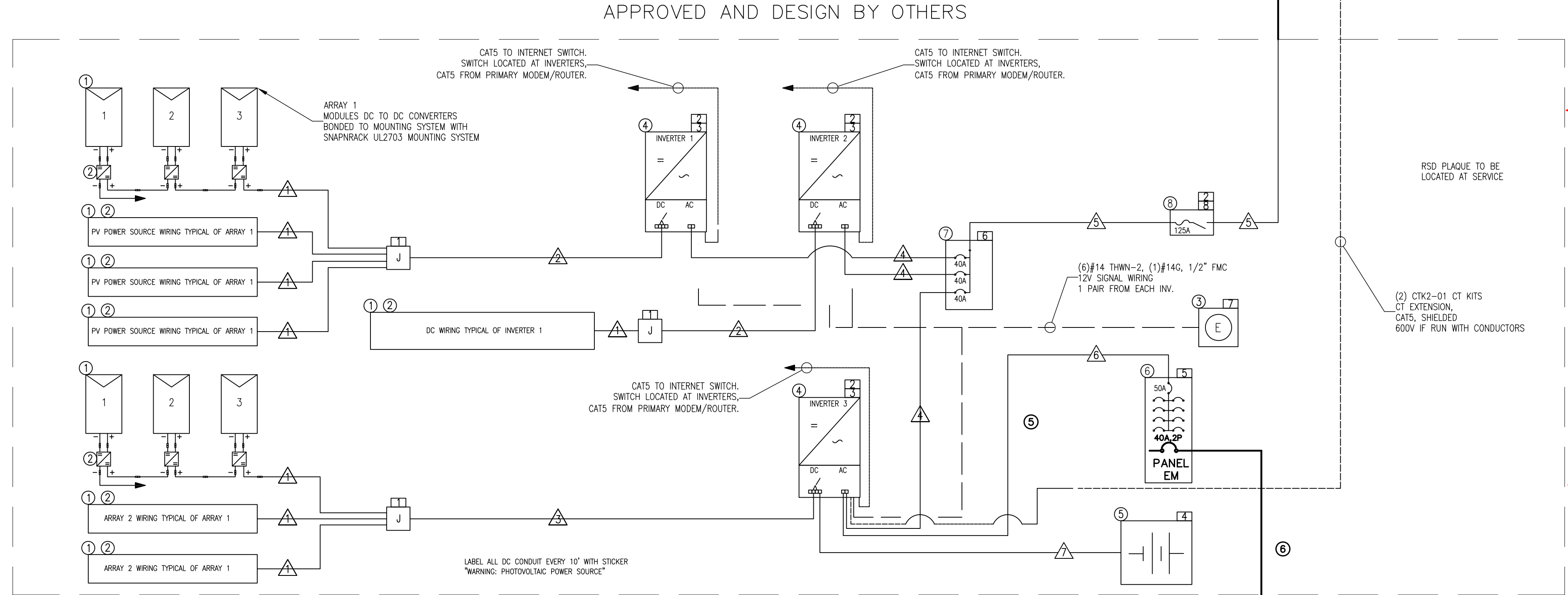


EQUIPMENT SCHEDULE					DC RATINGS			
ITEM	DESCRIPTION	PART NUMBER	LOCATION	NOTES	#	MANUFACTURER	POWER(W)	TOTAL P (kW)
1	SOLAR MODULE	FS-6430	BUILDING ROOF		33	FIRST SOLAR	430	14.19
2	PV LINK	S2501	UNDER EACH SOLAR MODULE	1:1 RATIO, PV LINK TO MODULE				
3	DC RAPID SHUTDOWN SWITCH	HW1X-BV411-R	EXTERIOR WALL OF BUILDING	EXTERNAL DC DISCONNECT				
4	SOLAR INVERTER	X7602	INTERIOR BUILDING MECH. RM		3	PIKA ENERGY	7,600	22.80
5	BATTERY	HARBOR PLUS	INTERIOR BUILDING MECH. RM					
6	AC BACKUP PANEL	60A, 240V, 1-PH	INTERIOR BUILDING MECH. RM.					
7	INVERTER COMBINER PANEL	225A, 240V, 1-PH, 3R	INTERIOR BUILDING MECH. RM.	INSTALL (3) 40A BREAKERS				
8	SOLAR AC DISCONNECT	200A, 240V, 1-PH, FUSIBLE, 3R	DISTANCE ≤ 10' ADJACENT UTILITY METER	VIS. BREAK, LOCKABLE, ON/OFF INDICATED, INSTALL 125A FUSES				
							TOTAL	22.80

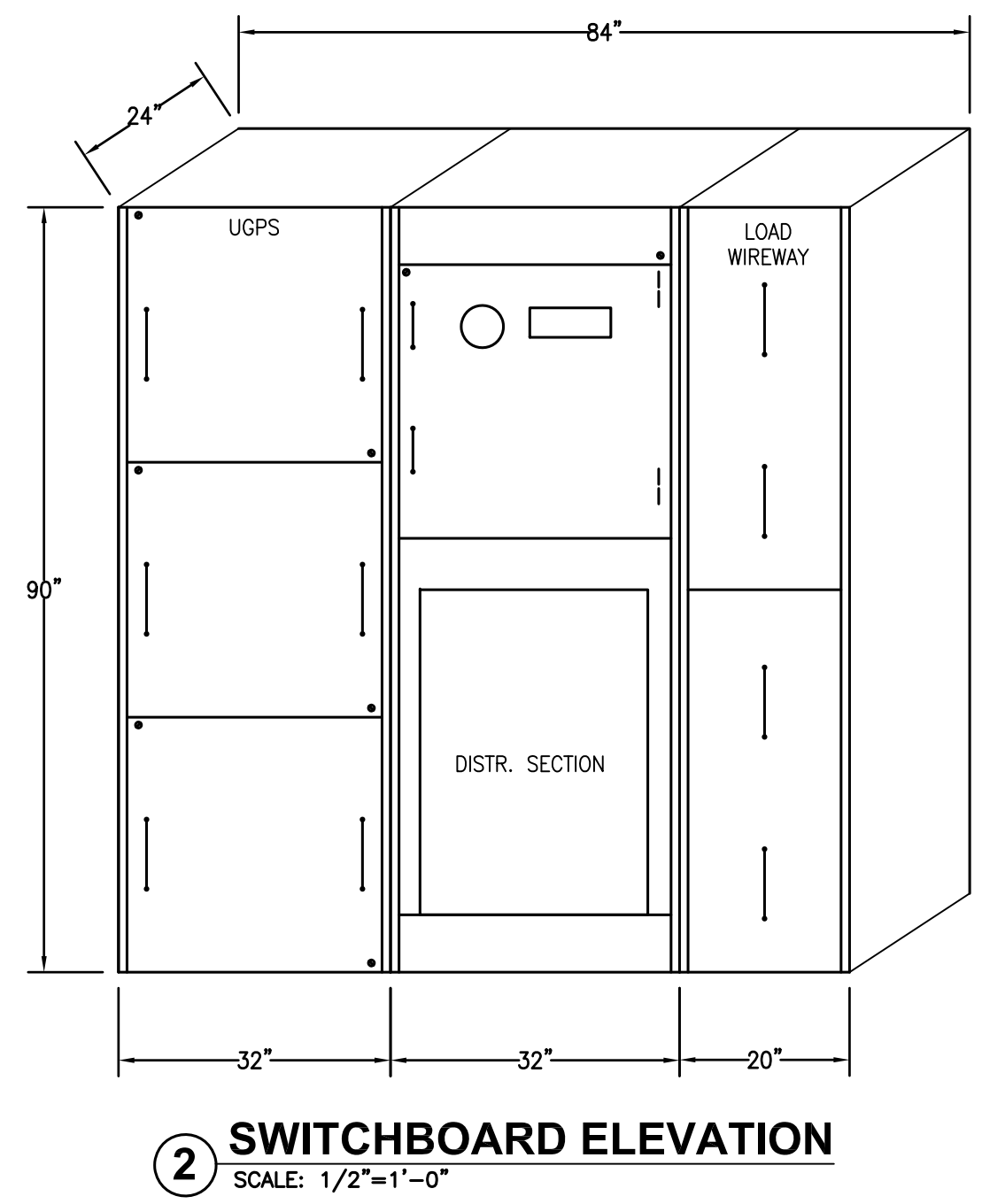
1 SINGLE LINE DIAGRAM
SCALE: NONE



LOAD CALCULATION			
GENERAL LIGHTING	6331 X 3W/Sq Ft.	15993	
LAUNDRY		1500	
3X SMALL APPLIANCES CIRCUIT		4500	
TOTAL		21993	
	1ST: 3000 VA at 100%		3000
	REMAINDER at 35%		6648
DISHWASHER		1500	
RANGE HOOD		750	
GARBAGE DISPOSER		700	
MICROWAVE		1500	
SUBZERO REFRIGERATOR		1500	
DOUBLE OVEN		8000	
TRASH COMPACTOR		1200	
STEAM		8000	
BATHROOM EXHAUST FANS 6		3000	
GARAGE DOOR OPENER		500	
JACUZZI		11520	
JACUZZI HEATER		19200	
BOILER X4		1800	
UPS15-58FC PUMP X4		720	
UPS26-98FC PUMP X10		700	
SEWER EJECTOR		3840	
CAR CHARGER#1		7680	
CAR CHARGER#2		19200	
FLOOR HEATING		6000	
GUTTER MELT X5		10800	
LANDSCAPING		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 LOADS @ 100%		29050 X 100%	29050
TOTAL			122030
I (CURRENT)			508 AMPS
SERVICE SIZE REQUIRED 1-600AMP, 120/240 V, SINGLE PHASE, THREE WIRE			

FEEDER SCHEDULE		
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, 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#8CU, #6CU N, #10CU G	L
7	1" C, 2#3CU, #8CU G	CAR CHARGER-2
8	1" C, 2#3CU, #3CU N, #8CU G	B, C
9	1-1/4" C, 2#1CU, #1CU N, #6CU G	S
10	2" C, 2#4/0CU, #4/0CU N, #4CU G	A
11	(2)2-1/2" C, 2#350kcmilCU, #350kcmilCU N, #3/0CU G	MS

SIZING METHOD: COPPER/ALUMINUM, 75%dc #12 AND ABOVE



CONDUCTOR AND CONDUIT SCHEDULE				SIGN SCHEDULE	
ITEM	WIRE, CABLE, TYPE	RATED CURRENT	125% RATED CURRENT	WIRE AND CONDUIT	NOTE
1	PV WIRE	8.0	10.0	(2)#10, (1)#6G	FREE AIR
2	THWN-2	8.0	10.0	(8)#10, (1)#10G, 3/4" EMT	35.6% FILL
3	THWN-2	8.0	10.0	(6)#10, (1)#10G, 3/4" EMT	27.7% FILL
4	THWN-2	32.0	40.0	(3)#8, (1)#10G, 3/4" EMT	24.6% FILL
5	THWN-2	96.0	120.0	(3)#1, (1)#6G, 1 1/4" EMT	34.7% FILL
6	THWN-2	50.0		(3)#8, (1)#10G, 3/4" EMT	24.6% FILL
7	THWN-2	28.0	35.00	(2)#8, (1)#6G, (1) CATS, 3/4" EMT	600V RATED CATS IF INSTALLED W/CONDUCTORS, 30.1% FILL

1	WARNING: ELECTRIC SHOCK HAZARD. THE DC CONDUCTORS OF THIS SOLAR ELECTRIC SYSTEM ARE UNGROUNDED AND MAY BE ENERGIZED
2	WARNING: ELECTRIC SHOCK HAZARD. TERMINALS ON THE LINE AND LOAD SIDES MAY BE ENERGIZED IN THE OPEN POSITION
3	SOLAR DC DISCONNECT (ARRAY AND BATTERY) [X3] MAX VOLTAGE 420 V MAX CIRCUIT CURRENT 32 A
4	ESS RATING - 420 VDC, 16 A
5	BACKUP LOAD PANEL 240 VAC, 1-PHASE
6	INVERTER OUTPUT COMBINER PANEL 240 VAC, 1-PHASE, 96.0A MAX CURRENT
7	DC RAPID SHUTDOWN SWITCH 1 OF 2
8	MANUAL DISCONNECT FOR PARALLEL GENERATION SOLAR ELECTRIC SYSTEM 240 VAC, 1-PHASE, 96.0 A MAX CURRENT
9	RAPID SHUTDOWN SWITCH 2 OF 2 WARNING: POWER SOURCE OUTPUT CONNECTION. DO NOT RELOCATE THIS OVERCURRENT DEVICE.
10	PARALLEL GENERATION CONNECTED INSIDE SOLAR ELECTRIC SYSTEM 240 AC, 1-PHASE, 96.0 A MAX CURRENT
11	PARALLEL GENERATION ON SITE SOLAR ELECTRIC SYSTEM 240 AC, 1-PHASE, 96.0 A MAX CURRENT
12	RAPID SHUTDOWN SWITCH FOR SOLAR PV SYSTEM [REFLECTIVE]
13	ELECTRICAL POWER SOURCE DISCONNECTING MEANS LOCATION DIRECTORY (DESIGN PENDING FINALIZED ARCH. PLANS) TO COMPLY WITH NEC 705.10 AND 110.21(6)

