (N/A) | |
| | | ER MOTORS | 0.00 | 0.00 | (100%) | | | | LING | 0.00 | 0.00 | (N/A) | |
| | REC | EPTACLES | 0.00 | 0.00 | (50%>10 |) | | NON | CONTINUOUS | 0.00 | 0.00 | (100%) | |
| | KITC | HEN EQUIP | 0.00 | 0.00 | (N/A) | | | | RSE DEMAND | 0.00 | 0.00 | (N/A) | |
| | | | | | | | | | ERED DEMAND | 0.00 | 0.00 | (125%) | |
| | | | | | | | | | AL KVA AL AMPS | 0.12 | 0.15 1.23 | | |

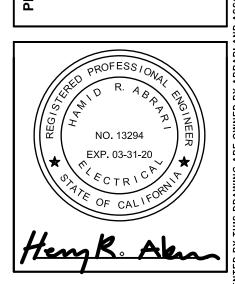
| D١ | DM18 | | | | | | | | | | | | |
|----------|------------------------------|--|--------------------------------------|--------------------------------------|---|--------------|----------|---|--|--|--|---|------------------|
| 1 | MOUNTING FLUSH FED FROM L | | | BUS A | 120V 1P MPS 60 AL 100% | | | | MAIN | 10,000 BKR MLO STANDARD | | | |
| CKT # | CKT BKR | CIRCUIT DES | CRIPTION | | | LOAD KVA | CKT # | CKT BKR | CIRCUIT DESC | CRIPTION | | | LOAD KVA A |
| 1 3 | -/1 -/1 | LTG SPACE | | | | 0.03 0.00 | 2 4 | -/1 -/1 | SPACE SPACE | | | | 0.00 0.00 |
| | | | | | | | | | TO | OTAL CONNE | CTED KVA BY | PHASE | 0.03 |
| | | | | | | | | | TOT | TAL CONNECT | TED AMPS BY | PHASE | 0.24 |
| | | | CONN KVA | CALC KVA | | | | | | CONN KVA | CALC KVA | | |
| | LAR OTH REC | HTING REEST MOTOR REER MOTORS REPTACLES CHEN EQUIP | 0.03 0.00 0.00 0.00 0.00 | 0.04 0.00 0.00 0.00 0.00 | (125%) (N/A) (100%) (50%>10 (N/A) |)) | | HEA COC NON DIVE MET TOT | ITINUOUS ITING DLING ICONTINUOUS ERSE ERED DEMAND AL KVA AL AMPS | 0.00 0.00 0.00 0.00 0.00 0.00 | 0.00 0.00 0.00 0.00 0.00 0.00 0.04 0.30 | (125%) (N/A) (N/A) (100%) (N/A) (125%) | |





POWDER MOUNTAIN HOUSE 8645 EAST COPPER CREST, EDEN. UT 84310

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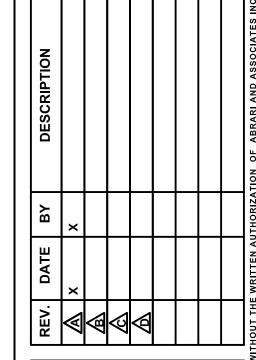


CUEET TITI E

PANEL SCHEDULES

| E- | 2.4 | ALL IDEAS, D |
|-------------|----------|------------------|
| DRAWING NO. | | |
| CHECKED: | HRA | DESIGNS, |
| BY: | VA | |
| DATE: | 06-04-18 | ANGE |
| SCALE: | NONE | MENT |
| PROJECT NO. | : 2213 | ARRANGEMENTS AND |
| | | |

