ELECTRICAL LOAD ANALYSIS - MDP (NEC 2023 ARTICLE 220)

LOAD			KVA	AMPS @ 208/120V, 3P,4W PHASE "A"	PHASE "B"	PHASE "C"	NEUTRAL
A.	LIGHTING LOAD:						
	A.	EXTERIOR LIGHTS: 5.605 KVA (SIGN, SITE LIGHTS, PORTE COCHERE,...)	7.0	19	19	19	19
	B.	INTERIOR LIGHTS: 13.888 KVA (LOBBY, LOUNGE, BREAKFAST AREA, CORRIDOR,...)	17.4	48	48	48	48
B.	GUEST ROOMS UNIT LOADS: (Table 220.12 & 42)						
	1.	35,965 SF x 1.7 VA = 61,141 VA - FIRST 20,000VA @ 60%	12.0	33	33	33	33
		REMAINING 41,141 VA @ 50%	20.6	57	57	57	57
	2.	VANITY RCPTS @ 180VA X 90 UNITS	16.2	45	45	45	45
	3.	A/C, COOLING NON-COINCIDENT LOAD HEAT GREATER @ 2.5KVA x 90 UNITS	225.0	625	625	625	
	4.	REFRIG/MICRO/COFFEE MAKER @ 1.3KVA x 90 UNITS	117.0	325	325	325	325
C.	STAFF ROOMS UNIT LOADS: (Refer to Staff Rms Load Analysis this sheet)						
	1.	TOTAL 221,2KVA @ 43 % (NEC 220.84)	95.1	264	264	264	264
D.	HOUSE LOADS:						
	1.	DRYER 3@1.5KVA & 6@5 KVA	34.5	96	96	96	
	2.	WASHER 3@6 KW(7.05KVA) & 6@1.8 KW(2.12KVA)	33.9	94	94	94	81
	3.	VENDING/ICE MACHINES: 6@1.5KVA	9.0	25	25	25	25
	4.	GENERAL RCPTS 231@180 VA FIRST 10,000 VA @ 100%	10.0	28	28	28	28
		REMAINING 31640 VA @ 50%	15.8	44	44	44	44
	5.	SERVICES EQUIPMENT 102.528 KVA @65%	66.6	185	185	185	185
	6.	ELECTRIC CHARGING STATION 8x33KVA@125%	330.0	916	916	916	
	7.	MISCELLANEOUS (Fire Alarm, IT, etc)	13.2	37	37	37	37
E.	MECHANICAL LOADS:						
	1.	MECHANICAL FANS	4.0	11	11	11	11
	2.	AHU'S (HEATING)/COOLING@ 100%	275.1	764	764	764	
	3.	ELEVATORS: 2@15HP (2@13.24KVA)@100%	26.5	73	73	73	
	4.	PUMPS	12.6	35	35	35	10
	5.	LARGEST MOTOR (DOAS-1) @65.3KVA@125%	81.6	226	226	226	
F.	TOTAL DEMAND LOAD:		1423.0	3,950	3,950	3,950	1,213
G.	PANEL "MDP" (AMPS)			4,000	4,000	4,000	4,000
H.	CONDUCTORS SELECTION: (TABLE 310.15(B)(16)) @ 75°C (167° F) RATING:			11-600 KCMIL AL, THWN (4,235 Amps)	11-600 KCMIL AL, THWN (4,235 Amps)	11-600 KCMIL AL, THWN (4,235 Amps)	11-600 KCMIL AL, THWN (4,235 Amps)
I.	SERVICE TRANSFORMER CAPACITY (KVA)			WILL BE PROVIDED BY UTILITY			

ELECTRICAL LOAD ANALYSIS
SCALE: NTS

TYPICAL STAFF ROOMS/ W KITCHENETTE LOAD ANALYSIS (NEC2023)

No.	Rm Type	Area	General Lighting Load (Area x 3VA/SF)-120V (NEC 220.12)	Small Appliances (1,500VA x 2 Circuits)-120V (NEC 220.52)	CookTop (208V)	Microwave (120V)	Range Hood (120V)	Dishwasher (120V)	Disposer (120V)	Refrigerator (120V)	Washer (120V)	Dryer (NEC 220.54)	PTAC No.1 (208V)	Total (VA) (PANEL)	PANEL	# Rms	SUB-LOAD (#Rms x VA Panel)
1	STAFF TYPE A	360	1080	3,000	2,600	1,300	300	1,100	480	800	1,800	5,000	2,500	19,960	PANEL A (125A)	6	119,760.0
2	STAFF TYPE B	430	1,290	3,000	2,600	1,300	300	1,100	480	800	1,800	5,000	2,500	20,170	PANEL A (125A)	2	40,340.0
3	STAFF TYPE C	430	1,290	3,000	2,600	1,300	300	1,100	480	800	1,800	5,000	2,500	20,170	PANEL A (125A)	1	20,170.0
4	STAFF TYPE A.1	417	1,251	3,000	2,600	1,500	300	1,100	480	1,800	2,115	2,115	2,115	20,491	PANEL A (125A)	2	40,982.0
															TOTAL RMS:	11	
	TOTAL CONNECTED STAFF RM LOAD:																221,252
	DEMAND FACTOR (TABLE 220.84 FOR 11 STAFF RM UNITS):																0.43
	DEMAND LOAD (VA):																95,138

TYPICAL STAFF ROOMS/ W KITCHENETTE LOAD ANALYSIS
SCALE: NTS

☐ KEY NOTE:

1. 240V, 3P, 60A, 22kA DISCONNECT SWITCH W/60A CURRENT LIMITING CLASS RK1 FUSES (10KAIC) IN NEMA-1 ENCLOSURE.
2. 240V, 3P, 200A DISCONNECT SWITCH W/175A CURRENT LIMITING CLASS RK1 FUSES (22KAIC) IN NEMA-3R ENCLOSURE.
3. 240V, 3P, 100A DISCONNECT SWITCH W/80A CURRENT LIMITING CLASS RK1 FUSES (10KAIC) IN NEMA-3R ENCLOSURE.

FEEDER SCHEDULE

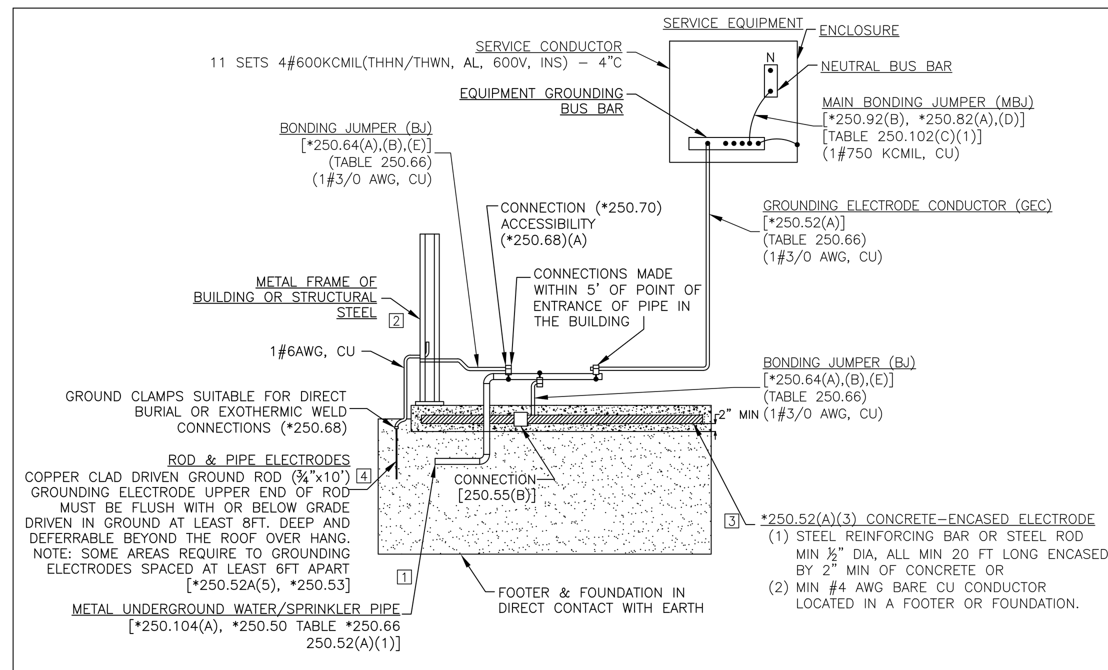
KEY	SETS	TYPE	RATING @ 75°C (167°F)	SIZE	GROUND(CU)	CONDUIT
1	1	ALUMINUM, THWN	120A	4 #1/0 AWG	# 8G	1-1/2"C
2	1	ALUMINUM, THWN	135A	4 #2/0 AWG	# 6G	2"C
3	1	ALUMINUM, THWN	155A	4 #3/0 AWG	# 6G	2-1/2"C
4	1	ALUMINUM, THWN	180A	4 #4/0 AWG	# 6G	2-1/2"C
5	1	ALUMINUM, THWN	230A	4 #300 KCMIL	# 4G	3"C
6	1	ALUMINUM, THWN	310A	4 #500 KCMIL	# 4G	3-1/2"C
7	2	ALUMINUM, THWN	410A	4 #250 KCMIL	# 3G	3"C
8	2	ALUMINUM, THWN	620A	4 #500 KCMIL	# 1G	3-1/2"C
10	11	ALUMINUM, THWN	4235A	4 #600 KCMIL		4"C
11	2	ALUMINUM, THWN	360A	4 #4/0 AWG	# 3G	2-1/2"C

FEEDER SCHEDULE

KEY	SETS	TYPE	RATING @ 60°C (140°F)	SIZE	GROUND(CU) (TABLE 250.122)	CONDUIT
9	1	COPPER, TW	70A	4 #4 AWG	# 8G	1-1/4"C
10	1	ALUMINUM, THWN	90A	4 #2 AWG	# 8G	1-1/4"C

◇ KEY NOTES:

1. ELEVATOR CONTROL PANEL, WIRING & CONDUCTS PER MANUFACTURER.
2. PROVIDE SURGE PROTECTIVE DEVICE (SPD) UNIT, WITHIN MAIN SWITCHBOARD ENCLOSURE. MOUNT DIRECTLY TO BUS AFTER METTER AND MAIN CIRCUIT BREAKER AND CONNECT PER MFR DOCS. SPD TO BE 100K AIC MIN.



DETAIL "G" OF GROUNDING ELECTRODE SYSTEM (*250.50) & GROUNDING ELECTRODES (*250.52) AS SERVICE
SCALE: NTS

NEC 250.52 GROUNDING ELECTRODES
(A) ELECTRODES PERMITED FOR GROUNDING (REQUIRED)

1 METAL UNDERGROUND WATER PIPE, INSTALLED PER *250.53 (D)(1) & (D)(2)

2 METAL FRAME OF THE BUILDING OR STRUCTURAL

3 CONCRETE-ENCASED ELECTRODE (UFER)

(ADDITONAL, NOT NECESSARILY REQUIRED)

WHERE NONE OF THE PERMITTED GROUNDING ELECTRODE EXIST ONE OR MORE OF THE GROUNDING ELECTRODES SPECIFIED IN *250.52(A)(4) THROUGH (A)(7) SHALL BE INSTALLED, AS FOLLOWS:

4 ROD AND PIPE ELECTRODES, INSTALLED PER *250.53(A)(B)(G), SIZED PER *250.66(A)

5 GROUND RING, INSTALLED PER *250.53(F), SIZED PER *250.66(C). (NOT SHOWN IN DETAIL)

6 PLATE ELECTRODES, INSTALLED PER *250.53(A)(B)(H), SIZED PER *250.66(A) (NOT SHOWN IN DETAIL)

7 OTHER LOCAL METAL UNDERGROUND SYSTEMS OR STRUCTURES (NOT SHOW IN DETAIL)

NOTES:

1. ALL GROUNDING ELECTRODES AS DESCRIBED IN *250.52(A)(1) THRU (A)(7) THAT ARE PRESENT AT EACH BUILDING OR STRUCTURE SERVED SHALL BE BONDED TOGETHER TO FORM THE GROUNDING ELECTRODE SYSTEM. WHERE NONE OF THESE ELECTRODES ARE AVAILABLE, ONE OR MORE OF THE ELECTRODES SPECIFIED IN [(*250.52A(4) THROUGH A(7)] SHALL BE INSTALLED AND USED.

EXCEPTION: CONCRETE-ENCASED ELECTRODES OF EXISTING BUILDINGS OR STRUCTURES SHALL NOT BE REQUIRED TO BE PART OF THE GROUNDING ELECTRODE SYSTEM WHERE THE STEEL REINFORCING BARS OR RODS ARE NOT ACCESSIBLE FOR USE WITHOUT DISTURBING THE CONCRETE.

2. COMMUNICATIONS SYSTEM BONDING TERMINATIONS SHALL BE CONNECTED IN ACCORDANCE WITH *250.94
3. * MEANS NATIONAL ELECTRICAL CODE (2023 NEC)

NOTES:

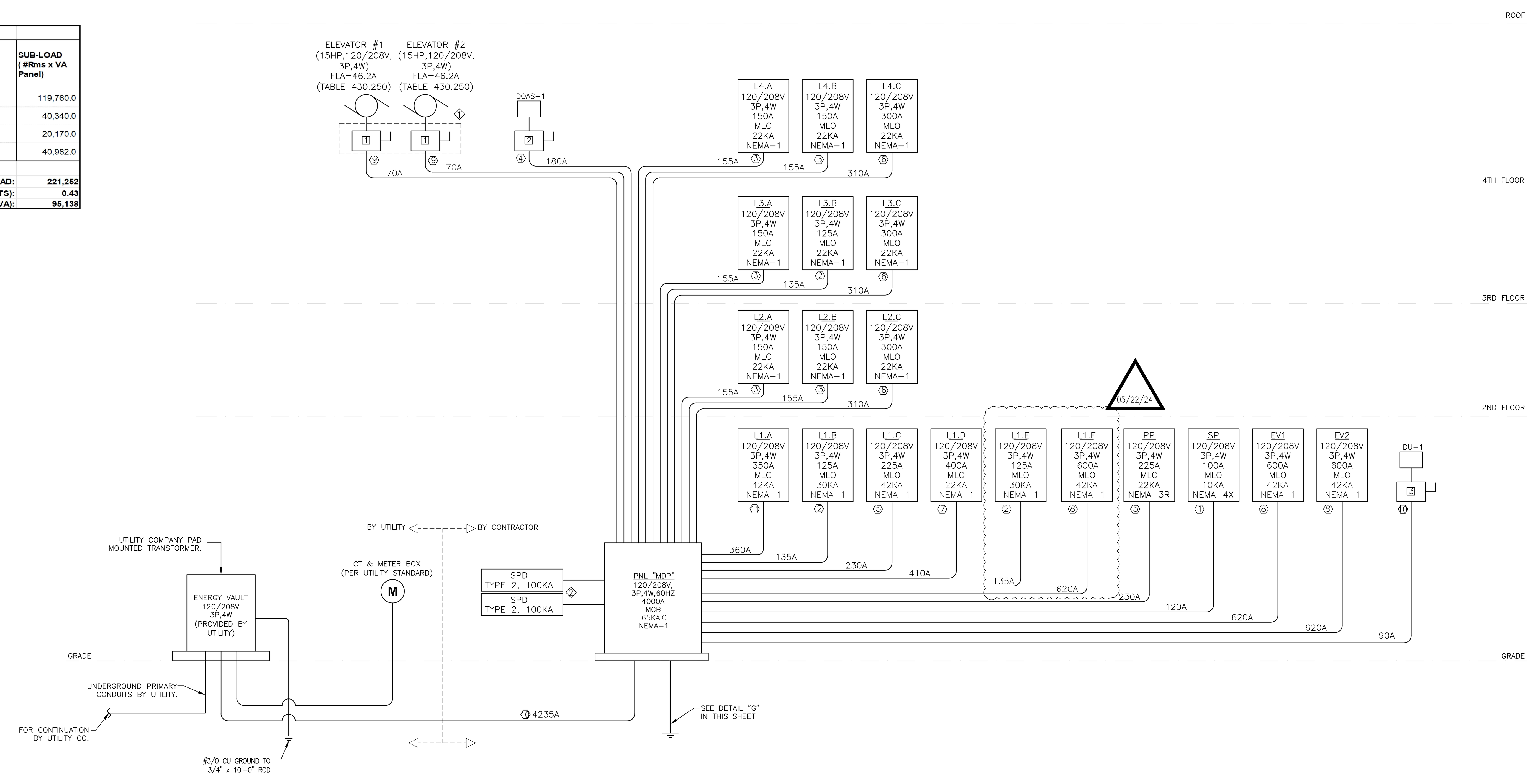
FOR HOME RUNS 100FT OR MORE, THE ELECTRICAL CONTRACTOR HAS TO CHECK THE VOLTAGE DROP AND SELECT THE SUITABLE CABLES TO COMPLY WITH THE MAXIMUM ALLOWED VOLTAGE DROP FOR THE FEEDER CONDUCTOR (3%). THE MAXIMUM COMBINED VOLTAGE DROP ON BOTH INSTALLED FEEDER CONDUCTORS AND BRANDCH CIRCUIT CONDUCTORS TO THE FARTHEST CONNECTED LOAD OR OUTLET SHALL NOT EXCEED 5 PERCENT.

