GENERAL NOTES

- 1. ALL WORK SHALL COMPLY WITH THE LATEST EDITION OF NATIONAL ELECTRIC CODE AND ALL OTHER APPLICABLE FEDERAL, STATE AND LOCAL CODES. WHERE THE PLANS SHOW MORE RESTRICTIVE REQUIREMENTS, THE PLANS SHALL GOVERN BUT NOTHING ON THESE PLANS SHALL BE INTERPRETED AS AUTHORITY TO VIOLATE ANY CODE OR REGULATION.
- 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 SHALL PREVAIL.
- 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 OPERATIONAL SYSTEM.
- 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 CONTRACTOR.
- 19. THE CONTRACTOR MAY USE TEMPORARY POWER AND WATER AVAILABLE FOR LIGHTING AND SMALL TOOLS. TOILET FACILITIES ON SITE MAY BE USED BY CONTRACTOR PERSONNEL.
- 20. SUBMIT THREE (3) SETS OF SHOP DRAWINGS FOR APPROVAL TO ENGINEER FOR ALL 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 WITH THE PLANS.
- 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.

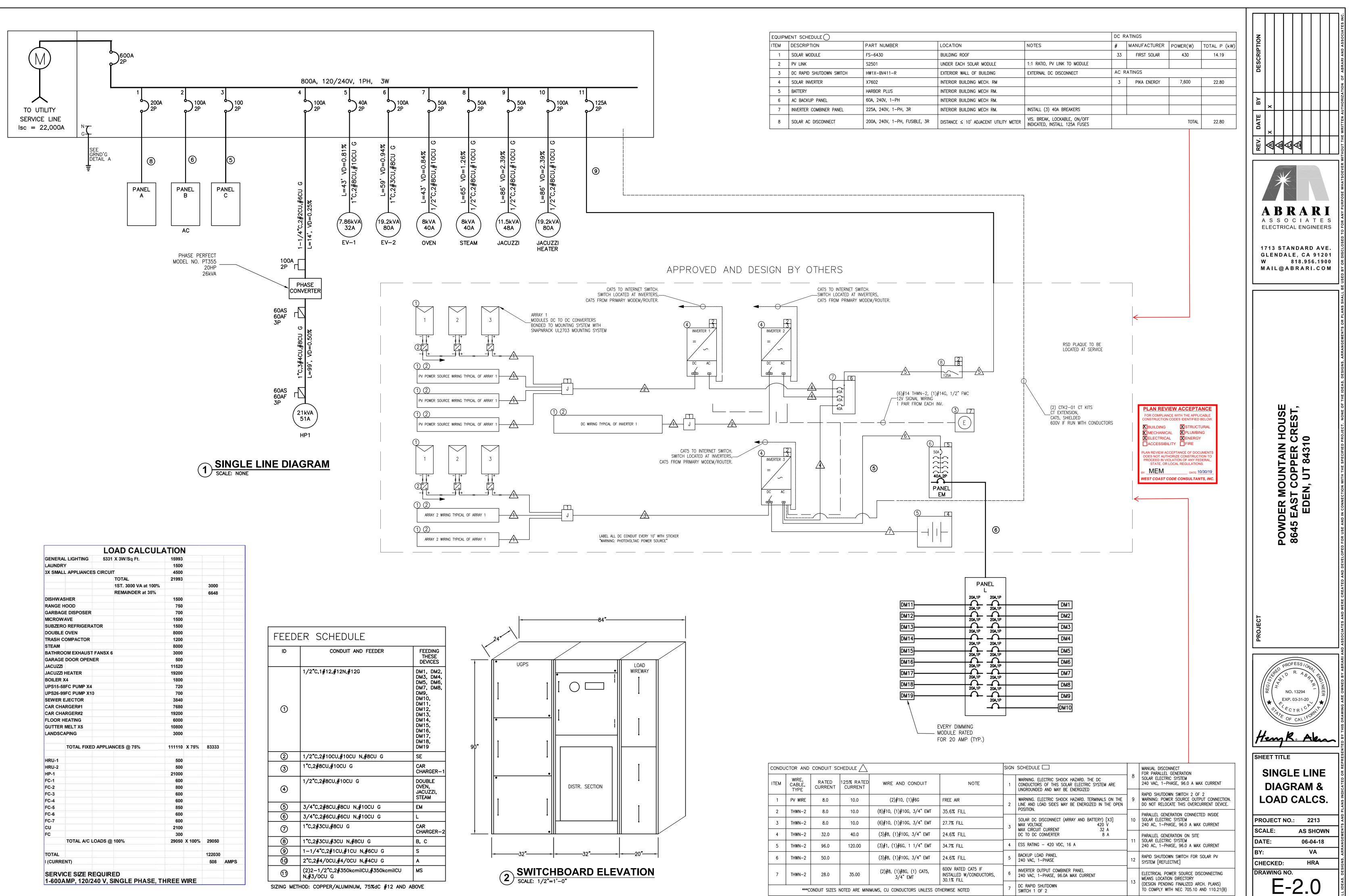
- CONDUITS OUTSIDE THE BUILDING SHALL BE RIGID STEEL STANDARD WEI DIPPED GALVANIZED THREADED AT BOTH ENDS OR EMT WHERE APPLICAB
- 2. UNDERGROUND CONDUITS IF ANY SHALL BE PVC SCHEDULE 40.
- . THE WIRING CAN BE ROMEX WHERE PERMITTED BY LOCAL JURISDICTION. CONDUITS INSIDE THE BUILDING SHALL BE ELECTRICAL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

GREEN BLDG. NOTE

- 1. 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

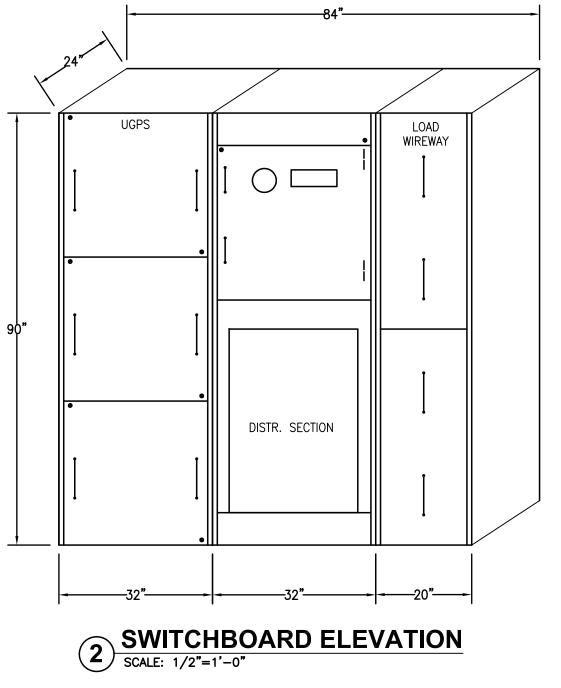
MATERIAL

	INSTALLATION	ELECTRICAL CODE	LEGEND OF SYMBOLS	
DT	1. 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	1. PROVIDE A GROUNDING SYSTEM FOR A SEPARATE STRUCTURE PER CEC 250-32(B).	SYMBOL DESCRIPTION	
	OBSTRUCTIONS, PRESERVE HEAD ROOM, KEEP OPENINGS AND PASSAGE WAYS CLEAR AND MEET ALL STRUCTURAL CODE REQUIREMENTS. CODE-SIZED PULL BOXES SHALL BE	 2. PROVIDE WORKING CLEARANCES @ NEW & EXISTING EQUIPMENT. CEC ART. 110-26. 		
THER	INSTALLED IN RUNS OF OVER 100 FEET OR MORE THAN 4 BENDS. 2. SUPPLY AND INSTALL ALL SUPPORTS AND BRACING NECESSARY FOR THE PROPER	3. GROUNDING ELECTRODE CONDUCTOR INSTALLATION SHALL COMPLY WITH CEC ART.250-64.	A-FIXTURE DESIGNATION a-SWITCH DESIGNATION	
OR MC AGE	INSTALLATION OF THE EQUIPMENT. 3. ALL EXPOSED CONDUIT SHALL BE INSTALLED AT RIGHT ANGLE TO ROOM OR STRUCTURE	4. GROUNDING ELECTRODE CONDUCTOR ENCLOSURE SHALL COMPLY WITH CEC, ART.250-64(E)	3a 3- CIRC. NO. (SEE PANEL) SWITCHED OR GRD HOT LEG CONDULT RUN CONCEALED IN WALL OR CELLING	
)N A	OR ALONG EXPOSED BEAMS. CONDUITS SHALL BE SUPPORTED FROM BUILDING STRUCTURE WITH APPROVED PIPE HANGERS.	5. GROUNDING ELECTRODE CONDUCTOR CONNECTION TO THE ELECTRODE SHALL COMPLY WITH CEC 250-70.	CROSS LINES INDICATE NO. OF #12 COPPER	
ALL	4. ALL PULL BOXES AND ALL JUNCTION BOXES MUST BE ACCESSIBLE AFTER THE CONSTRUCTION IS COMPLETE, ESPECIALLY IN CONCEALED CONDUIT INSTALLATIONS.	6. COMPLY WITH CEC ART 670 FOR INSTALLATION OF INDUSTRIAL MACHINERY.	WIRES EXCLUDING GROUND CONDUCTORS WHERE REQ'D (1/2" CONDUIT U.O.N)	DATE
0	FINISH FOR ALL EXPOSED J-BOXES AND PULL BOXES SHALL BE PER INTERIOR DESIGN. 5. ALL CONDUITS ARE SIZED TO MEET THE REQUIREMENT OF CEC TABLE 3A, "MAXIMUM	7. METHOD OF GROUNDING OF ALL TRANSFORMERS SHALL COMPLY WITH CEC, ART.250-30.		
	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.	8. GROUND FAULT PROTECTION @ SERVICES SHALL BE PROVIDED PER CEC, ART.230-95.	CONDUIT RUN IN FLOOR OR U.G. CONDUIT RUN EXPOSED	
RES	6. THE ENTIRE ELECTRICAL INSTALLATION SHALL BE GROUNDED AS SHOWN AND AS REQUIRED BY ALL APPLICABLE CODES AND THE SERVING UTILITY. NO CONDUIT SHALL	9. CONDUIT BURIAL DEPTH PER CEC TABLE 300-5	GROUND CONNECTION	
RATED AS	BE USED AS A GROUND, EXCEPT FOR LIGHTING CIRCUIT.	10. BONDING FOR CIRCUITS OF OVER 250 VOLTS TO GROUND SHALL COMPLY WITH CEC, ART.250-97. NOTE THAT STANDARD LOCK NUTS ARE NOT PERMITTED IN THE INSTALLATION OF THE RACEWAY.		
	7. 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	11. TORQUEING OF TERMINATIONS SHALL BE IN ACCORDANCE WITH THE	PANEL MOUNTED CIRCUIT BREAKER	
' .	WIRE. SAME APPLIES TO FLEXIBLE CONDUITS EVEN IF UL LABELED FOR GROUND, UNLESS USED IN LIGHTING CIRCUITS.	EQUIPMENT LABEL AND PRIOR OF TORQUE IS REQUIRED PRIOR TO FINAL. CEC, ART.110 $-3(B)$.	OR PANEL MOUNTED FUSED SWITCH	A B R A R A S S O C I A T E
S NO. 8 AND	 PROVIDE FIRE PROOFING FOR PENETRATIONS THROUGH RATED WALLS AND FLOORS. ALL CUTTING AND PATCHING REQUIRED FOR INSTALLATION OF THE ELECTRICAL WORK 	12. ALL EQUIPMENT SHALL BE LISTED & LABELED BY AN APPROVED TESTING AGENCY. TESTING BY AN APPROVED TESTING LABORATORY WILL BE REQUIRED BEFORE FINAL APPROVAL IS GRANTED.	ALL SWITCHES (36" MIN TO 48" MAX AFF, SEE NOTE1)	ELECTRICAL ENGINEE
	SHALL BE DONE BY THIS CONTRACTOR. DO NOT CUT OR DRILL STRUCTURAL MEMBERS WITHOUT WRITTEN PERMISSION OF THE STRUCTURAL ENGINEER. ALL CUTTING AND	13. PROVIDE AN EQUIPMENT GROUNDING CONDUCTOR FOR ALL CIRCUITS PER CEC, ART.250-110 AND ART.250-118.	S SINGLE POLE SWITCH	1713 STANDARD A
OR A	PATCHING SHALL BE NEAT, AND PATCHING SHALL MATCH ADJACENT SURFACE AS TO TEXTURE AND FINISH. ALL SURFACE SHALL BE REPLACED IN KIND.	14. GROUNDING ELECTRODE SYSTEM SHALL COMPLY WITH CEC,	S4 FOUR WAY SWITCH	GLENDALE, CA 91 W 818.956.1
A S	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 TIGHT.	ART.250-50. 15. BONDING SHALL COMPLY WITH CEC 250, PART 5.	D DIMMER SWITCH	MAIL@ABRARI.C
ES	11. DIMENSIONS SHOWN ON OUTLET BOXES SHALL BE FROM THE FINISHED FLOOR TO THE CENTER OF THE BOX.	16. THE CONTRACTOR SHALL PROVIDE TO THE CITY THE AIC VALUE AND THE NOMINAL CIRCUIT VOLTAGE SUPPLIED TO THE SERVICE BY THE	D3 THREE WAY DIMMER SWITCH DISCONNECT SWITCH, FUSED	
	12. FLUORESCENT FIXTURES SHALL BE SUPPORTED FROM STRUCTURE ABOVE.	ELECTRICAL UTILITY IN THE FORM OF LETTER THAT SHALL BE WRITTEN UPON THE ELECTRICAL UTILITY'S LETTERHEAD. A COPY OF THIS SHALL BE PLACED ON THE PLAN.	DISCONNECT SWITCH, FUSED	
SIZES PLASTER	13. ALL PENETRATION THROUGH ROOF SHALL BE FLASHED AND COUNTER FLASHED TO MAKE WATER-TIGHT,	17. THE ELECTRICAL EQUIPMENT SHALL BE RATED FOR THE AVAILABLE FAULT	MAGNETIC MOTOR STARTER	
FOR	14. PROVIDE A MANUAL DISCONNECTING MEANS AT MOTOR FOR ALL MOTORS NOT WITHIN SIGHT OF THE SERVING PANEL OR THEIR DISCONNECT.	CURRENT AS SPECIFIED IN THE SINGLE LINE DIAGRAM NOTES PER CEC, ART.110-9.		
NS 3R	15. INSTALL BLANK PLATES AS REQUIRED TO CLOSE OPENINGS IN SWITCHBOARDS OR PANELS WHERE EQUIPMENT HAS BEEN REMOVED.	18. ISOLATED GROUNDING CONDUCTORS SHALL TERMINATE AT THE SERVICE. CEC, ART.250-96(B).	SWITCHBOARD	
FUSES	16. ELECTRICAL IDENTIFICATION: PROVIDE NAMEPLATES FOR SWITCHBOARDS, PANELBOARDS,	19. ALARM SYSTEMS AND ELECTRIC SIGNS SHALL BE ON A SEPARATE PLAN. ART.210–19(A).	TELEPHONE BACKBOARD	
	DISCONNECT SWITCHES, CONTACTORS/RELAYS, AND TERMINAL CABINET/BACKBOADS, MOTOR CONTROLLERS, INDIVIDUALLY-MOUNTED ANY OTHER CONTROL DEVICE OR MAJOR ITEMS OF ELECTRICAL EQUIPMENT.	20. DERATING OF CONDUCTORS WILL APPLY PER CEC, ART.310–15(B) (2) (A) PERMIT.		
DR	17. NAMEPLATES SHALL BE BLACK-ON-WHITE LAMINATED PLASTIC,	21. A 125V RECEPTACLE (GFCI PROTECTED & WP) IS REQUIRED WITHIN 25 FEET	HP PUSH BUTTON ALL RECEPTACLES AT 15" MIN TO 48" MAX AFF.	
	ATTACHED WITH MACHINE SCREWS. LETTERING SHALL BE 1/4" HIGH MINIMUM, CORRESPONDING TO THE DESIGNATION (OR ADDITIONAL	OF ROOF MOUNTED EQUIPMENT. CEC, ART.210-63, ART. 210-8(B). 22. COMMUNICATION & DATA CONDUCTORS RUN IN CONDUIT OR OTHER	MINIMUM DIMENSION IS MEASURED FROM THE BOTTOM OF THE BOX AND MAXIMUM IS	
	INFORMATION) SHOWN. COLOR CODE ALL WIRE WITH INSULATION/JACKET (FACTORY-APPLIEDO COLOR FOR PHASE IDENTIFICATION (CONTINUOUS FOR CIRCUIT FROM OUTLET-TO OUTLET,	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.	MEASURED FROM THE TOP OF THE BOX.	USE EST,
	PULL BOX, OR CABINET) AS FOLLOWS:	23. BREAKERS USED AS SWITCHES IN LIGHTING SYSTEMS SHALL BE	GROUND DUPLEX RECEPTACLE (15A)	HOL HOL
MA HOWN. SKETED	SYSTEM VOLTAGE	MARKED"SWD" PER CEC, ART.240-83(D). 25. ELECTRICAL CONTRACTOR TO PREPARE CONDUITS AND BACK BOXES, SUPPORT, ETC. FOR FIRE ALARM SYSTEM INSTALLATION.	GFCI GROUND FAULT CIRCUIT INTERRUPTER DOUBLE DUPLEX RECEPTACL	131 RIN
JR OR	PHASE <u>208Y/120</u> <u>480Y/277</u> A BLACK YELLOW B RED BROWN		GFCI GROUND FAULT CIRCUIT INTERRUPTER DOUBLE DUPLEX RECEPTACL	
AT	C BLUE ORANGE NEUTRAL WHITE WHITE		AFCI ARC FAULT CIRCUIT INTRRUPTER RECEPTACLE	
SHOWN.	GROUND GREEN GREEN		USB GEOUND DUPLEX RECEPTACLE WITH USB CHARGER (15A)	ST SEN
OWN,	18. LIGHT FIXTURE IN CONTACT WITH INSULATION TO BE U.L. LISTED FOR THERMAL BARRIER OR PROVIDE 3" MINIMUM CLEARANCE.	ABBREVIATIONS	D DEDICATED RECEPTACLE (20A)	EAS EDI
ERIOR	19. PANEL CIRCUIT DIRECTORY TO COMPLY WITH SECT. 408.4, CEC.		SWITCHED RECEPTACLE	145
, OR	20. W.P. COVER OF OUTLETS TO COMPLY WITH SECT. 406.8(B)(1), CEC.	WP WEATHER PROOF	FLOOR MOUNTED RECEPTACLE	
		C.O. CONDUIT ONLY	CEILING MOUNTED RECEPTACLE	
_E)R	START-UP	A/C AIR CONDITIONING	Image: Simplex Receptable Image: Junction Box	
DR DN OR	1. TEST THE ENTIRE WIRING SYSTEM FOR SHORT CIRCUITS, GROUNDS AND	CKT CIRCUIT 	Image: Solution Box Image: Soluti	
	INSULATION RESISTANCE BETWEEN CONDUCTORS AND TO GROUND.	GFCI GROUND FAULT CIRCUIT INTERRUPTER	TELEPHONE OUTLET (+18 U.O.N.)	
:	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.	HP HORSEPOWER	TELEPHONE CLG. MOUNTED OUTLET	ECT
ΓH AND	3. CHECK VOLTAGE AMPLITUDE AND BALANCE BETWEEN PHASES FOR LOADED AND UNLOADED CONDITIONS.	LTG LIGHTING NIC NOT IN CONTRACT	Image: Intercom outlet	
	4. SET THE OVERLOAD HEATERS OF INDIVIDUAL MOTORS ACCORDING TO SERVICE,	NIC NOT IN CONTRACT NTS NOT TO SCALE		
PE)	CODE AND MANUFACTURER'S REQUIREMENT. 5. CHECK AND CORRECT THE ROTATION OF ALL MOTORS.	NL UNSWITCHED NIGHT LIGHT	$\Delta \qquad \text{DATA (CAT 6) OUTLET (+18" U.O.N.)}$	D PROFESS/ON
E ING RK	6. ALL TESTS TO BE PERFORMED IN PRESENCE OF THE OWNER. SUBMIT THE	PB PULL BOX	DATA (CAT 6) CLG. MOUNTED OUTLET	R. ABR F
	REPORTS TO THE ENGINEER FOR REVIEW.		DATA (CAT 6) FLR. MOUNTED OUTLET	$ \begin{pmatrix} \begin{pmatrix} \Theta \\ \Theta \\ \Theta' \end{pmatrix} \begin{pmatrix} \vec{x} & \gamma \\ NO. 13294 \end{pmatrix} \\ EXP. 03-31-20 \end{pmatrix} $
		U.O.N. UNDERGROUND UNLESS OTHERWISE NOTED	DUPLEX DATA (CAT 6) OUTLET (+18" U.O.N.)	¢A CTRICP
	RECEPT. MOUNTING HEIGHT	AHJ AUTHORITY HAVING JURISDICTION	SFD SMOKE FIRE DAMPER	OF CALIFO
		- VOC OPEN CIRCUIT VOLTAGE	EQUIPMENT	Henry R. Ale
	SWITCHES, RECEP OUTLET, THERMOSTAT, ETC	Isc SHORT CIRCUIT CURRENT	S SMOKE DETECTOR	SHEET TITLE
		A AMPERES P POLE	SO SMOKE DETECTOR/CARBON MONOXIDE DETECTOR	
		B.C BARE COPPER	PROJECT SCOPE	NOTES &
		COND CONDUIT	1. NEW SINGLE FAMILY HOME	SYMBOLS
		C CONDUIT	PLAN REVIEW ACCEPTANCE	PROJECT NO.: 2213
		CU COPPER AL ALUMINUM	FOR COMPLIANCE WITH THE APPLICABLE CONSTRUCTION CODES IDENTIFIED BELOW.	SCALE: NONE
	7 24 MAX 7	EGC EQUIPMENT GROUNDING CONDUCTOR	MECHANICAL PLUMBING	DATE: 06-04-18
		N.E.C. NATIONAL ELECTRICAL CODE	PLAN REVIEW ACCEPTANCE OF DOCUMENTS DOES NOT AUTHORIZE CONSTRUCTION TO	BY: VA CHECKED: HRA
		C.E.C. CALIFORNIA ELECTRICAL CODE	DOES NOT AUTHORIZE CONSTRUCTION TO PROCEED IN VIOLATION OF ANY FEDERAL, STATE, OR LOCAL REGULATIONS.	DRAWING NO.
			BY: MEM DATE: 10/30/19	E-1.0