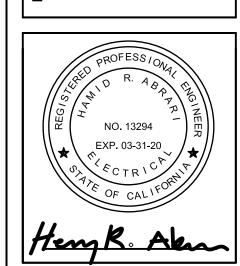
| CALLOUT | SYMBOL | LAMP | DESCRIPTION | BALLAST | MOUNTING | MODEL | INPUT WATTS | VOLTS | NOTE 1 |
|---------|------------|--------------|--|------------|----------|--|----------------|------------|-----------------------------|
| | • | (1) 17W LED | RECESSED FLANGELESS ROUND PINHOLE ADJUSTABLE DOWNLIGHT | DIMMING | RECESSED | TECH LIGHTING. E2R-L-LH-927-40(40°)-A-I-010 + E2R-LF-O-W INTEGRAL LED. 2700K-915-DELIVERED LUMENS | 17 | 120V 1P 2W | |
| A | 0 | (1) 17W LED | RECESSED FLANGELESS ROUND PINHOLE ADJUSTABLE DOWNLIGHT, BLACK FINISH | DIMMING | RECESSED | TECH LIGHTING E2R-L-LH-927-40(40°)-A-I-010 + E2R-LF-O-B INTEGRAL LED 2700K 1250 DELIVERED LUMENS | 17 | 120V 1P 2W | |
| | w • | (1) 17W LED | RECESSED FLANGELESS ROUND DOWNLIGHT (WET) | DIMMING | RECESSED | TECH LIGHTING. E2R-L-LH-927-40(40°)-A-I-010 + E2R-LF-H-W INTEGRAL LED 2700K 1250 DELIVERED LUMENS | 17 | 120V 1P 2W | |
| | _ | (1) 2.9W LED | MIRROR WITH INTEGRAL LIGHTING | ELECTRONIC | WALL | OFCI — OWNER FURNISHED CONTRACTOR INSTALLED | 2.9 | 120V 1P 2W | |
| | | (1) 3W LED | LINEAR STRIP LIGHT IN ARCHITECTURAL COVE | ELECTRONIC | PENDANT | LUMINII LL30-27K-SECTION START-SECTION END-LENGTH + PSD-POWER-24 INTEGRAL LED 2700K - 98CRI 203 LUMENT/FT | 3 | 120V 1P 2W | |
| | • | (1) 3.2W LED | LINEAR MILLWORK LIGHT | ELECTRONIC | WALL | LUMINII KRM-LENGTH-27K-SO-HF-FINISH-POWER FEED + PSD-OWER-24 INTEGRAL LED 2700K - 98CRI 118 LUMENT/FT | 3.2 | 120V 1P 2W | |
| | | (1) 100W LED | DECORATIVE PENDANT FIXTURE | ELECTRONIC | PENDANT | OFCI — OWNER FURNISHED CONTRACTOR INSTALLED | 100 | 120V 1P 2W | |
| | | (1) 5.2W LED | RECESSED LINEAR REVIEW LIGHT IN CELING IN SHOWER | ELECTRONIC | RECESSED | LUMINII (2)LIN-LENGTH PER DRAWING-27K-HOLE-MOD-WET + LIN-IC-90-27K-HO-FMOD-WET + PSD-POWER-24 INTEGRAL LED 2700K - 98CRI 213 LUMENT/FT | 5.2 | 120V 1P 2W | |
|) | 0 | (1) 29W LED | GENERAL ILLUMINATION FIXTURE | ELECTRONIC | SURFACE | WAC FM-4615-27 INTEGRAL LED 2700K 90-CRI 1485 DELIVERED LUMENS | 29 | 120V 1P 2W | |
| l | | (1) 56W LED | SURFACE MOUNTED AMBIENT FIXTURE | DIMMING | RECESSED | FLOS USA LUKAS Lighting FU157009TR INTEGRAL LED 2700K 90CRI 4200 LUMEN | 56 | 120V 1P 2W | |
| 2 | << | (1) 7.2W LED | SEMI-RECESSED DOWNLIGHT / MONOPOINT SPOT LIGHT | DIMMING | RECESSED | FLOS USA LUKAS Lighting 39.3707-FINISH + SP40W600MA-10V-A01 INTEGRAL LED 2700K 504 LUMENS | 7.2 | 120V 1P 2W | |
| 2A | ∢ - | (1) 7.2W LED | SEMI-RECESSED DOWNLIGHT / MONOPOINT SPOT LIGHT, BLACK FINISH | DIMMING | RECESSED | FLOS USA LUKAS Lighting 7.2w 0-10V 39.3707-14 + SP40W600MA-10V-A01 INTEGRAL LED 2700K 504 LUMENS | 7.2 | 120V 1P 2W | |
| 3 | _ | (1) 3W LED | RECESSED INDIRECT LINEAR STRIP LIGHT | DIMMING | RECESSED | WAC (2)ROWS LED-TC-1.5-RGB + LED-TRCH3 INTEGRAL LED RGB | 3 | 120V 1P 2W | |
| ŀ | | (1) 13W LED | SURFACE MOUNTED LINEAR TUNABLE WHITE AMBIENT FIXTURE | DIMMING | SURFACE | COLOR KINETICS 100°X100° + DATA ENABLER PRO +iPLAYER3 + AUXBOX INTERFACE INTEGRAL LED TUNNABLE WHITE | 13 | 120V 1P 2W | |
| 5 | • | (1) 6W LED | RECESSED LED ADJUSTABLE DOWNLIGHT UNDER STAIRS | DIMMING | RECESSED | HUNZA. EAVE/T6/L-D10-EBK(BLACK)-60-2-LF INTEGRAL LED 2700K 600 LUMENS | 6 | 120V 1P 2W | |
| 6 | | (1) 100W LED | DECORATIVE RECESSED FIXTURE | DIMMING | RECESSED | OFCI — OWNER FURNISHED CONTRACTOR INSTALLED INTEGRAL LED 2700K | 100 | 120V 1P 2W | |
| 7 | | (1) 100W LED | DECORATIVE PENDANT FIXTURE | DIMMING | PENDANT | OFCI — OWNER FURNISHED CONTRACTOR INSTALLED SCREW IN LED OR HALOGEN 120 PENDANT 2700K | 100 | 120V 1P 2W | |
| 1 | © | (1) 1W LED | HANDRAIL MOUNTED STAIR LIGHT | DIMMING | RECESSED | ALPHABET (LEDRA BRANDS -WILA) 750-2-3-FACE-THICKNESS + P70414 -500-SOLO DRIVER INTEGRAL LED 3000K 80+CRI 111 LUMENS | 1 | 120V 1P 2W | EQUIPPED WITH MOT SENSOR |
| 2 | D | (1) 3W LED | EXTERIOR RECESSED LED STEPLIGHT | DIMMING | WALL | BEGA 33017+K3 INTEGRAL LED 3000K 150 LUMENS | 3 | 120V 1P 2W | EQUIPPED WITH MOT SENSOR |
| 3 | 0 | (1) 6W LED | EXTERIOR RECESSED LED DOWNLIGHT | DIMMING | RECESSED | HUNZA EAVE/T6/L-D10-EBK(BLACK)-60-2-LF INTEGRAL LED 2700K 600 LUMENS | 6 | 120V 1P 2W | |
| | ф | (1) 10W LED | EXTERIOR WALL MOUNTED DOWNLIGHT | DIMMING | WALL | EATON - LUMIERE 9002-W1-RW-LED2797-F-STD FINISHL1-UNV-WIS INTEGRAL LED 2700K 97-CRI 711 LUMENS | 10 | 120V 1P 2W | |
| | (SC) | NONE | SMOKE DETECTOR/CARBON MONOXIDE | | CEILING | | 1 | 120V 1P 2W | |