NOTE FOR POWER BACK-UP (IBC 2021):

CONTRACTOR HAVE TO VERIFY WITH CITY/INSPECTOR TO PROVIDE BACK-UP FOR ACCESSIBLE MEANS OF EGRESS ELEVATORS, EXHAUST FANS PER IBC REQUIRED

NOTES FOR ELEVATOR:

1. CONTRACTOR SHALL VERIFY ALL OF THE ELECTRICAL REQUIREMENTS WITH ELEVATOR SUPPLIER/ MANUFACTURER PRIOR TO INSTALLATION.
2. CONTRACTOR SHALL VERIFY WITH THE ELEVATOR MANUFACTURER FOR THE APPROVED TYPE OF CABLES USING FOR THE ELEVATORS PRIOR TO PLACING ORDER/ INSTALLATION.
3. THE CONTRACTOR MUST SELECT THE ELEVATORS MODEL WITH THE SHORT CIRCUIT RATING (SCCR) TO MATCH THE SHORT CIRCUIT CALCULATION VALUE SHOWN ON THE ELECTRICAL PLAN.
4. THE CONTRACTOR MUST VERIFY HPs, CABLE SIZES, BREAKER LUGS, DISCONNECT SWITCH, ETC OF THE ELEVATORS WITH THE MANUFACTURER & CODES REQUIREMENTS PRIOR TO INSTALLATION.



ELECTRICAL ONE LINE DIAGRAM
SCALE: NTS

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MEP GREEN DESIGN & BUILD
FAST AND ACCURATE

MAY 22, 2024
COLORADO REGISTERED DUNG D. VU 51953 PROFESSIONAL ENGINEER

Holiday Inn Express
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DRAWING ISSUE DATES:
8/18/23 Permit Set

REVISION DATES:
10/19/23 Staff/GM Toilets, Permit Revisions
11/29/23 Mt. Werner Revisions
02/15/24 Pool Removal, Guest Room Addition
03/05/24 Updated plans
05/14/24 Updated plans
05/22/24 Updated per Submittal

PROJECT MANAGER:
DV

DRAWN BY:
PL

SHEET TITLE:
ELECTRICAL ONE LINE DIAGRAM

E1.0
SHEET: 116 OF 142

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ASI #2 5/28/24

ELECTRICAL SHORT CIRCUIT (NEC 2023)

Fault current provided by Utility: 40,000 A

Total motor power (kW)	Total FLA
328.13	911

Panel of Feeder Origin	Ckt Brkr size (A)	Wire AWG /Kcmil (feeder)	Material	Sqrt(3) or 2	L (Length of feeder)	Isc orig from upstream source	# of Parallel Conductors	C (Table 4)	Voltage	F	M = 1/(1+F)	Isc orig x M	Isc motors = (Total FLA x 6) Note (1)	Total Isc = (Isc orig x M) + Isc motors)	A.I.C Rating Selection (KA) (Amps)
Utility Transformer - MDP	**4,000**	**600**	(AL)	1.732	50	40,000	11	23,451	208	0.065	**0.939**	**37,574**	**5,465**	**43,039**	**65**
MDP-L1.A Panel	**350**	**4/0**	(AL)	1.732	20	37,574	2	10,741	208	0.291	**0.774**	**29,098**	**5,465**	**34,563**	**42**
MDP-L1.B Panel	**125**	**2/0**	(AL)	1.732	20	37,574	1	7,187	208	0.871	**0.535**	**20,086**	**5,465**	**25,551**	**30**
MDP-L1.C Panel	**225**	**300**	(AL)	1.732	20	37,574	1	13,910	208	0.450	**0.690**	**25,916**	**5,465**	**31,381**	**42**
MDP-L1.D Panel	**400**	**250**	(AL)	1.732	120	37,574	2	12,122	208	1.549	**0.392**	**14,743**	**5,465**	**20,208**	**22**
MDP-L1.E Panel	**125**	**2/0**	(AL)	1.732	20	37,574	1	7,187	208	0.871	**0.535**	**20,086**	**5,465**	**25,551**	**30**
MDP-L1.F Panel	**600**	**500**	(AL)	1.732	20	37,574	2	18,756	208	0.167	**0.857**	**32,202**	**5,465**	**37,667**	**42**
MDP-EV1 Panel	**600**	**500**	(AL)	1.732	20	37,574	2	18,756	208	0.167	**0.857**	**32,202**	**5,465**	**37,667**	**42**
MDP-PP Panel	**225**	**300**	(AL)	1.732	120	37,574	1	13,910	208	2.699	**0.270**	**10,158**	**5,465**	**15,622**	**22**
MDP-SP Panel	**100**	**1/0**	(AL)	1.732	200	37,574	1	5,777	208	10.832	**0.085**	**3,176**	**5,465**	**8,641**	**10**
MDP-EV2 Panel	**600**	**500**	(AL)	1.732	20	37,574	2	18,756	208	0.167	**0.857**	**32,202**	**5,465**	**37,667**	**42**
MDP-L2.A Panel	**150**	**3/0**	(AL)	1.732	140	37,574	1	8,826	208	4.963	**0.168**	**6,301**	**5,465**	**11,766**	**22**
MDP-L2.B Panel	**150**	**3/0**	(AL)	1.732	140	37,574	1	8,826	208	4.963	**0.168**	**6,301**	**5,465**	**11,766**	**22**
MDP-L2.C Panel	**300**	**500**	(AL)	1.732	140	37,574	1	18,756	208	2.335	**0.300**	**11,265**	**5,465**	**16,730**	**22**
MDP-L3.A Panel	**150**	**3/0**	(AL)	1.732	155	37,574	1	8,826	208	5.495	**0.154**	**5,785**	**5,465**	**11,250**	**22**
MDP-L3.B Panel	**125**	**2/0**	(AL)	1.732	155	37,574	1	7,187	208	6.748	**0.129**	**4,850**	**5,465**	**10,315**	**22**
MDP-L3.C Panel	**300**	**500**	(AL)	1.732	155	37,574	1	18,756	208	2.586	**0.279**	**10,479**	**5,465**	**15,944**	**22**
MDP-L4.A Panel	**150**	**3/0**	(AL)	1.732	170	37,574	1	8,826	208	6.026	**0.142**	**5,348**	**5,465**	**10,812**	**22**
MDP-L4.B Panel	**150**	**3/0**	(AL)	1.732	170	37,574	1	8,826	208	6.026	**0.142**	**5,348**	**5,465**	**10,812**	**22**
MDP-L4.C Panel	**300**	**500**	(AL)	1.732	170	37,574	1	18,756	208	2.836	**0.261**	**9,796**	**5,465**	**15,260**	**22**
MDP-DOAS-1	**175**	**4/0**	(AL)	1.732	190	37,574	1	10,741	208	5.535	**0.153**	**5,750**	**5,465**	**11,215**	**22**
MDP-DU-1	**80**	**2**	(AL)	1.732	200	37,574	1	3,713	208	16.853	**0.056**	**2,105**	**5,465**	**7,569**	**10**
MDP - Elevator-1,2	**60**	**4**	(CU)	1.732	170	37,574	1	3,806	208	13.975	**0.067**	**2,509**	**5,465**	**7,974**	**10**

Notes: - (I): The motor contribution is relatively minor even with the a large number of motors and the x6

5/22/24

SHORT CIRCUIT CALCULATION

SCALE: NTS

VOLTAGE DROP CALCULATION SHEET (NEC 2023)

VOLTAGE DROP CALCULATION FORMULA:

Vd	=	(I x R x L x M) / (P x 1000)			
Vd	=	Maximum Voltage Drop in Volts			
I	=	Current in Amps			
R	=	Resistance in ohms per kilo foot **(Chapter 9, Table 8)**			
L	=	Length of wire one way in feet			
M	=	Multiplier (2 for single phase or 1.732 for three phase)			
P	=	Number of parallel runs			
E_{LL}	=	208 V	(Phase to phase voltage rating)		
M	=	1.732	(Three phase)	M =	2 (Single phase)
%Vd	=	3 %	(Maximum voltage allowed)		
	=	6.24 V			

Panel of Feeder Origin	Current (A)	Wire AWG /Kcmil (feeder)	Material	Sqrt(3) or 2	L (Length of feeder)	R Resistance (C9, Table 8) (Ohm /kFT)	# of Parallel Conductors	Voltage Drop (Vd)	%Voltage Drop (%Vd)
MDP-L1.A Panel	**258**	**4/0**	(AL)	1.732	20	0.1000	2	0.45	0.21%
MDP-L1.B Panel	**55**	**2/0**	(AL)	1.732	20	0.1590	1	0.30	0.15%
MDP-L1.C Panel	**175**	**300**	(AL)	1.732	20	0.0707	1	0.43	0.21%
MDP-L1.D Panel	**293**	**250**	(AL)	1.732	120	0.0847	2	2.58	1.24%
MDP-L1.E Panel	**98**	**2/0**	(AL)	1.732	20	0.1590	1	0.54	0.26%
MDP-L1.F Panel	**321**	**500**	(AL)	1.732	20	0.0424	2	0.24	0.11%
MDP-EV1 Panel	**461**	**500**	(AL)	1.732	20	0.0424	2	0.34	0.16%
MDP-PP Panel	**126**	**300**	(AL)	1.732	120	0.0707	1	1.85	0.89%
MDP-SP Panel	**45**	**1/0**	(AL)	1.732	200	0.2010	1	3.14	1.51%
MDP-EV2 Panel	**461**	**500**	(AL)	1.732	20	0.0424	2	0.34	0.16%
MDP-L2.A Panel	**119**	**3/0**	(AL)	1.732	140	0.1260	1	3.63	1.74%
MDP-L2.B Panel	**108**	**3/0**	(AL)	1.732	140	0.1260	1	3.29	1.58%
MDP-L2.C Panel	**241**	**500**	(AL)	1.732	140	0.0424	1	2.48	1.19%
MDP-L3.A Panel	**119**	**3/0**	(AL)	1.732	155	0.1260	1	4.02	1.93%
MDP-L3.B Panel	**99**	**2/0**	(AL)	1.732	155	0.1590	1	4.24	2.04%
MDP-L3.C Panel	**237**	**500**	(AL)	1.732	155	0.0424	1	2.70	1.3%
MDP-L4.A Panel	**131**	**3/0**	(AL)	1.732	170	0.1260	1	4.86	2.34%
MDP-L4.B Panel	**121**	**3/0**	(AL)	1.732	170	0.1260	1	4.48	2.15%
MDP-L4.C Panel	**239**	**500**	(AL)	1.732	170	0.0424	1	2.98	1.43%
MDP-DOAS-1	**154**	**4/0**	(AL)	1.732	190	0.1000	1	5.07	2.44%
MDP-DU-1	**76**	**1/0**	(AL)	1.732	200	0.2010	1	5.29	2.54%
MDP - Elevator-1,2	**46**	**4**	(CU)	1.732	170	0.3210	1	4.37	2.1%

5/22/24

VOLTAGE DROP CALCULATION

SCALE: NTS

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FAST AND ACCURATE

MAY 22, 2024

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11/29/23 Mt. Werner Revisions
02/15/24 Pool Removal, Guest Room Addition
03/05/24 Updated plans
05/14/24 Updated plans
05/22/24 Updated per Submittal

PROJECT MANAGER:
DV

DRAWN BY:
PL

SHEET TITLE:
ELECTRICAL SHORT CIRCUIT & VOLTAGE DROP CACULATION

E1.1

SHEET: 117 OF 142

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REVIEWED FOR CODE COMPLIANCE
01/12/2024