3X SMAL	L APPLIANCES	CIRCUIT	4500			
		TOTAL	21993			
		1ST. 3000 VA at 1	100%		3000	
		REMAINDER at 3	5%		6648	
DISHWAS	SHER		1500			
RANGE H	IOOD		750			
GARBAG	E DISPOSER		700			
MICROW	AVE		1500			
SUBZER	O REFRIGERAT	OR	1500			
DOUBLE	OVEN		8000			
TRASH C	OMPACTOR		1200			
STEAM			8000			
BATHRO	OM EXHAUST I	FANSX 6	3000			
GARAGE	DOOR OPENE	R	500			
JACUZZI			11520			
JACUZZI	HEATER		19200			
BOILER)	X4		1800			
UPS15-58	BFC PUMP X4		720			
UPS26-99	FC PUMP X10		700			
SEWER B	EJECTOR		3840			
CAR CHA	ARGER#1		7680			
CAR CHA	ARGER#2		19200			
FLOOR H	IEATING		6000			
GUTTER	MELT X5		10800			
LANDSC	APING		3000			
	TOTAL FIXED	APPLIANCES @ 75%	111110	X 75%	83333	
HRU-1			500			
HRU-2			500	-		
HP-1			21000	-		
FC-1			600			
FC-2			800			
FC-3			600			
FC-4			600			
FC-5			850			
FC-6			600			
FC-7			600			
CU			2100			
FC			300			
	TOTAL A/C LO	DADS @ 100%		X 100%	29050	
TOTAL					122030	
	NT)				508	AMPS

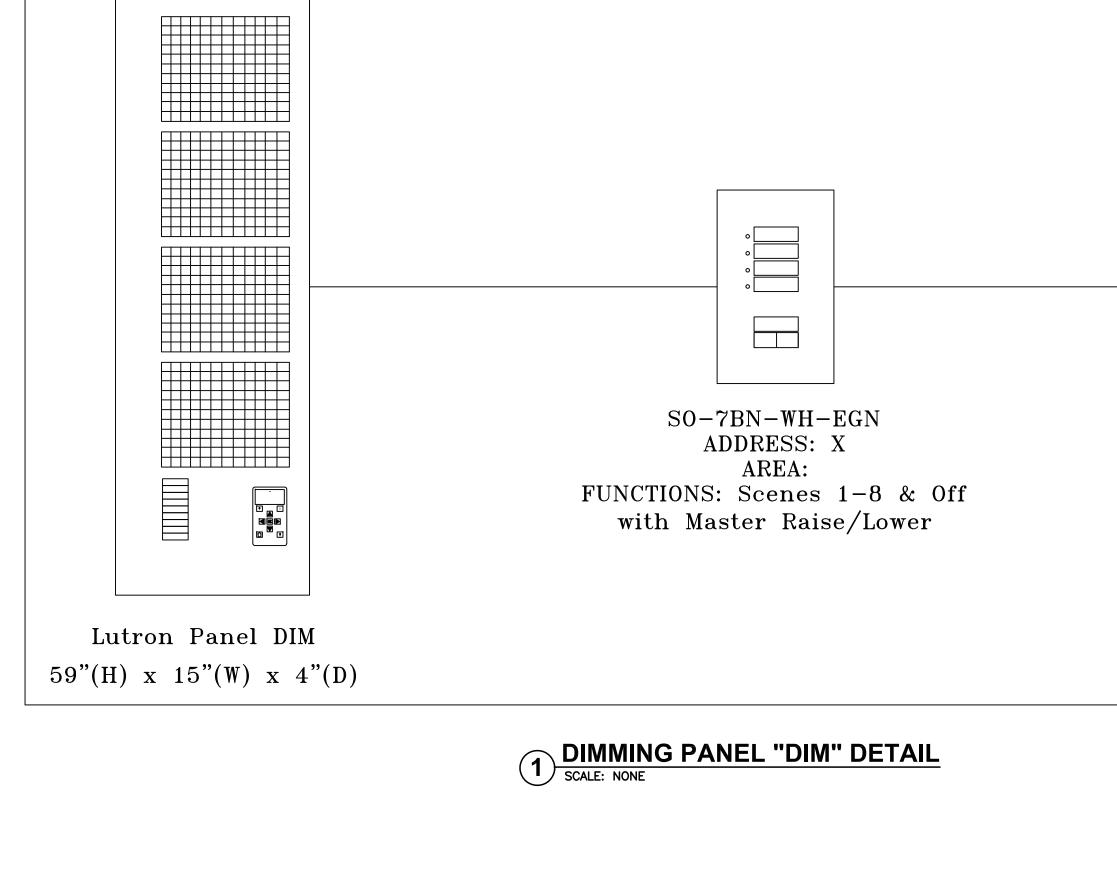
ID	CONDUIT AND FEEDER	FEEDING THESE
		DEVICES
1	1/2*C,1#12,#12N,#12G	DM1, DM2, DM3, DM4, DM5, DM6, DM7, DM8, DM9, DM10, DM11, DM12, DM13, DM14, DM15, DM16, DM16, DM17, DM18, DM19
2	1/2"C,2#10CU,#10CU N,#8CU G	SE
3	1"C,2#8CU,#10CU G	CAR CHARGER-1
4	1/2"C,2#8CU,#10CU G	DOUBLE OVEN, JACUZZI, STEAM
5	3/4"C,2#8CU,#8CU N,#10CU G	EM
6	3/4"C,2#6CU,#6CU N,#10CU G	L
7	1"C,2#3CU,#8CU G	CAR CHARGER-2
8	1"C,2#3CU,#3CU N,#8CU G	В, С
9	1-1/4"C,2#1CU,#1CU N,#6CU G	S
10	2"C,2#4/0CU,#4/0CU N,#4CU G	A
1)	(2)2–1/2 [°] C,2#350kcmilCU,#350kcmilCU N,#3/0CU G	MS



DM11
DM12
DM13
DM14
DM15
DM16
DM17
DM18
DM19
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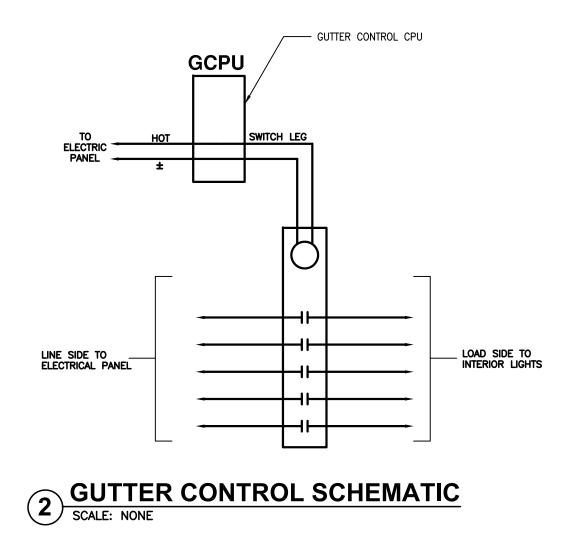
CONDU	CTOR AND	CONDUIT SC		
ITEM	WIRE, CABLE, TYPE	RATED CURRENT	125% RATED CURRENT	WIRE AND CONDUIT
1	PV WIRE	8.0	10.0	(2)#10, (1)#6G
2	THWN-2	8.0	10.0	(8)#10, (1)#10G, 3/4"EMT
3	THWN-2	8.0	10.0	(6)#10, (1)#10G, 3/4"EMT
4	THWN-2	32.0	40.0	(3)#8, (1)#10G, 3/4"EMT
5	THWN-2	96.0	120.00	(3)#1, (1)#6G, 1 1/4"EMT
6	THWN-2	50.0		(3)#8, (1)#10G, 3/4"EMT
7	THWN-2	28.0	35.00	(2)#8, (1)#8G, (1) CAT5, 3/4" EMT
	***C	onduit sizes i	NOTED ARE MINI	MUMS, CU CONDUCTORS UNLESS