> POWDER MOUNTAIN HOUSE 8645 EAST COPPER CREST, EDEN, UT 84310

PROJEC⁻

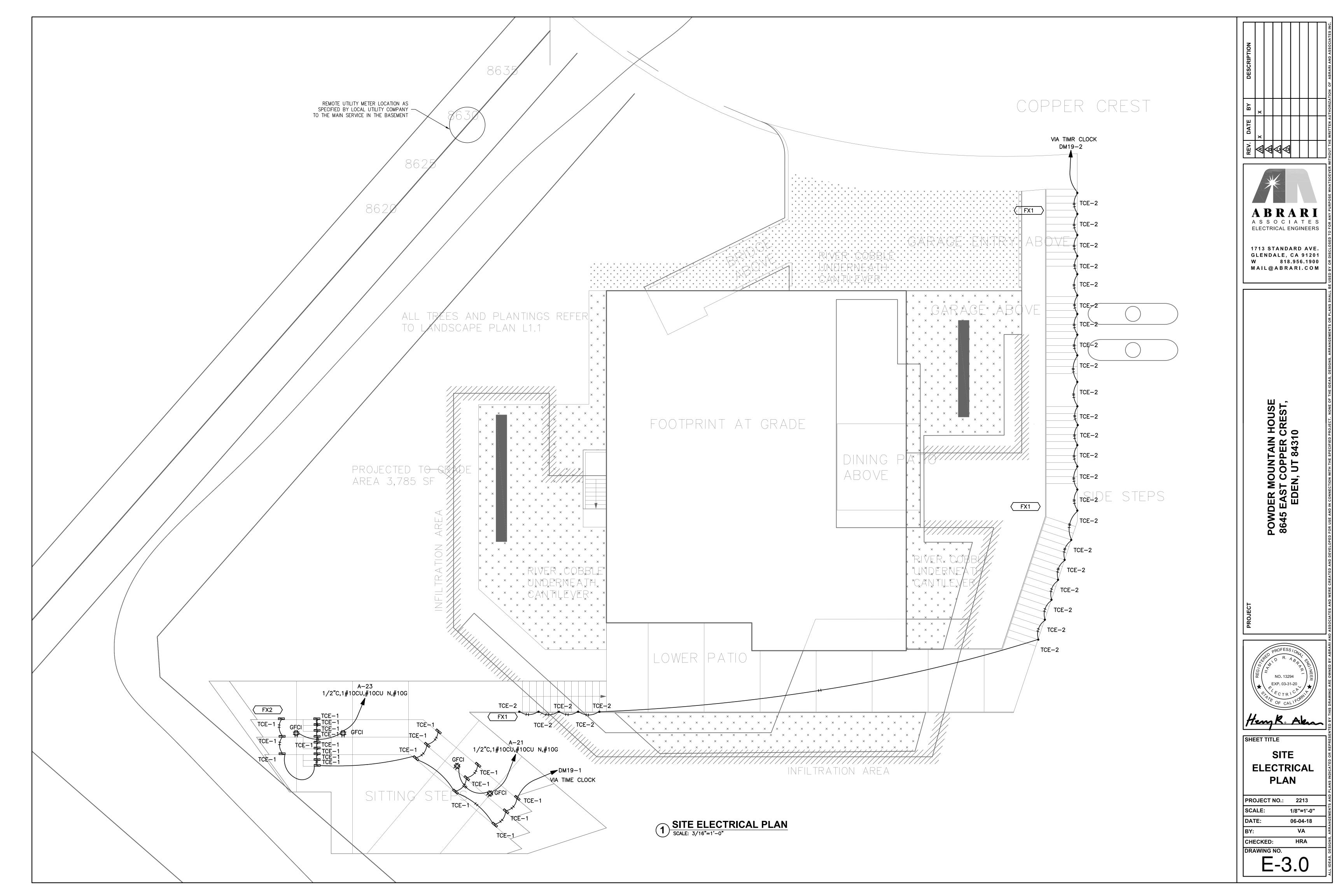


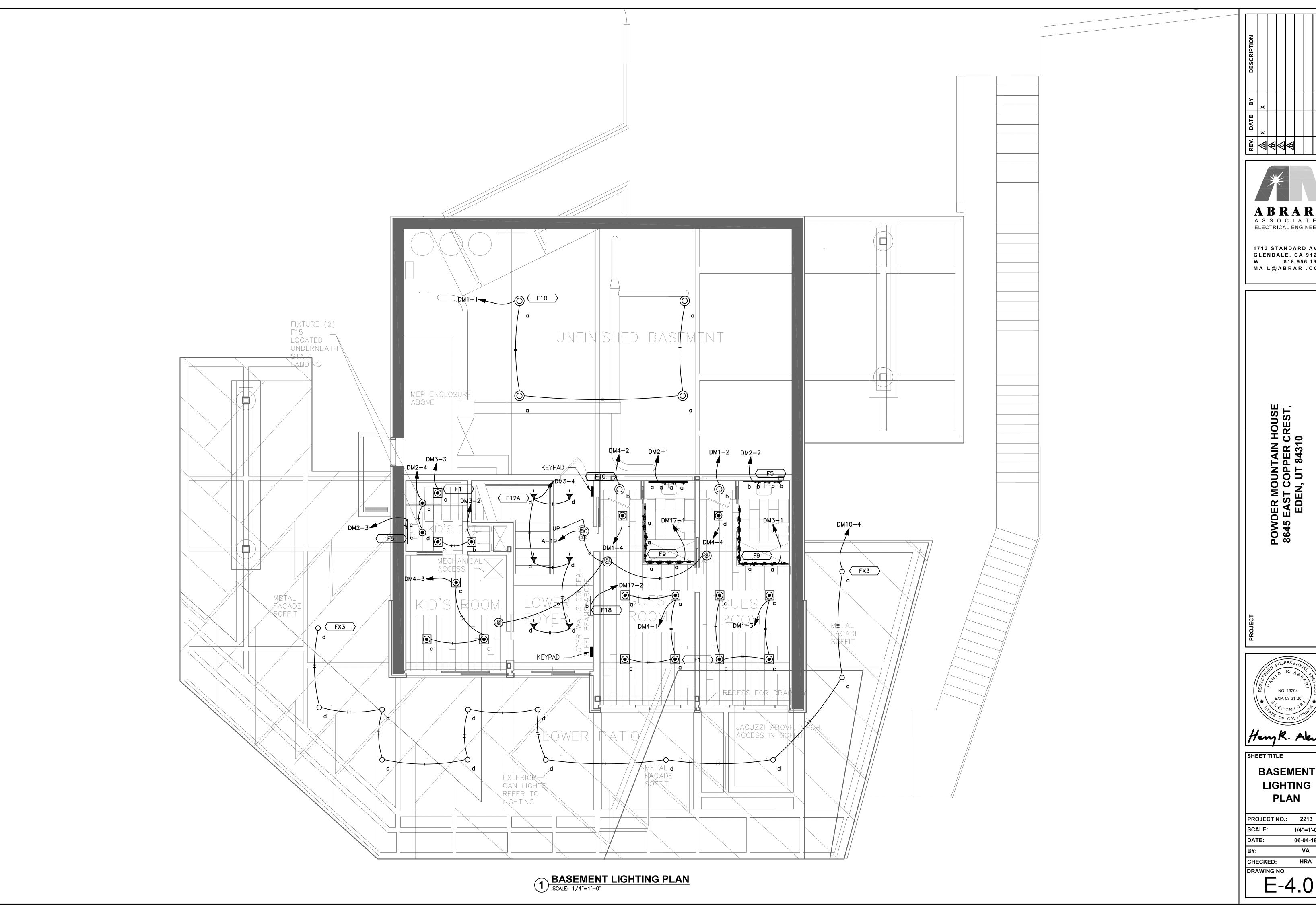
SHEET TIT

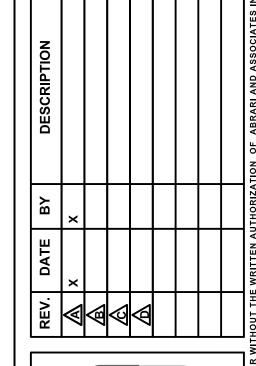
LIGHTING SCHEDULES

| PROJECT NO.: | 2213 |
|--------------|----------|
| SCALE: | NONE |
| DATE: | 06-04-18 |
| BY: | VA |
| CHECKED: | HRA |
| DRAWING NO. | |