ELECTRICAL SPECIFICATIONS

1. ALL WORK SHALL COMPLY WITH THE 2023 NATIONAL ELECTRICAL CODE, 2021 INTERNATIONAL BUILDING CODE AND ALL APPLICABLE STATE AND LOCAL ORDINANCES.
2. ALL MATERIAL SHALL BE NEW, UNDAMAGED AND UNBLEMISHED EXCEPT AS NOTED.
3. OBTAIN ALL PERMITS REQUIRED TO DO THIS WORK AND PAY ANY FEES REQUIRED FOR SUCH PERMITS.
4. ALL WORK SHALL BE GUARANTEED FOR A PERIOD OF ONE YEAR FROM TIME OF OWNER ACCEPTANCE, WORK OR EQUIPMENT FOUND TO BE SUBSTANDARD OR FAULTY SHALL BE CORRECTED DURING THIS PERIOD AT NO COST TO THE OWNER. LAMPS ARE EXCLUDED FROM THIS GUARANTEE.
5. SEAL PERIMETER JOINT OF ALL CONDUITS PASSING THROUGH WALLS WITH UL LISTED, G.E. SILICONE COMPOUND OF COLOR SELECTED BY THE ARCHITECT.
6. ALL WORK SHALL BE GROUNDED TO COMPLY WITHOUT EXCEPTION WITH ALL PROVISIONS OF ARTICLE 250 OF THE 2023 NATIONAL ELECTRICAL CODE.
7. PROVIDE TEMPORARY SERVICE AS REQUIRED FOR CONSTRUCTION POWER AND REMOVE SUCH TEMPORARY SERVICE WHEN WORK IS COMPLETED.
8. MAKE ALL ARRANGEMENTS WITH LOCAL POWER COMPANY AND DO ALL WORK NECESSARY TO PROVIDE PERMANENT SERVICE TO THE BUILDING.
9. SAFETY SWITCHES SHALL BE GENERAL DUTY AS MANUFACTURER AS PANEL BOARDS, ETC.
10. PANEL BOARDS SHALL BE SQUARE D, SIEMENS, EATON OR G.E., OR CUTLER-HAMMER AND BUSSING SHALL BE COPPER ONLY. PRIOR TO ORDERING/INSTALLATION, THE CONTRACTOR MUST SUBMIT THE GEAR SUBMITTAL TO THE PLAN REVIEWER/CITY INSPECTOR FOR FINAL APPROVAL REGARDING WHETHER IF THE SERIES RATED IS ACCEPTABLE.
11. ALL FUSES SHALL BE BUSSMAN "CURRENT LIMITING" TYPE UNLESS O/W INDICATED.
12. CONDUITS RUNNING IN BUILDING SHALL BE CONCEALED IN WALLS OR ABOVE CEILING AND SHALL BE PVC. UNDERGROUND FEEDER RUN 30" BELOW GRADE CAN BE SCHEDULE 80 PVC WITH GROUND WIRE SIZED IN ACCORDANCE WITH THE 2023 NATIONAL ELECTRICAL CODE.
13. ALL WIRE SHALL BE COPPER USING TYPE "THWN/THHN" UNLESS OTHERWISE INDICATED ON THE PLANS. THE ELECTRICAL CONTRACTOR MUST VERIFY THE AMPERE RATING AND THE VOLTAGE DROP OF THE WIRE TO ENSURE IT COMPLIES WITH NEC REQUIREMENT.
14. COORDINATE COLOR AND STYLE OF WIRING DEVICES (HUBBELL) WITH THE ARCHITECT. SPECIFICATIONS SHOULD BE ON DRAWINGS.
15. COORDINATE ALL CONTROL REQUIREMENTS FOR THE HVAC SYSTEMS WITH THE CONTRACTORS. PROVIDE POWER (TO A/C CONTROL PANEL WHEN USED) AND EMT 3/4" CONDUIT FOR CONTROL WIRING.
16. COORDINATE LOCATION OF TELEPHONE OUTLETS WITH THE OWNER. PROVIDE 3/4" CONDUIT (W/PULL-STRING) FOR PHONE WIRING.
17. PROVIDE SPECIFIED LIGHT FIXTURES WITH FINAL LOCATIONS PER THE ARCHITECT.
18. ALL SWITCHES @ +48" TO TOP OF SWITCH BOXES, 15" TO BOTTOM OF RECEPTACLE BOXES UNO.
19. COORDINATE ALL ELECTRICAL WORK WITH OTHER TRADES TO AVOID ANY CONFLICTS. ANY CORRECTIONS REQUIRED TO SATISFY CODE REQUIREMENTS OR CLIENT NOTED DEFICIENCIES SHALL BE MADE AT NO COST TO THE OWNER.
20. ALL ELECTRICAL EQUIPMENT AND INSTALLATIONS SHALL BE OF ADEQUATE STRENGTH TO WITHSTAND, WITHOUT FAILURE, FORCES ENCOUNTERED IN APPLICABLE SEISMIC CATEGORY.
21. PROVIDE A COMPLETE DEVICE COORDINATION STUDY WITH RECOMMENDED INTERRUPTING RATINGS AND SETTINGS FOR ALL ADJUSTABLE TRIP DEVICES. PROVIDE ARC FLASH LABELING PER NEC REQUIREMENTS
22. ROUTE A MAXIMUM OF 3 PHASE CONDUCTORS, 3 NEUTRALS, AND GROUND IN A SINGLE HOME RUN CONDUIT.
23. ALL WIRING SHALL BE RUN CONCEALED WHERE FEASIBLE. CONTRACTOR TO PROVIDE WIREMOLD SYSTEM TO CONCEAL WIRING IN EXPOSED CEILING AREAS.
24. PROVIDE A GREEN CONTINUOUS INSULATED #6 MIN EQUIPMENT GROUNDING CONDUCTOR TO ALL ELECTRICAL , TELECOMMUNICATIONS, AND SECURITY EQUIPMENT SIZED PER NEC 250.122 AND EIA/TIA.
25. ALL 20 AMPERE NONLOCKING-TYPE RECEPTACLES IN GUEST ROOMS ,GUEST BATHROOMS, BREAKFAST ROOM, LOBBY, FITNESS ROOM AND OTHER ASSEMBLY AREAS ACCESSIBLE TO THE PUBLIC SHALL BE TAMPER RESISTANT (406.12 NEC).
26. ELECTRICAL EQUIPMENT INSTALLED IN POOL EQUIPMENT ROOMS TO BE RATED FOR USE IN CORROSIVE ENVIRONMENTS.
27. ALL EXTRA LOW VOLTAGE CABLES SHALL BE INSTALLED IN CONDUIT.
28. MAXIMUM BOX SIZE IN A FIRE-RATED WALL SHALL BE 4" X 4" SQUARE. DO NOT INSTALL BOXES BACK TO BACK IN WALLS. IN NONFIRE-RATED AND NONACOUSTIC- RATED WALLS, PROVIDE NOT LESS THAN 6 INCHES (150-MM) HORIZONTAL SEPARATION BETWEEN BOXES INSTALLED IN OPPOSITE SIDES OF WALL. PROVIDE NOT LESS THAN 24 INCHES (610-MM) HORIZONTAL SEPARATION BETWEEN BOXES INSTALLED IN OPPOSITE SIDES OF FIRE-RATED AND ACOUSTIC- RATED WALLS. IN THE CASE IF THE BACK TO BACK BOXES MUST BE INSTALLED, THE CONTRACTOR SHALL FURNISH AND INSTALL APPROPRIATE FIRE PUTTY PADS.
29. CONTRACTOR HAVE TO VERIFY WITH CITY/ INSPECTOR TO PROVIDE BACK-UP FOR ACCESSIBLE MEANS OF EGRESS ELEVATORS, EXHAUST FANS PER IBC REQUIRED.
30. CONTRACTOR SHOULD PROVIDE PROTECTION DEVICE FOR MOTOR LOADS TO COMPLY WITH NEC 430.
31. PROVIDE ARC FAULT BREAKER FOR BRANCH CIRCUITS TO COMPLY WITH ARTICLE 210.12(C).
32. THE COMPLETED ELECTRICAL SYSTEMS MUST BE TESTED, BALANCED, AND COMMISSIONED BY QUALIFIED COMMISSIONER AGENT DURING THE CONSTRUCTION PHASE PRIOR TO FULL OPERATION. FAILURE TO PROPERLY CONDUCT TESTING, BALANCING, AND COMMISSIONING THE ELECTRICAL SYSTEM SHALL RESULT IN SYSTEM DYSFUNCTION, WHICH IS FULLY RESPONSIBLE BY THE CONTRACTOR.
33. THE CONTRACTORS SHALL CONSTRUCT MEP SYSTEM ACCORDING TO MEPG'S PLANS, CALCULATION, DETAILS AND SPECIFICATION. ALL REQUESTS FOR ALTERNATE MATERIAL, EQUIPMENT AND SOLUTIONS MUST BE SUBMITTED THROUGH REQUEST FOR INFORMATION (RFI). FAILURE TO SUBMIT THE RFI SHALL RESULT IN THE DISAPPROVAL OF CHANGE ORDER (IF ANY) FOR THE PROPOSED ALTERNATE MATERIAL, EQUIPMENT, AND SOLUTION.
34. THE CONTRACTORS ARE REQUIRED TO FOLLOW THE SPECIFIED EQUIPMENT'S INSTALLATION MANUAL FROM THE MANUFACTURER.
35. THE CONTRACTORS ARE REQUIRED TO FOLLOW THE LOCAL BUILDING CODE OF AUTHORITY HAVING JURISDICTION.
36. CONTRACTOR SHALL VERIFY ALL OF THE ELECTRICAL REQUIREMENTS WITH ELEVATOR SUPPLIER/ MANUFACTURER PRIOR TO INSTALLATION.
37. THE CONTRACTOR SHALL VERIFY ALL REQUIREMENTS FOR WIRING CONTROL, NEUTRAL WIRES FOR ALL ELECTRICAL EQUIPMENT WITH THE SUPPLIER/ MANUFACTURER PRIOR TO INSTALLATION.
38. THE DRAWINGS ARE GENERALLY DIAGRAMMATIC AND IT IS THE INTENT AND MEANING OF THE CONTRACT DOCUMENTS THAT THE CONTRACTOR SHALL PROVIDE AN ELECTRICAL INSTALLATION THAT IS COMPLETED WITH ALL ITEMS AND APPURTENANCES NECESSARY, REASONABLE INCIDENTAL, OR CUSTOMARILY INCLUDED, EVEN THOUGH EACH AND EVERY ITEM IS NOT SPECIFICALLY CALLED OUT OR SHOWN. THE CONTRACTOR SHALL PROVIDE ALL EQUIPMENT, MATERIALS, LABOR, SUPERVISION AND SERVICE NECESSARY SO AS TO PROVIDE A COMPLETE, FUNCTIONING ELECTRICAL SYSTEM IN SAFE WORKING ORDER.
39. IT SHALL BE THE RESPONSIBILITY OF EACH CONTRACTOR TO EXAMINE THE CONTRACT DOCUMENTS CAREFULLY BEFORE SUBMITTING THEIR BID, WITH PARTICULAR ATTENTION TO ERRORS, OMISSIONS, CONFLICTS WITH PROVISIONS OF LAWS AND CODES HAVING JURISDICTION, CONFLICTS BETWEEN DRAWINGS OR DRAWINGS AND SPECIFICATIONS, AND AMBIGUOUS DEFINITION OF THE EXTENT OF COVERAGE BETWEEN CONTRACTS. ANY SUCH DISCREPANCY SHALL BE BROUGHT IMMEDIATELY TO THE ATTENTION OF THE ARCHITECT FOR CORRECTION. SHOULD ANY OF THESE ERRORS, OMISSIONS, CONFLICTS, OR AMBIGUITIES EXIST, THE CONTRACTOR SHALL HAVE THEM EXPLAINED AND ADJUSTED IN WRITING BEFORE SIGNING THE CONTRACT OR PROCEEDING WITH THE WORK; OTHERWISE, THE CONTRACTOR SHALL, AT THEIR OWN EXPENSE, SUPPLY THE PROPER MATERIALS AND LABOR TO MAKE GOOD ANY DAMAGE OR DEFECTS IN THEIR WORK OR THE RESULTS OBTAINED THEREFROM, CAUSED BY SUCH DISCREPANCY.
40. WHEREVER CONFLICTS OCCUR BETWEEN DIFFERENT PARTS OF THE CONTRACT DOCUMENTS, THE GREATER QUANTITY, THE BETTER QUALITY, OR LARGER SIZE SHALL PREVAIL UNLESS THE ARCHITECT INFORMS THE CONTRACTOR OTHERWISE IN WRITING.
41. REFERENCE THE MECHANICAL AND PLUMBING DRAWINGS FOR ALL EQUIPMENT NEEDING ELECTRICAL CONNECTIONS. MAKE ALL CONNECTIONS AND PROVIDE APPROPRIATE WIRE, CONDUIT, AND OVERCURRENT PROTECTION FOR ALL EQUIPMENT.
42. VERIFY EXACT LOCATION OF ALL POWER CONNECTIONS AND CONTROL DEVICES WITH OTHER TRADES AND MANUFACTURERS SHOP DRAWINGS BEFORE CONSTRUCTION. COORDINATE ALL REQUIRED ENERGY MANAGEMENT SYSTEM POINTS AND CONTACT CONNECTIONS TO ENSURE THE COMPLETE AND PROPER OPERATION OF ALL SYSTEMS.
43. ALL FUSED SWITCH AND/OR CIRCUIT BREAKERS SERVING EQUIPMENT SHALL HAVE PROVISIONS FOR HANDLE LOCKS.
44. ALL CIRCUIT BREAKERS SERVING MECHANICAL EQUIPMENT SHALL BE AN 'HACR' RATING.
45. COORDINATE LOCATION OF ALL DISCONNECTS, CONTROL PANELS AND ELECTRICAL CONNECTIONS FOR MECHANICAL AND PLUMBING EQUIPMENT TO MAINTAIN NEC REQUIRED CLEARANCES OF 42" DEEP AND 30" WIDE IN FRONT OF EQUIPMENT.
46. COORDINATE EXACT LOCATIONS OF ALL MECHANICAL EQUIPMENT INCLUDING BUT NOT LIMITED TO F/S DAMPERS, VAV BOXES, FCU'S, ETC WITH MECHANICAL DRAWINGS.
47. ELECTRICAL CONTRACTORS MUST VERIFY ALL ELECTRICAL REQUIREMENTS WITH THE HVAC AND PLUMBING SYSTEMS TO PROVIDE ALL NECESSARY ACCESSORIES TO COMPLETE THE CONTROL WIRING FOR THE MOTORS.
48. THE CONTRACTOR SHALL VERIFY WITH THE OWNER FOR THE APPROVED BRANDS/ MODELS OF THE LOW VOLTAGE SYSTEM DEVICES (CAMERA, CARD READER, WIRELESS ACCESS POINT, ETC.) AND PROVIDE ALL NECESSARY ACCESSORIES TO COMPLETE THE WIRING, POWER SUPPLY FOR THE DEVICES AS PER THE MANUFACTURER SPECIFICATIONS/ INSTALLATION GUIDELINES.
49. CONTRACTOR SHALL VERIFY AND FURNISH EXIT SIGNS TO COMPLY WITH SECTION 1013 IBC REQUIREMENT.
50. PRODUCTS INSTALLED BY THE ELECTRICAL CONTRACTOR AND PROVIDED BY OTHERS MUST BE SUBMITTED FOR REVIEW PRIOR TO PURCHASING. PRODUCTS SHALL NOT BE SELECTED BASED ON PERMIT DRAWINGS WITHOUT EXPRESS PERMISSION. PRODUCTS SHALL BE SELECTED BASED ON CONSTRUCTION DRAWINGS.
51. THE ELECTRICAL CONTRACTOR SHALL PROVIDE ALL REQUIRED CONDUIT, WIRING, AND SAFETY SWITCHES FOR ALL MOTORS, AND OTHER ELECTRICAL EQUIPMENT, EVEN THOUGH THE MOTORS AND ELECTRICAL EQUIPMENT MAY BE SUPPLIED BY OTHERS. THE ELECTRICAL CONTRACTOR SHALL INCLUDE ALL WORK AND CONNECTIONS REQUIRED TO MAKE THE SYSTEM COMPLETE AND OPERATIONAL. PROVIDE MAGNETIC STARTERS FOR EQUIPMENT AS INDICATED ON THE DRAWINGS.
52. TRANSFORMERS SHALL BE INSTALLED ON MINIMUM 3-1/2" CONCRETE PADS, PLUMB AND LEVEL IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS AND APPLICABLE CODES. TERMINATE PRIMARY AND SECONDARY CONDUCTOR WITH COMPRESSION CONNECTORS. GROUNDING TO BE PER NEC. VERIFY INCOMING VOLTAGE TO TRANSFORMER AND SET TAPS AT THE VOLTAGE LEVEL.
53. PROVIDE A NEW LIGHTING SYSTEM COMPLETE AND FULLY OPERATIONAL AND IN CONFORMANCE WITH CODE AND UL LISTING REQUIREMENTS. CLEAN ALL FIXTURES AT TIME OF JOB COMPLETION UTILIZING MANUFACTURES APPROVED OR RECOMMENDED CLEANING SOLUTIONS. ALL FIXTURES AND LAMPS ARE PROVIDED BY THIS CONTRACTOR AS SCHEDULED UNLESS NOTED OTHERWISE. CONTRACTOR SHALL FURNISH ALL BOXES, MOUNTING KITS, TRANSFORMERS, CONTROLLERS, AND OTHER COMPONENTS NECESSARY FOR A COMPLETE AND FULLY FUNCTIONAL INSTALLATION.
54. ALL EQUIPMENT LOCATED OUTDOORS SHALL LABELED NEMA 3R.
55. CONTRACTOR SHOULD REFER TO THE EXHAUST FAN SCHEDULES ON SHEET M1.1 FOR THE CONTROL OF FANS.
56. AS AN ALTERNATE, THE ELECTRICAL SUBCONTRACTOR MAY PROVIDE A COMBINATION FIRE PUMP CONTROLLER WITH AUTOMATIC TRANSFER SWITCH. THE POWER TRANSFER SWITCH SHALL MEET UL STANDARD 1008 AND NFPA 20-10.8.2.1 REQUIREMENTS.
57. DIRECT BURIED CABLE OR CONDUIT OR OTHER RACEWAYS SHALL BE INSTALLED TO MEET THE MINIMUM COVER REQUIREMENTS OF TABLE 300.5.
58. FOR HOME RUNS (FROM UNITS) 100FT OR MORE, THE ELECTRICAL CONTRACTOR HAS TO CHECK THE VOLTAGE DROP AND SELECT THE SUITABLE CABLES TO COMPLY WITH THE MAXIMUM ALLOWED VOLTAGE DROP FOR FEEDER CONDUCTOR (3%). THE MAXIMUM COMBINED VOLTAGE DROP ON BOTH INSTALLED FEEDER CONDUCTORS AND BRANCH CIRCUIT CONDUCTORS TO THE FARTHEST CONNECTED LOAD OR OUTLET SHALL NOT EXCEED 5 PERCENT.
59. CONTRACTOR SHALL FURNISH AND INSTALL ALL RECEPTACLES WITH A SELF-ADHESIVE LABEL STATIN PANELBOARD NAME AND CIRCUIT NUMBER FEEDING DEVICE. APPLY TO COVERPLATE.
60. ALL WIRING SHALL BE IN CONDUIT OR OTHER APPROVED RACEWAYS PER CODES.
61. GFCI TYPE RECEPTACLES SHALL BE SELF-CONTAINED UNITS WITH CLASS "A" SENSITIVITY.
62. WHERE SINGLE POLE BRANCH CIRCUIT CONDUCTORS HAVE BEEN INCREASED ABOVE THE SIZE OF THE CIRCUIT BREAKER TO COMPENSATE FOR VOLTAGE DROP, THE INCREASE SIZE SHALL EXTEND THROUGHOUT THE ENTIRE CIRCUIT, EXCEPT WHERE IT IS NECESSARY TO REDUCE THE SIZE FOR CONNECTION TO SWITCH AND RECEPTACLE TERMINALS, ETC. EQUIPMENT GROUNDING CONDUCTORS SHALL ALSO BE ADJUSTED PROPORTIONATELY PER SECTION 250.122 (B).
63. ELECTRICAL CONTRACTOR SHALL VERIFY SERVICE AND VOLTAGE REQUIREMENTS FOR ALL EQUIPMENT TO BE CONNECTED (BOTH NEW AND EXISTING) PRIOR TO MAKING CONNECTIONS.
64. PROVIDE FIRE AND SMOKE STOP PRODUCT AROUND ALL CONDUIT, EQUIPMENT, ETC. WHICH PENETRATES FLOORS, WALLS, AND CEILINGS.
65. NO PIPING, DUCTS OR REQUIREMENT FOREIGN TO ELECTRICAL EQUIPMENT SHALL BE PERMITTED TO BE LOCATED WITHIN THE DEDICATED SPACE ABOVE ELECTRICAL EQUIPMENT.
66. THE CONTRACTORS ARE REQUIRED TO SUBMIT THEIR VALUED ENGINEERING (IF ANY) TO MEP GREEN DESIGN AND BUILD PLLC FOR ASSESSMENT AND COMMENT/APPROVAL BEFORE EXECUTING THEM ON THE JOB SITE. OTHERWISE, THE CONTRACTORS SHALL HOLD ALL RESPONSIBILITIES REGARDING RESPONDING TO THE INSPECTORS, RESUBMITTING PLANS FOR CITY REAPPROVAL, ETC. DUE TO THE CHANGES MADE ON THE JOB SITE WITHOUT WRITTEN APPROVAL FROM THE ENGINEER OF RECORD AND OWNER.
67. WHEREVER ANY CONFLICTS OCCUR BETWEEN THE SPECIFIED BEAKER SIZE FOR MECHANICAL OR PLUMBING EQUIPMENT OF THE ELECTRICAL PLAN, WITH THE BREAKER SIZE SPECIFIED ON THE MECHANICAL/PLUMBING EQUIPMENT SCHEDULE OF THE PLUMBING/MECHANICAL PLANS, THE VALUES SHOWN ON THE MECHANICAL/PLUMBING SCHEDULE OF THE PLUMBING/MECH PLANS SHALL BE CONFORMED.
68. PROVIDE GFCI PROTECTION FOR ELECTRICAL EQUIPMENT THAT ARE LOCATED NEAR WATER SOURCES AS PER NEC REQUIREMENTS.
69. PROVIDE HANDLE TIES FOR CIRCUIT BREAKERS TO DISCONNECT ALL UNGROUNDED CONDUCTORS SIMULTANEOUSLY ON MULTI-WIRE BRANCH CIRCUITS.
70. ALL DISCONNECT SWITCHES WILL MATCH THE BREAKER /SWITCH SIZE PROTECTING THE SAME BRANCH CIRCUIT/FEEDER IN PANEL RESPECTIVELY.