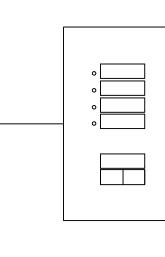
DEVICE	FEE	DER	BRANCH CIRC	UIT	TOTAL VOLTAGE
	VOLTAGE DROP	WIRE SIZE	MAX VOLTAGE DROP	WIRE SIZE	DROP
С	0%	#3CU	1.05% (CKT 13)	#12	1.05%
MS	0%	(2)#350kcmilCU	2.37% (TAP 5)	#2CU	2.37%
A	0.21%	#4/0CU	2.11% (CKT 14)	# 12	2.31%
В	0.38%	#3CU	0.54% (CKT 18)	# 12	0.92%
S	0.33%	#1CU	-	-	0.33%
EM	0.63%	#8CU	2.33% (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%

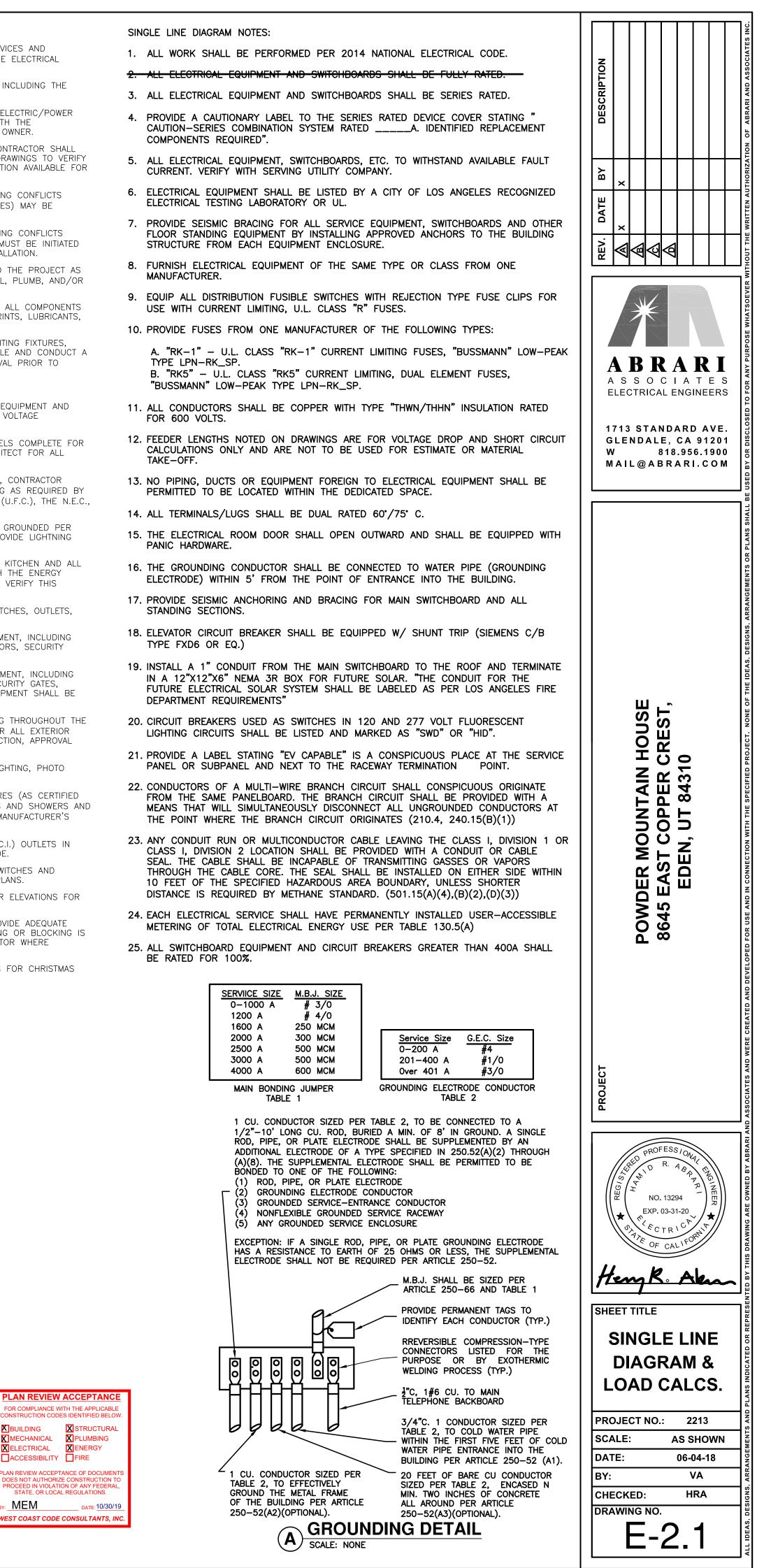


SINGLE FAMILY ELECTRICAL NOTES:

- 1. CONTRACTOR SHALL PERFORM ALL WORK IN CONFORMANCE WITH THE PRODUCTS, DEVICES AND EQUIPMENT AS DESCRIBED IN THE "LIGHTING & ELECTRICAL LEGEND", AND PER THESE ELECTRICAL NOTES.
- 2. CONTRACTOR SHALL BE RESPONSIBLE FOR SECURING ALL ELECTRICAL PERMITS, AND INCLUDING THE COST OF ALL NECESSARY FEES FOR SAID PERMITS IN THE BID.
- 3. 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.
- 4. 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.
- 5. 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.
- 6. 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.
- 8. 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, ETC.
- 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.
- 11. 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, ETC.
- 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.
- 22. 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 LOCATIONS.
- 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 LIGHTS.







	Α													
		ITING FL FROM M			BUS AN	240/120 MPS 225 NL 100%		W		MAIN	22,000 BKR MLO STANDARD			
ł	СКТ	СКТ				LOAD	KVA	СКТ	СКТ				LOAD	KVA
	#	BKR	CIRCUIT DESC	CRIPTION		A	В	#	BKR	CIRCUIT DESC	CRIPTION		A	В
1	1	20/1	FREEZER			1.50		2	20/1	FOYER FAN,	REC.		1.15	1
1	3	20/1	REC., SHADE				0.77	4	20/1	BATHROOM R				0.18
1	5	20/1		SHADE WIND	OW	1.31		6	20/1	GARAGE REC.	•		0.54	
	7	20/1	DINING PATIC			0.05	0.54	8	20/1	HOOD FAN			1 00	0.80
	9 11	20/1 20/1	REC., SHADE	REC., SHADE		0.95	0.95	10 12	20/1 20/1	DISHWASHER			1.20	0.87
1 1 1	13	20/1	KID'S ROOM			0.95	0.95	14	20/1	FAN, REC., S		w	1.46	0.07
1	15	20/1	GUEST ROOM	•			1.13	16	20/1	MA. BATHRO		••		0.18
1	17	20/1	BOOT WARME	•		0.36		18	20/1	BATHROOM R			0.54	
1	19	20/1	SD SC, SMO	KE DETECTOR		0.72	0.01	20	20/1	GUEST ROOM	REC.			1.44
1	21	20/1	SITE REC.					22	20/1	FAN, REC.			1.31	
	23	20/1	SITE REC.			0.18	0.72	24	20/1	UNFINISHED E		EC.		0.72
	25	20/1		MA. BATHROOM REC.				26	20/1	LAUNDRY, RE			1.68	0.76
1	27 29	20/1 20/1	W.H.	BASEMENT RE	°C	0.90	0.04	28 30	20/1 -/1	JACUZZI DEC	K REC.		0.00	0.36
Ľ	31	-/1	SPACE		.0.	0.30	0.00	32	-/1	SPACE	0.00	0.00		
, i	33	-/1	SPACE			0.00		34	-/1	SPACE			0.00	
1	35	-/1	SPACE				0.00	36	_/1	SPACE				0.00
	37	-/1	SPACE			0.00		38	-/1	SPACE			0.00	
	39	-/1	SPACE				0.00	40	-/1	SPACE				0.00
	41	-/1	SPACE			0.00		42	-/1	SPACE			0.00	
										TOTAL CO	DNNECTED KV	A BY PHASE	14.75	8.71
										TOTAL CON	INECTED AMP	PS BY PHASE	122.92	72.55
ĺ				CONN KVA	CALC KVA						CONN KVA	CALC KVA	-	
		LIGH	TING	0.01	0.01	(125%)			CON	ITINUOUS	0.00	0.00	(125%)	
			GEST MOTOR	0.05	0.06	(125 %)				TING	0.00	0.00	(N/A)	
			ER MOTORS	0.55	0.55	(100%)				DLING	0.00	0.00	(N/A)	
			EPTACLES	22.85	16.43	(50%>10))			CONTINUOUS	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	(125%)	
										AL KVA	23.46	17.05		
									BAL	ANCED AMPS		71.02		

1 CIRCUIT BREAKER SHALL BE AFCI RATED

		ITING FL FROM EI			BUS A	240/120 MPS 60 AL 100%)V 2P 3	W		MAIN	22,000 BKR MLO STANDARD				
	СКТ	CKT				LOAD		СКТ	CKT				LOAD		
	#	BKR	CIRCUIT DESC			A	В	#	BKR	CIRCUIT DESC	RIPTION		A	В	
1 1 1 1	1 3 5	20/1 20/1 20/1	PANEL DM1 PANEL DM2 PANEL DM3			0.23	0.04	2 4 6	20/1 20/1 20/1	PANEL DM11 PANEL DM12 PANEL DM13			0.32	0.19	1
1	7 9 11	20/1 20/1 20/1	PANEL DM4 PANEL DM5 PANEL DM6			0.07	0.17 0.16	8 10 12	20/1 20/1 20/1	PANEL DM14 PANEL DM15 PANEL DM16			0.12	0.33 0.07	1
1	13 15	20/1 20/1	PANEL DM7 PANEL DM8			0.23	0.10	14 16	20/1 20/1	PANEL DM17 PANEL DM18			0.08	0.03	
1	17 19 21	20/1 20/1 -/1	PANEL DM9 PANEL DM10 SPACE			0.23	0.13	18 20 22	20/1 -/1 -/1	PANEL DM19 SPACE SPACE			0.09	0.00	
	23 25	-/1 -/1	SPACE SPACE			0.00	0.00	24 26	-/1 -/1	SPACE SPACE			0.00	0.00	
	27 29 31	-/1 -/1 -/1	SPACE SPACE SPACE			0.00	0.00	28 30 32	-/1 -/1 -/1	SPACE SPACE SPACE			0.00	0.00 0.00	
	33 35 37	-/1 -/1 -/1	SPACE SPACE SPACE			0.00	0.00	34 36 38	-/1 -/1 -/1	SPACE SPACE SPACE			0.00	0.00	
	39	-/1	SPACE				0.00	40	-/1	SPACE				0.00	
										TOTAL CC	NNECTED KV	A BY PHASE	1.78	1.21	
										TOTAL CON	INECTED AMP	S BY PHASE	14.83	10.05	
				CONN KVA	CALC KVA	_					CONN KVA	CALC KVA			
	1 (LAR OTH REC KITC	ITING GEST MOTOR ER MOTORS EPTACLES CHEN EQUIP F BREAKER	2.98 0.00 0.00 0.00 0.00 8 SHALL	3.73 0.00 0.00 0.00 0.00 BE AFCI	- (125%) (N/A) (100%) (50%>10 (N/A) RATED))		HEA COO 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	(125%) (N/A) (N/A) (100%) (N/A) (125%)		
										AL KVA ANCED AMPS	2.98	3.73 15.54			

SE	 - _												
ROOM	A			VOLTS	240/120	JV 2P 3	5W		AIC (22,000			
		USH		BUS AM	•					BKR MLO			
FED	FROM UT	TILITY		NEUTRA	L 100%				LUGS	STANDARD			
NOTE	•												
СКТ	СКТ				LOAD) KVA	СКТ	СКТ				LOAD	KVA
#	BKR	CIRCUIT DESC	CRIPTION		A	В	#	BKR	CIRCUIT DESC	RIPTION		A	В
1	20/2	SE-1			0.96		2	20/2	SE-2			0.96	
3	Í					0.96	4	Í					0.96
									TOTAL CC	NNECTED KV	/A BY PHASE	1.92	1.92
									TOTAL CON	INECTED AMF	PS 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)	
	OTH	ER MOTORS	1.92	1.92	(100%)			COC	DLING	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)			DIVE	ERSE	0.00	0.00	(N/A)	
								MET	ERED DEMAND	0.00	0.00	(125%)	
								тот	AL KVA	3.84	4.32		
								BAL	ANCED AMPS		18.00		

	NTING F			BUS AN	240/120 MPS 125 NL 100%		5W		AIC 22,000 MAIN BKR MLO LUGS STANDARD				
скт #	CKT BKR		SCRIPTION		LOAD	KVA B	СКТ #	CKT BKR	CKT BKR CIRCUIT DESCRIPTION				KVA B
1	20/2	FC-1			0.30		2	20/2	FC-6			0.30	
3	Í				1	0.30	4	Í	Ì			Ì	0.30
5 7	20/2	FC-2			0.40	0.40	6 8	20/2	FC-7			0.30	0.30
9	20/2	FC-3			0.30	1	10	20/2	HRU-1			0.25	1
11 13	20/2	FC-4			0.30	0.30	12 14	 20/2	HRU-2			0.03	0.25
15 17	20/2	FC-5			0.43	0.30	16 18	 20/1	EF-6			0.42	0.03
19					1.00	0.43	20	20/1	EF-4				0.50
21 23	20/2	CU			1.06	1.06	22 24	-/1 -/1	SPACE SPACE			0.00	0.00
25	-/1	SPACE			0.00	1	26	-/1	SPACE			0.00	1
27 29	20/2	FC			0.15	0.15	28 30	-/1 -/1	SPACE SPACE			0.00	0.00
		ł							TOTAL CC	NNECTED KV	A BY PHASE	4.23	4.31
									TOTAL CON	INECTED AMP	S BY PHASE	35.21	35.88
			CONN KVA	CALC KVA		-				CONN KVA	CALC KVA		
	LA	HTING RGEST MOTOR	0.00 2.11	0.00 2.64	(125%) (125%)			HEA		0.00 0.00	0.00 0.00	(125%) (N/A)	
		HER MOTORS CEPTACLES	6.42 0.00	6.42 0.00	(100%) (50%>10))			DLING ICONTINUOUS	0.00 0.00	0.00 0.00	(N/A) (100%)	
		CHEN 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	8.53	9.06 37.74		

	ITING FI FROM U			BUS AN	240/120 MPS 125 NL 100%		5W		MAIN	22,000 BKR MLO STANDARD			
СКТ	CKT				LOAD	KVA	СКТ	СКТ				LOAD	, KVA
#	BKR	CIRCUIT DES	CRIPTION		A	В	#	BKR	CIRCUIT DESC	CRIPTION		A	В
1	20/2	RECEPTACLE			0.27		2	30/2	GUTTER MELT	Γ		1.08	
3			-			0.27	4			_			1.08
5 7	30/2	GUTTER MEL	I		1.08	1.08	6 8	30/2	GUTTER MELT			1.08	1.08
9	20/1	PUMP-UPS15	5-58FC		0.70	1.00	10	30/2	GUTTER MELT	F		1.08	1.00
11	20/1	PUMP-UPS26				0.80	12						1.08
13	20/1	BOILER			1.80		14	30/2	GUTTER MELT	Г		1.08	
15	20/1	CONTROLS &	PUMPS			0.00	16						1.08
17	20/1	BOILERS			0.00		18	-/1	SPACE			0.00	
19 21	-/1 -/1	SPACE SPACE			0.00	0.00	20 22	-/1 -/1	SPACE SPACE			0.00	0.00
23	-/1	SPACE				0.00	24	_/1	SPACE				0.00
25	-/1	SPACE			0.00		26	-/1	SPACE			0.00	
27	-/1	SPACE				0.00	28	-/1	SPACE				0.00
29	-/1	SPACE			0.00		30	-/1	SPACE			0.00	
									TOTAL CO	NNECTED KV	A BY PHASE	8.17	6.47
									TOTAL CON	INECTED AMP	S BY PHASE	68.08	53.9
			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	2.16	2.70	(125%)			HEA	TING	0.00	0.00	(N/A)	
		ER MOTORS	11.94	11.94	(100%)				DLING	0.00	0.00	(N/A)	
		EPTACLES	0.54	0.54	(50%>10))			CONTINUOUS	0.00	0.00	(100%)	
	KITO	HEN EQUIP	0.00	0.00	(N/A)				ERSE TERED DEMAND	0.00 0.00	0.00 0.00	(N/A) (125%)	
												(125%)	
									AL KVA	14.64	15.18		