REV.	DATE	BY	DESCRIPTION
1	X		
2	X		
3	X		
4	X		
5	X		

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EDEN, UT 84310

PROJECT

REGISTERED PROFESSIONAL ENGINEER
H. R. ABRARI
NO. 13294
EXP. 03-31-20
ELECTRICAL
STATE OF CALIFORNIA

Henry R. Abrari

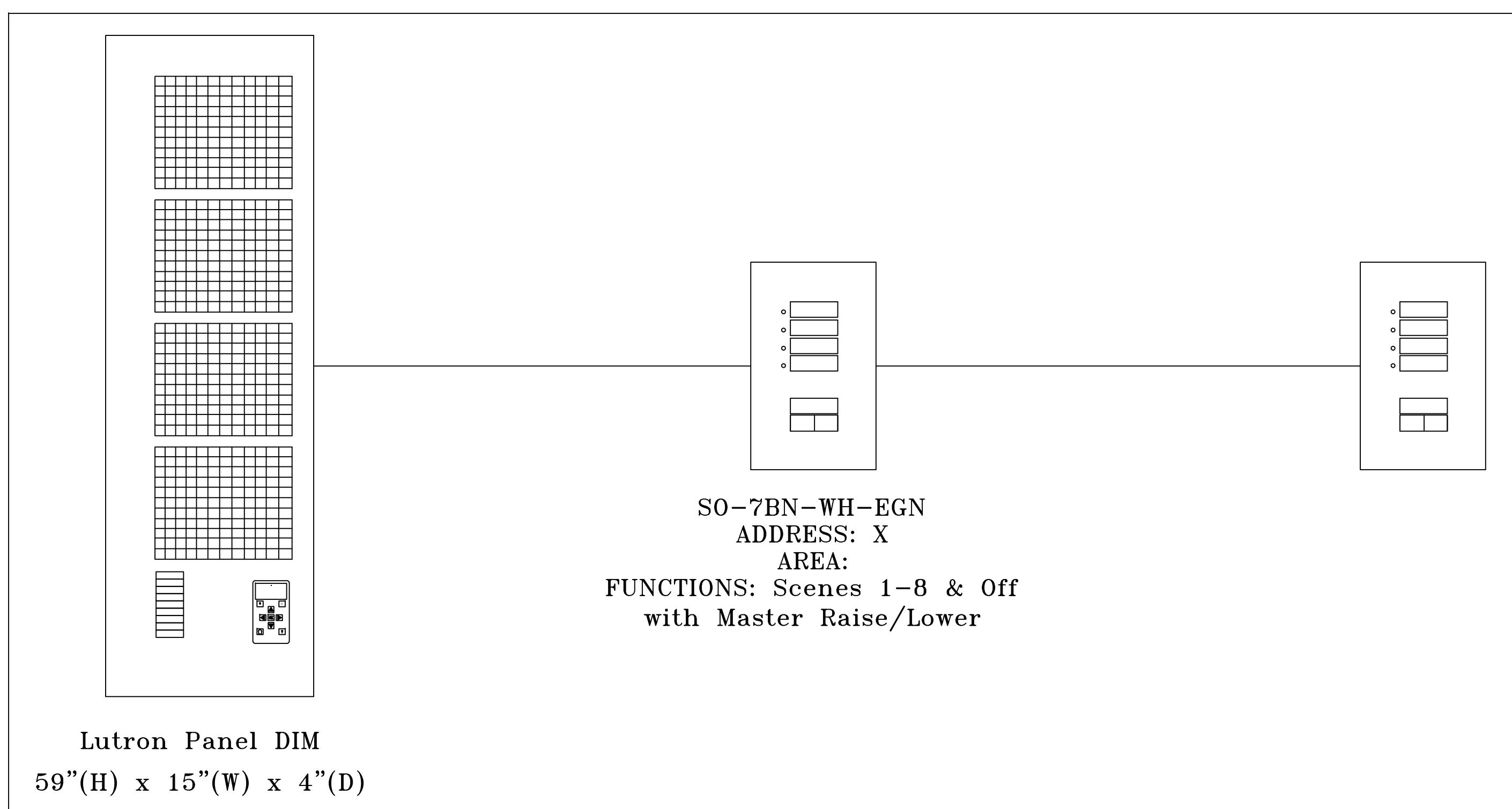
SHEET TITLE

SINGLE LINE DIAGRAM & LOAD CALCS.

PROJECT NO.: 2213
SCALE: AS SHOWN
DATE: 06-04-18
BY: VA
CHECKED: HRA
DRAWING NO. E-2.0

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 THE SPECIFIC PROJECT. NONE OF THE IDEAS, DESIGNS, ARRANGEMENTS OR PLANS SHALL BE USED BY OR DISCLOSED TO FOR ANY PURPOSE WHATSOEVER WITHOUT THE WRITTEN AUTHORIZATION OF ABRARI AND ASSOCIATES, INC.

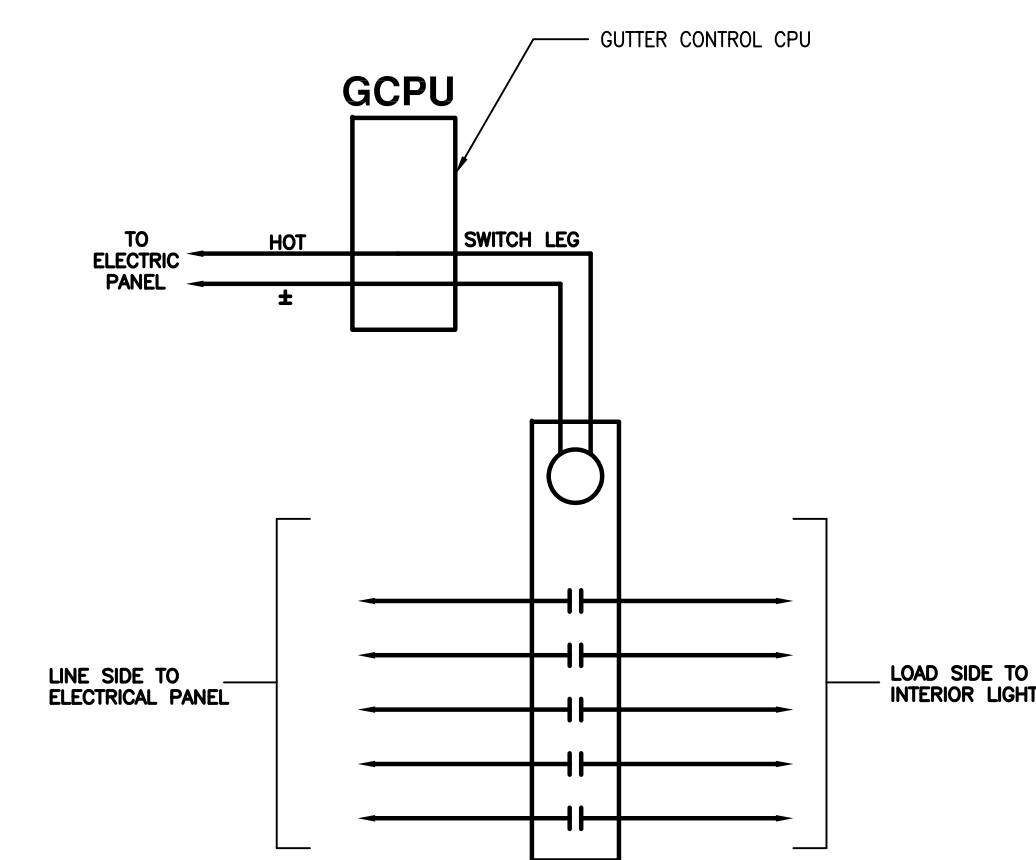
DEVICE	FEEDER		BRANCH CIRCUIT		TOTAL VOLTAGE DROP
	VOLTAGE DROP	WIRE SIZE	MAX VOLTAGE DROP	WIRE SIZE	
C	0%	#3CU	1.05% (CKT 13)	#12	1.05%
MS	0%	(2)#350kcmilCU	2.37% (TAP 5)	#2CU	2.37%
A	0.21%	#4/0CU	2.11% (CKT 14)	#12	2.31%
B	0.38%	#3CU	0.54% (CKT 18)	#12	0.92%
S	0.33%	#1CU	-	-	0.33%
EM	0.63%	#8CU	2.33% (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	0.08% (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	0.08% (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%



1 DIMMING PANEL "DIM" DETAIL
SCALE: NONE

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 NOTES.
- 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.
- 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, ETC.
- 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.
- ALL RECESSED ELECTRICAL FIXTURES IN INSULATED CEILING 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.
- 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.
- 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.
- 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.
- 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".
- CONTRACTOR SHALL PROVIDE POWER PER CODE TO ALL LIGHTING FIXTURES AND SWITCHES, OUTLETS, ETC.
- 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.
- 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.
- 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.
- ELECTRICAL CONTRACTOR SHALL SUPPLY AND INSTALL ALL WIRING FOR SECURITY LIGHTING, PHOTO CELLS, ENTRY GATE MOTORS.
- 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.
- ELECTRICAL CONTRACTOR SHALL USE A SINGLE COVER PLATE TO COVER MULTIPLE SWITCHES AND DIMMERS WHEREVER MULTIPLE CONTROLS ARE INDICATED ON THE LIGHTING DESIGN PLANS.
- ELECTRICAL CONTRACTOR SHALL INSTALL ALL WALL-MOUNTED FIXTURES. SEE INTERIOR ELEVATIONS FOR LOCATIONS.
- 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.
- CONTRACTOR SHALL COORDINATE WITH OWNER THE LOCATION OF ALL EAVE OUTLETS FOR CHRISTMAS LIGHTS.



SINGLE LINE DIAGRAM NOTES:

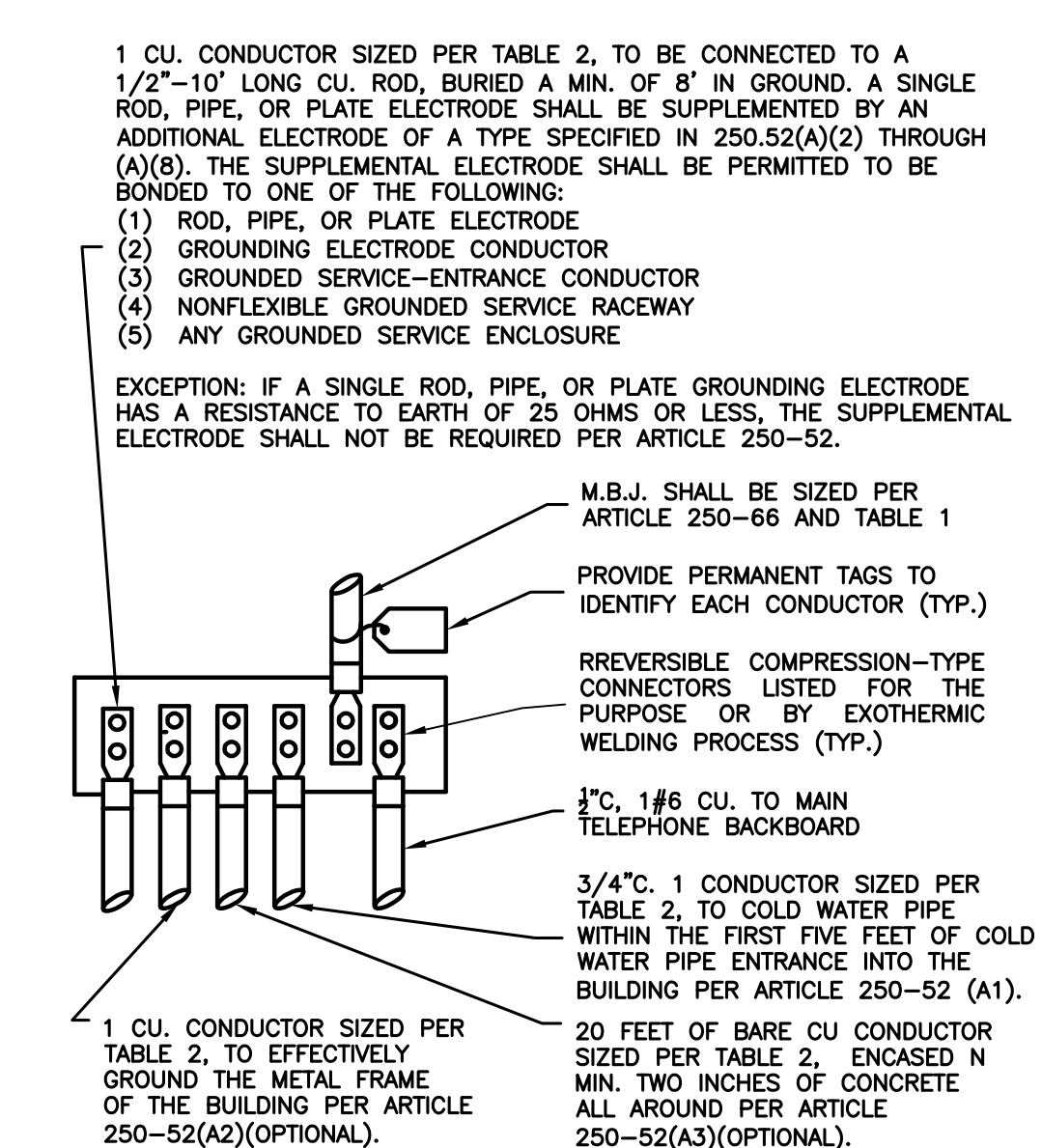
- ALL WORK SHALL BE PERFORMED PER 2014 NATIONAL ELECTRICAL CODE.
- ALL ELECTRICAL EQUIPMENT AND SWITCHBOARDS SHALL BE FULLY RATED.
- ALL ELECTRICAL EQUIPMENT AND SWITCHBOARDS SHALL BE SERIES RATED.
- PROVIDE A CAUTIONARY LABEL TO THE SERIES RATED DEVICE COVER STATING "CAUTION-SERIES COMBINATION SYSTEM RATED ____A. IDENTIFIED REPLACEMENT COMPONENTS REQUIRED".
- ALL ELECTRICAL EQUIPMENT, SWITCHBOARDS, ETC. TO WITHSTAND AVAILABLE FAULT CURRENT. VERIFY WITH SERVING UTILITY COMPANY.
- ELECTRICAL EQUIPMENT SHALL BE LISTED BY A CITY OF LOS ANGELES RECOGNIZED ELECTRICAL TESTING LABORATORY OR UL.
- 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.
- FURNISH ELECTRICAL EQUIPMENT OF THE SAME TYPE OR CLASS FROM ONE MANUFACTURER.
- EQUIP ALL DISTRIBUTION FUSIBLE SWITCHES WITH REJECTION TYPE FUSE CLIPS FOR USE WITH CURRENT LIMITING, U.L. CLASS "R" FUSES.
- 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. "RKS" - U.L. CLASS "RKS" CURRENT LIMITING, DUAL ELEMENT FUSES, "BUSSMANN" LOW-PEAK TYPE LPN-RK_SP.
- ALL CONDUCTORS SHALL BE COPPER WITH TYPE "THWN/THHN" INSULATION RATED FOR 600 VOLTS.
- FEEDER LENGTHS NOTED ON DRAWINGS ARE FOR VOLTAGE DROP AND SHORT CIRCUIT CALCULATIONS ONLY AND ARE NOT TO BE USED FOR ESTIMATE OR MATERIAL TAKE-OFF.
- NO PIPING, DUCTS OR EQUIPMENT FOREIGN TO ELECTRICAL EQUIPMENT SHALL BE PERMITTED TO BE LOCATED WITHIN THE DEDICATED SPACE.
- ALL TERMINALS/LUGS SHALL BE DUAL RATED 60"/75" C.
- ELECTRICAL ROOM DOOR SHALL OPEN OUTWARD AND SHALL BE EQUIPPED WITH PANIC HARDWARE.
- THE GROUNDING CONDUCTOR SHALL BE CONNECTED TO WATER PIPE (GROUNDING ELECTRODE) WITHIN 5' FROM THE POINT OF ENTRANCE INTO THE BUILDING.
- PROVIDE SEISMIC ANCHORING AND BRACING FOR MAIN SWITCHBOARD AND ALL STANDING SECTIONS.
- ELEVATOR CIRCUIT BREAKER SHALL BE EQUIPPED W/ SHUNT TRIP (SIEMENS C/B TYPE FXD6 OR EQ.)
- 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
- CIRCUIT BREAKERS USED AS SWITCHES IN 120 AND 277 VOLT FLUORESCENT LIGHTING CIRCUITS SHALL BE LISTED AND MARKED AS "SWD" OR "HID".
- PROVIDE A LABEL STATING "EV CAPABLE" IS A CONSPICUOUS PLACE AT THE SERVICE PANEL OR SUBPANEL AND NEXT TO THE RACEWAY TERMINATION POINT.
- CONDUCTORS OF A MULTI-WIRE BRANCH CIRCUIT SHALL CONSPICUOUSLY 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))
- 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))
- EACH ELECTRICAL SERVICE SHALL HAVE PERMANENTLY INSTALLED USER-ACCESSIBLE METERING OF TOTAL ELECTRICAL ENERGY USE PER TABLE 130.5(A)
- ALL SWITCHBOARD EQUIPMENT AND CIRCUIT BREAKERS GREATER THAN 400A SHALL BE RATED FOR 100%.

SERVICE SIZE	M.B.J. SIZE
0-1000 A	# 3/0
1200 A	# 4/0
1600 A	250 MCM
2000 A	300 MCM
2500 A	500 MCM
3000 A	500 MCM
4000 A	600 MCM

MAIN BONDING JUMPER
TABLE 1

Service Size	G.E.C. Size
0-200 A	#4
201-400 A	#1/0
Over 401 A	#3/0

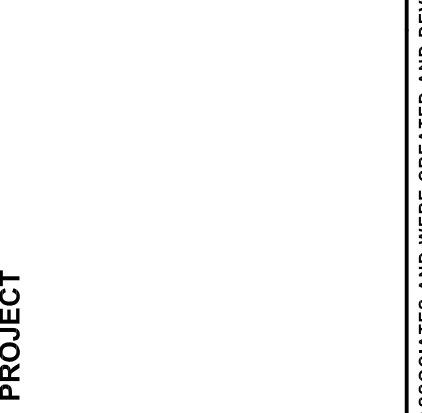
GROUNDING ELECTRODE CONDUCTOR
TABLE 2



REV.	DATE	BY	DESCRIPTION
A	X		
B			
C			
D			
E			
F			
G			
H			
I			



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



SHEET TITLE
SINGLE LINE
DIAGRAM &
LOAD CALCS.

PROJECT NO.:	2213
SCALE:	AS SHOWN
DATE:	06-04-18
BY:	VA
CHECKED:	HRA
DRAWING NO.	E-2.1

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DM1

DM1: ROOM MOUNTING FLUSH, FED FROM L, NOTE. VOLTS 120V 1P 2W, BUS AMPS 60, NEUTRAL 100%. AIC 22,000, MAIN BKR MLO, LUGS STANDARD. Table with columns for CKT #, CKT BKR, CIRCUIT DESCRIPTION, LOAD KVA, and a summary table for CONN KVA, CALC KVA, and TOTAL KVA/AMPS.

DM2

DM2: ROOM MOUNTING FLUSH, FED FROM L, NOTE. VOLTS 120V 1P 2W, BUS AMPS 60, NEUTRAL 100%. AIC 22,000, MAIN BKR MLO, LUGS STANDARD. Table with columns for CKT #, CKT BKR, CIRCUIT DESCRIPTION, LOAD KVA, and a summary table for CONN KVA, CALC KVA, and TOTAL KVA/AMPS.

DM3

DM3: ROOM MOUNTING FLUSH, FED FROM L, NOTE. VOLTS 120V 1P 2W, BUS AMPS 60, NEUTRAL 100%. AIC 22,000, MAIN BKR MLO, LUGS STANDARD. Table with columns for CKT #, CKT BKR, CIRCUIT DESCRIPTION, LOAD KVA, and a summary table for CONN KVA, CALC KVA, and TOTAL KVA/AMPS.

DM4

DM4: ROOM MOUNTING FLUSH, FED FROM L, NOTE. VOLTS 120V 1P 2W, BUS AMPS 60, NEUTRAL 100%. AIC 22,000, MAIN BKR MLO, LUGS STANDARD. Table with columns for CKT #, CKT BKR, CIRCUIT DESCRIPTION, LOAD KVA, and a summary table for CONN KVA, CALC KVA, and TOTAL KVA/AMPS.

DM5

DM5: ROOM MOUNTING FLUSH, FED FROM L, NOTE. VOLTS 120V 1P 2W, BUS AMPS 60, NEUTRAL 100%. AIC 10,000, MAIN BKR MLO, LUGS STANDARD. Table with columns for CKT #, CKT BKR, CIRCUIT DESCRIPTION, LOAD KVA, and a summary table for CONN KVA, CALC KVA, and TOTAL KVA/AMPS.

DM6

DM6: ROOM MOUNTING FLUSH, FED FROM L, NOTE. VOLTS 120V 1P 2W, BUS AMPS 60, NEUTRAL 100%. AIC 10,000, MAIN BKR MLO, LUGS STANDARD. Table with columns for CKT #, CKT BKR, CIRCUIT DESCRIPTION, LOAD KVA, and a summary table for CONN KVA, CALC KVA, and TOTAL KVA/AMPS.

DM7

DM7: ROOM MOUNTING FLUSH, FED FROM L, NOTE. VOLTS 120V 1P 2W, BUS AMPS 60, NEUTRAL 100%. AIC 10,000, MAIN BKR MLO, LUGS STANDARD. Table with columns for CKT #, CKT BKR, CIRCUIT DESCRIPTION, LOAD KVA, and a summary table for CONN KVA, CALC KVA, and TOTAL KVA/AMPS.

DM8

DM8: ROOM MOUNTING FLUSH, FED FROM L, NOTE. VOLTS 120V 1P 2W, BUS AMPS 60, NEUTRAL 100%. AIC 10,000, MAIN BKR MLO, LUGS STANDARD. Table with columns for CKT #, CKT BKR, CIRCUIT DESCRIPTION, LOAD KVA, and a summary table for CONN KVA, CALC KVA, and TOTAL KVA/AMPS.

DM9

DM9: ROOM MOUNTING FLUSH, FED FROM L, NOTE. VOLTS 120V 1P 2W, BUS AMPS 60, NEUTRAL 100%. AIC 10,000, MAIN BKR MLO, LUGS STANDARD. Table with columns for CKT #, CKT BKR, CIRCUIT DESCRIPTION, LOAD KVA, and a summary table for CONN KVA, CALC KVA, and TOTAL KVA/AMPS.

DM10

DM10: ROOM MOUNTING FLUSH, FED FROM L, NOTE. VOLTS 120V 1P 2W, BUS AMPS 60, NEUTRAL 100%. AIC 10,000, MAIN BKR MLO, LUGS STANDARD. Table with columns for CKT #, CKT BKR, CIRCUIT DESCRIPTION, LOAD KVA, and a summary table for CONN KVA, CALC KVA, and TOTAL KVA/AMPS.

DM11

DM11: ROOM MOUNTING FLUSH, FED FROM L, NOTE. VOLTS 120V 1P 2W, BUS AMPS 60, NEUTRAL 100%. AIC 10,000, MAIN BKR MLO, LUGS STANDARD. Table with columns for CKT #, CKT BKR, CIRCUIT DESCRIPTION, LOAD KVA, and a summary table for CONN KVA, CALC KVA, and TOTAL KVA/AMPS.

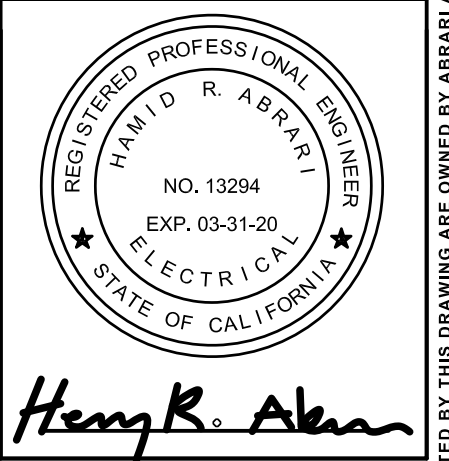
DM12

DM12: ROOM MOUNTING FLUSH, FED FROM L, NOTE. VOLTS 120V 1P 2W, BUS AMPS 60, NEUTRAL 100%. AIC 10,000, MAIN BKR MLO, LUGS STANDARD. Table with columns for CKT #, CKT BKR, CIRCUIT DESCRIPTION, LOAD KVA, and a summary table for CONN KVA, CALC KVA, and TOTAL KVA/AMPS.

REVISIONS table with columns for REV., DATE, and DESCRIPTION.