SYMBOL LIST

SYMB.	DESCRIPTION	MOUNTING OR AS INDICATED	SYMB.	DESCRIPTION	MOUNTING OR AS INDICATED
$	SINGLE POLE SWITCH	WALL – 48"AFF	IT	INTERCOM	
$3	THREE-WAY SWITCH	WALL – 48"AFF	CR	CARD READER	
$D	DIMMER SWITCH	WALL – 48"AFF	DR	DOOR RELEASE	
	GUESTROOM ANNUNCIATOR PUSHBUTTON (5)	WALL – 48"AFF	DA	DURESS ALARM BUTTON	
	CEILING MOUNTED OCCUPANCY SENSOR (2)	CEILING		SECURITY CAMERA	
	WALL MTD OCCUPANCY SENSOR C/W OVERRIDE SWITCH	WALL – 48"AFF		INDICATES HANDICAP ACCESS SUITE	
	DUPLEX RECEPTACLE – 20A	FLOOR		INDICATES HEARING IMPAIRED SUITE	
	GFI DUPLEX RECEPTACLE – 20A	FLOOR	AB	ABOVE COUNTER	
	QUAD-PLEX RECEPTACLE – 20A	FLOOR	AFF	ABOVE FINISHED FLOOR	
	DUPLEX RECEPTACLE – 20A	WALL – 18"AFF	AFG	ABOVE FINISHED GRADE	
	QUAD-PLEX RECEPTACLE – 20A	WALL – 18"AFF	A.I.C	AMPERE INTERRUPTING CAPACITY	
USB	DUPLEX RECEPTACLE – 20A C/W TWO USB PORTS	WALL – 18"AFF	AB	ABOVE COUNTER	
USB	QUAD-PLEX RECEPTACLE – 20A C/W TWO USB PORTS	WALL – 18"AFF	AHU	AIR HANDLING UNIT	
	SPLIT DUPLEX REC. W/LOWER OUTLET SWITCHED – 20A	WALL – 18"AFF	ACCU	AIR COOLED CONDENSING UNIT	
	SPLIT QUAD REC. W/LOWER OUTLETS SWITCHED – 20A	WALL – 18"AFF	ATS	AUTO TRANSFER SWITCH	
	GFI DUPLEX RECEPTACLE – 20A	WALL – 18"AFF	C.F	COMMUNICATION FEATURE	
	GFI QUAD-PLEX RECEPTACLE – 20A	WALL	C.P	CIRCULATE PUMP	
	SPECIAL OUTLET (SEE SCHEDULE)	WALL	CEIL.	CEILING	
	TELEPHONE OUTLET (3)	WALL – 18"AFF	E	INDICATES DEVICE ON EMERGENCY CIRCUIT	
	TELEVISION OUTLET (4)	WALL – AS SHOWN ON PLAN	EAF	EXHAUST AIR FAN	
	FLOOR TELEVISION OUTLET	FLOOR	EOL	END-OF-LINE DIODE	
	DATA OUTLET	WALL – 18"AFF	EUH	ELECTRIC UNIT HEATER	
	WAP	WALL – AS SHOWN ON PLAN	FACP	FIRE ALARM CONTROL PANEL	
	FLOOR HDMI		FAAP	FIRE ALARM ANNUNCIATOR PANEL	
	HDMI		FCU	FAN COIL UNIT	
	JUNCTION BOX		GFI	GROUND FAULT INTERRUPTER	
	SAFETY SWITCH	AS NOTED	HTG	HEATING	
	MOTOR		IG	ISOLATED GROUND	
	DUPLEX VOICE/DATA OUTLET	WALL – 18"AFF	J.P	JOCKEY PUMP	
	FLOOR DUPLEX VOICE/DATA OUTLET	FLOOR	LTG	LIGHTING	
	FIRE ALARM MANUAL PULL STATION	WALL – 48"AFF	LGR	LARGEST MOTOR	
	GUESTROOM ANNUNCIATOR AUDIO/VISUAL (5)	WALL – 6'-8"AFF	PTAC	PACKAGED TERMINAL AIR CONDITIONING	
	GUESTROOM ANNUNCIATOR AUDIO (5)	WALL – 6'-8"AFF	REC	RECEPTACLES	
	COMBINATION HORN/STROBE LIGHT	WALL – 6'-8"AFF	SPD	SURGE PROTECTIVE DEVICE	
	STROBE LIGHT	WALL – 6'-8"AFF	TBD	TO BE DECIDED	
	FIRE BELL	WALL	U.C	UNDER COUNTER	
	SMOKE DETECTOR	CEILING	U.G	UNDER GROUND	
	SMOKE DETECTOR	WALL	USB	USB PORT	
	DUCT DETECTOR	IN MECH. DUCT	VD	VOLTAGE DROP	
	HEAT DETECTOR	CEILING	WP	WEATHER PROOF	
	MAGNETIC DOOR HOLDER	WALL	3P	THREE POLES CIRCUIT BREAKER	
	FLOW SWITCH (SPRINKLER)				
	TAMPER SWITCH (SPRINKLER)				
	ELECTRICAL PANELBOARD (SURFACE MTD.)				
	ELECTRICAL PANELBOARD (FLUSH MTD.)				
	CIRCUIT BREAKER				
	DISCONNECT SWITCH (FOR MOTOR LOAD)				
	METER				
	EXHAUST FAN				
	OCCUPANCY SENSOR				
	'HOME RUN' W/2 CONDUCTORS (6)	WALL OR CEILING			
	CONDUIT RUN W/3 HOTS & 3 NEUTRAL (6)	WALL OR CEILING			
	CONDUIT RUN W/3 HOTS, 3 NEUT., 1 GRD. (6)	FLOOR OR EARTH			
	CONDUIT RUN W/2 HOTS, 3 NEUT., 1 GRD. (6)	FLOOR OR EARTH			
	CONDUIT RUN W/2 HOTS, 1 GRD. (6)	FLOOR OR EARTH			
	CONDUIT RUN W/3 HOTS, 1 GRD. (6)	FLOOR OR EARTH			
	CONDUIT RUN W/1 HOTS, 1 NEUT., 1 GRD. (6)	FLOOR OR EARTH			

NOTES

1. CONTRACTOR TO CLARIFY THE MODEL/BRAND NAME OF SWITCHES, RECEPTACLES, DATA/TEL OUTLET, TV OUTLET WITH FRANCHISE/OWNER PRIOR TO PLACING ORDERS/ INSTALLATION.
2. WATTSTOPPER No.CX-105 WITH No.A120E-P POWER PACK.
3. INSTALL 3/4" CONDUIT WITH PULL STRING FROM OUTLET TO PBX ROOM. COMBINE (2) TELEPHONE OUTLETS PER HOME RUN. TYPICAL FOR COMMON AREAS, SEE PLANS FOR GUESTROOM REQUIREMENTS.
4. INSTALL 3/4" CONDUIT WITH PULL STRING FROM OUTLET TO NETWORK RM. TYP. FOR COMMON AREAS, SEE PLANS FOR GUESTROOM REQUIREMENTS.
5. AUDIO/VISUAL DEVICE, TRANSFORMER AND PUSHBUTTON FOR GUESTROOM ANNUNCIATOR SHALL BE AS MANUFACTURED BY EDWARDS, KIT No.7004 PROVIDE ADDITIONAL AUDIO/VISUAL DEVICE WHERE SHOWN ON DRAWINGS, EDWARDS CATALOG No.6536-F5.
6. CONDUIT SIZE SHALL BE MINIMUM 1/2". CONDUCTOR SIZE SHALL BE MINIMUM No.12 CU AWG. CONDUCTOR SIZES INDICATED AT 'HOME RUN' SHALL BE CARRIED THROUGHOUT ENTIRE CIRCUIT RUN, UNLESS NOTED OTHERWISE ON PLANS. #14 MINIMUM SHALL BE USED FOR CONTROLS.

SPECIAL OUTLET SCHEDULE

SYMB.	DESCRIPTION	OUTLET
A	PTAC OUTLET: 20A.,2P.,3W.,250V., NEMA 6-20 RECEPTACLE, TO BE INSTALLED WITHIN SUB-BASE. (VERIFY THE MODEL/BRAND NAME WITH FRANCHISE/OWNER)	
B	DUPLEX GFCI RECEPTACLE: 20A.,2P.,3W.,125V. AND 20A.,1P., 120V. SWITCH FOR DISPOSER WITH COVER PLATE. MOUNT IN 2-GANG OUTLET BOX. (VERIFY THE MODEL/BRAND NAME WITH FRANCHISE/OWNER)	
C	FITNESS ROOM FLOOR OUTLET: 30A.,2P.,3W.,125V., NEMA 5-30 DUPLEX RECEPTACLE, MOUNTED IN A FLOOR BOX WITH BLACK COVER PLATE AND BLACK CARPET FLANGE. (VERIFY THE MODEL/BRAND NAME WITH FRANCHISE/OWNER)	
D	GENERAL FLOOR OUTLET: 20A.,2P.,3W.,125V., NEMA 5-20 DUPLEX RECEPTACLE, MOUNTED IN A FLOOR BOX WITH BLACK COVER PLATE AND BLACK CARPET FLANGE. (VERIFY THE MODEL/BRAND NAME WITH FRANCHISE/OWNER)	

LIGHTING FIXTURES SCHEDULE

CONTRACTOR TO CLARIFY WITH ARCHITECT/OWNER PRIOR TO PLACING ORDERS/ INSTALLTION

SYMBOL	TYPE	MANUFACTURER & MODEL	MOUNTING	No. ,SIZE & TYPE LAMPS	LUMENS	VOLTAGE	NOTES
	A	SARIN #SES-DOWNLIGHT-4"	RECESSED	15W LED/ 2700K	1100	120 VOLT	
	A1	SARIN #SES-DOWNLIGHT-4"	RECESSED	18W LED/ 2700K	2268	120 VOLT	
	A2	SARIN #SES-DOWNLIGHT-4"	RECESSED	10W LED/ 2700K	700	120 VOLT	
	A3	SARIN #SES-DOWNLIGHT-4"	RECESSED	9W LED/ 3000K	900	120 VOLT	
	A4	SARIN #SES-DOWNLIGHT-4"-GIMBAL	RECESSED	12W LED/ 2700K	1068	120 VOLT	
	R1	LBR4SQ AL3 30K AR LSS MWD MVOLT UGZ 90CRI	RECESSED	38W LED/ 3000K		120 VOLT	WET LOCATION.
	B	LDN4 30/10 LO4 AR LSS MVOLT EZ1	RECESSED	32W LED / 3000K		MULTI-VOLT.	120 VOLT. FINISH SELECTED BY ARCHITECT.
	BE	LDN4 30/10 LO4 AR LSS MVOLT EZ1 EL	RECESSED	32W LED / 3000K		MULTI-VOLT.	MULTI-VOLT, ELECTRONIC DRIVER. VERIFY FINISH WITH ARCHITECT. PROVIDE EMERGENCY BATTERY UNIT.
	D	SARIN #SES-4"-GIMBAL-DOWNLIGHT-9	RECESSED	9W LED/ 2700K	900	120 VOLT.	
	D1	SARIN #SES-4"-GIMBAL-DOWNLIGHT-9	RECESSED	9W LED/ 2700K	900	120 VOLT.	
	DF	MAJESTIC L2301	WALL SCONCE	18W LED/ 3000K	1800	MULTI-VOLT.	
	DF1	H7011-927-WT-50	TRACK LIGHT	10W LED/ 3000K		120 VOLT.	
	DF2	(SELECTED BY OWNER/ I.D)	PERDANT	LED		120 VOLT.	
	DF4	(SELECTED BY OWNER/ I.D)	PERDANT	LED		120 VOLT.	
	E	R600L G2 30K 90CRI PDIM FL WH	TRACK LIGHT	11W LED/ 3000K		120 VOLT.	
	X1	COOPER/SURE-LITES #CX-7 SERIES (SINGLE FACE)	WALL	1W LED		MULTI-VOLT.	LIGHT FIXTURES SHALL BE COMPLETED WITH DIRECTIONAL ARROW AS SHOWN ON LIGHTING FLOOR PLAN
	X2	COOPER/SURE-LITES #CX-7 SERIES (SINGLE FACE OR DOUBLE FACE)	CEILING	1W LED		MULTI-VOLT.	LIGHT FIXTURES SHALL BE SINGLE-FACE OR DOUBLE FACE AND COMPLETED WITH DIRECTIONAL ARROW AS SHOWN ON LIGHTING FLOOR PLAN
	X3	SELECT BY OWNER/ARCH	WALL				LOW LEVEL EXIT SIGN (PHOTOLUMINESCENCE)
	EM	SARIN #SES-LEDR-1	SURFACE	2.5W LED		MULTI-VOLT.	(NOTE 6)
	EM1	LITHONIA LIGHTING # ECRG RD M6	WALL	LED		120V	(NOTE 6), EMERGENCY/EXIT COMBO
	EM2	LITHONIA LIGHTING # ELM2L	RECESSED	LED		120V	(NOTE 6)
	EM3	SARIN #SES-LEDR-1	SURFACE	2.5W LED		MULTI-VOLT.	WET LISTED, (NOTE 6)
	F	SARIN #SES-TF22-V01-XXX-CCDO	RECESSED IN CEILING GRID	40W LED/ 4000K			
	H	SARIN #SES-TF24-V01-XXX-CCDO	RECESSED IN CEILING GRID	60W LED/ 4000K	5200-7800	MULTI-VOLT, ELECTRONIC DRIVER.	
	P-308	MAJESTIC MIRROR ARGYLE 28 x 42	WALL	LED/ 3000K		120V	LIGHT FIXTURES SHALL BE COMPLETED WITH STATED IN THE FF&E CONSTRUCTION AND SPECIFICATION GUIDELINES
	J	PEERLESS # RD4W4	SURFACE	81W LED / 3000K	5000	MULTI-VOLT.	MULTI-VOLT. ELECTRONIC DRIVER. PROVIDE REMOTE EMERGENCY BATTERY UNIT FOR 30% LUMEN OUTPUT.
	K	SARIN #SES-WR-3000-48	SURFACE	48W LED/ 3000K	4000	MULTI-VOLT, ELECTRONIC DRIVER.	
	P4	SARIN # SES-MWP03-20WAFA1- abc	WALL	20W LED			ELEVATOR PIT LIGHT
	L-A	JLB-48-80-35K #UNDERCABINET LIGHT	UNDER CABINET LIGHT	RGBW 4W/FT LED			
	BBE	LDN6 40/10 LO6 AR LSS EL	RECESSED	11W LED /3000K		MULTI-VOLT.	
	S1	DSX1 LED P3 40K T5M MVOLT	POLE	102W LED /3000K	13184	MULTI-VOLT.	
	S2	DSX1 LED P3 40K T5M MVOLT(HOUSESIDE SHIELD)	POLE	102W LED /3000K	13184	MULTI-VOLT.	
	S3	DSX1 LED P2 40K T4M MVOLT	POLE	70W LED /3000K	13184	MULTI-VOLT.	
	S4	DSX1 LED P3 40K T4M MVOLT(HOUSESIDE SHIELD)	POLE	102W LED /3000K	13184	MULTI-VOLT.	
	S5	DSX1 LED P2 40K TFTM MVOLT	POLE	70W LED /3000K	13184	MULTI-VOLT.	
	SB1	RADB LED P2 40K ASY DBLXD	BOLLARD	8W LED /3000K	559	MULTI-VOLT.	
	SB2	RADB LED P2 40K SYS DBLXD	BOLLARD	8W LED /3000K	617	MULTI-VOLT.	
	WS	WSQ LED P1 SR3 40K MVOLT	WALL SCONCE	20W LED /3000K	2244	MULTI-VOLT.	WET LISTED
	G	ML5IP65-D-MO-K40-4'-W-LOH-FXXX-EF-UNIV	SURFACE	WALL OR RECESSED	22.42W LED/ 4000K	120V	
	G1	ML5IP65-D-HO-K40-4'-W-LOH-FXXX-EF-UNIV	SURFACE	WALL OR RECESSED	40.98W LED/ 4000K	120V	