	ITING FL FROM S	USH		BUS AN	240/120 IPS 50 L 100%)V 2P 3	W	AIC 22,000 MAIN BKR MLO LUGS STANDARD					
СКТ	СКТ				LOAD	KVA	СКТ	СКТ	СКТ			LOAD	KVA
#	BKR	CIRCUIT DES	CRIPTION		A	В	#	BKR	CIRCUIT DESCRIPTION			A	В
1 3 5	20/1 20/1 -/1	REFRIGERATO MICROWAVE SPACE	DR		1.50 0.00	1.50	2 4 6	20/1 20/1 20/1	GARAGE DOO OFFICE REC., OFFICE REC.		WO	0.86	1.36
7 9 11	20/1 -/1 -/1	FAMILY RM. SPACE SPACE	TV REC.		0.00	0.36 0.00	8 10 12	20/1 20/1 -/1	KITCHEN REC KITCHEN REC SPACE			0.36	0.38
13 15	-/1 -/1	SPACE SPACE	SPACE SPACE SPACE				14 16	-/1 -/1	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 60/2	SPACE PANEL L			1.78	0.00	24 26 28	-/1 -/1 -/1	SPACE SPACE SPACE			0.00	0.00
29	-/1	SPACE			0.00	1.21	30	-/1	SPACE			0.00	0.00
									TOTAL CC	NNECTED KV	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		
LIGHTING 2.98 3.73 LARGEST MOTOR 0.86 1.08 OTHER MOTORS 0.10 0.10 RECEPTACLES 4.22 4.22 KITCHEN EQUIP 0.00 0.00			1.08 0.10 4.22	(125%) (125%) (100%) (50%>10 (N/A)))		HEA COC NON DIVE	ITINUOUS .TING DLING ICONTINUOUS ERSE ERED DEMAND	1.50 0.00 0.00 0.00 0.00 0.00 0.00	1.88 0.00 0.00 0.00 0.00 0.00	(125%) (N/A) (N/A) (100%) (N/A) (125%)		
								TOTAL KVA 9.67 11.01 BALANCED AMPS 45.86					

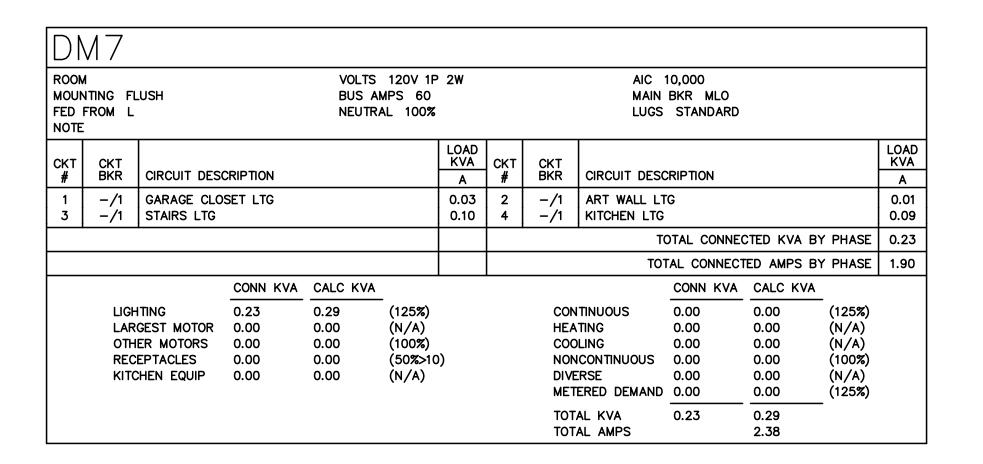
S													
	ITING FL FROM M			BUS AN	240/120 MPS 125 NL 100%		W		MAIN	22,000 BKR MLO STANDARD			
СКТ #	CKT BKR	CIRCUIT DES	CRIPTION		LOAD	KVA B	СКТ #	CKT BKR	CIRCUIT DESC	RIPTION			KVA B
1 3 5 7 9 11 13	50/2 -/1 -/1 -/1 -/1 -/1	PANEL EM SPACE SPACE SPACE SPACE SPACE			4.86 0.00 0.00 0.00	4.81 0.00 0.00	2 4 6 8 10 12 14	-/1 -/1 -/1 -/1 -/1 -/1	SPACE SPACE SPACE SPACE SPACE SPACE SPACE			0.00 0.00 0.00 0.00	0.00 0.00 0.00
15 17 19 21 23 25 27 29	-/1 -/1 -/1 -/1 -/1 -/1 -/1	SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE			0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	16 18 20 22 24 26 28 30	-/1 -/1 -/1 -/1 -/1 -/1 -/1	SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE			0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00
											A BY PHASE	4.86	4.81
	LIGHTING 2.98 3.73 LARGEST MOTOR 0.86 1.08 OTHER MOTORS 0.10 0.10 RECEPTACLES 4.22 4.22 KITCHEN EQUIP 0.00 0.00				(125%) (125%) (100%) (50%>10 (N/A)))	<u> </u>	HEA COO NON DIVE MET TOT	TOTAL CON ITINUOUS ITING ICONTINUOUS ERSE ERED DEMAND AL KVA ANCED AMPS	CONN KVA 1.50 0.00 0.00 0.00 0.00	25 BY PHASE CALC KVA 1.88 0.00 0.00 0.00 0.00 0.00 0.00 11.01 45.86	(125%) (N/A) (N/A) (100%) (N/A) (125%)	40.05

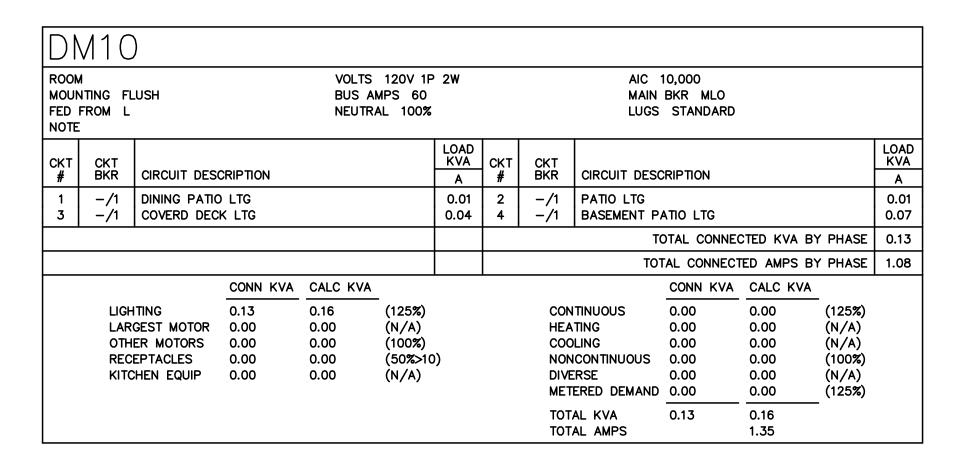
DATE BY DESCRIPTION	x					
G W	TIS S	ALE 8	L EN(DAR =, C/ 18.9	GINE CDA A91 56.1	ER VE 20 90(
				<u>-</u>		
PROJECT						
H	REG107ER		ESS/C R. 48 13294 03-31-20 CALIE CALIE			
SHE	ET TIT		NE		S	
PRC	F SCH	IEI		L C 2213		

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BY: MEM	DATE: 10/30/19
WEST COAST CODE	CONSULTANTS, INC.

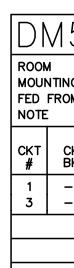
Dľ													
	NTING FL FROM L	USH		BUS AI	120V 1P MPS 60 AL 100%				MAIN	22,000 BKR MLO STANDARD			
скт #	CKT BKR		CRIPTION			LOAD KVA	скт #	CKT BKR					LOAE KVA
1 3	I -/1 BATHROOM LTG					0.12 0.07	2 4	-/1 -/1	BATHROOM L BATHROOM L				0.03
								T(OTAL CONNE	CTED KVA B	Y PHASE	0.23	
									TO [.]	TAL CONNECT	TED AMPS B	Y PHASE	1.92
			CONN KVA	CALC KVA	_					CONN KVA	CALC KVA	_	
	LARGEST MOTOR 0.00 0.0 OTHER MOTORS 0.00 0.0 RECEPTACLES 0.00 0.0			0.29 0.00 0.00 0.00 0.00	(125%) (N/A) (100%) (50%>10 (N/A)))		HEA COO NOM DIVI	ITINUOUS NTING 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	_	

D1	$\sqrt{4}$												
	NTING FL FROM L	LUSH		BUS AN	120V 1P MPS 60 AL 100%	2W			MAIN	22,000 BKR MLO STANDARD			
скт #	CKT BKR	CIRCUIT DES	CRIPTION			LOAD KVA A	СКТ #	CKT BKR	CIRCUIT DESC	CRIPTION			LOA KV
1 3	-/1 -/1	BATHROOM L KID'S ROOM				0.07 0.05	2 4	-/1 -/1	BATHROOM L BATHROOM L				0.0 0.0
									Т	OTAL CONNE	CTED KVA B	Y PHASE	0.1
									TO ⁻	TAL CONNECT	ED AMPS B	Y PHASE	1.3
			CONN KVA	CALC KVA						CONN KVA	CALC KVA	_	
	LAR OTH REC	ITING GEST MOTOR ER MOTORS EPTACLES CHEN EQUIP	0.17 0.00 0.00 0.00 0.00	0.21 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%)	
									AL KVA AL AMPS	0.17	0.21 1.72		





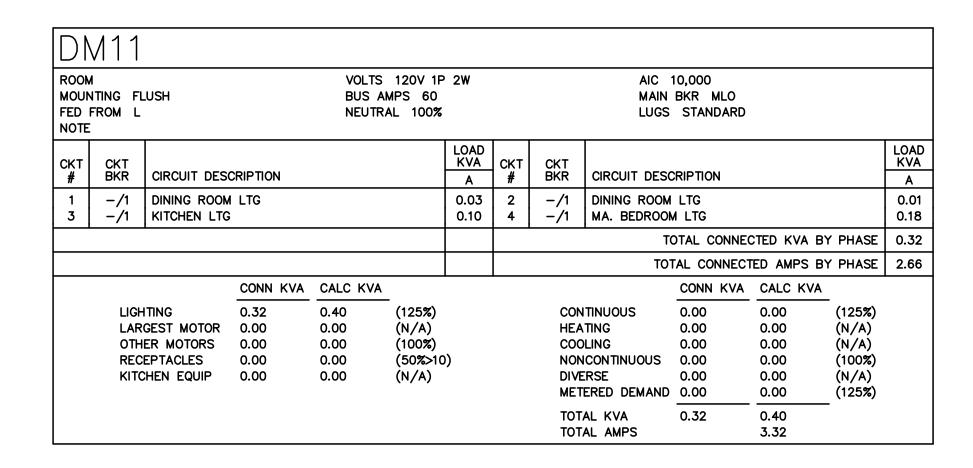
ROOM MOUNTING FED FROM NOTE CKT CH # BH 1 -3 -





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ROON MOUN FED NOTE	NTII FR(
СКТ #	
1 3	





NG FLUSH BUS AMPS						MAIN	BKR MLO			
RIPTION			LOAD KVA A	скт #	CKT BKR	CIRCUIT DESC	RIPTION			LOAD KVA A
1 BATHROOM LTG 1 KID'S BATHROOM LTG					-/1 -/1	BATHROOM L' STAIRS LTG	ſG			0.01 0.01
ł						тс	TAL CONNEC	TED KVA BY	PHASE	0.04
						тот	AL CONNECT	ED AMPS BY	' PHASE	0.34
CONN KVA	CALC KVA						CONN KVA	CALC KVA		
LIGHTING 0.04 0.05 LARGEST MOTOR 0.00 0.00 OTHER MOTORS 0.00 0.00 RECEPTACLES 0.00 0.00 KITCHEN EQUIP 0.00 0.00))		HEA COO NON DIVE MET	TING LING ICONTINUOUS IRSE ERED DEMAND AL KVA	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.05	(125%) (N/A) (N/A) (100%) (N/A) (125%)	
	CONN KVA 0.04 0.00 0.00 0.00 0.00	CRIPTION CALC KVA CONN KVA CALC KVA 0.04 0.05 0.00 0.00 0.00 0.00 0.00 0.00	BUS AMPS 60 NEUTRAL 100% CRIPTION TG DOM LTG CONN KVA CALC KVA 0.04 0.05 (125%) 0.00 0.00 (N/A) 0.00 0.00 (100%) 0.00 0.00 (50%>10	NEUTRAL 100% LOAD KVA LOAD KVA CRIPTION A TG 0.01 DOM LTG 0.01 0.01 0.01 0.01 0.01 0.04 0.05 (125%) 0.00 0.00 (N/A) 0.00 0.00 (100%) 0.00 0.00 (50%>10)	BUS AMPS 60 NEUTRAL 100% CRIPTION LOAD KVA CKT KK KK TG 0.01 2 DOM LTG 0.01 4 CONN KVA CALC KVA 0.05 0.04 0.05 (125%) 0.00 0.00 (N/A) 0.00 0.00 (100%) 0.00 0.00 (50%>10)	BUS AMPS 60 NEUTRAL 100% CRIPTION Image: Constraint of the second	BUS AMPS 60 NEUTRAL MAIN LUGS LOAD KVA CKT CKT CKT BKR CIRCUIT DESC CIRCUIT DESC TG 0.01 2 -/1 BATHROOM LTG DOM LTG 0.01 4 -/1 STAIRS LTG CONN KVA CALC KVA TOT TOT 0.04 0.05 (125%) CONTINUOUS 0.00 0.00 (N/A) HEATING 0.00 0.00 (100%) COOLING 0.00 0.00 (50%>10) NONCONTINUOUS	BUS AMPS 60 NEUTRAL 100% MAIN BKR MLO LUGS STANDARD CRIPTION LOAD KVA A CKT # CKT BKR CIRCUIT DESCRIPTION TG DOM LTG 0.01 2 -/1 BATHROOM LTG STAIRS LTG DOM LTG 0.01 4 -/1 STAIRS LTG CONN KVA CALC KVA TOTAL CONNECT CONN KVA CALC KVA CONTINUOUS 0.00 0.04 0.05 (125%) CONTINUOUS 0.00 0.00 0.00 (100%) COOLING 0.00 0.00 0.00 (50%>10) NONCONTINUOUS 0.00 0.00 0.00 (N/A) DIVERSE 0.00 METERED DEMAND 0.00 0.00 0.00 0.00	BUS AMPS 60 NEUTRAL 100% MAIN BKR MLO LUGS STANDARD CRIPTION LOAD KVA CKT KVA CKT # CIRCUIT DESCRIPTION TG DOM LTG 0.01 2 -/1 BATHROOM LTG DOM LTG 0.01 4 -/1 STAIRS LTG CONN KVA CALC KVA TOTAL CONNECTED KVA BY CONN KVA CALC KVA CONN KVA CALC KVA 0.04 0.05 (125%) CONTINUOUS 0.00 0.00 0.00 0.00 (100%) COOLING 0.00 0.00 0.00 0.00 0.00 (N/A) HEATING 0.00 0.00 0.00 0.00 0.00 (N/A) DIVERSE 0.00 0.00 0.00 0.00 0.00 (N/A) DIVERSE 0.00 0.00 0.00 0.00 0.00 (N/A) DIVERSE 0.00 0.00 0.00	BUS AMPS 60 NEUTRAL 100% MAIN BKR MLO LUGS STANDARD CRIPTION LOAD KVA CKT # CKT BKR CIRCUIT DESCRIPTION TG DOM LTG 0.01 2 -/1 BATHROOM LTG STAIRS LTG -/1 TG DOM LTG 0.01 4 -/1 STAIRS LTG -/1 CONN KVA CALC KVA VAL VAL -/1 STAIRS LTG CONN KVA CALC KVA CONN KVA CALC KVA VAL CONN KVA CALC KVA 0.04 0.05 (125%) CONTINUOUS 0.00 0.00 (N/A) 0.00 0.00 (N/A) HEATING 0.00 0.00 (N/A) 0.00 0.00 (100%) COOLING 0.00 0.00 (N/A) 0.00 0.00 (N/A) HEATING 0.00 0.00 (N/A) 0.00 0.00 (N/A) DIVERSE 0.00 0.00 (N/A) 0.00 0.00 (N/A) DIVERSE 0.00 0.00 (N/A) 0.