ABRARI ASSOCIATES ELECTRICAL ENGINEERS logo and contact information: 1713 STANDARD AVE., GLENDALE, CA 91201, W 818.956.1900, MAIL@ABRARI.COM

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



SHEET TITLE: PANEL SCHEDULES. PROJECT: 2213. SCALE: NONE. DATE: 06-04-18. BY: VA. CHECKED: HRA. DRAWING NO. E-2.3

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 THE SPECIFIC PROJECT. NONE OF THE IDEAS, DESIGNS, ARRANGEMENTS OR PLANS SHALL BE USED BY OR DISCLOSED TO FOR ANY PURPOSE WHATSOEVER WITHOUT THE WRITTEN AUTHORIZATION OF ABRARI AND ASSOCIATES, INC.

DM13						
ROOM MOUNTING FLUSH FED FROM L		VOLTS 120V 1P 2W BUS AMPS 60 NEUTRAL 100%		AIC 10,000 MAIN BKR MLO LUGS STANDARD		
CKT #	CKT BKR	CIRCUIT DESCRIPTION	LOAD KVA A	CKT #	CKT BKR	CIRCUIT DESCRIPTION
1	-/1	STAIRS LTG	0.12	2	-/1	FAMILY MEDIA ROOM LTG
3	-/1	LIVING ROOM LTG	0.03	4	-/1	STAIRS LTG
			TOTAL CONNECTED KVA BY PHASE			
			TOTAL CONNECTED AMPS BY PHASE			
CONN KVA			CALC KVA			
LIGHTING	0.27	0.33	(125%)	CONTINUOUS	0.00	0.00
LARGEST MOTOR	0.00	0.00	(N/A)	HEATING	0.00	0.00
OTHER MOTORS	0.00	0.00	(100%)	COOLING	0.00	0.00
RECEPTACLES	0.00	0.00	(50%>10)	NONCONTINUOUS	0.00	0.00
KITCHEN EQUIP	0.00	0.00	(N/A)	DIVERSE	0.00	0.00
			TOTAL KVA	0.27 0.33		
			TOTAL AMPS	2.78		

DM14						
ROOM MOUNTING FLUSH FED FROM L		VOLTS 120V 1P 2W BUS AMPS 60 NEUTRAL 100%		AIC 10,000 MAIN BKR MLO LUGS STANDARD		
CKT #	CKT BKR	CIRCUIT DESCRIPTION	LOAD KVA A	CKT #	CKT BKR	CIRCUIT DESCRIPTION
1	-/1	LIVING ROOM LTG	0.20	2	-/1	MASTER BEDRM. LTG
3	-/1	SPACE	0.00	4	-/1	ART WALL LTG
			TOTAL CONNECTED KVA BY PHASE			
			TOTAL CONNECTED AMPS BY PHASE			
CONN KVA			CALC KVA			
LIGHTING	0.33	0.41	(125%)	CONTINUOUS	0.00	0.00
LARGEST MOTOR	0.00	0.00	(N/A)	HEATING	0.00	0.00
OTHER MOTORS	0.00	0.00	(100%)	COOLING	0.00	0.00
RECEPTACLES	0.00	0.00	(50%>10)	NONCONTINUOUS	0.00	0.00
KITCHEN EQUIP	0.00	0.00	(N/A)	DIVERSE	0.00	0.00
			TOTAL KVA	0.33 0.41		
			TOTAL AMPS	3.39		

DM15						
ROOM MOUNTING FLUSH FED FROM L		VOLTS 120V 1P 2W BUS AMPS 60 NEUTRAL 100%		AIC 10,000 MAIN BKR MLO LUGS STANDARD		
CKT #	CKT BKR	CIRCUIT DESCRIPTION	LOAD KVA A	CKT #	CKT BKR	CIRCUIT DESCRIPTION
1	-/1	MA. BATHROOM LTG	0.02	2	-/1	MA. BATHROOM LTG
3	-/1	MA. BATHROOM LTG	0.05	4	-/1	MA. BATHROOM LTG
			TOTAL CONNECTED KVA BY PHASE			
			TOTAL CONNECTED AMPS BY PHASE			
CONN KVA			CALC KVA			
LIGHTING	0.12	0.15	(125%)	CONTINUOUS	0.00	0.00
LARGEST MOTOR	0.00	0.00	(N/A)	HEATING	0.00	0.00
OTHER MOTORS	0.00	0.00	(100%)	COOLING	0.00	0.00
RECEPTACLES	0.00	0.00	(50%>10)	NONCONTINUOUS	0.00	0.00
KITCHEN EQUIP	0.00	0.00	(N/A)	DIVERSE	0.00	0.00
			TOTAL KVA	0.12 0.15		
			TOTAL AMPS	1.23		

DM16						
ROOM MOUNTING FLUSH FED FROM L		VOLTS 120V 1P 2W BUS AMPS 60 NEUTRAL 100%		AIC 10,000 MAIN BKR MLO LUGS STANDARD		
CKT #	CKT BKR	CIRCUIT DESCRIPTION	LOAD KVA A	CKT #	CKT BKR	CIRCUIT DESCRIPTION
1	-/1	MASTER BEDRM. LTG	0.05	2	-/1	MASTER BEDRM. LTG
3	-/1	SPACE	0.00	4	-/1	SPACE
			TOTAL CONNECTED KVA BY PHASE			
			TOTAL CONNECTED AMPS BY PHASE			
CONN KVA			CALC KVA			
LIGHTING	0.07	0.08	(125%)	CONTINUOUS	0.00	0.00
LARGEST MOTOR	0.00	0.00	(N/A)	HEATING	0.00	0.00
OTHER MOTORS	0.00	0.00	(100%)	COOLING	0.00	0.00
RECEPTACLES	0.00	0.00	(50%>10)	NONCONTINUOUS	0.00	0.00
KITCHEN EQUIP	0.00	0.00	(N/A)	DIVERSE	0.00	0.00
			TOTAL KVA	0.07 0.08		
			TOTAL AMPS	0.68		

DM17						
ROOM MOUNTING FLUSH FED FROM L		VOLTS 120V 1P 2W BUS AMPS 60 NEUTRAL 100%		AIC 10,000 MAIN BKR MLO LUGS STANDARD		
CKT #	CKT BKR	CIRCUIT DESCRIPTION	LOAD KVA A	CKT #	CKT BKR	CIRCUIT DESCRIPTION
1	-/1	BATHROOM LTG	0.06	2	-/1	LOWER FOYER LTG
3	-/1	SPACE	0.00	4	-/1	SPACE
			TOTAL CONNECTED KVA BY PHASE			
			TOTAL CONNECTED AMPS BY PHASE			
CONN KVA			CALC KVA			
LIGHTING	0.08	0.10	(125%)	CONTINUOUS	0.00	0.00
LARGEST MOTOR	0.00	0.00	(N/A)	HEATING	0.00	0.00
OTHER MOTORS	0.00	0.00	(100%)	COOLING	0.00	0.00
RECEPTACLES	0.00	0.00	(50%>10)	NONCONTINUOUS	0.00	0.00
KITCHEN EQUIP	0.00	0.00	(N/A)	DIVERSE	0.00	0.00
			TOTAL KVA	0.08 0.10		
			TOTAL AMPS	0.80		

DM18						
ROOM MOUNTING FLUSH FED FROM L		VOLTS 120V 1P 2W BUS AMPS 60 NEUTRAL 100%		AIC 10,000 MAIN BKR MLO LUGS STANDARD		
CKT #	CKT BKR	CIRCUIT DESCRIPTION	LOAD KVA A	CKT #	CKT BKR	CIRCUIT DESCRIPTION
1	-/1	LTG	0.03	2	-/1	SPACE
3	-/1	SPACE	0.00	4	-/1	SPACE
			TOTAL CONNECTED KVA BY PHASE			
			TOTAL CONNECTED AMPS BY PHASE			
CONN KVA			CALC KVA			
LIGHTING	0.03	0.04	(125%)	CONTINUOUS	0.00	0.00
LARGEST MOTOR	0.00	0.00	(N/A)	HEATING	0.00	0.00
OTHER MOTORS	0.00	0.00	(100%)	COOLING	0.00	0.00
RECEPTACLES	0.00	0.00	(50%>10)	NONCONTINUOUS	0.00	0.00
KITCHEN EQUIP	0.00	0.00	(N/A)	DIVERSE	0.00	0.00
			TOTAL KVA	0.03 0.04		
			TOTAL AMPS	0.30		

DM19						
ROOM MOUNTING FLUSH FED FROM L		VOLTS 120V 1P 2W BUS AMPS 60 NEUTRAL 100%		AIC 10,000 MAIN BKR MLO LUGS STANDARD		
CKT #	CKT BKR	CIRCUIT DESCRIPTION	LOAD KVA A	CKT #	CKT BKR	CIRCUIT DESCRIPTION
1	-/1	SITE LTG	0.06	2	-/1	SITE LTG
3	-/1	SPACE	0.00	4	-/1	SPACE
			TOTAL CONNECTED KVA BY PHASE			
			TOTAL CONNECTED AMPS BY PHASE			
CONN KVA			CALC KVA			
LIGHTING	0.09	0.11	(125%)	CONTINUOUS	0.00	0.00
LARGEST MOTOR	0.00	0.00	(N/A)	HEATING	0.00	0.00
OTHER MOTORS	0.00	0.00	(100%)	COOLING	0.00	0.00
RECEPTACLES	0.00	0.00	(50%>10)	NONCONTINUOUS	0.00	0.00
KITCHEN EQUIP	0.00	0.00	(N/A)	DIVERSE	0.00	0.00
			TOTAL KVA	0.09 0.11		
			TOTAL AMPS	0.94		

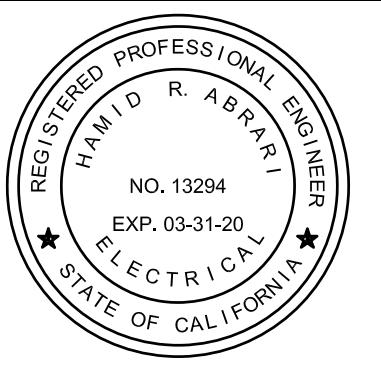
DESCRIPTION	BY	DATE	REV.
	X		



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

PROJECT



SHEET TITLE
PANEL SCHEDULES

PROJECT NO.: 2213
SCALE: NONE
DATE: 06-04-18
BY: VA
CHECKED: HRA
DRAWING NO.
E-2.4

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 THE SPECIFIED PROJECT. NONE OF THE IDEAS, DESIGNS, ARRANGEMENTS OR PLANS SHALL BE USED BY OR DISCLOSED TO FOR ANY PURPOSE WHATSOEVER WITHOUT THE WRITTEN AUTHORIZATION OF ABRARI AND ASSOCIATES, INC.

LUMINAIRE SCHEDULE

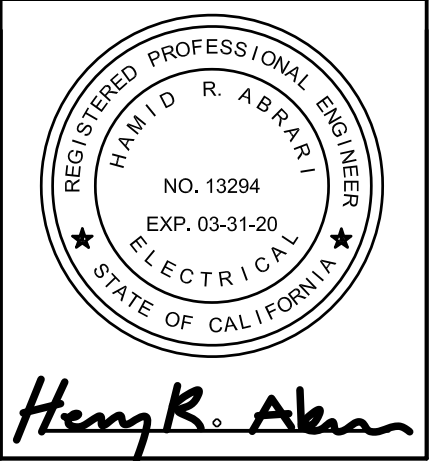
CALLOUT	SYMBOL	LAMP	DESCRIPTION	BALLAST	MOUNTING	MODEL	INPUT WATTS	VOLTS	NOTE 1
F1		(1) 17W LED	RECESSED FLANGELESS ROUND PINHOLE ADJUSTABLE DOWNLIGHT	DIMMING	RECESSED	TECH LIGHTING. E2R-L-LH-927-40(40')-A-I-010 + E2R-LF-O-W INTEGRAL LED. 2700K-915-DELIVERED LUMENS	17	120V 1P 2W	
F1A		(1) 17W LED	RECESSED 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	
F4		(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	
F5		(1) 2.9W LED	MIRROR WITH INTEGRAL LIGHTING	ELECTRONIC	WALL	OFCI - OWNER FURNISHED CONTRACTOR INSTALLED	2.9	120V 1P 2W	
F6		(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	
F7		(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	
F8		(1) 100W LED	DECORATIVE PENDANT FIXTURE	ELECTRONIC	PENDANT	OFCI - OWNER FURNISHED CONTRACTOR INSTALLED	100	120V 1P 2W	
F9		(1) 5.2W LED	RECESSED LINEAR REVIEW LIGHT IN CEILING 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	
F10		(1) 29W LED	GENERAL ILLUMINATION FIXTURE	ELECTRONIC	SURFACE	WAC FM-4615-27 INTEGRAL LED 2700K 90-CRI 1485 DELIVERED LUMENS	29	120V 1P 2W	
F11		(1) 56W LED	SURFACE MOUNTED AMBIENT FIXTURE	DIMMING	RECESSED	FLOS USA LUKAS Lighting FU157009TR INTEGRAL LED 2700K 90CRI 4200 LUMEN	56	120V 1P 2W	
F12		(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	
F12A		(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	
F13		(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	
F14		(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	
F15		(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	
F16		(1) 100W LED	DECORATIVE RECESSED FIXTURE	DIMMING	RECESSED	OFCI - OWNER FURNISHED CONTRACTOR INSTALLED INTEGRAL LED 2700K	100	120V 1P 2W	
F17		(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	
FX1		(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
FX2		(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
FX3		(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	
FX4		(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 DETECTOR		CEILING		1	120V 1P 2W	
SD		NONE	SMOKE DETECTOR		CEILING		1	120V 1P 2W	