NOTES:

1. LUMINAIRES INSTALLED IN WET OR DAMP LOCATIONS SHALL BE INSTALLED SUCH THAT WATER CANNOT ENTER OR ACCUMULATE IN WIRING COMPARTMENTS, LAMP HOLDERS, OR OTHER ELECTRICAL PARTS. ALL LUMINAIRES SHALL BE SELECTED SUITABLE FOR WET LOCATIONS OR DAMP LOCATION.
2. REFER TO LIGHTING SPECIFICATION FOR FURTHER LAMP AND BALLAST INFORMATION.
3. REFER TO ARCHITECTURAL PLANS AND ELEVATIONS FOR EXACT LOCATION OF LIGHT FIXTURES
4. FOR QUOTATIONS, CONTACT SARIN ENERGY, EMAIL: LED@SARINENERGY.COM, PHONE: 816-606-3938
5. RECESSED LIGHTS MUST BE RATED OR PROTECTED WHTN INSTALLED IN THE RATED FLOOR/CEILING ASSEMBLY WHERE APPLICABLE.
6. INCLUDE EMERGENCY BATTERY PACK (MINIMUM 90 MINUTES)

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FAST AND ACCURATE

SEPT. 14, 2023

COLORADO REGISTERED DUNG D. VU 51953 PROFESSIONAL ENGINEER

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DRAWING ISSUE DATES:
8/18/23 PERMIT SET

REVISION DATES:
9/14/23 PLAN UPDATE

PROJECT MANAGER:
DV
DRAWN BY:
PL
SHEET TITLE:
ELECTRICAL NOTES,LEGEND OF SYMBOLS

E1.2

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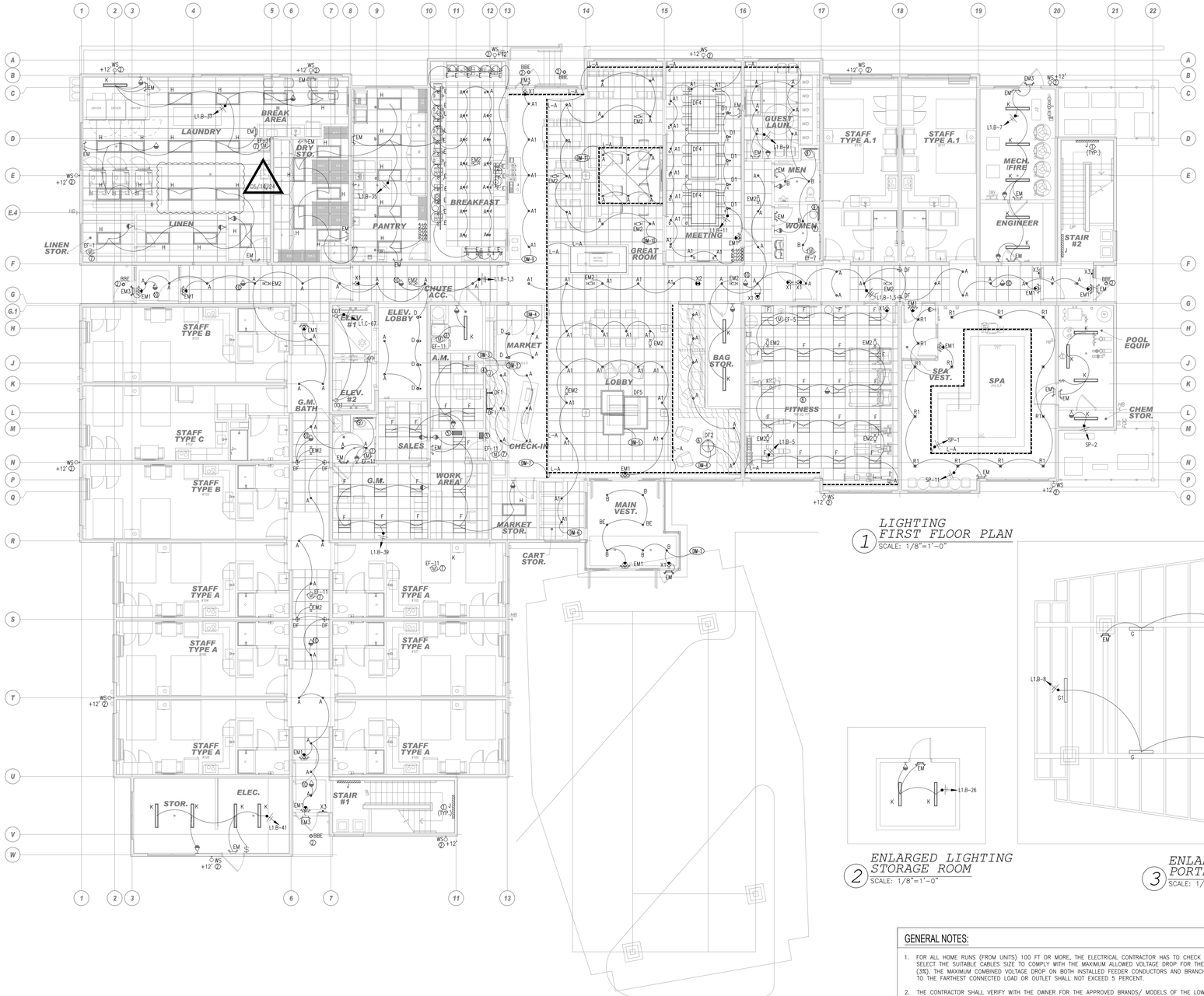
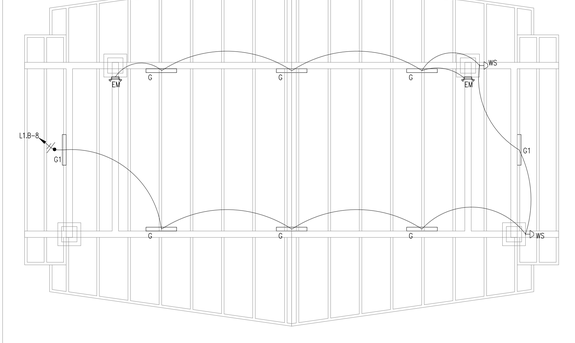


1 LIGHTING FIRST FLOOR PLAN
SCALE: 1/8"=1'-0"

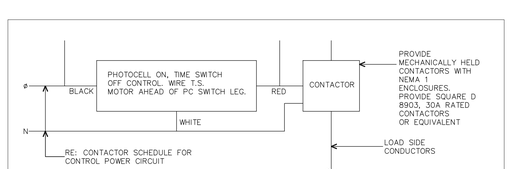
2 ENLARGED LIGHTING STORAGE ROOM
SCALE: 1/8"=1'-0"



3 ENLARGED LIGHTING PORTE COCHERE
SCALE: 1/8"=1'-0"

KEYED NOTES:

1. CONNECT ALL TYPE "J" LIGHTS AT STAIRCASE TO L1.B-33, USING 2#10, 1/2"C. CONTRACTOR WILL PROVIDED A LOCK-ON FEATURE FOR THIS CIRCUIT AS REQUIRED BY NEC 700.12((1)(2)(3).
2. CONNECT ALL TYPE "BBE", "WS" TO L1.B-18,20, USING 2#10, 1/2"C. REFER TO ARCHITECTURAL ELEVATION FOR EXACT MOUNTING HEIGHT AND LOCATION.
3. PROPOSED LOCATION FOR TOUCH MINI DIMMING CONTROL STATION.
4. POWER SOURCE FOR BRAND SIGN.
5. LIGHTING SUB-PANEL & DIMMING (CENTRAL DIMMING CONTROL PANEL).
6. J-BOX FOR DECORATIVE LIGHT (SELECTED BY OWNER).
7. THE FAN SHALL RUN CONTINUOUSLY AND BE KEPT UNSWITCHED FROM OCCUPANCY SENSOR.
8. LIGHT FIXTURES SHALL BE REMAINED ON (KEPT UN-SWITCHED FROM OCCUPANCY SENSOR).
9. PROVIDE MIRROR LIGHT P-308. VERIFY LOCATION WITH ARCHITECTURAL/ ID PLAN PRIOR TO INSTALLATION.
10. OCCUPANT SENSOR CONTROLS IN CORRIDORS SHALL UNIFORMLY REDUCE LIGHTING POWER TO NOT MORE THAN 50 PERCENT OF FULL POWER WITHIN 20 MINUTES AFTER ALL OCCUPANTS HAVE LEFT THE SPACE.



2 CONTACTOR CONTROL DIAGRAM
SCALE: N.T.S

GENERAL NOTES:

1. FOR ALL HOME RUNS (FROM UNITS) 100 FT OR MORE, THE ELECTRICAL CONTRACTOR HAS TO CHECK THE VOLTAGE DROP AND SELECT THE SUITABLE CABLES SIZE TO COMPLY WITH THE MAXIMUM ALLOWED VOLTAGE DROP FOR THE FEEDER CONDUCTORS (3%). THE MAXIMUM COMBINED VOLTAGE DROP ON BOTH INSTALLED FEEDER CONDUCTORS AND BRANCH CIRCUITS CONDUCTORS TO THE FARTHEST CONNECTED LOAD OR OUTLET SHALL NOT EXCEED 5 PERCENT.
2. THE CONTRACTOR SHALL VERIFY WITH THE OWNER FOR THE APPROVED BRANDS/ MODELS OF THE LOW VOLTAGE SYSTEM DEVICES (CAMERA, CARD READER, WIRELESS ACCESS POINT, ETC.) AND PROVIDE ALL NECESSARY ACCESSORIES TO COMPLETE THE WIRING, POWER SUPPLY FOR THE DEVICES AS PER THE MANUFACTURER SPECIFICATIONS/ INSTALLATION GUIDELINES.
3. LIGHTING FOR ALL EXTERIOR APPLICATIONS SHALL HAVE AUTOMATIC CONTROLS CAPABLE OF TURNING OFF EXTERIOR LIGHT WHEN SUFFICIENT DAYLIGHT IS AVAILABLE OR WHEN THE LIGHT IS NOT REQUIRED DURING NIGHTTIME HOURS. LIGHTING NOT DESIGNATED FOR DUSK TO DAWN OPERATION SHALL BE CONTROLLED BY AN ASTRONOMICAL TIME SWITCH. LIGHTING DESIGNATED FOR DUSK TO DAWN SHALL BE CONTROLLED BY AN ASTRONOMICAL TIME SWITCH OR PHOTOSENSOR. ASTRONOMICAL TIME SWITCHES SHALL BE CAPABLE OF RETAINING PROGRAMMING AND THE TIME SETTING DURING LOSS OF POWER FOR A PERIOD OF AT LEAST 10 HOURS.
4. THE OCCUPANCY SENSOR SWITCHES SHALL AUTOMATICALLY TURN LIGHTING ON INSTANTANEOUSLY WHEN THE ROOM /SPACE IS OCCUPIED AND AUTOMATICALLY TURN LIGHTING OFF WITHIN 30 MINUTES OF ALL OCCUPANTS LEAVING THAT ROOM/SPACE.
5. THE EMERGENCY AND EXIT LIGHTS THAT CONNECT TO LOCAL AREA NORMAL LIGHTING CIRCUITS WILL BE CONNECTED AHEAD OF ANY LOCAL SWITCHES COMPLY WITH NEC 700.12(H)(2)(3).
6. VERIFY MOUNTING HEIGHT FOR ALL WALL MOUNTED FIXTURE TYPES WITH OWNER/ARCH. PRIOR INSTALLATION. FIXTURE SHALL BE MOUNTED PER ADA REQUIREMENTS.
7. EMERGENCY LIGHTING FACILITIES SHALL BE ARRANGE TO PROVIDE INITIAL ILLUMINATION THAT IS AT LEAST AN AVERAGE OF 1 FOOT-CANDLE (11 LUX) AT THE FLOOR LEVEL AND A MINIMUM OF 0.1 FOOT-CANDLE (1.1 LUX) AT ANY POINT. ELECTRICAL CONTRACTOR SHALL PROVIDE PHOTOMETRIC CALCULATIONS FOR APPROVAL PRIOR TO ORDERING FIXTURES.
8. LOW-LEVEL EXIT SIGNS SHALL BE PROVIDE IN ALL AREAS SERVING GUESTROOMS IN GROUP R-1 OCCUPANCIES BY SECTION 1013.1 AND SHALL COMPLY WITH SECTION 1013.5. THE BOTTOM OF THE SIGN SHALL BE NOT LESS THAN 10 INCHES (254MM) NOR MORE THAN 12 INCHES (305MM) ABOVE THE FLOOR LEVEL. THE SIGN SHALL BE FLUSH MOUNTED TO THE DOOR OR WALL. WHERE MOUNTED ON WALL, THE EDGE OF THE SIGN SHALL BE WITHIN 4 INCHES (102MM) OF THE DOOR FRAME ON THE LATCH SIDE.
9. SEE TYPICAL GUESTROOM PLAN FOR DETAILED ROOM LAYOUT ON SHEET E4.0, E4.1.
10. CONTRACTOR SHALL VERIFY AND FURNISH EXIT SIGNS TO COMPLY WITH SECTION 1013 IBC REQUIREMENT.
11. THE CONTRACTOR SHALL VERIFY WITH THE OWNER FOR THE APPROVED BRANDS/ MODELS OF THE LIGHTING CONTROL AND PROVIDE ALL NECESSARY ACCESSORIES TO COMPLETE THE WIRING, POWER SUPPLY FOR THE DEVICES AS PER THE MANUFACTURER SPECIFICATIONS/ INSTALLATION GUIDELINES.
12. THE ELECTRICAL CONTRACTOR SHALL COORDINATE WITH THE SPRINKLER CONTRACTOR FOR THE PLACEMENTS OF THE LIGHT FIXTURES AND SPRINKLER HEADS TO COMPLY WITH THE NFPA 13 REQUIREMENTS.
13. SUFFICIENT EMERGENCY LIGHTING LEVELS WILL BE DETERMINED DURING THE ONSITE INSPECTION. ADDITIONAL EMERGENCY LIGHTING MAY BE REQUIRED BY FIELD INSPECTOR IF DEEMED INSUFFICIENT