15												
ING FL ROM L	.USH		BUS AN	120V 1F MPS 60 AL 100%				MAIN	IO,000 BKR MLO STANDARD			
CKT BKR	CIRCUIT DESC	CRIPTION			LOAD KVA A	скт #	CKT BKR	CIRCUIT DESC	RIPTION			LOAE KVA
-/1 -/1	ENTERY EXTE				0.01 0.01	2 4	-/1 -/1	ENTERY EXTE GARAGE LTG	RIOR LTG			0.01 0.04
								т	TAL CONNEC	CTED KVA B	Y PHASE	0.07
								TOT	AL CONNECT	ED AMPS B	Y PHASE	0.61
		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	0.09 0.00 0.00 0.00 0.00 0.00	(125%) (N/A) (100%) (50%>10 (N/A)))		HEA COO NON DIVE	TINUOUS TING LING CONTINUOUS RSE 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 0.00	- (125%) (N/A) (N/A) (100%) (N/A) (125%)	
								AL KVA AL AMPS	0.07	0.09 0.76	_	

18												
ING FL ROM L	USH		BUS AN	120V 1P MPS 60 AL 100%				MAIN	I0,000 BKR MLO STANDARD			
CKT BKR	CIRCUIT DESC				LOAD KVA	скт #	CKT BKR	CIRCUIT DESC				LOAD KVA
DIVIV					A							A
-/1 20/1						2 4	20/1 -/1	GARAGE LTG SPACE				0.10 0.00
	·							T(TAL CONNEC	CTED KVA BI	r phase	0.10
								TOT	AL CONNECT	ED AMPS BY	r phase	0.87
		CONN KVA	CALC KVA			-			CONN KVA	CALC KVA		
LAR OTH REC	TING GEST MOTOR ER MOTORS EPTACLES HEN EQUIP	0.10 0.00 0.00 0.00 0.00	0.13 0.00 0.00 0.00 0.00	(125%) (N/A) (100%) (50%>10 (N/A)))		HEA COO NON DIVE	TINUOUS TING DLING ICONTINUOUS IRSE 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	0.10	0.13 1.09	•		

	<u> </u>													
ROOM	1			VOLTS	120V 1P	2W			AIC	22,000				
	ITING FL			BUS AI	MPS 60					BKR MLO				
FED I	FROM L			NEUTR	AL 100%				LUGS	STANDARD				
скт	СКТ					LOAD KVA	скт	СКТ					LOA KVA	
#	BKR	CIRCUIT DES	CRIPTION			A	#	BKR	CIRCUIT DESC	RIPTION			A	
1	-/1	BATHROOM L	.TG			0.06	2	-/1	KID'S BATHRO	DOM LTG			0.0	
3						0.02	4	-/1	FOYER LTG				0.0	
	, , , , , , , , , , , , , , , , , , , ,								T	OTAL CONNEC	CTED KVA BY	' PHASE	0.15	
									TOT	TAL CONNECT	ED AMPS BY	′ PHASE	1.26	
			CONN KVA	CALC KVA	_					CONN KVA	CALC KVA			
	LIGH	ITING	0.15	0.19	- (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%)				LING	0.00	0.00	(N/A)		
	RECEPTACLES 0.00 0.00 (50				(50%>10))			ICONTINUOUS	0.00	0.00	(100%)		
					(N/A)			DIVERSE		0.00	0.00	(N/A)		
								MET	ERED DEMAND	0.00	0.00	(125%)		
								тот	AL KVA	0.15	0.19			
								тот	AL AMPS		1.58			

	M6												
	MOUNTING FLUSH BUS AMPS FED FROM L NEUTRAL NOTE								MAIN	10,000 BKR MLO STANDARD			
скт #	CKT BKR		LOAD KVA A	скт #	CKT BKR	CIRCUIT DESC	CRIPTION			LOAD KVA A			
1 3	1 –/1 FOYER BATHROOM LTG 3 –/1 CLOSET LTG					0.03 0.03	2 4	-/1 -/1	ART WALL LT MUD ROOM L				0.04 0.06
									T	OTAL CONNEC	CTED KVA BY	Y PHASE	0.16
									TO ⁻	TAL CONNECT	ED AMPS B	Y PHASE	1.29
			CONN KVA	CALC KVA						CONN KVA	CALC KVA		
	LARGEST MOTOR 0.00 0.00 (N/A) OTHER MOTORS 0.00 0.00 (100%				(100%) (50%>10))		HEA COC NON DIVE MET TOT	ITINUOUS ITING DLING ICONTINUOUS ERSE ERED DEMAND AL KVA	0.00 0.00 0.00 0.00 0.00 0.00 0.16	0.00 0.00 0.00 0.00 0.00 0.00 0.19 1.61	(125%) (N/A) (N/A) (100%) (N/A) (125%)	

DN	N9												
	IOUNTING FLUSH BUS AMPS ED FROM L NEUTRAL 1 IOTE					2W				10,000 BKR MLO STANDARD			
скт #	BKR CIRCUIT DESCRIPTION -/1 OFFICE LTG					LOAD KVA A	скт #	CKT BKR	CIRCUIT DESC	RIPTION			LOAD KVA A
1 3	-/1 OFFICE LTG -/1 LTG					0.14 0.06	2 4	-/1 -/1	STAIRS LTG STAIRS LTG				0.02 0.01
							TOTAL CONNECTED KVA BY PHASE						
									TOT	TAL CONNECT	ED AMPS BY	PHASE	1.88
			CONN KVA	CALC KVA						CONN KVA	CALC KVA		
	LIGHTING 0.23 0.28 (125%) LARGEST MOTOR 0.00 0.00 (N/A) OTHER MOTORS 0.00 0.00 (100%) RECEPTACLES 0.00 0.00 (50%)				(125%) (N/A) (100%) (50%>10 (N/A))		HEA COO 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 0.23	0.00 0.00 0.00 0.00 0.00 0.00 0.28	(125%) (N/A) (N/A) (100%) (N/A) (125%)	
									AL AMPS	0.23	0.28 2.35		

	M12												
	NTING FL FROM L	USH		BUS A	120V 1P MPS 60 AL 100%	2W			MAIN	10,000 BKR MLO STANDARD			
скт #	CKT BKR	CIRCUIT DES	CRIPTION			LOAD KVA A	скт #	CKT BKR	CIRCUIT DESC	RIPTION			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
									Т	OTAL CONNE	CTED KVA BI	Y PHASE	0.19
									TOT	TAL CONNECT	ED AMPS B	Y PHASE	1.58
			CONN KVA	CALC KVA			-			CONN KVA	CALC KVA		
	LIGH	TING	0.19	0.24	- (125 %)			CON	ITINUOUS	0.00	0.00	- (125 %)	
		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)	
			0.00	0.00	(50%>10))				0.00	0.00	(100%)	
	KIIC	HEN EQUIP	0.00	0.00	(N/A)				ERSE ERED DEMAND	0.00 0.00	0.00 0.00	(N/A) (125 %)	
									AL KVA AL AMPS	0.19	0.24 1.97	-	

PLAN REVIEW	V ACCEPTANCE
	WITH THE APPLICABLE DES IDENTIFIED BELOW.
BUILDING	X STRUCTURAL
MECHANICAL	X PLUMBING
X ELECTRICAL	X ENERGY
	Y FIRE
DOES NOT AUTHOR PROCEED IN VIOLA	PTANCE OF DOCUMENTS NZE CONSTRUCTION TO TION OF ANY FEDERAL, CAL REGULATIONS.
BY: MEM	DATE: 10/30/19
WEST COAST COD	E CONSULTANTS, INC.

DESCRIPTION						D TO FOR ANY PURPOSE WHATSOEVER WITHOUT THE WRITTEN AUTHORIZATION OF ABRARI AND ASSOCIATES INC.
. DATE BY	× ×					HE WRITTEN AUTHOR
REV.		ন্ধথ	4			МІТНОИТ ТН
1 G W	TIBC 713 LEN	B R s o o trica stan dali a @ a b	IDAR 18.9:	91 56.1	VE. 201 900	L BE USED BY OR DISCLOSED TO FOR ANY PURPOSE WHATSOEVER
		UNTAIN HOUSE	UFFER UREO 1, UT 84310			HE SPECIFIED PROJECT. NONE OF THE IDEAS, DESIGNS, ARRANGEMENTS OR PL
						ATED AND DEVELOPED FOR USE AND IN CONNECTION WITH 1
PROJECT		-				ASSOCIATES AND WERE CREATED AND DEVELOPED FOR USE AND IN CONNECTION WITH 1
PROJECT	HEGISTER		NICE CHOO (R, A_{δ})	NAT CINC	CONEER X	NED BY THIS DRAWING ARE OWNED BY ABRARI AND ASSOCIATES AND WERE CREATED AND DEVELOPED FOR USE AND IN CONNECTION WITH THE SPECIFIED PROJECT. NONE OF THE IDEAS, DESIGNS, ARRANGEMENTS OR PLANS SHALL BE USED BY OR DISCLOSE
H	HEGISTER		NICED CF00 ISON 100 $(ESS/Q, R. 4_g)$ 13294 03-31-20	NAT CINC		
J SHE	REGISIER T		NED	No PRI CONTRACTOR	*// ~	
SHE	ET T SC			No PRI CONTRACTOR	*// ~	
SHE			NICE CH00 INDU Interview Interview Inte		*// ~S	
PRC SHE DAT BY: CHE			NEI DUI (C_{R}, A_{θ})		*// ~S	ALL IDEAS, DESIGNS, ARRANGEMENTS AND PLANS INDICATED OR REPRESENTED BY THIS DRAWING ARE OWNED BY ABRARI AND ASSOCIATES AND WERE CREATED AND DEVELOPED FOR USE AND IN CONNECTION WITH 1

DN	1	3
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וטן	VIIC)											
	NTING FL FROM L	LUSH		BUS A	120V 1F MPS 60 AL 100%				MAIN	10,000 BKR MLO STANDARD			
скт #	CKT BKR	CIRCUIT DES	CRIPTION			LOAD KVA	СКТ #	CKT BKR	CIRCUIT DESC	CRIPTION			LOAD KVA
1 3	-/1 -/1	STAIRS LTG LIVING ROOM	LTG			0.12 0.03	2 4	-/1 -/1	FAMILY MEDIA STAIRS LTG	A ROOM LTG			0.05 0.07
									T	OTAL CONNE	CTED KVA	BY PHASE	0.27
									TO.	TAL CONNEC	red Amps	BY PHASE	2.22
			CONN KVA	CALC KVA			-			CONN KVA	CALC KV	A	
	LAR OTH REC	ITING GEST MOTOR ER MOTORS EPTACLES CHEN 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 MET	ITINUOUS ATING DLING ICONTINUOUS ERSE FERED DEMAND TAL KVA	0.00 0.00 0.00 0.00 0.00 0.00 0.27	0.00 0.00 0.00 0.00 0.00 0.00 0.33	(125%) (N/A) (N/A) (100%) (N/A) (125%)	
									AL AMPS		2.78		

DM16 VOLTS 120V 1P 2W BUS AMPS 60 AIC 10,000 MAIN BKR MLO ROOM MOUNTING FLUSH FED FROM L NEUTRAL 100% LUGS STANDARD NOTE LOAD KVA CKT CKT A # CKT CKT CIRCUIT DESCRIPTION LOAD KVA CKT CKT # BKR CIRCUIT DESCRIPTION Α 0.05 2 -/1 MASTER BEDRM. LTG 0.00 4 -/1 SPACE 1-/1MASTER BEDRM. LTG3-/1SPACE 0.01 0.00 TOTAL CONNECTED KVA BY PHASE 0.07 TOTAL CONNECTED AMPS BY PHASE 0.55 CONN KVA CALC KVA CONN KVA CALC KVA CONTINUOUS 0.00 0.00 0.00 0.07 LIGHTING 0.08 (125%) 0.00 (125%) LARGEST MOTOR 0.00 OTHER MOTORS 0.00 RECEPTACLES 0.00 KITCHEN EQUIP 0.00 0.00 0.00 0.00 0.00 (N/A) (100%) HEATING 0.00 (N/A) (N/A) (100%) COOLING 0.00 NONCONTINUOUS 0.00 DIVERSE 0.00 (50%>10) 0.00 (N/A) 0.00 0.00 (N/A) METERED DEMAND 0.00 (125%) 0.08 0.68 TOTAL KVA 0.07 TOTAL AMPS

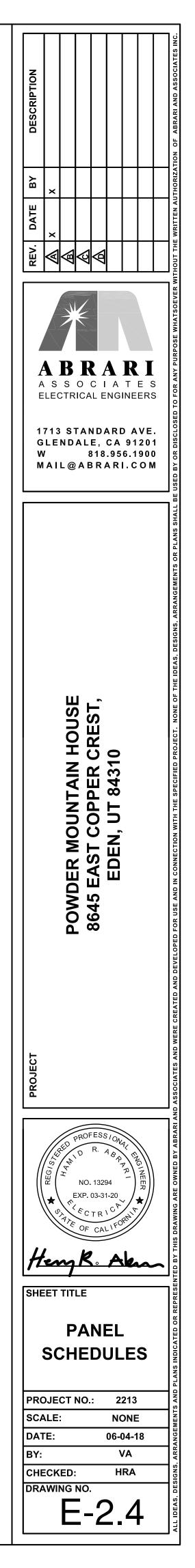
	M19												
	NTING FL FROM L	USH		BUS A	120V 1P MPS 60 AL 100%				MAIN	10,000 BKR MLO STANDARD			
скт #	CKT BKR	CIRCUIT DES	CRIPTION			LOAD KVA A	СКТ #	CKT BKR		CRIPTION			LOAD KVA A
1 3	-/1 -/1	SITE LTG SPACE				0.06 0.00	2 4	-/1 -/1	SITE LTG SPACE				0.03 0.00
									T	OTAL CONNE	CTED KVA B	Y PHASE	0.09
									TO	TAL CONNECT	TED AMPS B	Y 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)	
		ER MOTORS	0.00	0.00	(100%)				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)					0.00	0.00	(N/A)	
								MEI	ERED DEMAND	0.00	0.00	_ (125%) _	
									AL KVA	0.09	0.11		
								тот	AL AMPS		0.94		