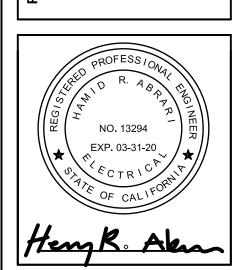
E-2.5





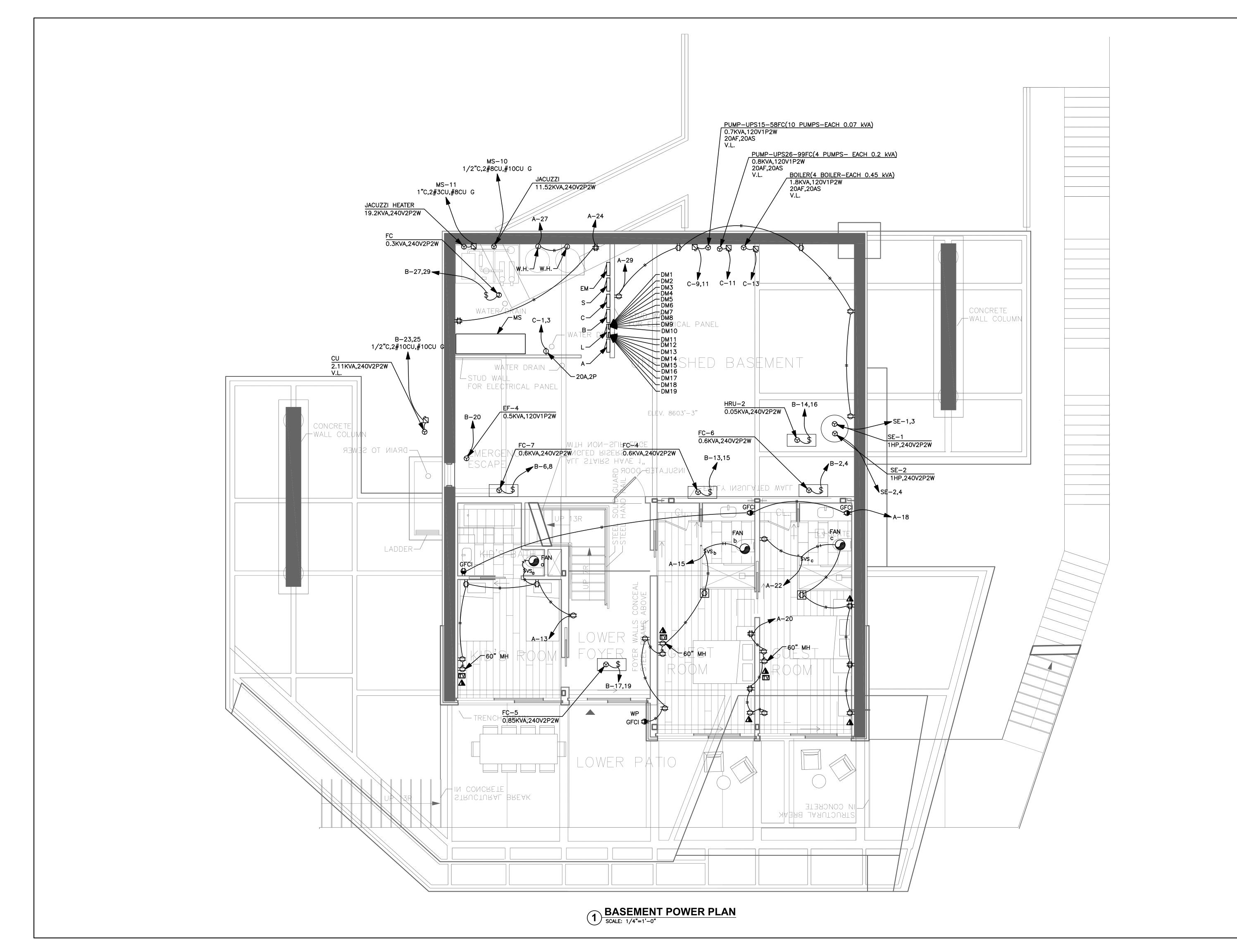


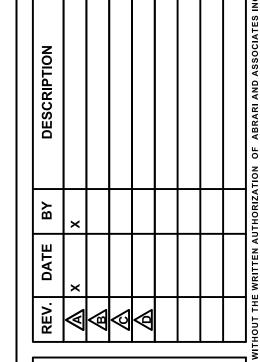




BASEMENT LIGHTING PLAN

| PROJECT NO.: | 2213 |
|--------------|------------|
| SCALE: | 1/4"=1'-0" |
| DATE: | 06-04-18 |
| BY: | VA |
| CHECKED: | HRA |
| DRAWING NO. | |
| _ | 4 |

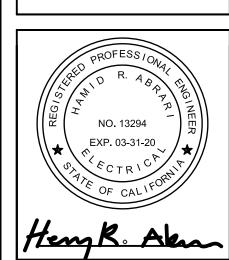






> POWDER MOUNTAIN HOUSE 8645 EAST COPPER CREST, FDFN 11T 84310

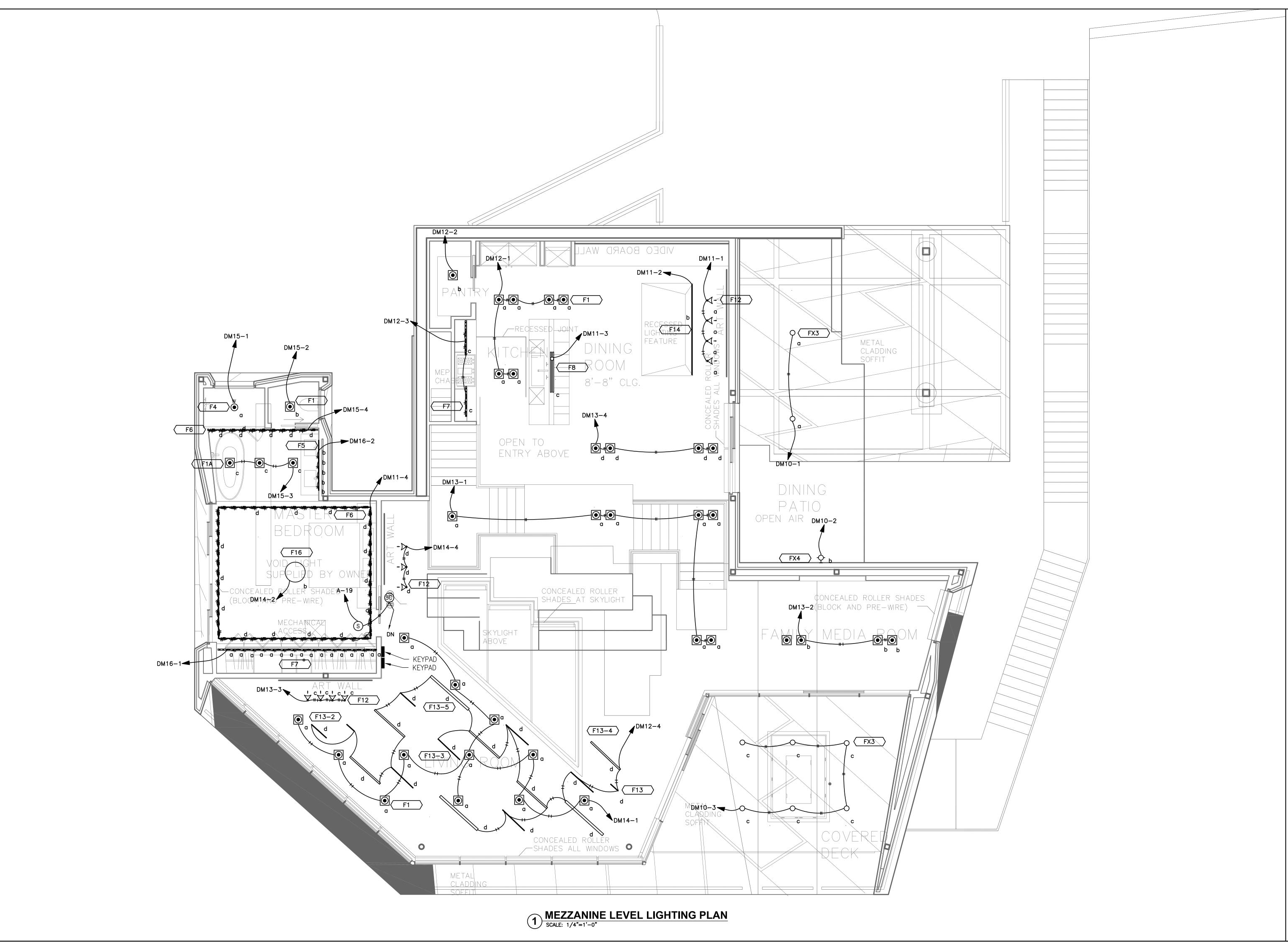
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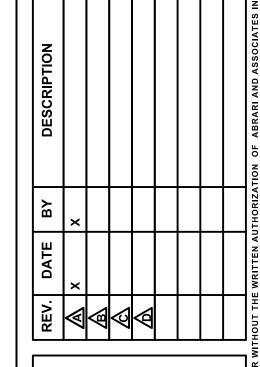