05/14/24
NOTE:
- NEW BACKGROUND

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DRAWING ISSUE DATES:
8/18/23 Permit Set

REVISION DATES:
10/19/23 Staff/GM Toilets, Permit Revisions
11/29/23 Mt. Werner Revisions
02/15/24 Pool Removal, Guest Room Addition
03/05/24 Updated plans
05/14/24 Updated plans

PROJECT MANAGER:
DV

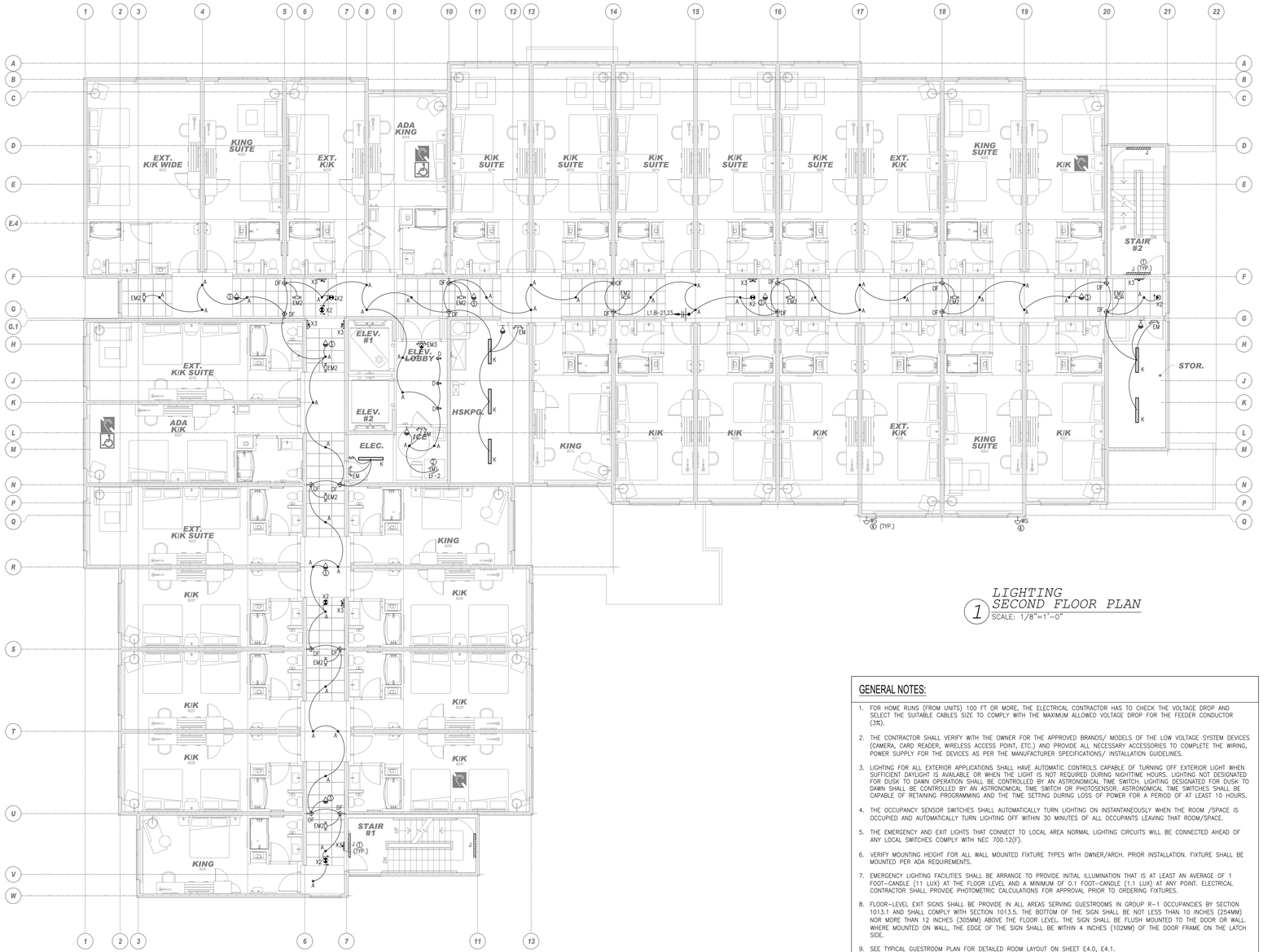
DRAWN BY:
PL

SHEET TITLE:
LIGHTING FIRST FLOOR PLAN

E2.0

SHEET: 119 OF 142

ASI #2 5/28/24



1 LIGHTING SECOND FLOOR PLAN
SCALE: 1/8"=1'-0"

GENERAL NOTES:

1. FOR HOME RUNS (FROM UNITS) 100 FT OR MORE, THE ELECTRICAL CONTRACTOR HAS TO CHECK THE VOLTAGE DROP AND SELECT THE SUITABLE CABLES SIZE TO COMPLY WITH THE MAXIMUM ALLOWED VOLTAGE DROP FOR THE FEEDER CONDUCTOR (3%).
2. THE CONTRACTOR SHALL VERIFY WITH THE OWNER FOR THE APPROVED BRANDS/ MODELS OF THE LOW VOLTAGE SYSTEM DEVICES (CAMERA, CARD READER, WIRELESS ACCESS POINT, ETC.) AND PROVIDE ALL NECESSARY ACCESSORIES TO COMPLETE THE WIRING, POWER SUPPLY FOR THE DEVICES AS PER THE MANUFACTURER SPECIFICATIONS/ INSTALLATION GUIDELINES.
3. LIGHTING FOR ALL EXTERIOR APPLICATIONS SHALL HAVE AUTOMATIC CONTROLS CAPABLE OF TURNING OFF EXTERIOR LIGHT WHEN SUFFICIENT DAYLIGHT IS AVAILABLE OR WHEN THE LIGHT IS NOT REQUIRED DURING NIGHTTIME HOURS. LIGHTING NOT DESIGNATED FOR DUSK TO DAWN OPERATION SHALL BE CONTROLLED BY AN ASTRONOMICAL TIME SWITCH. LIGHTING DESIGNATED FOR DUSK TO DAWN SHALL BE CONTROLLED BY AN ASTRONOMICAL TIME SWITCH OR PHOTOSENSOR. ASTRONOMICAL TIME SWITCHES SHALL BE CAPABLE OF RETAINING PROGRAMMING AND THE TIME SETTING DURING LOSS OF POWER FOR A PERIOD OF AT LEAST 10 HOURS.
4. THE OCCUPANCY SENSOR SWITCHES SHALL AUTOMATICALLY TURN LIGHTING ON INSTANTANEOUSLY WHEN THE ROOM /SPACE IS OCCUPIED AND AUTOMATICALLY TURN LIGHTING OFF WITHIN 30 MINUTES OF ALL OCCUPANTS LEAVING THAT ROOM/SPACE.
5. THE EMERGENCY AND EXIT LIGHTS THAT CONNECT TO LOCAL AREA NORMAL LIGHTING CIRCUITS WILL BE CONNECTED AHEAD OF ANY LOCAL SWITCHES COMPLY WITH NEC 700.12(F).
6. VERIFY MOUNTING HEIGHT FOR ALL WALL MOUNTED FIXTURE TYPES WITH OWNER/ARCH. PRIOR INSTALLATION. FIXTURE SHALL BE MOUNTED PER ADA REQUIREMENTS.
7. EMERGENCY LIGHTING FACILITIES SHALL BE ARRANGE TO PROVIDE INITIAL ILLUMINATION THAT IS AT LEAST AN AVERAGE OF 1 FOOT-CANDLE (11 LUX) AT THE FLOOR LEVEL AND A MINIMUM OF 0.1 FOOT-CANDLE (1.1 LUX) AT ANY POINT. ELECTRICAL CONTRACTOR SHALL PROVIDE PHOTOMETRIC CALCULATIONS FOR APPROVAL PRIOR TO ORDERING FIXTURES.
8. FLOOR-LEVEL EXIT SIGNS SHALL BE PROVIDE IN ALL AREAS SERVING GUESTROOMS IN GROUP R-1 OCCUPANCIES BY SECTION 1013.1 AND SHALL COMPLY WITH SECTION 1013.5. THE BOTTOM OF THE SIGN SHALL BE NOT LESS THAN 10 INCHES (254MM) NOR MORE THAN 12 INCHES (305MM) ABOVE THE FLOOR LEVEL. THE SIGN SHALL BE FLUSH MOUNTED TO THE DOOR OR WALL. WHERE MOUNTED ON WALL, THE EDGE OF THE SIGN SHALL BE WITHIN 4 INCHES (102MM) OF THE DOOR FRAME ON THE LATCH SIDE.
9. SEE TYPICAL GUESTROOM PLAN FOR DETAILED ROOM LAYOUT ON SHEET E4.0, E4.1.
10. CONTRACTOR SHALL VERIFY AND FURNISH EXIT SIGNS TO COMPLY WITH SECTION 1013 IBC REQUIREMENT.

KEYED NOTES:

1. CONNECT ALL TYPE "J" LIGHTS AT STAIRCASE TO L1.B-33, USING 2#10, 1/2"C. CONTRACTOR WILL PROVIDED A LOCK-ON FEATURE FOR THIS CIRCUIT AS REQUIRED BY NEC 700.12(F).
2. FAN RUNS CONTINUOUSLY. VERIFY WITH EXHAUST FANS SCHEDULE SHOWN ON M1.1 SHEET FOR MORE INFORMATION.
3. OCCUPANT SENSOR CONTROLS IN CORRIDORS SHALL UNIFORMLY REDUCE LIGHTING POWER TO NOT MORE THAN 50 PERCENT OF FULL POWER WITHIN 20 MINUTES AFTER ALL OCCUPANTS HAVE LEFT THE SPACE.
4. CONNECT ALL TYPE "WS" TO L1.B-18,20, USING 2#10, 1/2"C. REFER TO ARCHITECTURAL ELEVATION FOR EXACT HEIGHT AND LOCATION.

REVIEWED FOR CODE COMPLIANCE 01/12/2024

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DRAWING ISSUE DATES:
8/18/23 PERMIT SET

REVISION DATES:
10/19/23 Staff/GM Toilets, Permit Revisions

PROJECT MANAGER:
DV

DRAWN BY:
PL

SHEET TITLE:
LIGHTING SECOND FLOOR PLAN

10/19/23
NOTE:
- NEW BACKGROUND

E2.1
SHEET: 118 OF 140

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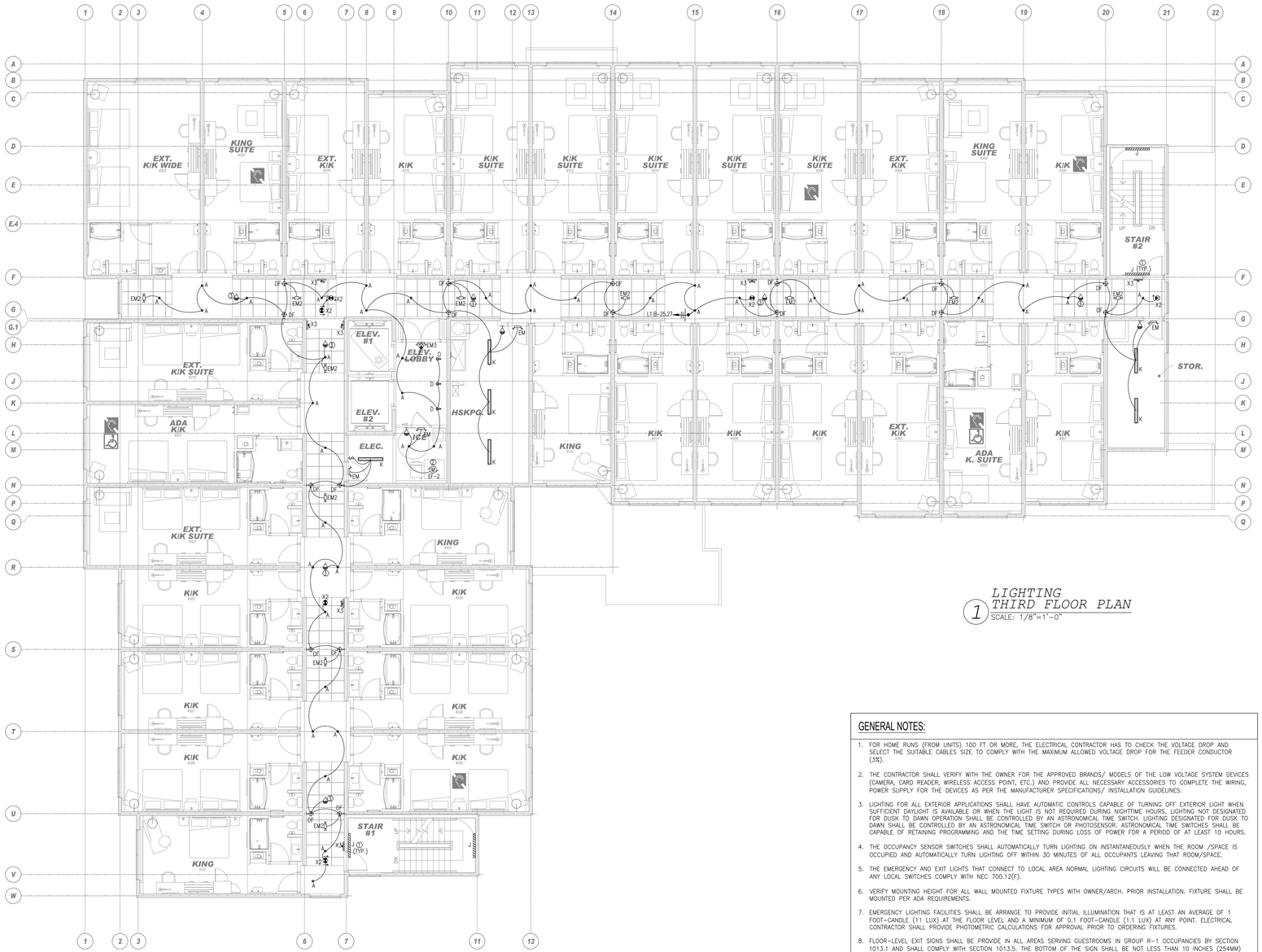

1 LIGHTING THIRD FLOOR PLAN
SCALE: 1/8"=1'-0"

GENERAL NOTES:

1. FOR HOME RUNS (FROM UNITS) 100 FT OR MORE, THE ELECTRICAL CONTRACTOR HAS TO CHECK THE VOLTAGE DROP AND SELECT THE SUITABLE CABLES SIZE TO COMPLY WITH THE MAXIMUM ALLOWED VOLTAGE DROP FOR THE FEEDER CONDUCTOR (3%).
2. THE CONTRACTOR SHALL VERIFY WITH THE OWNER FOR THE APPROVED BRANDS/ MODELS OF THE LOW VOLTAGE SYSTEM DEVICES (CAMERA, CARD READER, WIRELESS ACCESS POINT, ETC.) AND PROVIDE ALL NECESSARY ACCESSORIES TO COMPLETE THE WIRING, POWER SUPPLY FOR THE DEVICES AS PER THE MANUFACTURER SPECIFICATIONS/ INSTALLATION GUIDELINES.
3. LIGHTING FOR ALL EXTERIOR APPLICATIONS SHALL HAVE AUTOMATIC CONTROLS CAPABLE OF TURNING OFF EXTERIOR LIGHT WHEN SUFFICIENT DAYLIGHT IS AVAILABLE OR WHEN THE LIGHT IS NOT REQUIRED DURING NIGHTTIME HOURS. LIGHTING NOT DESIGNATED FOR DUSK TO DAWN OPERATION SHALL BE CONTROLLED BY AN ASTRONOMICAL TIME SWITCH. LIGHTING DESIGNATED FOR DUSK TO DAWN SHALL BE CONTROLLED BY AN ASTRONOMICAL TIME SWITCH OR PHOTOSENSOR. ASTRONOMICAL TIME SWITCHES SHALL BE CAPABLE OF RETAINING PROGRAMMING AND THE TIME SETTING DURING LOSS OF POWER FOR A PERIOD OF AT LEAST 10 HOURS.
4. THE OCCUPANCY SENSOR SWITCHES SHALL AUTOMATICALLY TURN LIGHTING ON INSTANTANEOUSLY WHEN THE ROOM /SPACE IS OCCUPIED AND AUTOMATICALLY TURN LIGHTING OFF WITHIN 30 MINUTES OF ALL OCCUPANTS LEAVING THAT ROOM/SPACE.
5. THE EMERGENCY AND EXIT LIGHTS THAT CONNECT TO LOCAL AREA NORMAL LIGHTING CIRCUITS WILL BE CONNECTED AHEAD OF ANY LOCAL SWITCHES COMPLY WITH NEC 700.12(F).
6. VERIFY MOUNTING HEIGHT FOR ALL WALL MOUNTED FIXTURE TYPES WITH OWNER/ARCH. PRIOR INSTALLATION. FIXTURE SHALL BE MOUNTED PER ADA REQUIREMENTS.
7. EMERGENCY LIGHTING FACILITIES SHALL BE ARRANGE TO PROVIDE INITIAL ILLUMINATION THAT IS AT LEAST AN AVERAGE OF 1 FOOT-CANDLE (11 LUX) AT THE FLOOR LEVEL AND A MINIMUM OF 0.1 FOOT-CANDLE (1.1 LUX) AT ANY POINT. ELECTRICAL CONTRACTOR SHALL PROVIDE PHOTOMETRIC CALCULATIONS FOR APPROVAL PRIOR TO ORDERING FIXTURES.
8. FLOOR-LEVEL EXIT SIGNS SHALL BE PROVIDE IN ALL AREAS SERVING GUESTROOMS IN GROUP R-1 OCCUPANCIES BY SECTION 1013.1 AND SHALL COMPLY WITH SECTION 1013.5. THE BOTTOM OF THE SIGN SHALL BE NOT LESS THAN 10 INCHES (254MM) NOR MORE THAN 12 INCHES (305MM) ABOVE THE FLOOR LEVEL. THE SIGN SHALL BE FLUSH MOUNTED TO THE DOOR OR WALL. WHERE MOUNTED ON WALL, THE EDGE OF THE SIGN SHALL BE WITHIN 4 INCHES (102MM) OF THE DOOR FRAME ON THE LATCH SIDE.
9. SEE TYPICAL GUESTROOM PLAN FOR DETAILED ROOM LAYOUT ON SHEET E4.0, E4.1.
10. CONTRACTOR SHALL VERIFY AND FURNISH EXIT SIGNS TO COMPLY WITH SECTION 1013 IBC REQUIREMENT.

KEYED NOTES:

1. CONNECT ALL TYPE "J" LIGHTS AT STAIRCASE TO L1.8-33, USING 2#10, 1#2"C. CONTRACTOR WILL PROVIDED A LOCK-ON FEATURE FOR THIS CIRCUIT AS REQUIRED BY NEC 700.12(F).
2. FAN RUNS CONTINUOUSLY. VERIFY WITH EXHAUST FANS SCHEDULE SHOWN ON M1.1 SHEET FOR MORE INFORMATION.
3. OCCUPANT SENSOR CONTROLS IN CORRIDORS SHALL UNIFORMLY REDUCE LIGHTING POWER TO NOT MORE THAN 50 PERCENT OF FULL POWER WITHIN 20 MINUTES AFTER ALL OCCUPANTS HAVE LEFT THE SPACE.

REVIEWED FOR CODE COMPLIANCE
01/12/2024

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OCT. 19, 2023

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DRAWING ISSUE DATES:
8/18/23 PERMIT SET

REVISION DATES:
10/19/23 Staff/GM Toilets, Permit Revisions

PROJECT MANAGER:
DV

DRAWN BY:
PL

SHEET TITLE:
LIGHTING THIRD FLOOR PLAN

10/19/23
NOTE:
- NEW BACKGROUND

E2.2
SHEET: 119 OF 140

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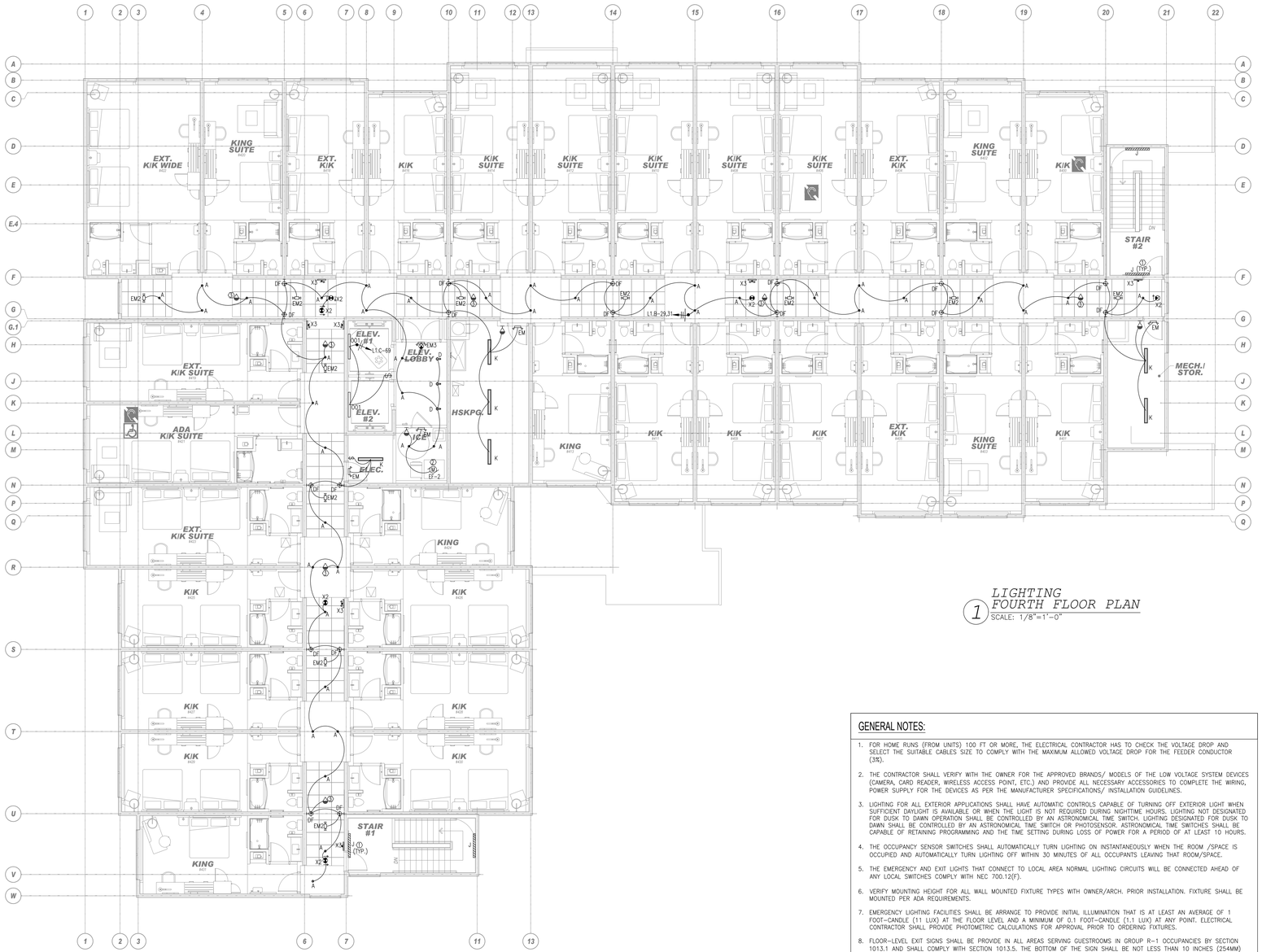

1 LIGHTING FOURTH FLOOR PLAN
SCALE: 1/8"=1'-0"

GENERAL NOTES:

1. FOR HOME RUNS (FROM UNITS) 100 FT OR MORE, THE ELECTRICAL CONTRACTOR HAS TO CHECK THE VOLTAGE DROP AND SELECT THE SUITABLE CABLES SIZE TO COMPLY WITH THE MAXIMUM ALLOWED VOLTAGE DROP FOR THE FEEDER CONDUCTOR (3%).
2. THE CONTRACTOR SHALL VERIFY WITH THE OWNER FOR THE APPROVED BRANDS/ MODELS OF THE LOW VOLTAGE SYSTEM DEVICES (CAMERA, CARD READER, WIRELESS ACCESS POINT, ETC.) AND PROVIDE ALL NECESSARY ACCESSORIES TO COMPLETE THE WIRING, POWER SUPPLY FOR THE DEVICES AS PER THE MANUFACTURER SPECIFICATIONS/ INSTALLATION GUIDELINES.
3. LIGHTING FOR ALL EXTERIOR APPLICATIONS SHALL HAVE AUTOMATIC CONTROLS CAPABLE OF TURNING OFF EXTERIOR LIGHT WHEN SUFFICIENT DAYLIGHT IS AVAILABLE OR WHEN THE LIGHT IS NOT REQUIRED DURING NIGHTTIME HOURS. LIGHTING NOT DESIGNATED FOR DUSK TO DAWN OPERATION SHALL BE CONTROLLED BY AN ASTRONOMICAL TIME SWITCH. LIGHTING DESIGNATED FOR DUSK TO DAWN SHALL BE CONTROLLED BY AN ASTRONOMICAL TIME SWITCH OR PHOTOSENSOR. ASTRONOMICAL TIME SWITCHES SHALL BE CAPABLE OF RETAINING PROGRAMMING AND THE TIME SETTING DURING LOSS OF POWER FOR A PERIOD OF AT LEAST 10 HOURS.
4. THE OCCUPANCY SENSOR SWITCHES SHALL AUTOMATICALLY TURN LIGHTING ON INSTANTANEOUSLY WHEN THE ROOM /SPACE IS OCCUPIED AND AUTOMATICALLY TURN LIGHTING OFF WITHIN 30 MINUTES OF ALL OCCUPANTS LEAVING THAT ROOM/SPACE.
5. THE EMERGENCY AND EXIT LIGHTS THAT CONNECT TO LOCAL AREA NORMAL LIGHTING CIRCUITS WILL BE CONNECTED AHEAD OF ANY LOCAL SWITCHES COMPLY WITH NEC 700.12(F).
6. VERIFY MOUNTING HEIGHT FOR ALL WALL MOUNTED FIXTURE TYPES WITH OWNER/ARCH. PRIOR INSTALLATION. FIXTURE SHALL BE MOUNTED PER ADA REQUIREMENTS.
7. EMERGENCY LIGHTING FACILITIES SHALL BE ARRANGE TO PROVIDE INITIAL ILLUMINATION THAT IS AT LEAST AN AVERAGE OF 1 FOOT-CANDLE (11 LUX) AT THE FLOOR LEVEL AND A MINIMUM OF 0.1 FOOT-CANDLE (1.1 LUX) AT ANY POINT. ELECTRICAL CONTRACTOR SHALL PROVIDE PHOTOMETRIC CALCULATIONS FOR APPROVAL PRIOR TO ORDERING FIXTURES.
8. FLOOR-LEVEL EXIT SIGNS SHALL BE PROVIDE IN ALL AREAS SERVING GUESTROOMS IN GROUP R-1 OCCUPANCIES BY SECTION 1013.1 AND SHALL COMPLY WITH SECTION 1013.5. THE BOTTOM OF THE SIGN SHALL BE NOT LESS THAN 10 INCHES (254MM) NOR MORE THAN 12 INCHES (305MM) ABOVE THE FLOOR LEVEL. THE SIGN SHALL BE FLUSH MOUNTED TO THE DOOR OR WALL. WHERE MOUNTED ON WALL, THE EDGE OF THE SIGN SHALL BE WITHIN 4 INCHES (102MM) OF THE DOOR FRAME ON THE LATCH SIDE.
9. SEE TYPICAL GUESTROOM PLAN FOR DETAILED ROOM LAYOUT ON SHEET E4.0, E4.1.
10. CONTRACTOR SHALL VERIFY AND FURNISH EXIT SIGNS TO COMPLY WITH SECTION 1013 IBC REQUIREMENT.

KEYED NOTES:

1. CONNECT ALL TYPE "J" LIGHTS AT STAIRCASE TO L1.B-33, USING 2#10, 1/2"C. CONTRACTOR WILL PROVIDED A LOCK-ON FEATURE FOR THIS CIRCUIT AS REQUIRED BY NEC 700.12(F).
2. FAN RUNS CONTINUOUSLY. VERIFY WITH EXHAUST FANS SCHEDULE SHOWN ON M1.1 SHEET FOR MORE INFORMATION.
3. OCCUPANT SENSOR CONTROLS IN CORRIDORS SHALL UNIFORMLY REDUCE LIGHTING POWER TO NOT MORE THAN 50 PERCENT OF FULL POWER WITHIN 20 MINUTES AFTER ALL OCCUPANTS HAVE LEFT THE SPACE.

REVIEWED FOR CODE COMPLIANCE
01/12/2024

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MEP GREEN DESIGN & BUILD
FAST AND ACCURATE

OCT. 19, 2023

COLORADO REGISTERED 51953 PROFESSIONAL ENGINEER

Holiday Inn Express

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DRAWING ISSUE DATES:
8/18/23 PERMIT SET

REVISION DATES:
10/19/23 Staff/GM Toilets, Permit Revisions

PROJECT MANAGER:
DV

DRAWN BY:
PL

SHEET TITLE:
LIGHTING FOURTH FLOOR PLAN

10/19/23
NOTE:
- NEW BACKGROUND

E2.3
SHEET: 120 OF 140

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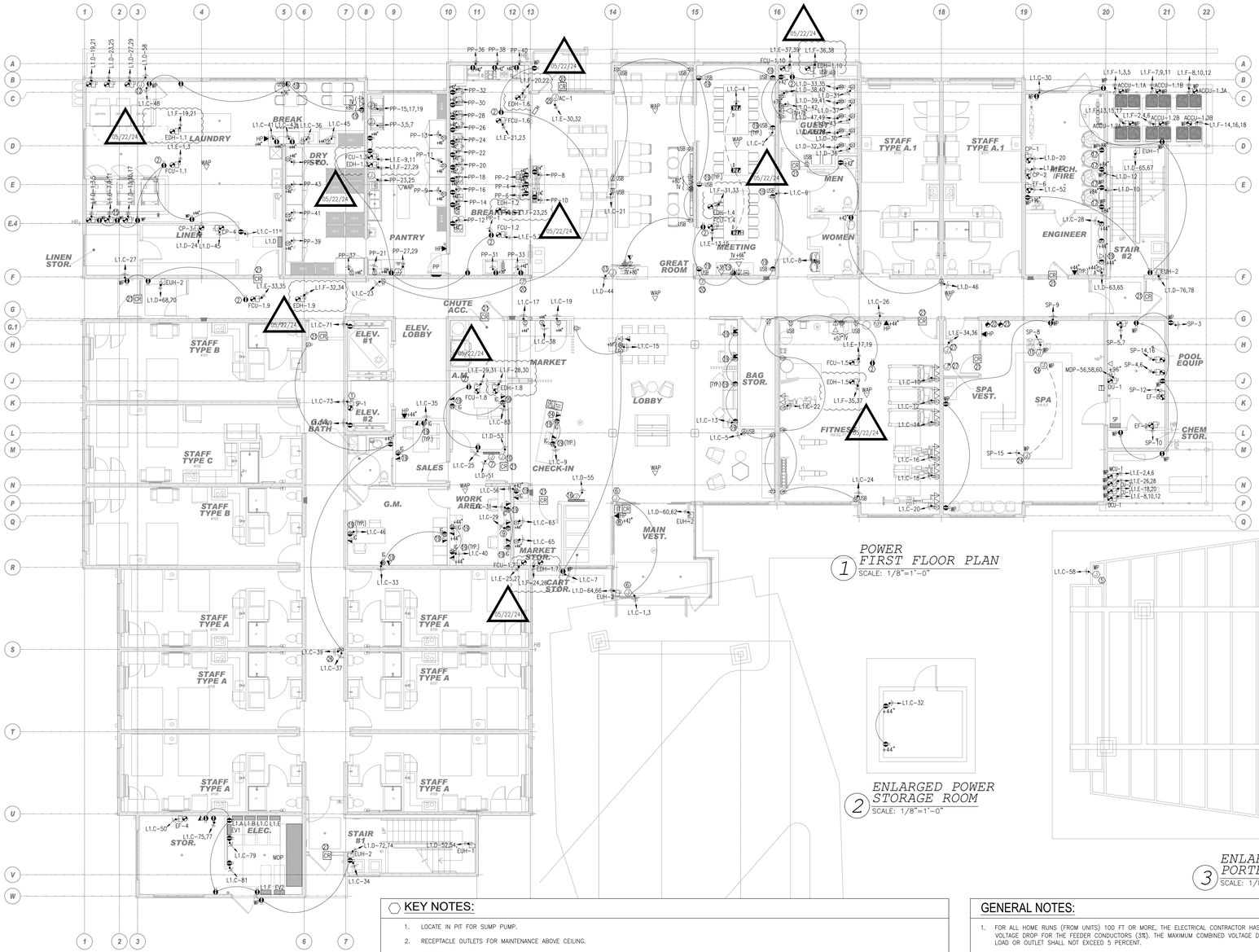
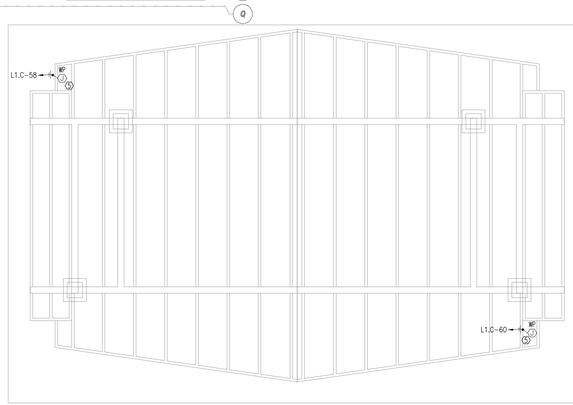