REV.	DATE	BY	DESCRIPTION
1		X	
2		X	
3		X	
4		X	
5		X	
6		X	
7		X	
8		X	
9		X	
10		X	

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

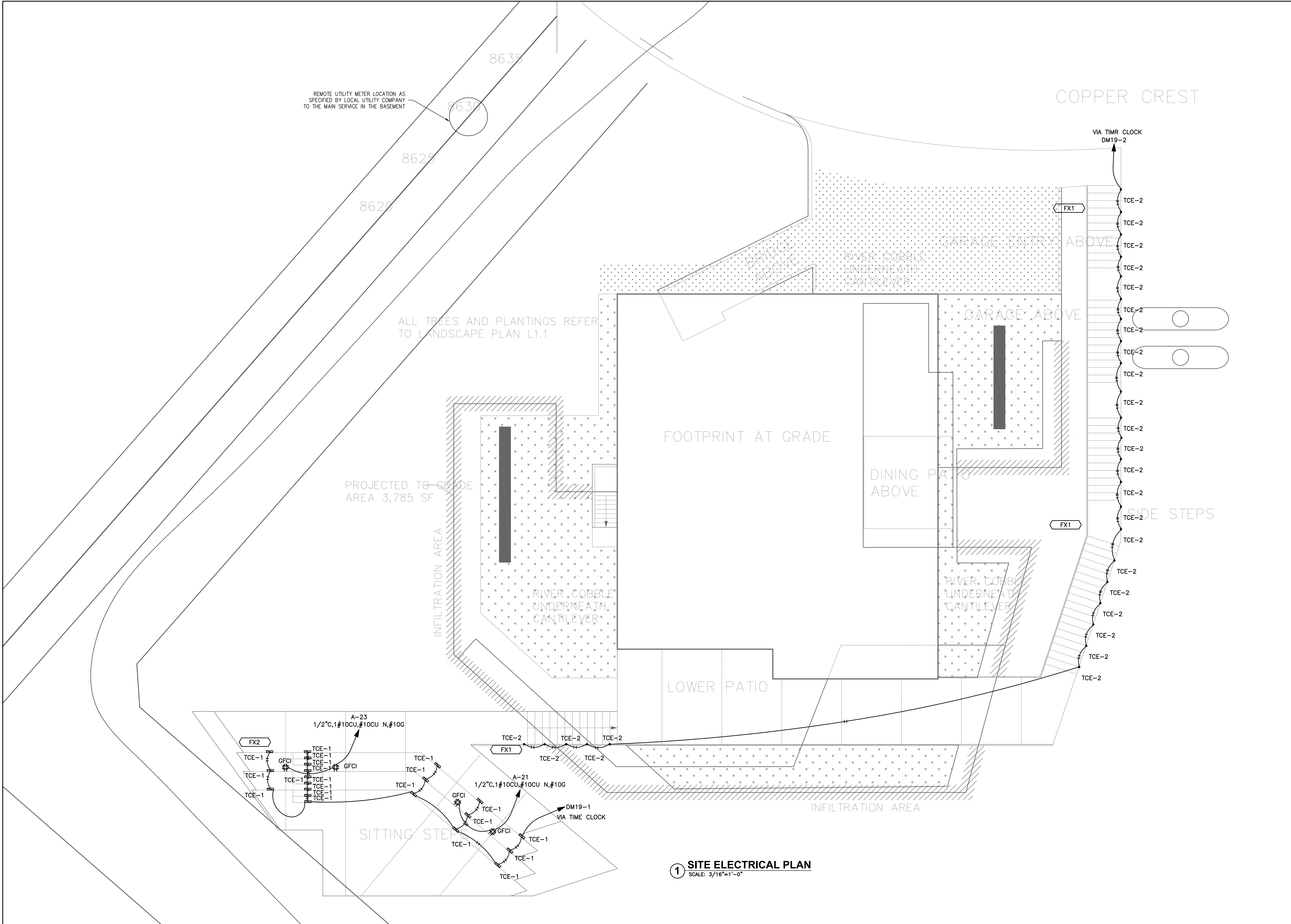


SHEET TITLE

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 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 DISCLOSED TO FOR ANY PURPOSE WHATSOEVER WITHOUT THE WRITTEN AUTHORIZATION OF ABRARI AND ASSOCIATES, INC.



REMOTE UTILITY METER LOCATION AS SPECIFIED BY LOCAL UTILITY COMPANY TO THE MAIN SERVICE IN THE BASEMENT

COPPER CREST

VIA TIME CLOCK
DM19-2

ALL TREES AND PLANTINGS REFER TO LANDSCAPE PLAN L1.1

FOOTPRINT AT GRADE

PROJECTED TO GRADE
AREA 3,785 SF

INFILTRATION AREA

RIVER COBBLE
UNDERNEATH
CANTILEVER

LOWER PATIO

INFILTRATION AREA

SITTING STEPS

1 SITE ELECTRICAL PLAN
SCALE: 3/16"=1'-0"

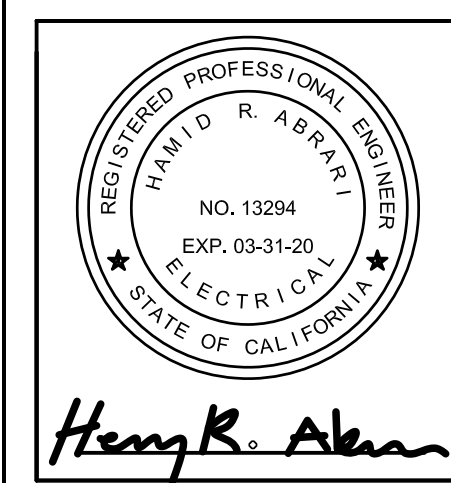
REV.	DATE	BY	DESCRIPTION
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2	X	X	
3	X	X	
4	X	X	

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ELECTRICAL ENGINEERS

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PROJECT

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

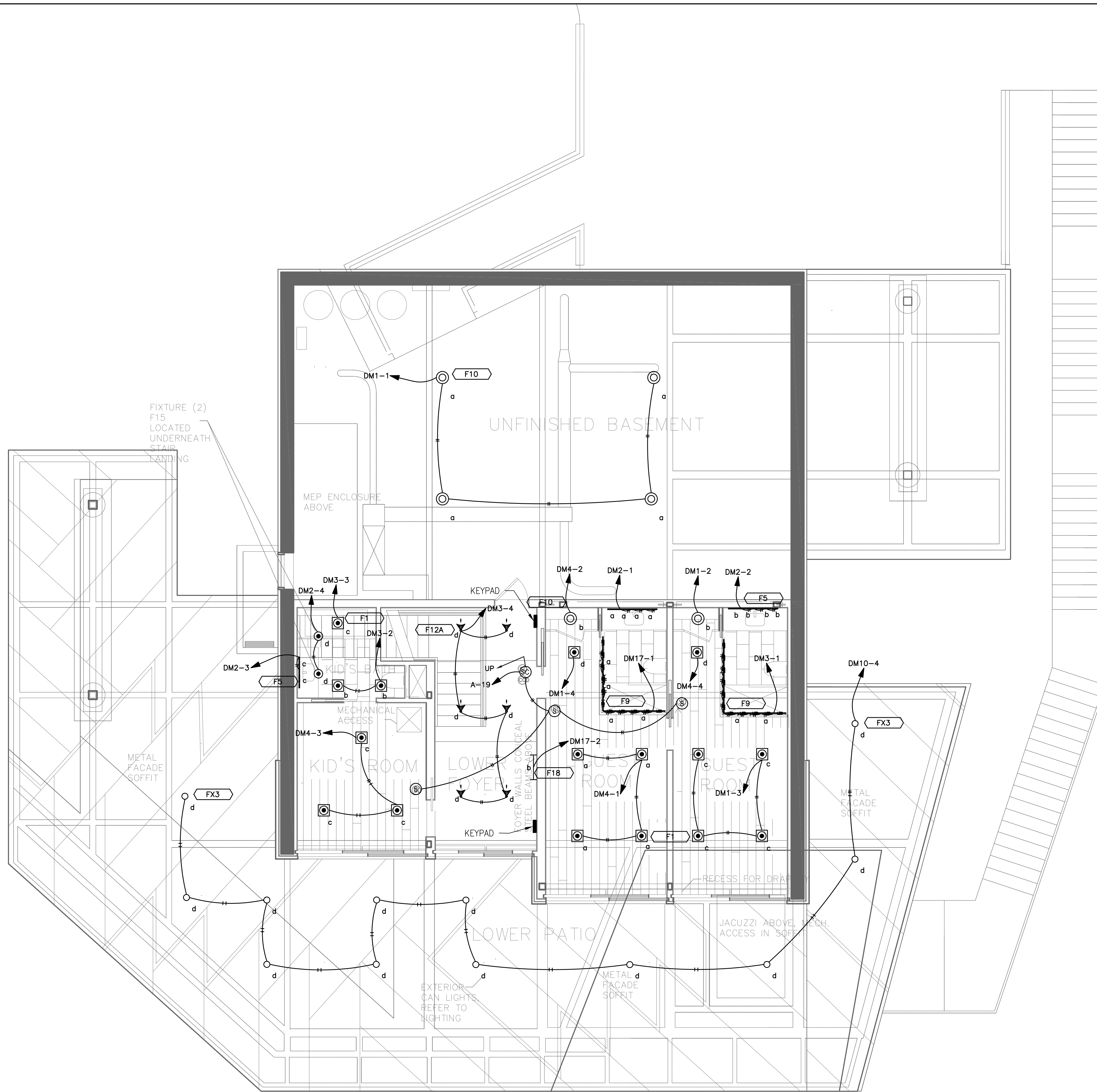


SHEET TITLE

SITE ELECTRICAL PLAN

PROJECT NO.:	2213
SCALE:	1/8"=1'-0"
DATE:	06-04-18
BY:	VA
CHECKED:	HRA
DRAWING NO.:	E-3.0

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

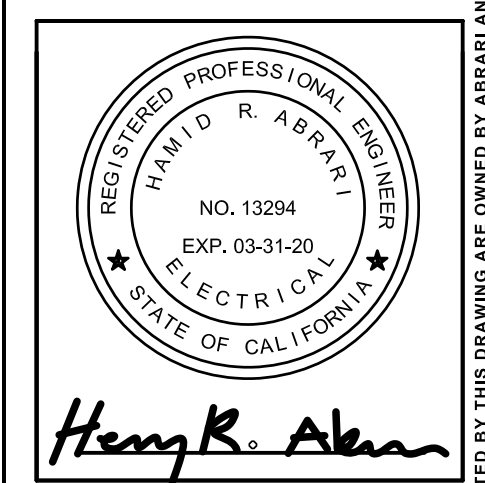
REV.	DATE	BY	DESCRIPTION
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B	X	X	
C	X	X	
D	X	X	