SHEET TITLE

BASEMENT POWER PLAN

| PROJECT NO.: | 2213 |
|--------------|---------------------------|
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| DATE: | 06-04-18 |
| BY: | VA |
| CHECKED: | HRA |
| DRAWING NO. | |
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| | SCALE: DATE: BY: CHECKED: |

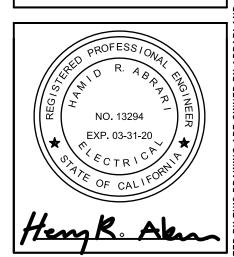






ELECTRICAL ENGINEERS

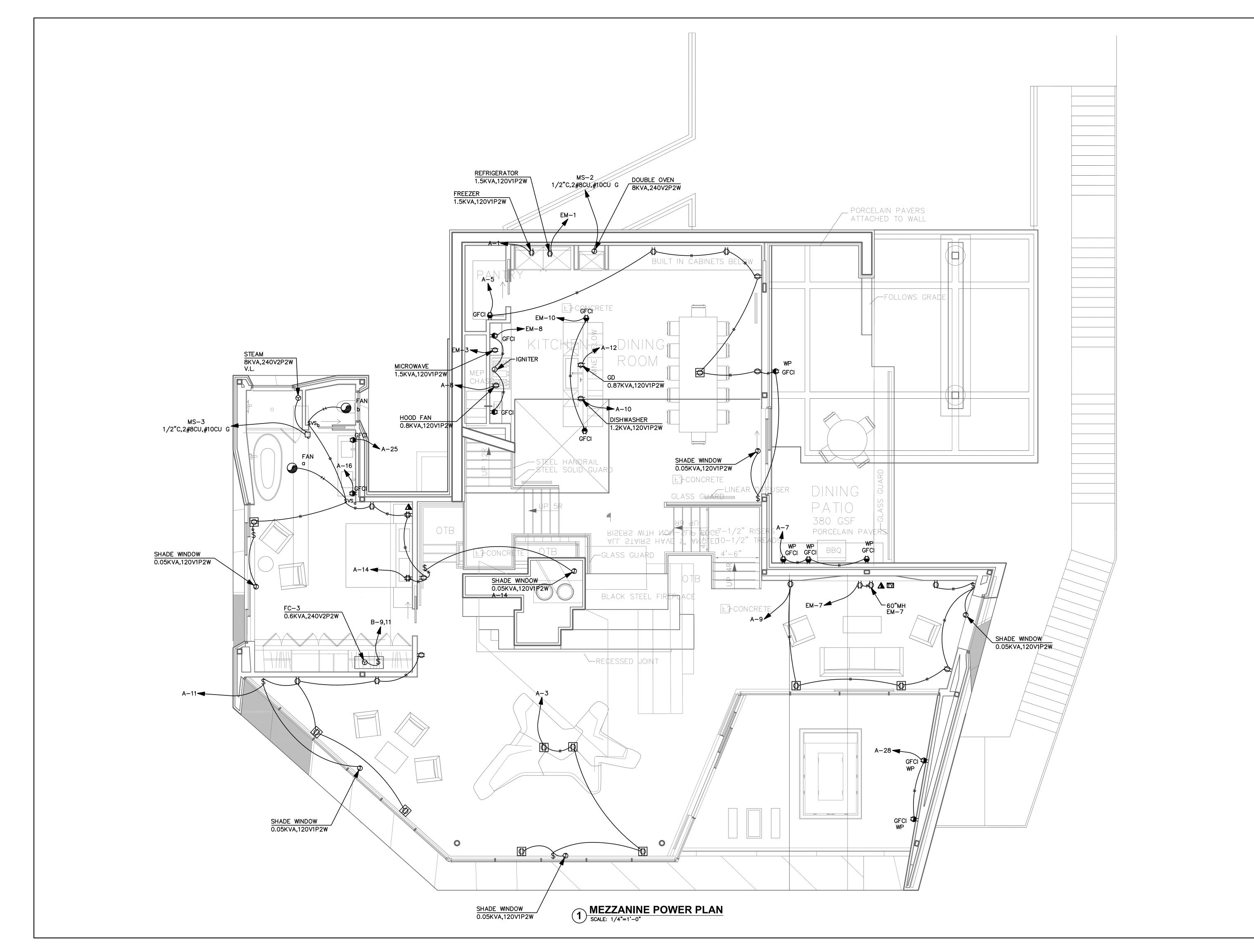
POWDER MOUNTAIN HOUSE 8645 EAST COPPER CREST, EDEN, UT 84310

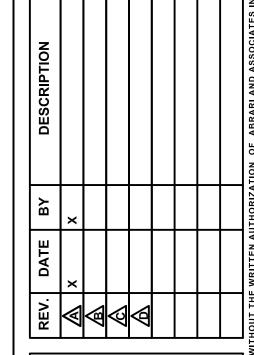


SHEET TITLE

MEZZ. LEVEL LIGHTING PLAN

| PROJECT NO.: | 2213 |
|--------------|------------|
| SCALE: | 1/4"=1'-0" |
| DATE: | 06-04-18 |
| BY: | VA |
| CHECKED: | HRA |
| DRAWING NO. | |
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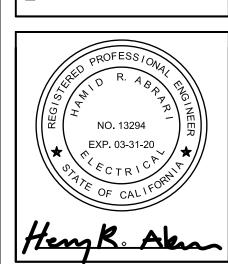