)	М1	4												
	NTING FROM		JSH		BUS AN	120V 1P MPS 60 NL 100%				MAIN	I0,000 BKR MLO STANDARD			
⟨T ŧ	CKT BKR		CIRCUIT DESC	CRIPTION			LOAD KVA A	скт #	CKT BKR	CIRCUIT DESC	RIPTION			LOAD KVA A
5	-/1 LIVING ROOM LTG -/1 SPACE						0.20 0.00	2 4	-/1 -/1	MASTER BEDF ART WALL LT				0.10 0.02
		-								тс	OTAL CONNEC	TED KVA B	r phase	0.33
										тот	AL CONNECT	ED AMPS BY	r phase	2.71
				CONN KVA	CALC KVA						CONN KVA	CALC KVA	_	
	LIGHTING 0.33 0.41 (125%) LARGEST MOTOR 0.00 0.00 (N/A) OTHER MOTORS 0.00 0.00 (100%)					(100%) (50%>10))		HEA COO NON DIVE	TINUOUS TING ILING ICONTINUOUS TRSE 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 0.00	(125%) (N/A) (N/A) (100%) (N/A) (125%)	
										AL KVA AL AMPS	0.33	0.41 3.39		

D	M17	7											
	NTING FL FROM L			BUS A	120V 1F MPS 60 AL 100%				MAIN	I0,000 BKR MLO STANDARD			
скт #	CKT BKR	CIRCUIT DES	CRIPTION			LOAD KVA A	скт #	CKT BKR	CIRCUIT DESC	RIPTION			LOAD KVA A
1 3	-/1 BATHROOM LTG -/1 SPACE					0.06 0.00	2 4	-/1 -/1	LOWER FOYER SPACE	R LTG			0.02 0.00
									TC	DTAL CONNE	CTED KVA B	Y PHASE	0.08
									TOT	AL CONNECT	ED AMPS B	Y PHASE	0.64
			CONN KVA	CALC KVA						CONN KVA	CALC KVA		
	LIGH	ITING	0.08	0.10	- (125 %)			CON	TINUOUS	0.00	0.00	- (125 %)	
		GEST MOTOR	0.00	0.00	(N/A)				TING	0.00	0.00	(N/A)	
		ER MOTORS	0.00	0.00	(100%)					0.00	0.00	(N/A)	
		EPTACLES HEN EQUIP	0.00 0.00	0.00 0.00	(50%>10 (N/A)))			CONTINUOUS	0.00 0.00	0.00 0.00	(100 %) (N/A)	
			0.00	0.00					ERED DEMAND		0.00	(125%)	
									AL KVA AL AMPS	0.08	0.10 0.80	-	

	M15)											
ROOM	•				120V 1P	2W				10,000			
		.USH		· ·	MPS 60					BKR MLO			
NOTE	FROM L			NEUTR	AL 100%				LUGS	STANDARD			
					LOAD KVA								LOA
CKT #	CKT BKR	CIRCUIT DES					CKT BKR	CIRCUIT DESC					
#						A	#						A
1	-/1	MA. BATHRO			0.02 2 $-/1$ MA. BATHROOM LTG							0.0	
3 –/1 MA. BATHROOM LTG						0.05	4	-/1	MA. BATHROO	DM LTG			0.0
									т	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		-
	LIGH	ITING	0.12	0.15	- (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	0.12	0.15		
								тот	AL AMPS		1.23		

D	M18)											
	NTING FL FROM L	USH		BUS A	120V 1F MPS 60 AL 100%				MAIN	AIC 10,000 MAIN BKR MLO LUGS STANDARD			
скт #	CKT BKR	CIRCUIT DES			LOAD KVA	скт #	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
	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,								Т	OTAL CONNE	CTED KVA B	r phase	0.03
									TOT	TAL CONNEC	TED AMPS B	r phase	0.24
			CONN KVA	CALC KVA						CONN KVA	CALC KVA		
	LIGH	TING	0.03	0.04	(125 %)			CON	ITINUOUS	0.00	0.00	- (125 %)	
		GEST MOTOR	0.00	0.00	(N/A)				TING	0.00	0.00	(N/A)	
		ER MOTORS EPTACLES	0.00 0.00	0.00 0.00	(100%) (50%>10	n)			ICONTINUOUS	0.00 0.00	0.00 0.00	(N/A) (100%)	
		HEN EQUIP	0.00	0.00	(N/A)	<i>'</i>)			ERSE	0.00	0.00	(N/A)	
								MET	ERED DEMAND	0.00	0.00	(125%)	
									AL KVA AL AMPS	0.03	0.04 0.30	-	

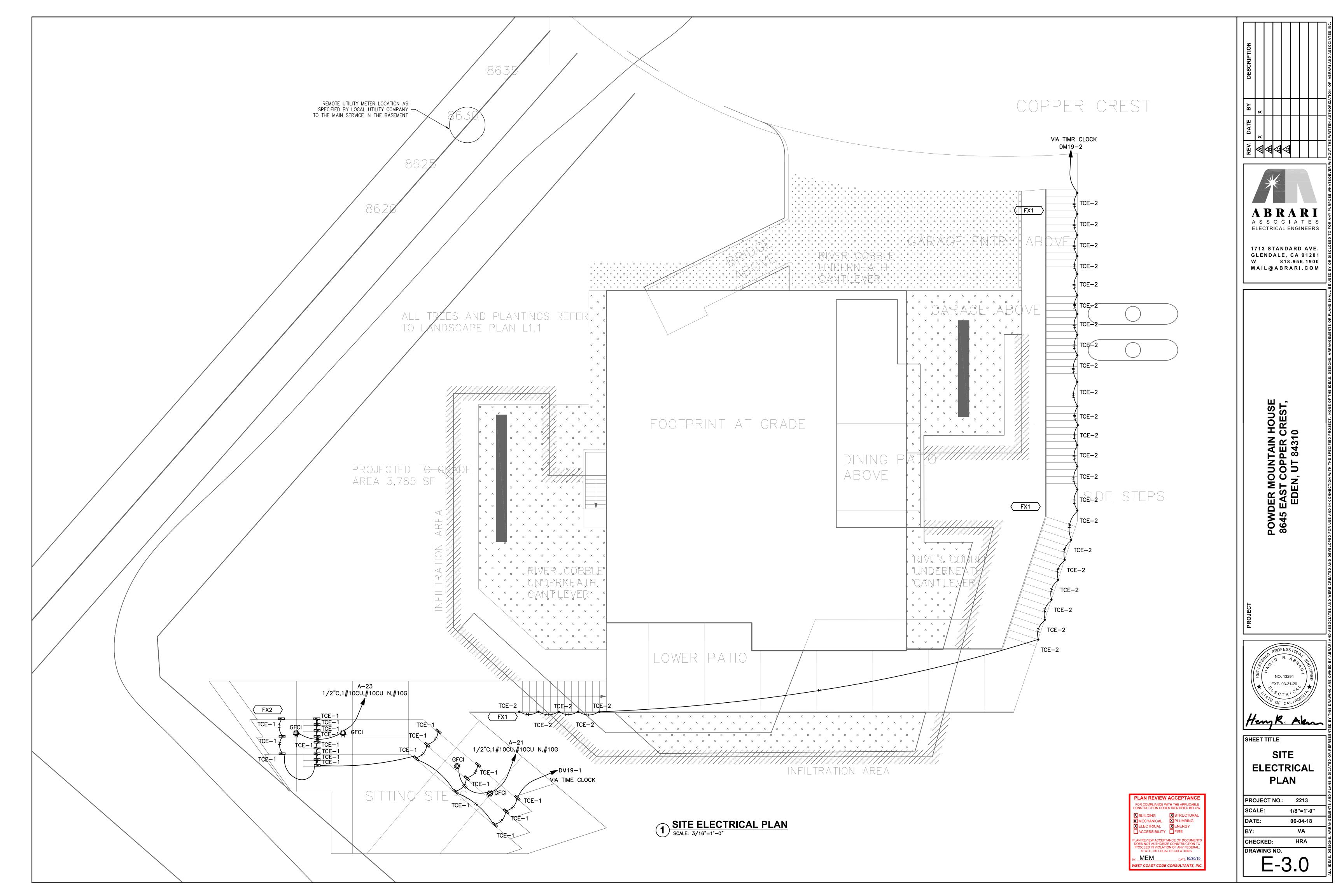


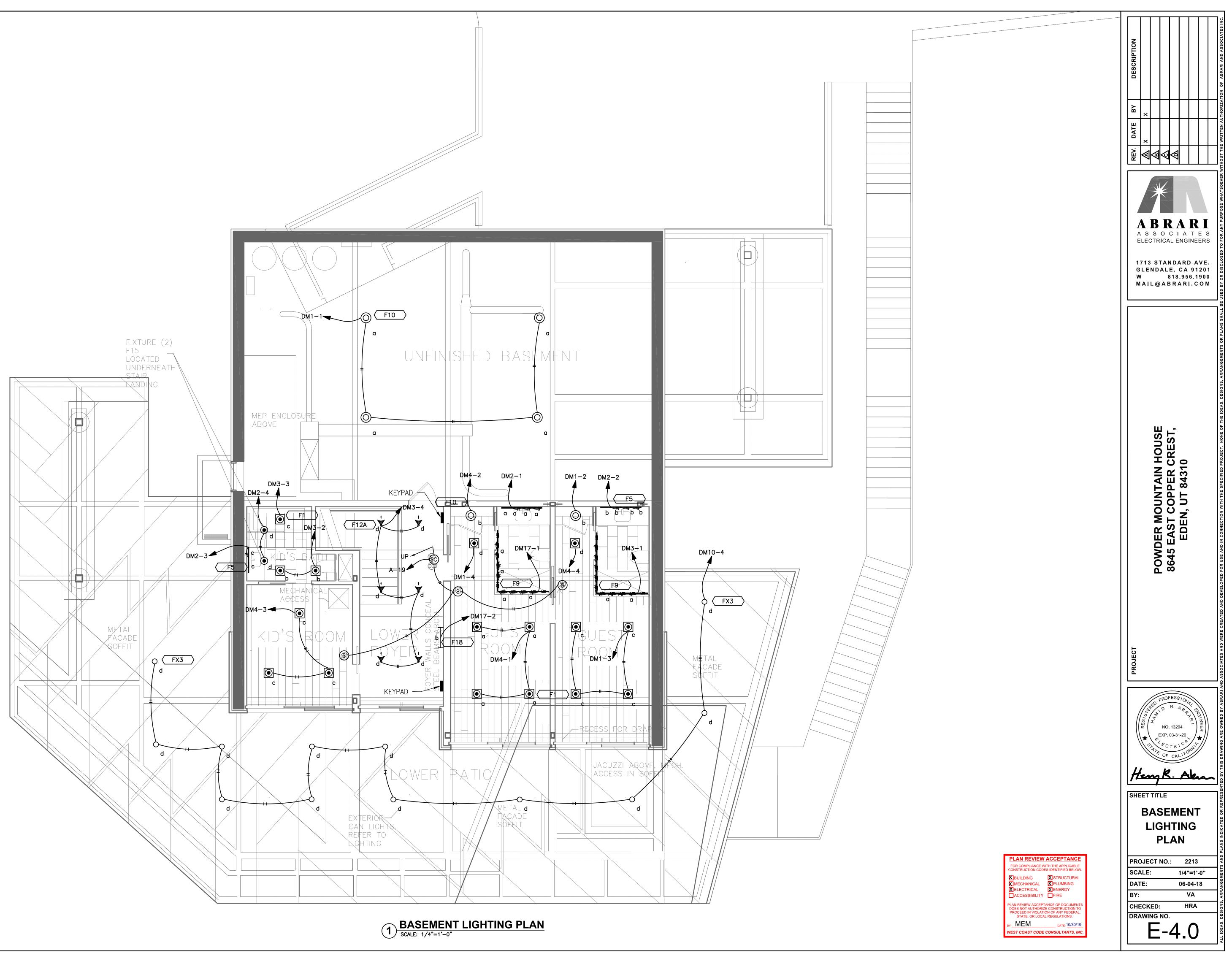
PLAN REVIEW ACCEPTANCE
FOR COMPLIANCE WITH THE APPLICABLE CONSTRUCTION CODES IDENTIFIED BELOW.
MECHANICAL PLUMBING
ELECTRICAL ENERGY
PLAN REVIEW ACCEPTANCE OF DOCUMENTS DOES NOT AUTHORIZE CONSTRUCTION TO PROCEED IN VIOLATION OF ANY FEDERAL, STATE, OR LOCAL REGULATIONS.
BY: MEM DATE: 10/30/19
WEST COAST CODE CONSULTANTS, INC.