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PROJECT

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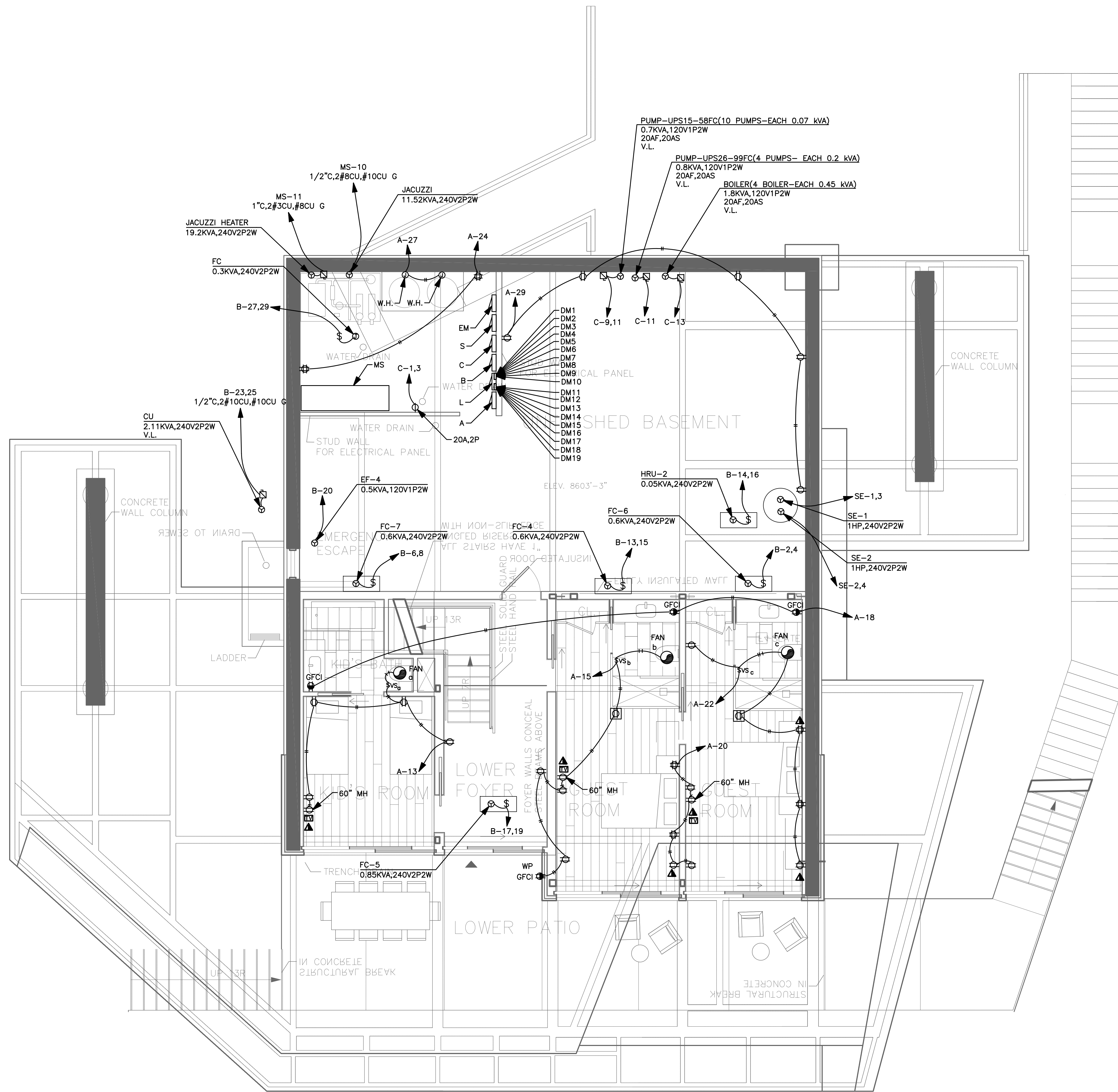


SHEET TITLE

BASEMENT LIGHTING PLAN

PROJECT NO.:	2213
SCALE:	1/4"=1'-0"
DATE:	06-04-18
BY:	VA
CHECKED:	HRA
DRAWING NO.:	E-4.0

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 THE SPECIFIC PROJECT. NONE OF THE IDEAS, DESIGNS, ARRANGEMENTS OR PLANS SHALL BE USED BY OR DISCLOSED TO FOR ANY PURPOSE WHATSOEVER WITHOUT THE WRITTEN AUTHORIZATION OF ABRARI AND ASSOCIATES, INC.



1 BASEMENT POWER PLAN
SCALE: 1/4"=1'-0"

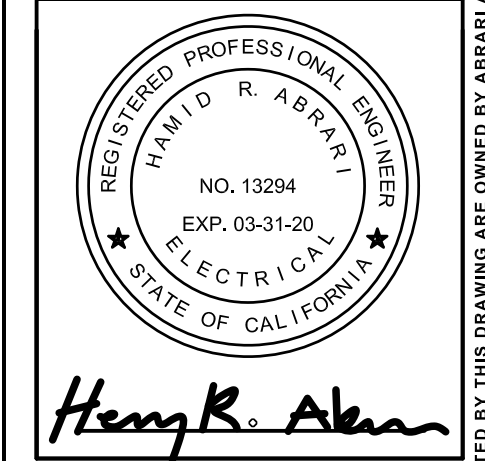
REV.	DATE	BY	DESCRIPTION
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3	X	X	
4	X	X	

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PROJECT

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

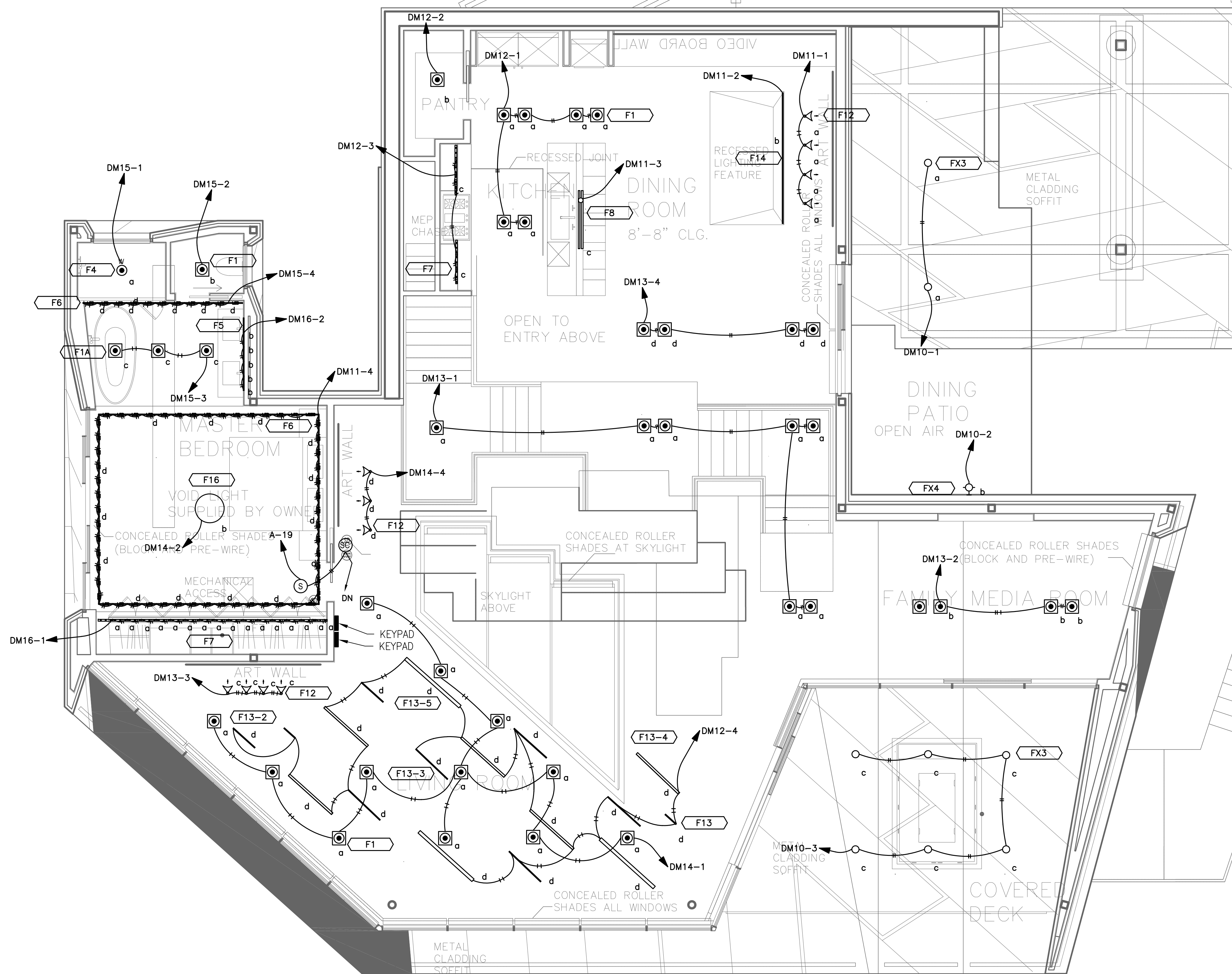


SHEET TITLE

BASEMENT POWER PLAN

PROJECT NO.:	2213
SCALE:	1/4"=1'-0"
DATE:	06-04-18
BY:	VA
CHECKED:	HRA
DRAWING NO.:	E-4.1

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

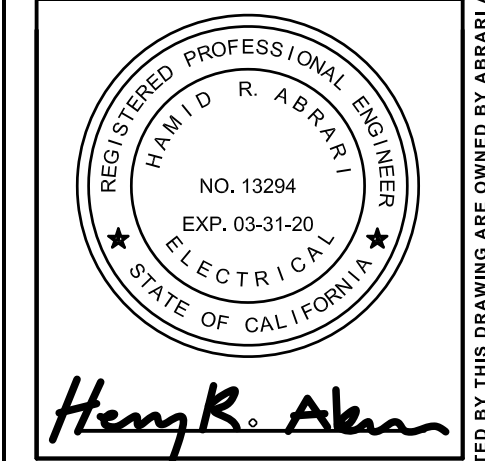
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PROJECT