ELECTRICAL ENGINEERS

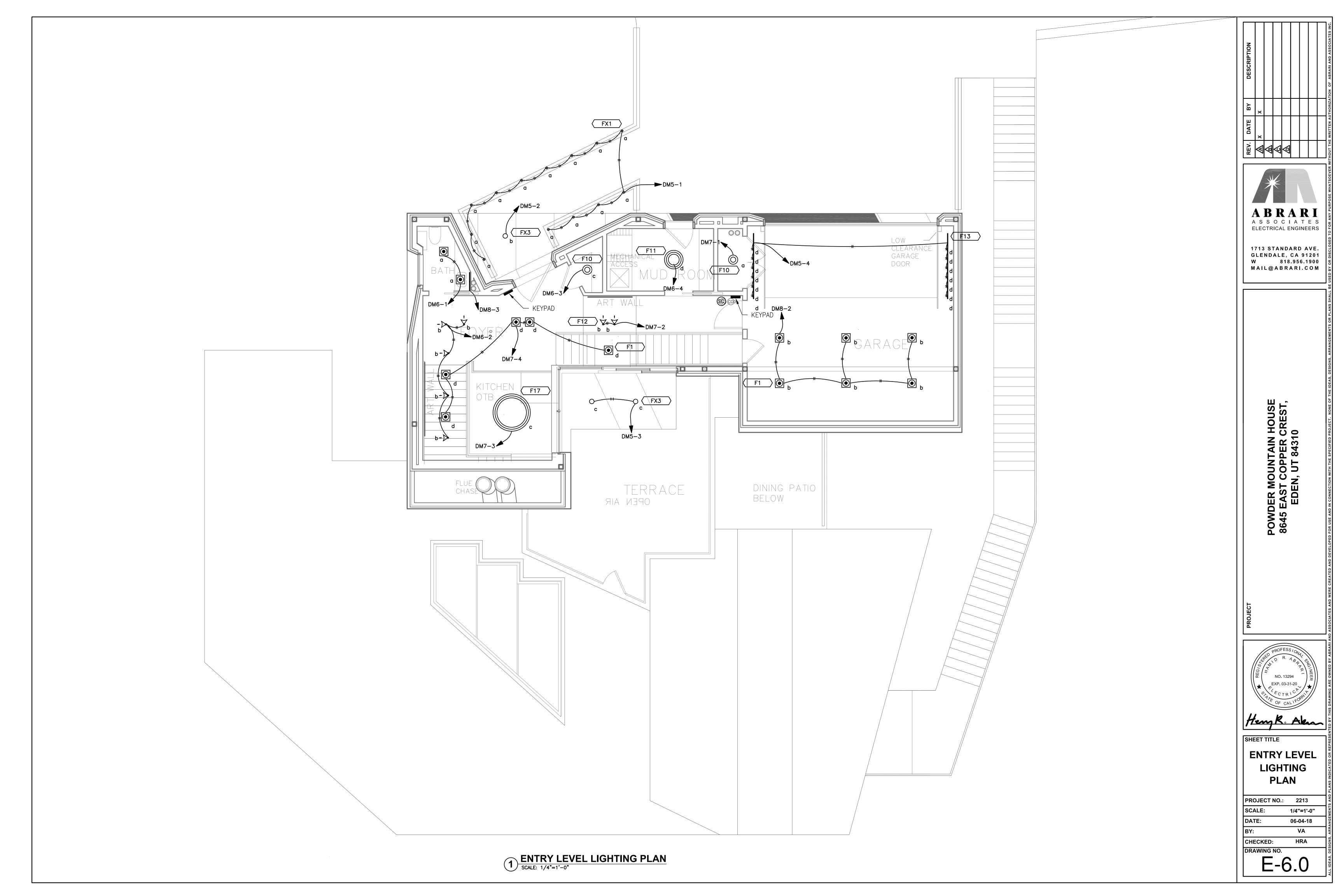
8645 EAST COPPER CREST, EDEN, UT 84310

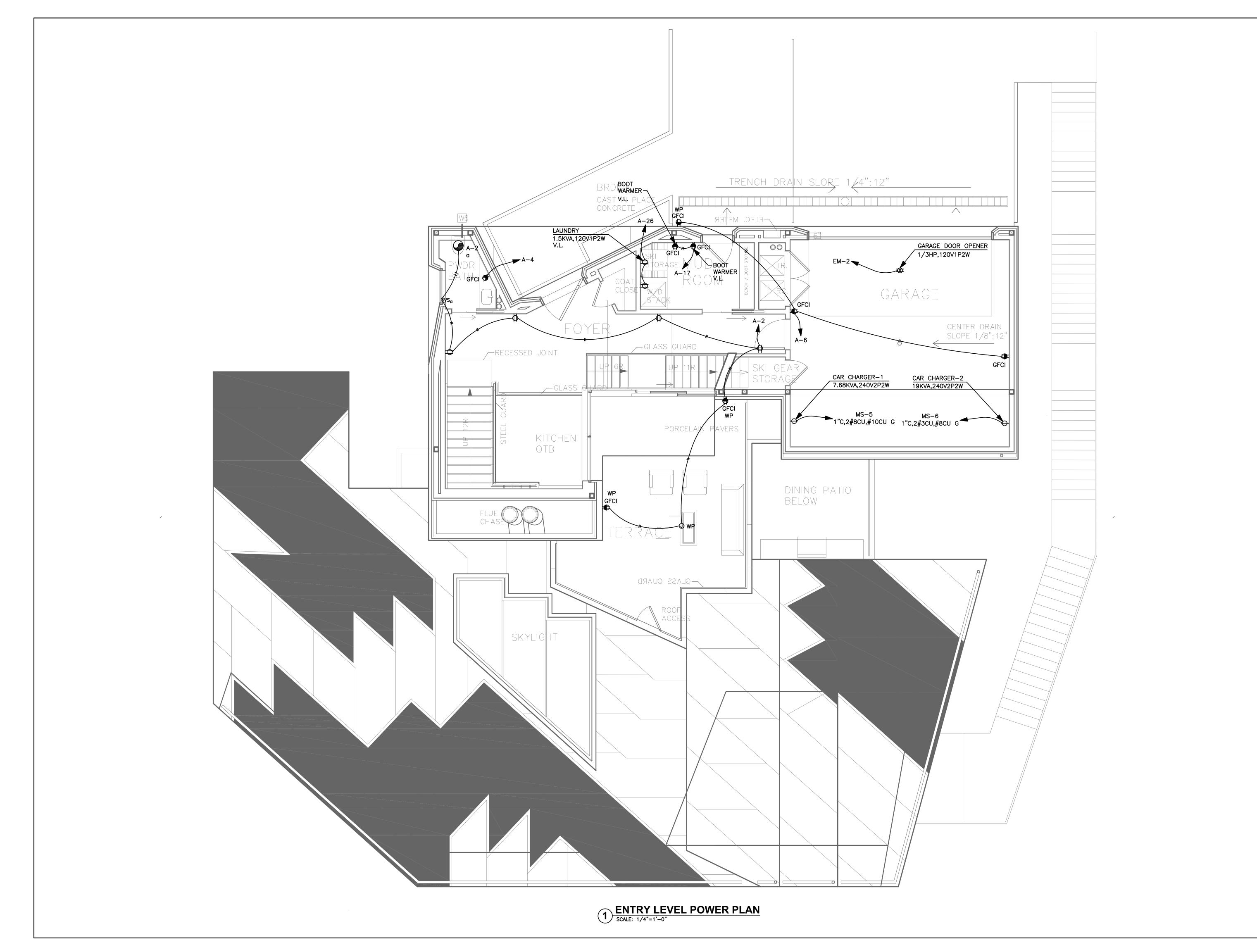


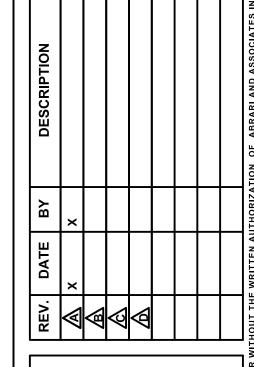
SHEET TITLE

MEZZANINE POWER PLAN

| PROJECT NO.: | 2213 |
|--------------|---------------------------|
| SCALE: | 1/4"=1'-0" |
| DATE: | 06-04-18 |
| BY: | VA |
| CHECKED: | HRA |
| DRAWING NO. | |
| E-5 | 5.1 |
| | SCALE: DATE: BY: CHECKED: |