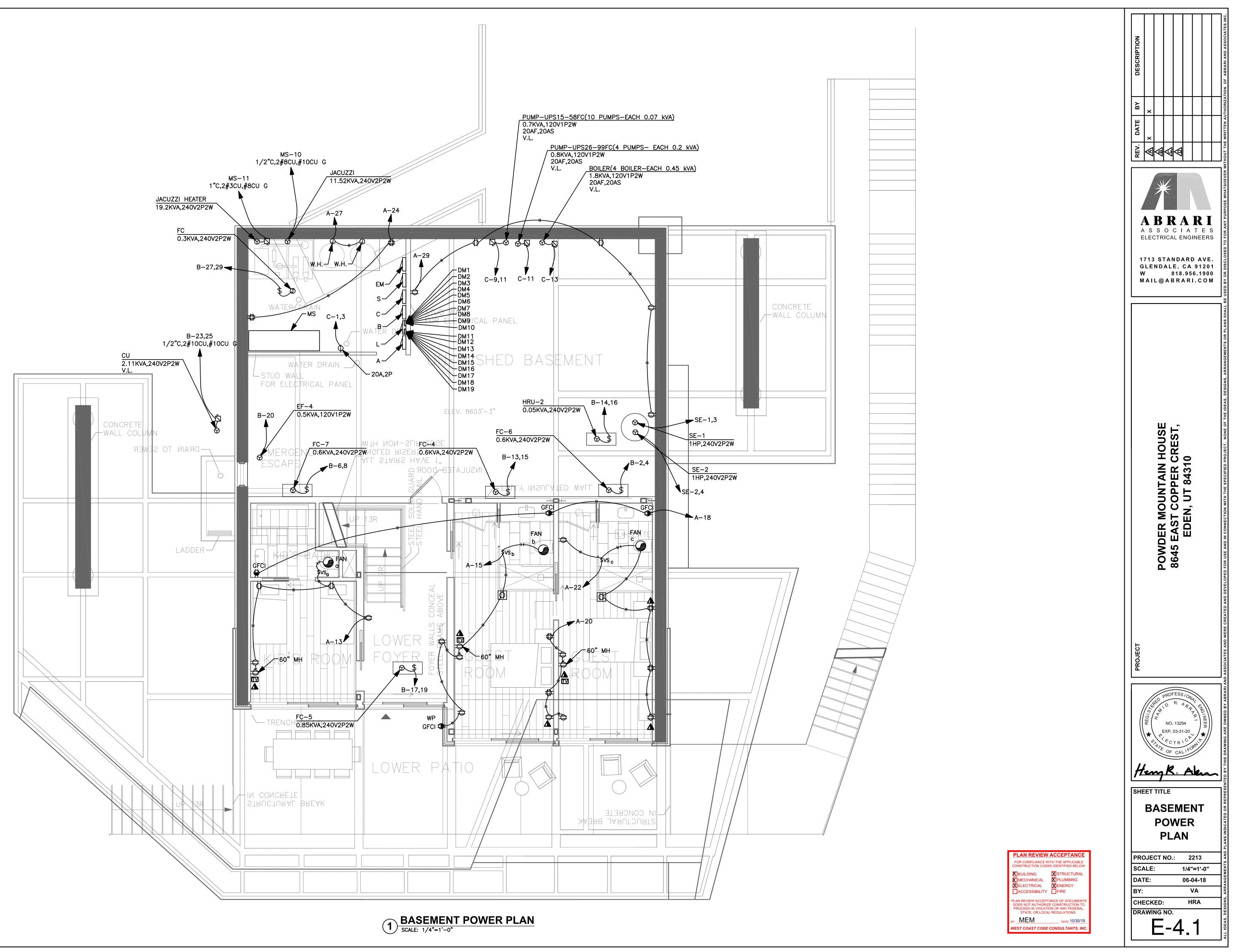
CALLOUT	SYMBOL	LAMP	DESCRIPTION	BALLAST	MOUNTING	MODEL	INPUT WATTS	VOLTS	NOTE 1
-1		(1) 17W LED	RECESSED FLANGELESS ROUND PINHOLE ADJUSTABLE DOWNLIGHT	DIMMING	RECESSED	TECH LIGHTING. E2R-L-LH-927-40(40°)-A-I-010 + E2R-LF-O-W INTEGRAL LED. 2700K-915-DELIVERED LUMENS	17	120V 1P 2W	
-1A	0	(1) 17W LED	RECESSED 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	
-4	Ŵ	(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	
5	_	(1) 2.9W LED	MIRROR WITH INTEGRAL LIGHTING	ELECTRONIC	WALL	OFCI – OWNER FURNISHED CONTRACTOR INSTALLED	2.9	120V 1P 2W	
6		(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	
7		(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	
8		(1) 100W LED	DECORATIVE PENDANT FIXTURE	ELECTRONIC	PENDANT	OFCI – OWNER FURNISHED CONTRACTOR INSTALLED	100	120V 1P 2W	
-9		(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	
10	Ô	(1) 29W LED	GENERAL ILLUMINATION FIXTURE	ELECTRONIC	SURFACE	WAC FM-4615-27 INTEGRAL LED 2700K 90-CRI 1485 DELIVERED LUMENS	29	120V 1P 2W	
511	\bigcirc	(1) 56W LED	SURFACE MOUNTED AMBIENT FIXTURE	DIMMING	RECESSED	FLOS USA LUKAS Lighting FU157009TR INTEGRAL LED 2700K 90CRI 4200 LUMEN	56	120V 1P 2W	
12	≪]-	(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	
-12A	◄-	(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	
13	_	(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	
-14		(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	
15	۲	(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	
-16	\bigcirc	(1) 100W LED	DECORATIVE RECESSED FIXTURE	DIMMING	RECESSED	OFCI – OWNER FURNISHED CONTRACTOR INSTALLED INTEGRAL LED 2700K	100	120V 1P 2W	
17		(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	
TX1	٥	(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 MOTION SENSOR
TX2		(1) 3W LED	EXTERIOR RECESSED LED STEPLIGHT	DIMMING	WALL	BEGA 33017+K3 INTEGRAL LED 3000K 150 LUMENS	3	120V 1P 2W	EQUIPPED WITH MOTION 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	
TX4	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	60	NONE	SMOKE DETECTOR/CARBON MONOXIDE DETECTOR		CEILING		1	120V 1P 2W	
SD	S	NONE	SMOKE DETECTOR		CEILING		1	120V 1P 2W	

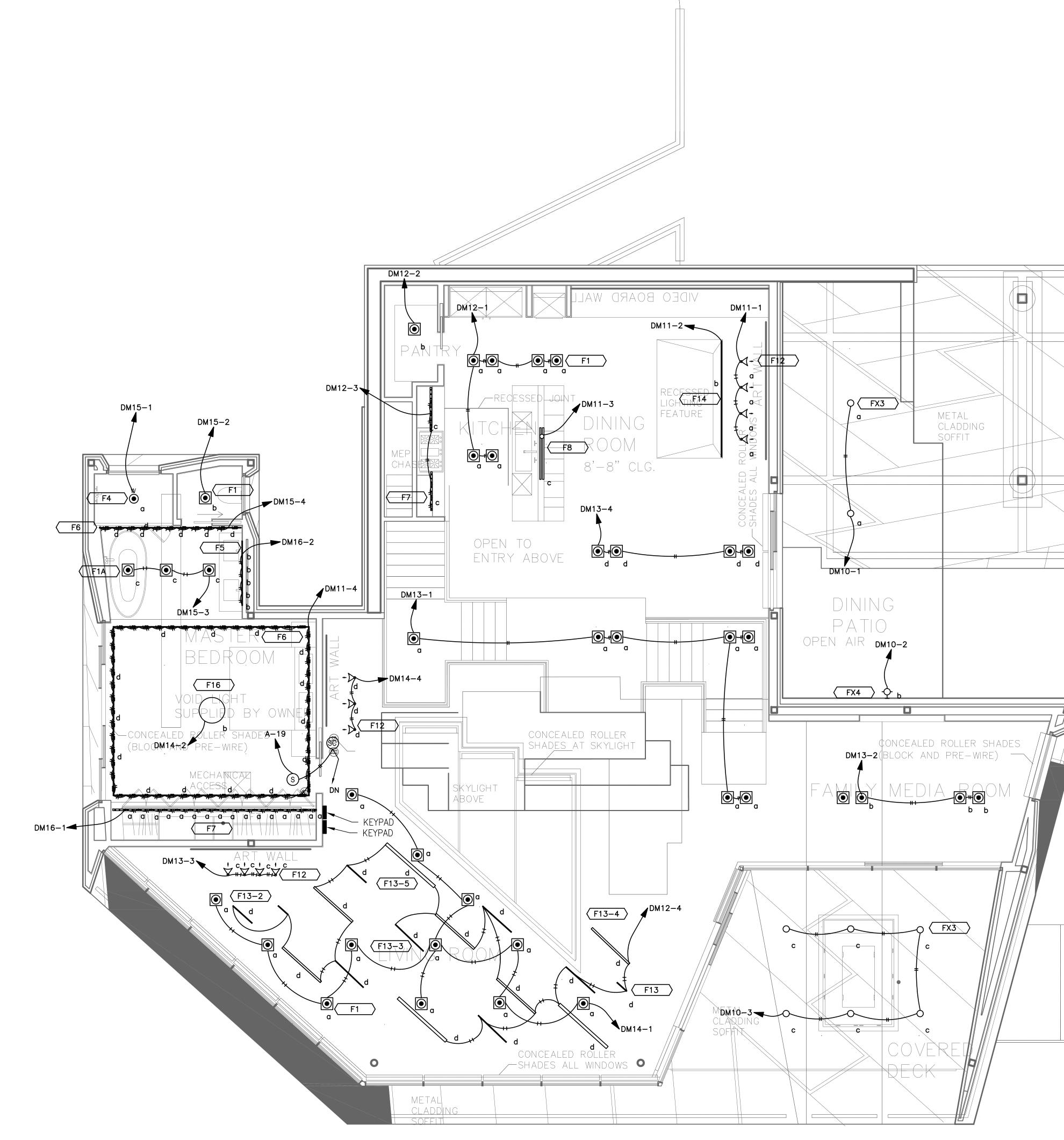
REV. DATE BY REV. DATE BY REV. DESCRIPTION	CLOSED TO FOR ANY PURPOSE WHATSOEVER WITHOUT THE WRITTEN AUTHORIZATION OF ABRARI AND ASSOCIATES INC.				
A B R A R I A S S O C I A T E S ELECTRICAL ENGINEERS 1713 STANDARD AVE. GLENDALE, CA 91201 W 818.956.1900 MAIL @ABRARI.COM					
POWDER MOUNTAIN HOUSE 8645 EAST COPPER CREST, EDEN, UT 84310					
PROJECT	THIS DRAWING ARE OWNED BY ABRARI AND ASSOCIATES AND WERE CREATED AND DEVELOPED FOR USE AND IN CONNECTION WITH THE SPECIFIED PROJECT. NONE OF THE IDEAS, DESIGNS, ARRANGEMENTS OR PLANS SHALL BE USED BY OR DIS				
PROFESSION R. ASP, III NO. 13294 EXP. 03-31-20 M. C. T. R. I S. J. J. T.					
SHEET TITLE LIGHTING SCHEDULES PROJECT NO.: 2213 SCALE: NONE DATE: 06-04-18 BY: VA CHECKED: HRA DRAWING NO. E-2.5	ALL IDEAS, DESIGNS, ARRANGEMENTS AND PLANS INDICATED OR REPRESENTED B				

PLAN REVIEW A	CCEPTANCE			
FOR COMPLIANCE WITH CONSTRUCTION CODES II				
	STRUCTURAL PLUMBING ENERGY			
	FIRE			
PLAN REVIEW ACCEPTANC DOES NOT AUTHORIZE C PROCEED IN VIOLATION STATE, OR LOCAL RI	ONSTRUCTION TO OF ANY FEDERAL,			
BY: MEM	DATE: 10/30/19			
WEST COAST CODE CONSULTANTS, INC.				