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

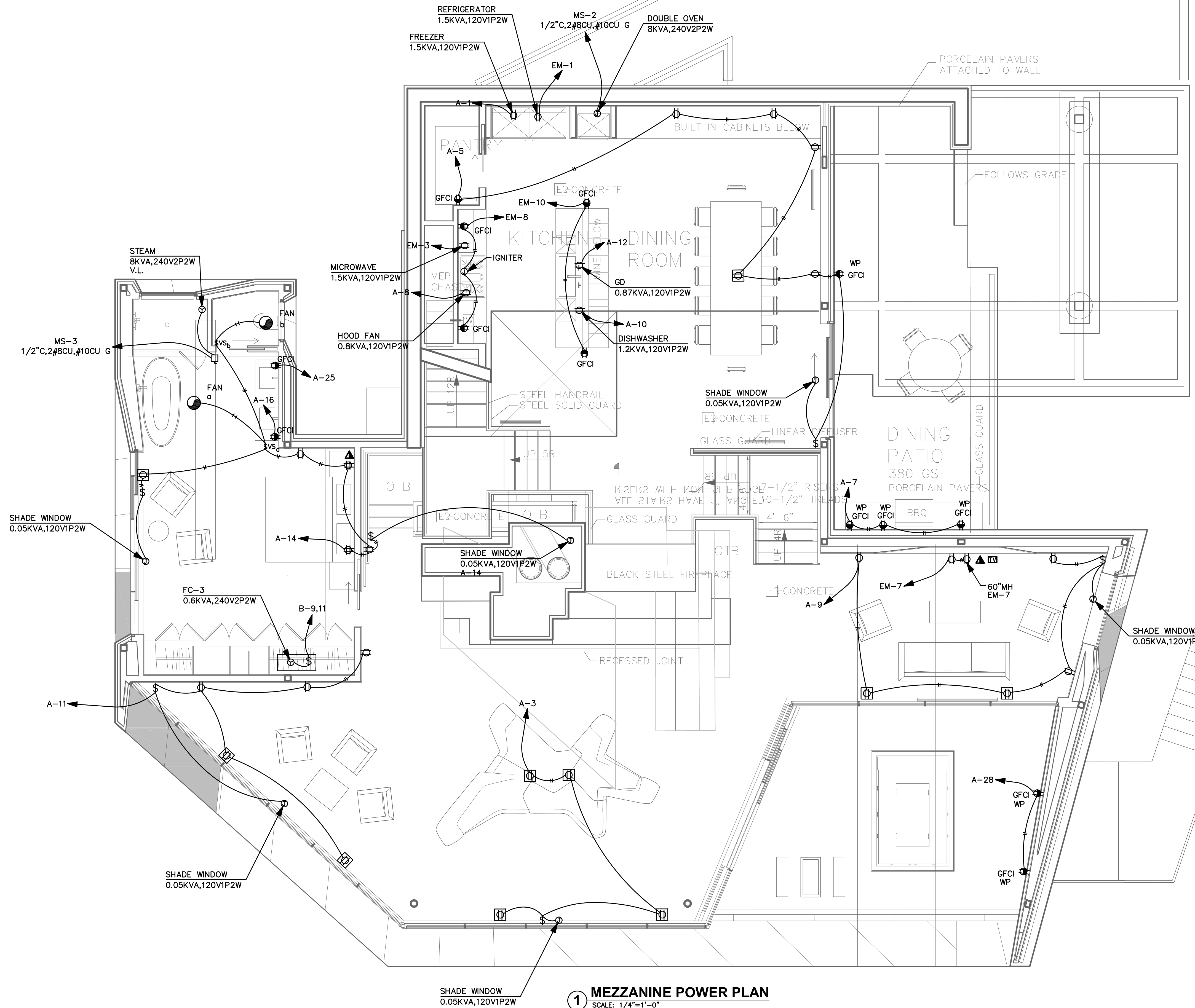


SHEET TITLE

MEZZ. LEVEL LIGHTING PLAN

PROJECT NO.: 2213
SCALE: 1/4"=1'-0"
DATE: 06-04-18
BY: VA
CHECKED: HRA
DRAWING NO. **E-5.0**

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

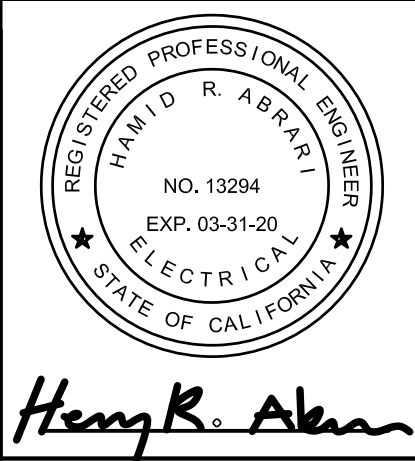
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3	X	X	
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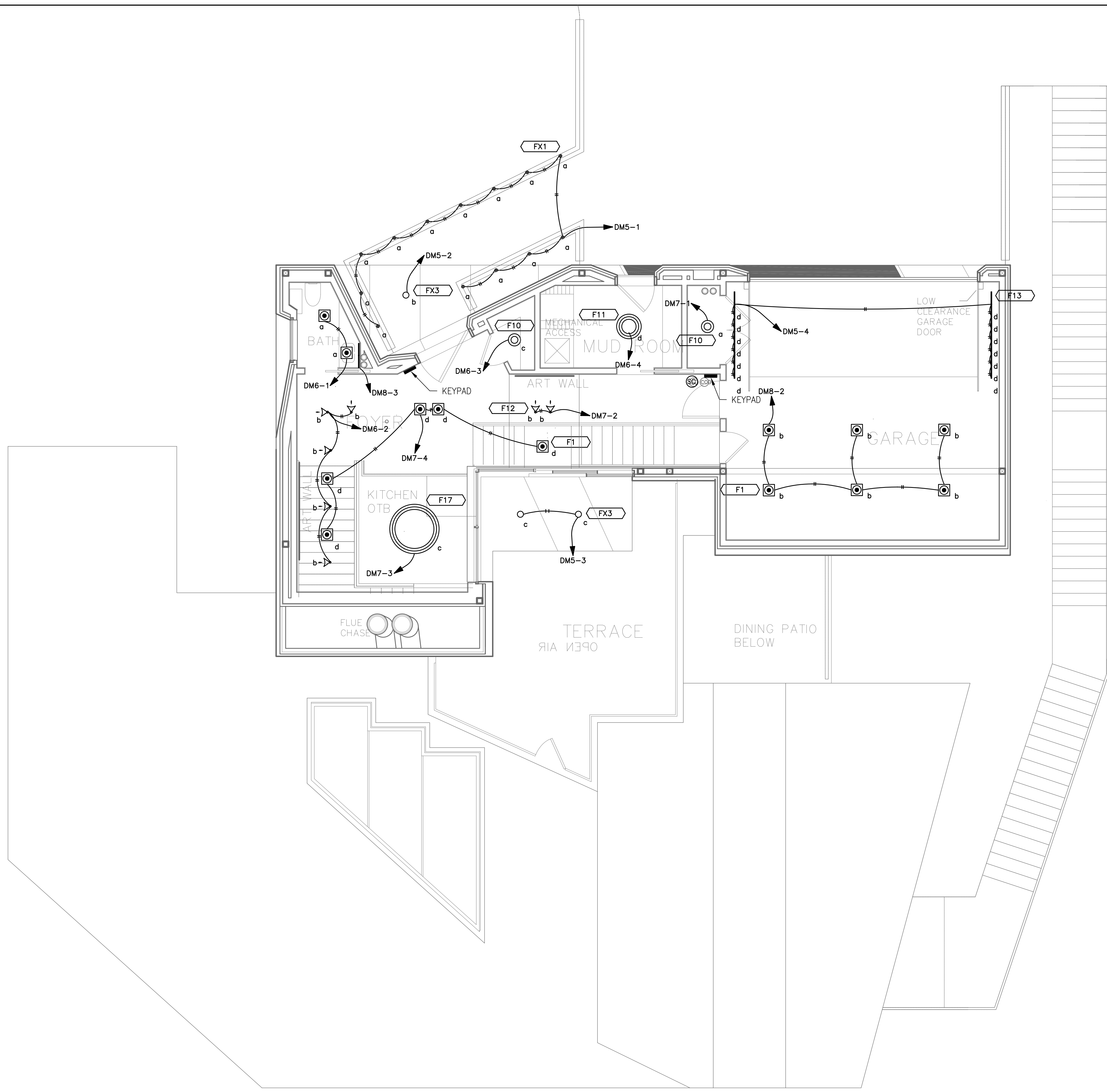


SHEET TITLE

MEZZANINE POWER PLAN

PROJECT NO.:	2213
SCALE:	1/4"=1'-0"
DATE:	06-04-18
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1 ENTRY LEVEL LIGHTING PLAN
SCALE: 1/4"=1'-0"

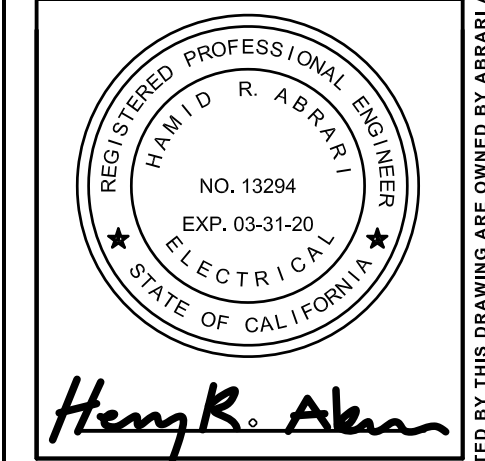
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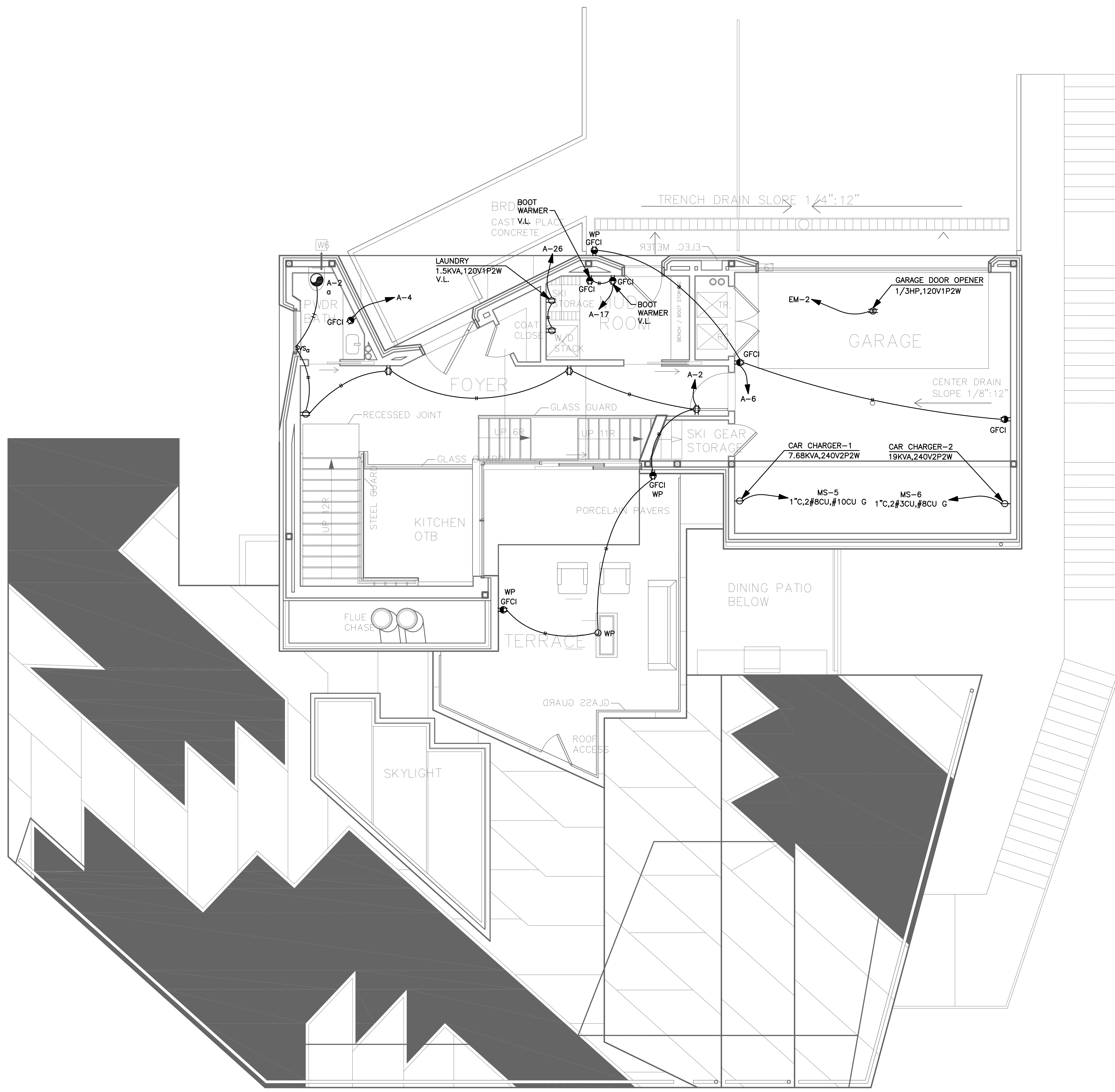


SHEET TITLE

ENTRY LEVEL LIGHTING PLAN

PROJECT NO.:	2213
SCALE:	1/4"=1'-0"
DATE:	06-04-18
BY:	VA
CHECKED:	HRA
DRAWING NO.	E-6.0

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1 ENTRY LEVEL POWER PLAN
SCALE: 1/4"=1'-0"

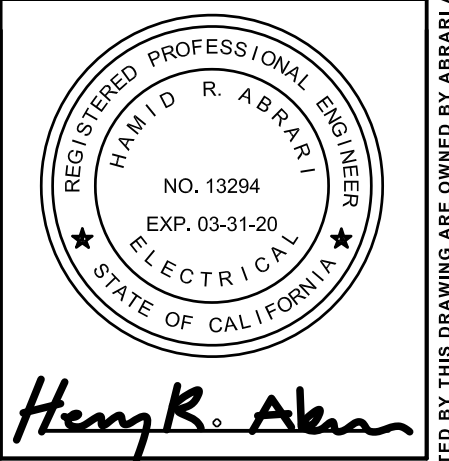
REV.	DATE	BY	DESCRIPTION
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B	X	X	
C	X	X	
D	X	X	

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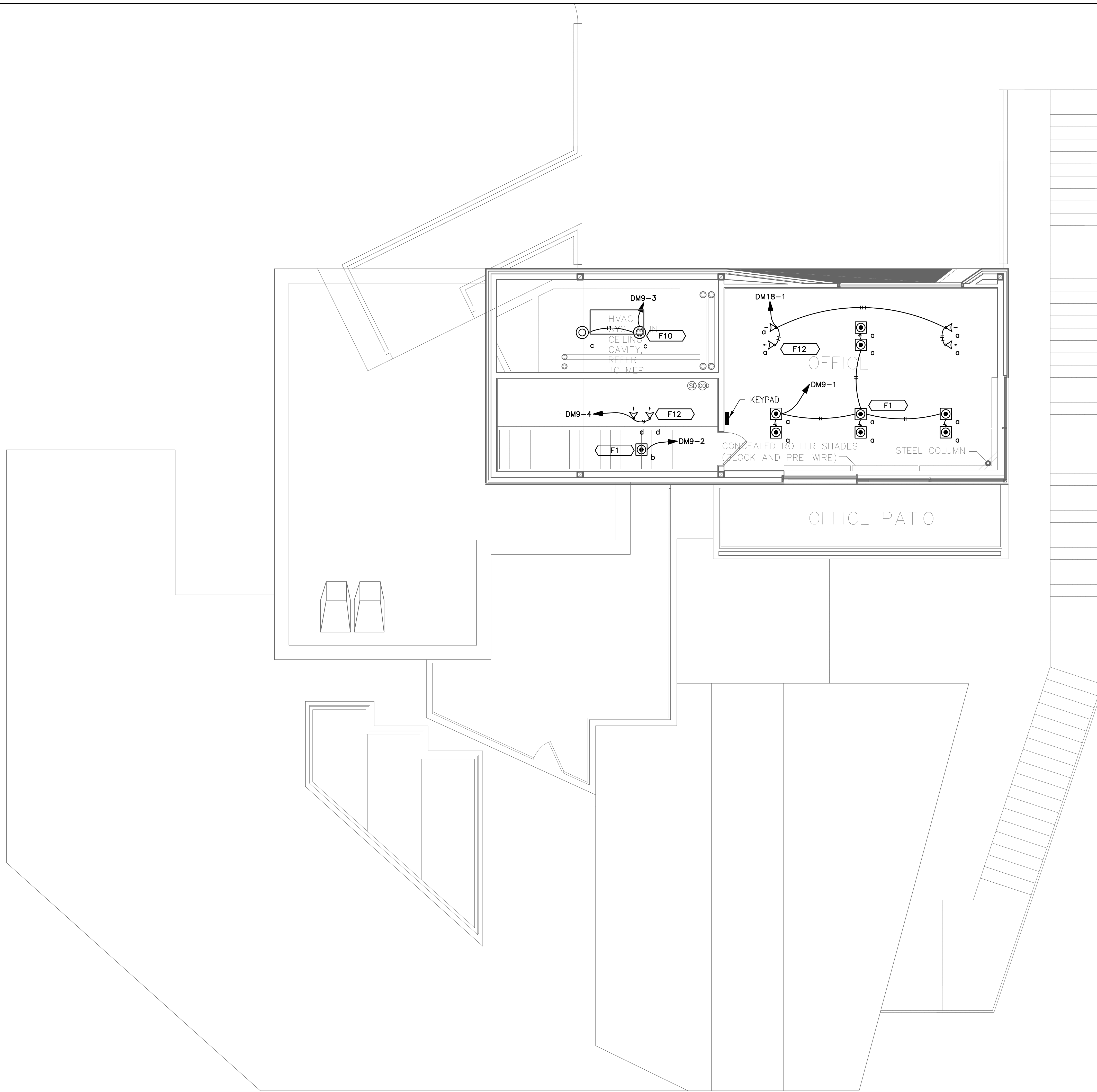