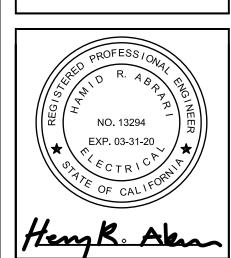








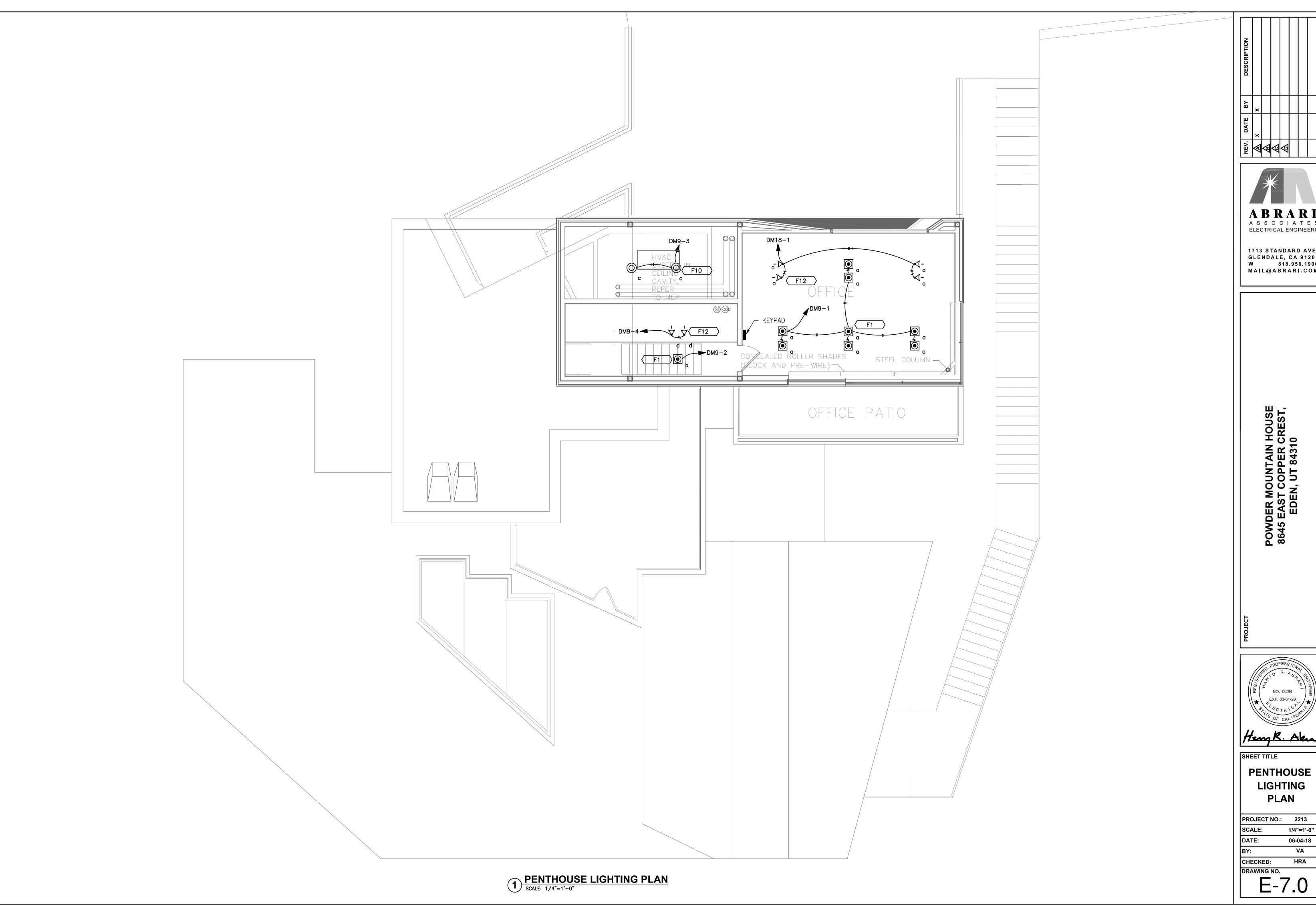
> 8645 EAST COPPER CREST, EDEN, UT 84310



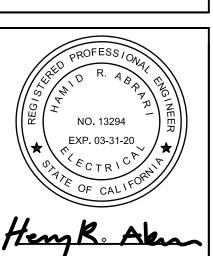
SHEET TITLE

ENTRY LEVEL POWER PLAN

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| BY: | VA |
| CHECKED: | HRA |
| DRAWING NO. | |
| E-6 | 5.1 |