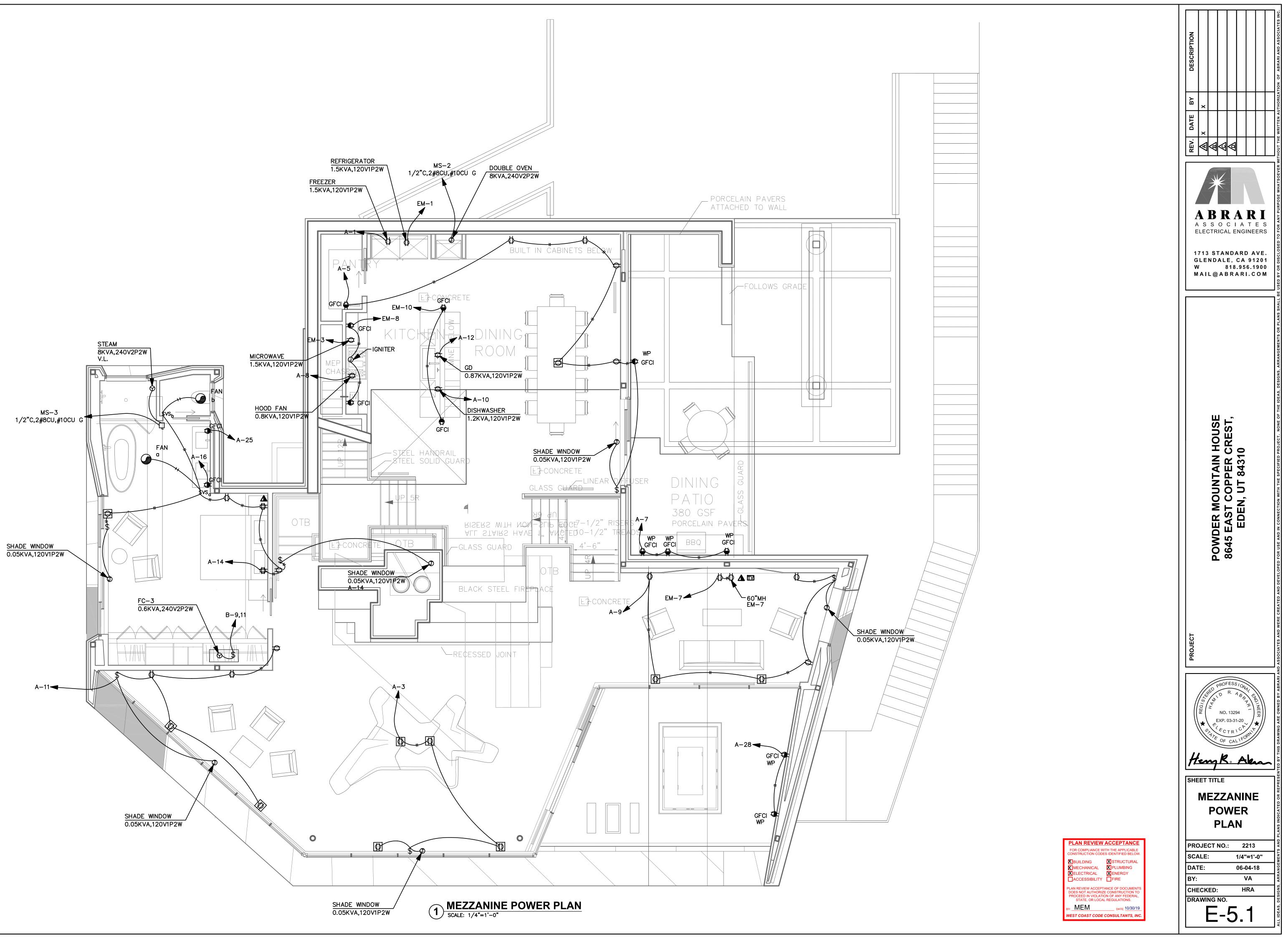




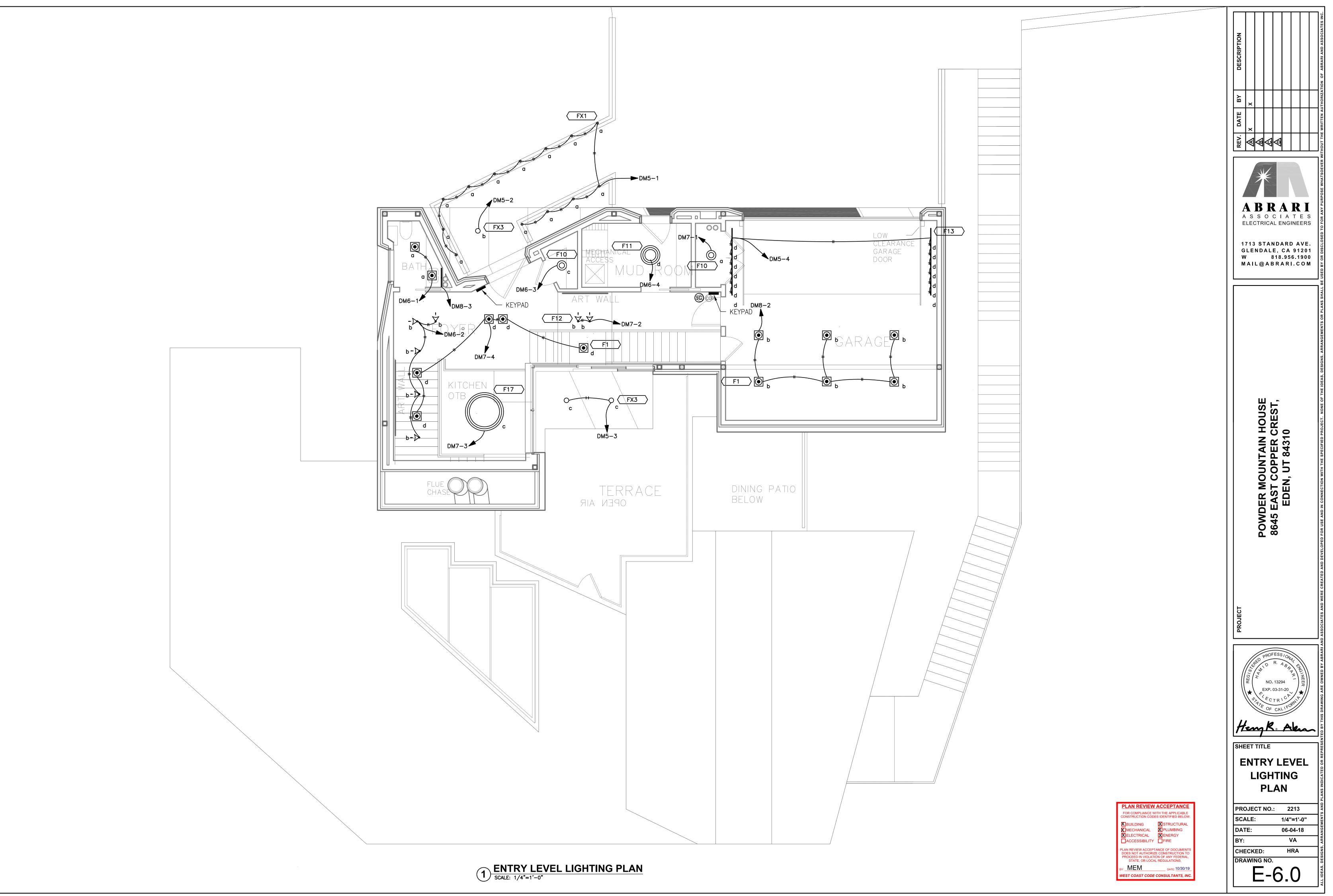


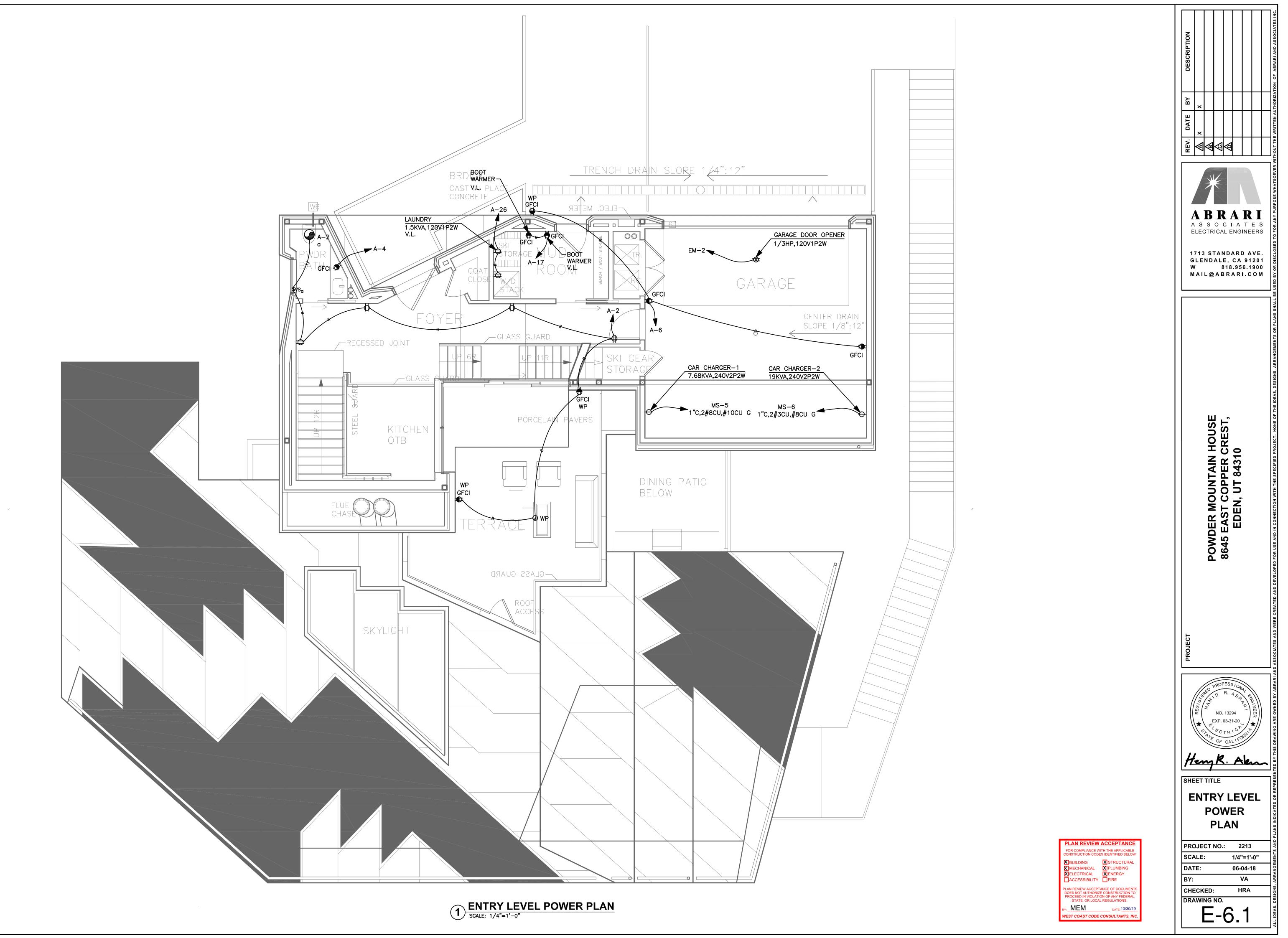
1 MEZZANINE LEVEL LIGHTING PLAN SCALE: 1/4"=1'-0"

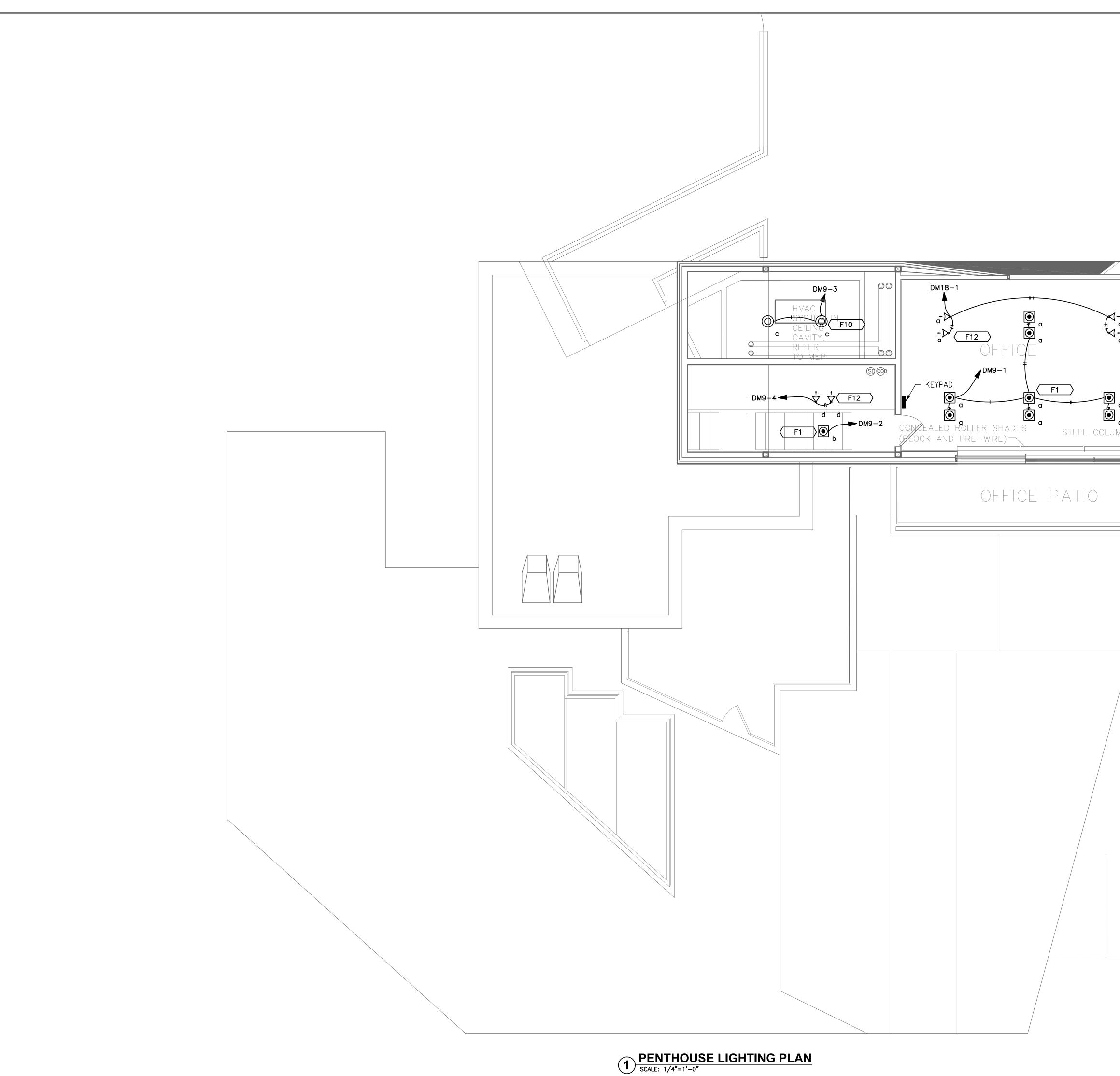
			DESCRIPTION
			Image: Normal State Image: Normal State<
			A S S O C I A T E S ELECTRICAL ENGINEERS
			1713 STANDARD AVE. GLENDALE, CA 91201 W 818.956.1900 MAIL@ABRARI.COM
			PROJECT PRO
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			Heng R. Alen
	PLAN REVIEW ACCEPTAN FOR COMPLIANCE WITH THE APPLICA CONSTRUCTION CODES IDENTIFIED BE BUILDING STRUCTUR MECHANICAL PLUMBING ELECTRICAL PLUMBING ACCESSIBILITY FIRE PLAN REVIEW ACCEPTANCE OF DOCUM DOES NOT AUTHORIZE CONSTRUCTION PROCEED IN VIOLATION OF ANY FEDER STATE, OR LOCAL REGULATIONS BY: MEM DATE: 10/2 WEST COAST CODE CONSULTANTS	BLE SLOW. RAL S IENTS N TO RAL,	SHEET TITLE MEZZ. LEVEL LIGHTING PLAN PROJECT NO.: 2213 SCALE: 1/4"=1'-0" DATE: 06-04-18 BY: VA CHECKED: HRA DRAWING NO. E-5.0



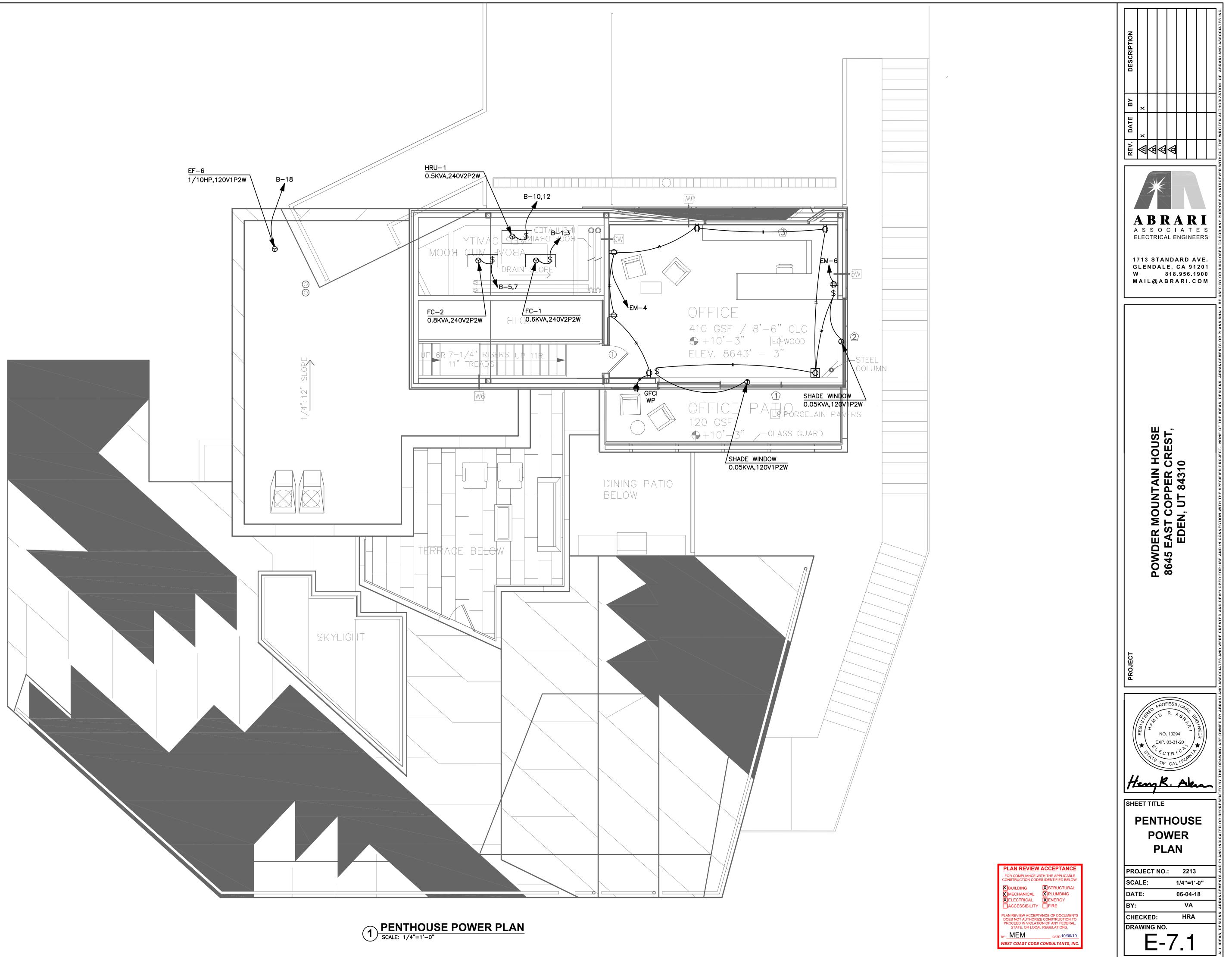








	DESCRIPTION
	REV. DATE BX REV. DATE DATE
	1713 STANDARD AVE. GLENDALE, CA 91201 W 818.956.1900 MAIL@ABRARI.COM
	PROJECT PROJECT POWDER MOUNTAIN HOUSE 8645 EAST COPPER CREST, 8645 EAST COPPER CREST, EDEN, UT 84310 BDEN, UT 84310 ASSOCIATES AND WERE CREATED AND DEVELOPED FOR USE AND WERE CREATED AND DEVELOPED FOR USE AND IN CONNECTION WITH THE SPECIFIED PROJECT. NONE OF THE IDEAS, DESIGNS, ARRANGEMENTS OR PLANS SHALL
PLAN REVIEW ACCEPTANCE POS COMPLANCE WITH THE APPLICABLE CONSTRUCTION CODES DESTRIFED BELOW. MEDILIONIC STRUCTURAL MECHANICAL PLUMBING MECHANICAL STRUCTURAL MECHANICAL FILUMBING MECHANICAL FIRE PLAN REVIEW ACCEPTANCE OF DOCUMENTS PROBLEMT FIRE	Image: Supervised state in the second state in the seco





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