SHEET TITLE

ENTRY LEVEL POWER PLAN

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

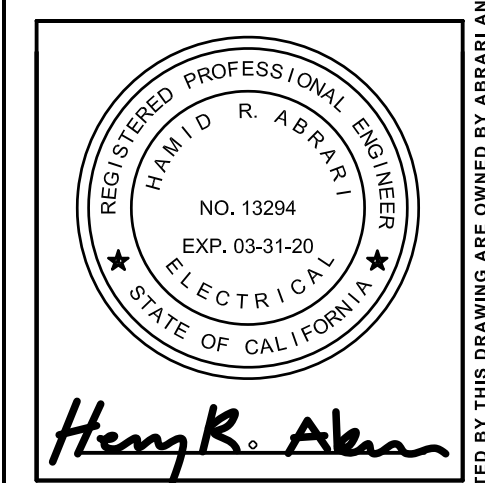
REV.	DATE	BY	DESCRIPTION
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10			

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PROJECT

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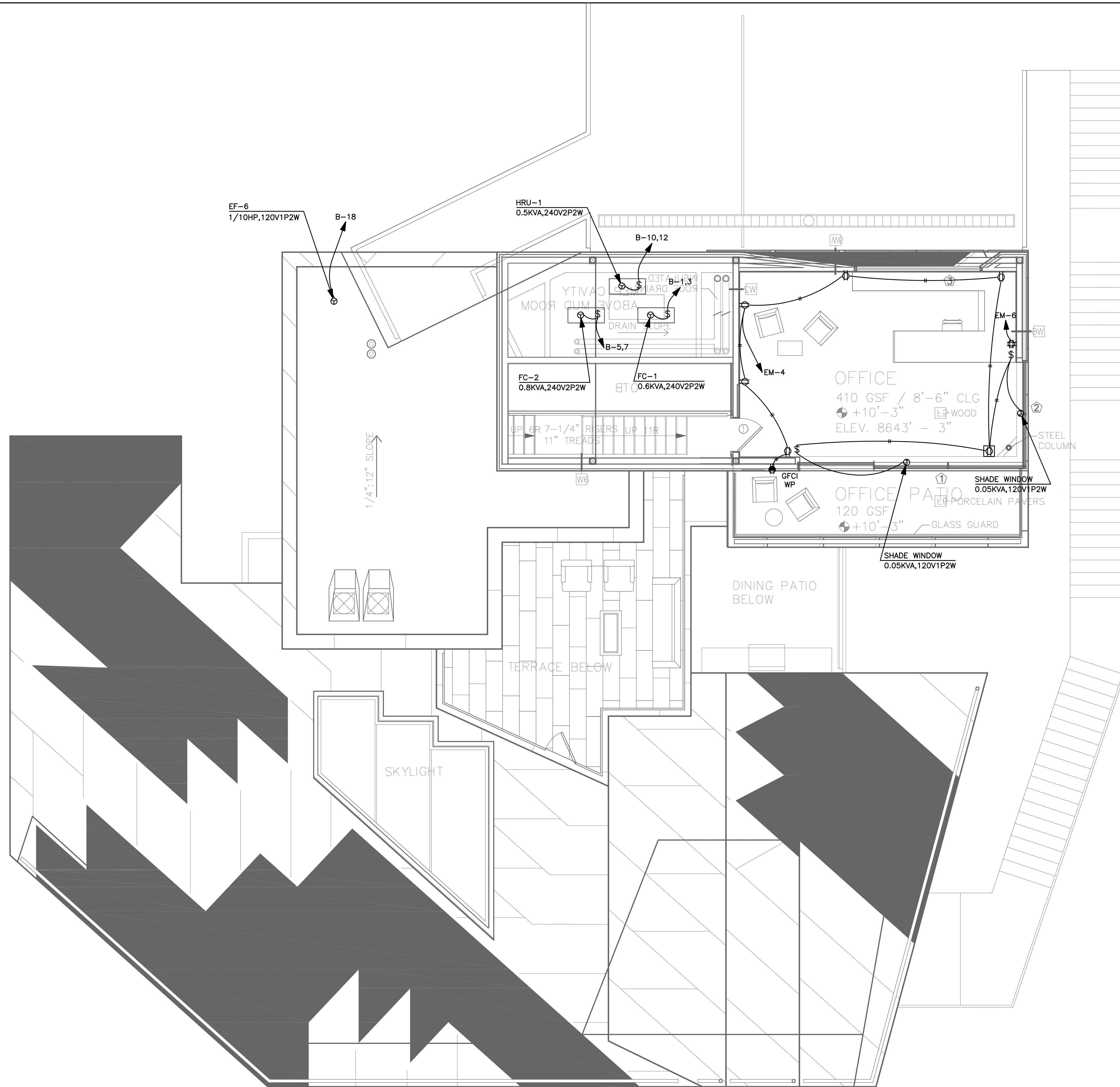


SHEET TITLE

PENTHOUSE LIGHTING PLAN

PROJECT NO.:	2213
SCALE:	1/4"=1'-0"
DATE:	06-04-18
BY:	VA
CHECKED:	HRA
DRAWING NO.	E-7.0

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1 PENTHOUSE POWER PLAN
SCALE: 1/4"=1'-0"

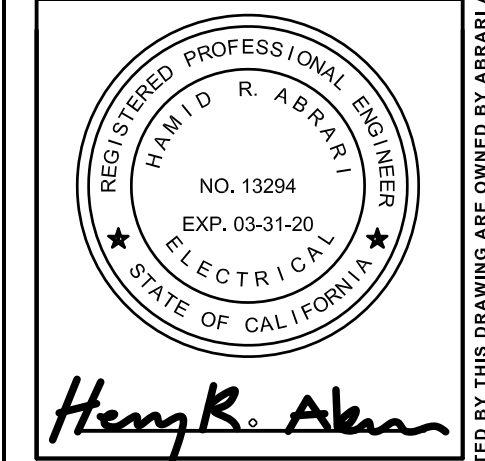
REV.	DATE	BY	DESCRIPTION
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B	X	X	
C	X	X	
D	X	X	

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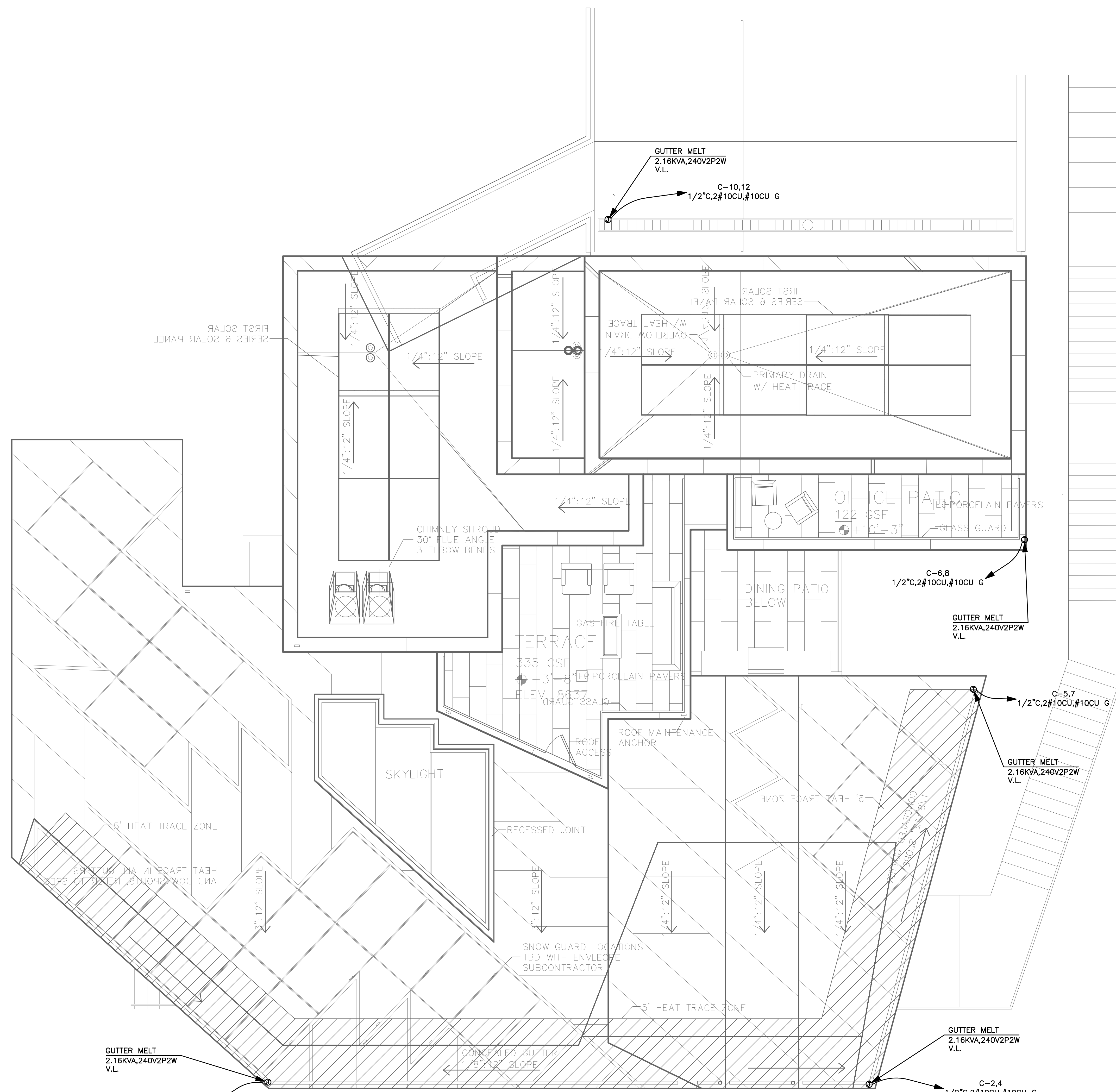
PROJECT

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SHEET TITLE	
PENTHOUSE POWER PLAN	
PROJECT NO.:	2213
SCALE:	1/4"=1'-0"
DATE:	06-04-18
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1 ROOF ELECTRICAL PLAN
SCALE: 1/4"=1'-0"

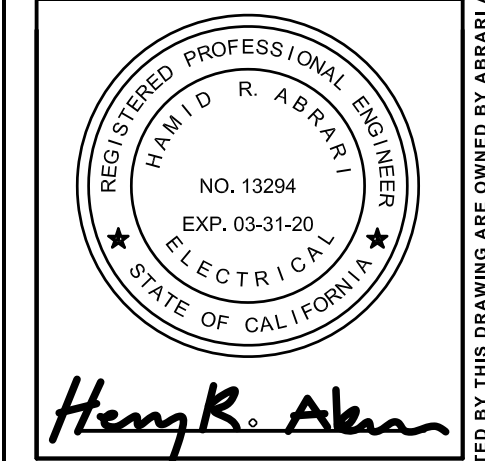
REV.	DATE	BY	DESCRIPTION
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B	X	X	
C	X	X	
D	X	X	

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SHEET TITLE

ROOF ELECTRICAL PLAN

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

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