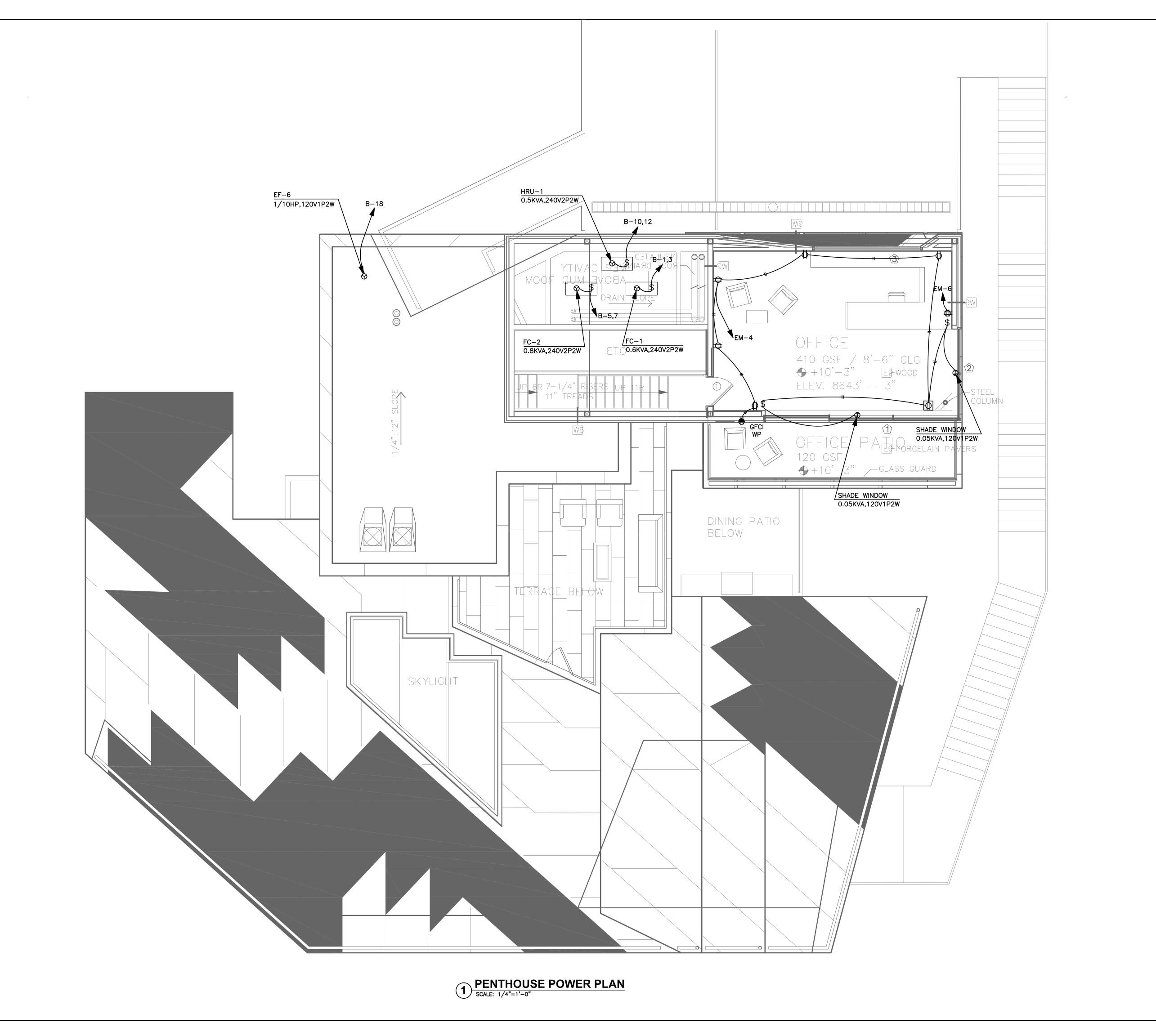


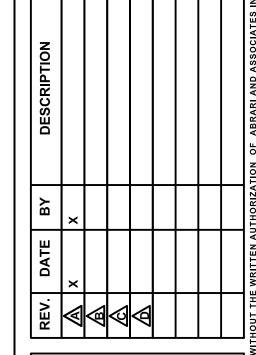




PENTHOUSE LIGHTING PLAN

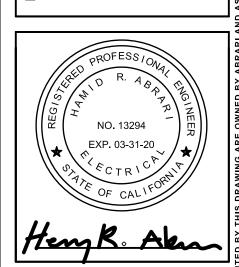
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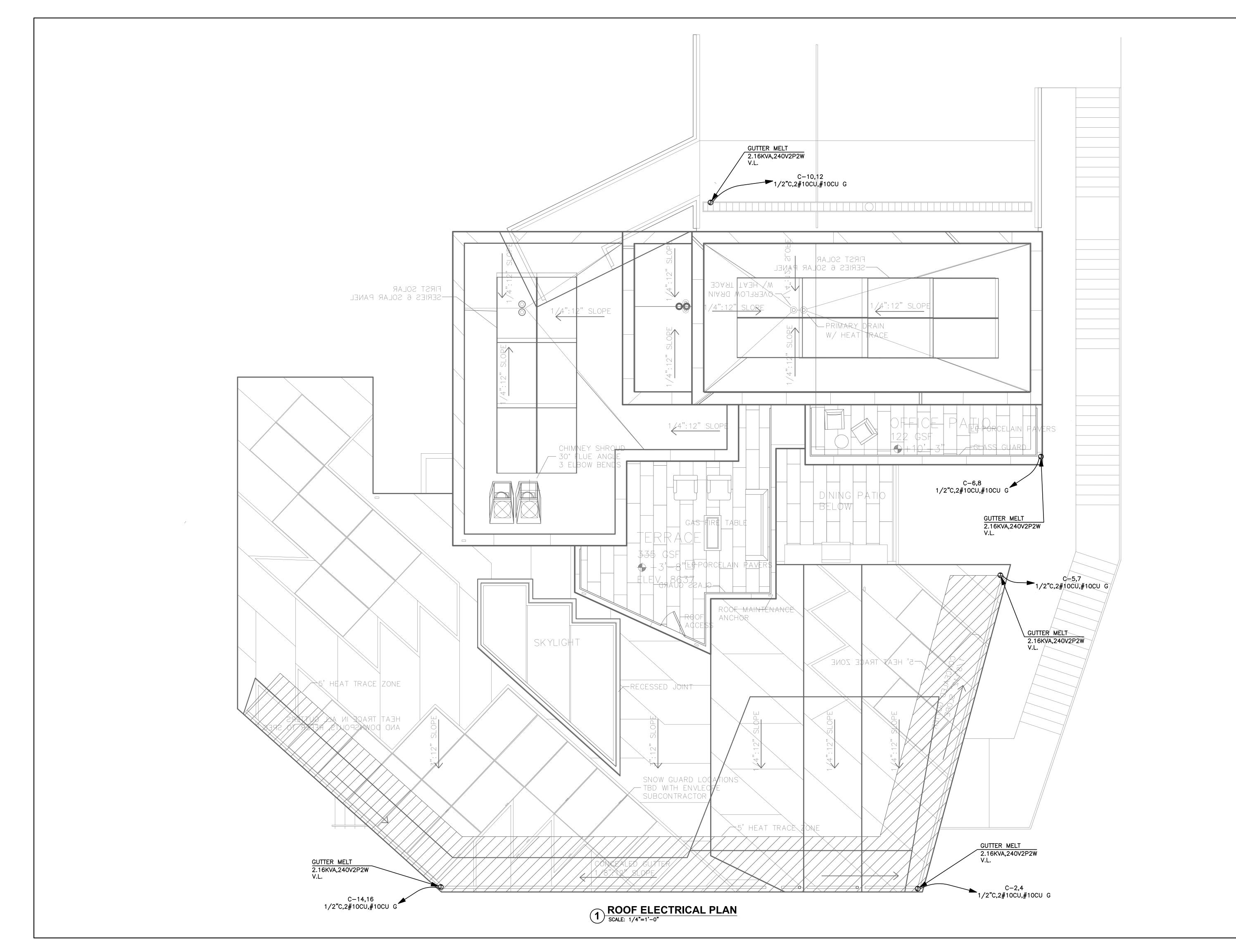
> POWDER MOUNTAIN HOUSE 8645 EAST COPPER CREST, EDEN, UT 84310

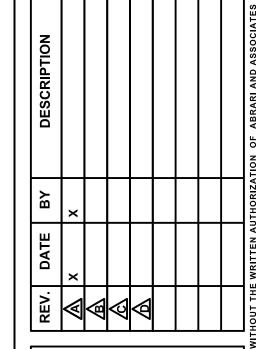


SHEET TITLE

PENTHOUSE POWER PLAN

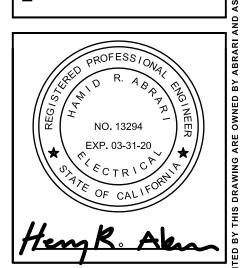
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| BY: | VA |
| CHECKED: | HRA |
| DRAWING NO |). |
| ╵ ⋤₋ | .7 1 |







> POWDER MOUNTAIN HOUSE 8645 EAST COPPER CREST, EDEN, UT 84310



SHEET TITLE ROO

ROOF ELECTRICAL PLAN

| PROJECT NO.: | 2213 |
|--------------|------------|
| SCALE: | 1/4"=1'-0" |
| DATE: | 06-04-18 |
| BY: | VA |
| CHECKED: | HRA |
| E-8.0 | |