1 POWER FIRST FLOOR PLAN
SCALE: 1/8"=1'-0"

2 ENLARGED POWER STORAGE ROOM
SCALE: 1/8"=1'-0"



3 ENLARGED POWER PORTE COCHERE
SCALE: 1/8"=1'-0"

NOTE FOR RADIO COVERAGE RESPONDER SYSTEM

1. CONTRACTOR SHALL PROVIDE DEDICATED EMERGENCY 120V, 20A CIRCUIT FOR RADIO RESPONDERS COVERAGE SYSTEM AT 1ST FLOOR, CONNECT TO L1.D-54, USING 2#12, 1/2"C.

NOTE FOR FIRE SMOKE DAMPER:

1. CONTRACTOR SHALL PROVIDE JUNCTION BOXES FOR FIRE SMOKE DAMPERS AT 1ST FLOOR, CONNECT TO L1D-56, USING 2#12, 1/2"C.

GENERAL NOTES FOR POOL:

1. ANY OUTLETS WITHIN 5' OF WATER SOURCE (IN OR OUTSIDE OF THE BUILDING) TO BE GFCI TYPE.
2. SWIMMING POOL CONTRACTOR SHALL INSTALL ALL ELECTRICAL DEVICES/EQUIPMENTS AND ASSOCIATED WIRING IN ACCORDANCE WITH ARTICLE 680 (NEC 2023).
3. POOL DESIGN WILL BE SEPARATELY PERMITTED, AND SUBMITTED BY THE POOL CONTRACTOR.
4. ELECTRICAL EQUIPMENT INSTALLED IN POOL EQUIPMENT ROOMS TO BE RATED FOR USE IN CORROSIVE ENVIRONMENTS.

KEY NOTES:

1. LOCATE IN PIT FOR SUMP PUMP.
2. RECEPTACLE OUTLETS FOR MAINTENANCE ABOVE CEILING.
3. (NOT USED).
4. (NOT USED).
5. J-BOX FOR SNOWMELT SYSTEM. VERIFY LOCATION AND POWER REQUIREMENT WITH ARCHITECTURAL PLAN PRIOR TO INSTALLATION.
6. FIELD LOCATE FOR DOOR MOTOR
7. FIRE ALARM CONTROL PANEL (FACP). VERIFY LOCATION OF FACP WITH FIRE MARSHAL PRIOR TO INSTALLATION
8. HOUSE PHONE THAT RING 911 AD LOCAL CALLS
9. RECEPTACLE OUTLET FOR PRINTER/PHOTOCOPIER
10. J-BOX FOR CENTRAL CONTROL POINT FOR COMMUNICATION SYSTEM.
11. J.BOX FOR POOL LIFT. VERIFY LOCATION WITH OWNER PRIOR TO INSTALLATION.
12. J-BOX FOR MOTORIZED DAMPER. VERIFY LOCATION WITH MECHANICAL PLAN PRIOR TO INSTALLATION.
13. J.BOX FOR FIRE PLACE. VERIFY THE LOCATION WITH ARCHITECTURAL PLAN PRIOR TO INSTALLATION.
14. RECEPTACLES AND VOICE/DATA OUTLETS SHALL BE FED FROM UNDERGROUND.
15. DISCONNECT SHALL NOT BE HIDDEN OR OBSTRUCTED. VERIFY LOCATION WITH LAUNDRY SUPPLIER PRIOR TO INSTALLATION.
16. FIRE ALARM ANNUNCIATOR PANEL (FAAP). VERIFY LOCATION OF FAAP WITH FIRE MARSHAL PRIOR TO INSTALLATION.
17. RECEPTACLES FOR GAS WATER HEATERS. VERIFY LOCATION WITH PLUMBING PLAN PRIOR TO INSTALLATION.
18. (NOT USED).
19. SWITCHED RECEPTACLES SHALL BE CONTROLLED BY OCCUPANCY SENSING (SHARED OCCUPANCY SENSORS WITH ROOM'S LIGHTING, ADDITIONAL OCCUPANCY IS REQUIRED WHEN THE ROOM LIGHTING IS NOT CONTROLLED BY OCCUPANCY SENSOR), THE POWER IS SWITCHED OFF NO LONGER THAN 30 MINUTES AFTER THE ROOM HAS BEEN VACATED. PROVIDE A PERMANENT AND DURABLE MARKING FOR CONTROLLED RECEPTACLES OR CIRCUITS TO DIFFERENTIATE THEM FROM UNCONTROLLED RECEPTACLES OR CIRCUITS. CONTRACTOR SHALL PROVIDE ALL NECESSARY EQUIPMENT, POWER PACK, CABLE, ETC.. TO COMPLY THIS REQUIREMENT.
20. J.BOX FOR VAASK HAND SANI DISPENSER. VERIFY LOCATION WITH ARCHITECTURAL PLAN PRIOR TO INSTALLATION.
21. CARD READER BUILT-IN ON THE DOOR. VERIFY THE REQUIREMENT WITH OWNER PRIOR TO INSTALLATION.
22. EMERGENCY SPA SHUT-OFF BUTTON. VERIFY LOCATION WITH ARCHITECTURAL PLAN/OWNER PRIOR TO INSTALLATION.
23. SPA JET TIMER. VERIFY LOCATION WITH ARCHITECTURAL PLAN/OWNER PRIOR TO INSTALLATION.
24. J.BOX FOR POOL UNDERWATER LIGHT VERIFY LOCATION WITH ARCHITECTURAL PLAN PRIOR TO INSTALLATION.
25. POWER FOR AIR CURTAIN. VERIFY LOCATION WITH MECHANICAL PLAN PRIOR TO INSTALLATION.
26. PROVIDE TWO CIRCUITS FOR CORRIDOR RECEPTACLES (SPLIT RECEPTACLES). VERIFY THE REQUIREMENT WITH THE OWNER PRIOR TO INSTALLATION.
27. J.BOX FOR BRANCH SELECTOR. VERIFY LOCATION WITH MECHANICAL PRIOR TO INSTALLATION.

GENERAL NOTES:

1. FOR ALL HOME RUNS (FROM UNITS) 100 FT OR MORE, THE ELECTRICAL CONTRACTOR HAS TO CHECK THE VOLTAGE DROP AND SELECT THE SUITABLE CABLES SIZE TO COMPLY WITH THE MAXIMUM ALLOWED VOLTAGE DROP FOR THE FEEDER CONDUCTORS (3%). THE MAXIMUM COMBINED VOLTAGE DROP ON BOTH INSTALLED FEEDER CONDUCTORS AND BRANCH CIRCUITS CONDUCTORS TO THE FARTHEST CONNECTED LOAD OR OUTLET SHALL NOT EXCEED 5 PERCENT.
2. THE CONTRACTOR SHALL VERIFY WITH THE OWNER FOR THE APPROVED BRANDS/ MODELS OF THE LOW VOLTAGE SYSTEM DEVICES (CAMERA, CARD READER, WIRELESS ACCESS POINT, ETC.) AND PROVIDE ALL NECESSARY ACCESSORIES TO COMPLETE THE WIRING, POWER SUPPLY FOR THE DEVICES AS PER THE MANUFACTURER SPECIFICATIONS/ INSTALLATION GUIDELINES.
3. ELECTRICAL ROOM TO HAVE PANIC HARDWARE INSTALLED AND DOOR SHALL SWING IN THE DIRECTION OF EGRESS. COMPLY WITH THE 2023 NEC, ARTICLE 110.26 (C)(3).
4. ALL GFI RECEPTACLES SHALL NOT BE HIDDEN OR OBSTRUCTED PER THE 2023, INCLUDE THE FOOD PREP AREA.
5. THE CONTRACTOR SHALL VERIFY LOCATION OF ALL FLOOR OUTLETS WITH FURNITURE/ ARCH. PRIOR TO INSTALLATION.
6. CONTRACTOR SHOULD VERIFY EXACT LOCATION, BREAKER SIZES, CABLE SIZES, HP, CONTROL WIRING, ETC FOR ALL ELECTRICAL EQUIPMENT WITH KITCHEN SUPPLIER PRIOR TO INSTALLATION.
7. PROVIDE TAMPER RESISTANT RECEPTACLES FOR THE BREAKFAST ROOM, LOBBY, FITNESS ROOM, AND OTHER ASSEMBLY AREAS ACCESSIBLE TO THE PUBLIC (NEC 406.12).
8. ELECTRICAL CONTRACTORS SHOULD VERIFY ALL ELECTRICAL REQUIREMENT WITH ELEVATOR SUPPLIER PRIOR TO INSTALLATION.
9. THE CONTRACTOR SHALL VERIFY ALL REQUIREMENTS FOR CONTROL WIRING, NEUTRAL WIRES FOR ALL ELECTRICAL EQUIPMENT WITH THE SUPPLIER/ MANUFACTURER PRIOR TO INSTALLATION.
10. SPACE ALLOCATIONS FOR MATERIALS, EQUIPMENT AND DEVICES HAVE BEEN MADE ON THE BASIS OF PRESENT AND KNOWN FUTURE REQUIREMENTS AND THE DIMENSIONS OF ITEMS OF EQUIPMENT OR DEVICES OF A PARTICULAR MANUFACTURER. THE CONTRACTOR SHALL VERIFY THAT ALL MATERIALS, EQUIPMENT AND DEVICES PROPOSED FOR USE ON THIS PROJECT ARE WITHIN THE CONSTRAINTS OF THE ALLOCATED SPACE.
11. HOMERUNS SHALL BE COMBINED WHERE POSSIBLE IN ACCORDING TO NFPA .
12. HOMERUN CIRCUITS FOR ISOLATED GROUND RECEPTACLES SHALL BE SEPARATED FROM OTHER CIRCUITS. EACH CIRCUIT SHALL HAVE ITS OWN NEUTRAL CONDUCTOR AND EACH HOMERUN SHALL CONTAIN AN ISOLATED AND EQUIPMENT GROUND CONDUCTOR.
13. COORDINATE THE LOCATION AND INSTALLATION DETAIL OF OUTLETS IN MILLWORK WITH ARCHITECTURAL DRAWINGS (WALL ELEVATIONS, MILLWORK DETAILS, ETC.) AND WITH MILLWORK MANUFACTURER PRIOR TO ELECTRICAL ROUGH-IN.
14. WALL AND FLOOR MOUNTED POWER RECEPTACLES SHOWN NEAR DATA OUTLETS SHALL BE LOCATED WITHIN SIX (6) INCHES OF THE DATA OUTLET. LOCATE AT SAME MOUNTING HEIGHT UNLESS NOTED OTHERWISE.
15. ALL GFCI RECEPTACLES SHALL BE CONNECTED SO THAT ALL DEVICES ON THE SAME CIRCUIT AS THE GFCI RECEPTACLE DO NOT DE-ENERGIZE UPON TRIPPING. ALL GFCI RECEPTACLES SHALL INCLUDE A LOCK-OUT FUNCTION TO PROTECT AGAINST THE USE OF MISWIRED DEVICES OR DEVICES THAT HAVE BEEN DAMAGED DUE TO DISABLING SURGES.
16. ELECTRICAL CONTRACTORS MUST VERIFY ALL ELECTRICAL REQUIREMENTS WITH THE HVAC AND PLUMBING SYSTEMS TO PROVIDE ALL NECESSARY ACCESSORIES TO COMPLETE THE CONTROL WIRING FOR THE MOTORS.
17. CONTRACTOR SHOULD REFER TO THE EXHAUST /FRESH AIR FAN SCHEDULES ON SHEET M1.1 FOR THE CONTROL OF FANS.
18. THE CONTRACTOR SHALL VERIFY WITH THE OWNER/FRANCHISE FOR THE QUANTITIES AND LOCATIONS OF THE LOW VOLTAGE SYSTEM DEVICES (CAMERA, CARD READER, WIRELESS ACCESS POINT, INTERCOM, ETC.) AND PROVIDE ALL NECESSARY ACCESSORIES TO COMPLETE THE WIRING, POWER SUPPLY FOR THE DEVICES AS PER THE MANUFACTURER SPECIFICATIONS/ INSTALLATION GUIDELINES.
19. ALL ELECTRICAL EQUIPMENT LOCATED IN ANY FLOOD HAZARD AREA MUST BE INSTALLED IN ACCORDANCE WITH ASCE 24.14.
20. COORDINATE POWER & DATA REQUIREMENTS FOR CARDIO EQUIPMENT WITH EQUIPMENT VENDOR'S LAYOUT PRIOR TO INSTALLATION.
21. THE CONTRACTOR SHALL COORDINATE ALL EQUIPMENT REQUIREMENTS AND LOCATIONS WITH THE KITCHEN VENDOR'S EQUIPMENT PLAN. IN CASE OF ANY CONFLICT BETWEEN THE ELECTRICAL PLAN AND THE KITCHEN PLAN, THE CONTRACTOR MUST ADHERE TO THE KITCHEN PLANS AND PROVIDE ALL NECESSARY ACCESSORIES TO COMPLETE THE WIRING AND POWER SUPPLY FOR THE KITCHEN EQUIPMENT.
22. VERIFY LOCATIONS AND QUANTITIES OF WIRELESS ACCESS POINT (WAP) WITH THE OWNER / PROJECT MANAGER PRIOR TO INSTALLATION.
23. DATA OUTLET FOR WIRELESS ACCESS POINT (WAP) LOCATED ABOVE CEILING. WAP LOCATIONS AND CABLING WILL BE COMPLIED WITH HILTON STANDARD (VERIFY WITH HILTON FOR THE REQUIREMENTS). SIGNALS TO GUESTROOMS MUST PASS ALL UNONET / STAY CONNECTED TESTING WITH PANDUIT CABLING ONLY. VERIFY WITH THE SUPPLIER / MANUFACTURER FOR THE RECOMMENDATIONS OF LOCATIONS & QUANTITIES PRIOR TO INSTALLATION. PROVIDE POWER FOR THE WAP AS NEEDED

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MEP GREEN DESIGN & BUILD
FAST AND ACCURATE

MAY 22, 2024

COLORADO REGISTERED
51953
PROFESSIONAL ENGINEER

Holiday Inn Express

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DRAWING ISSUE DATES:
8/18/23 Permit Set

REVISION DATES:
10/19/23 Staff/GM Toilets, Permit Revisions
11/29/23 Mt. Werner Revisions
02/15/24 Pool Removal, Guest Room Addition
03/05/24 Updated plans
05/14/24 Updated plans
05/22/24 Updated per Submittal

PROJECT MANAGER:
DV

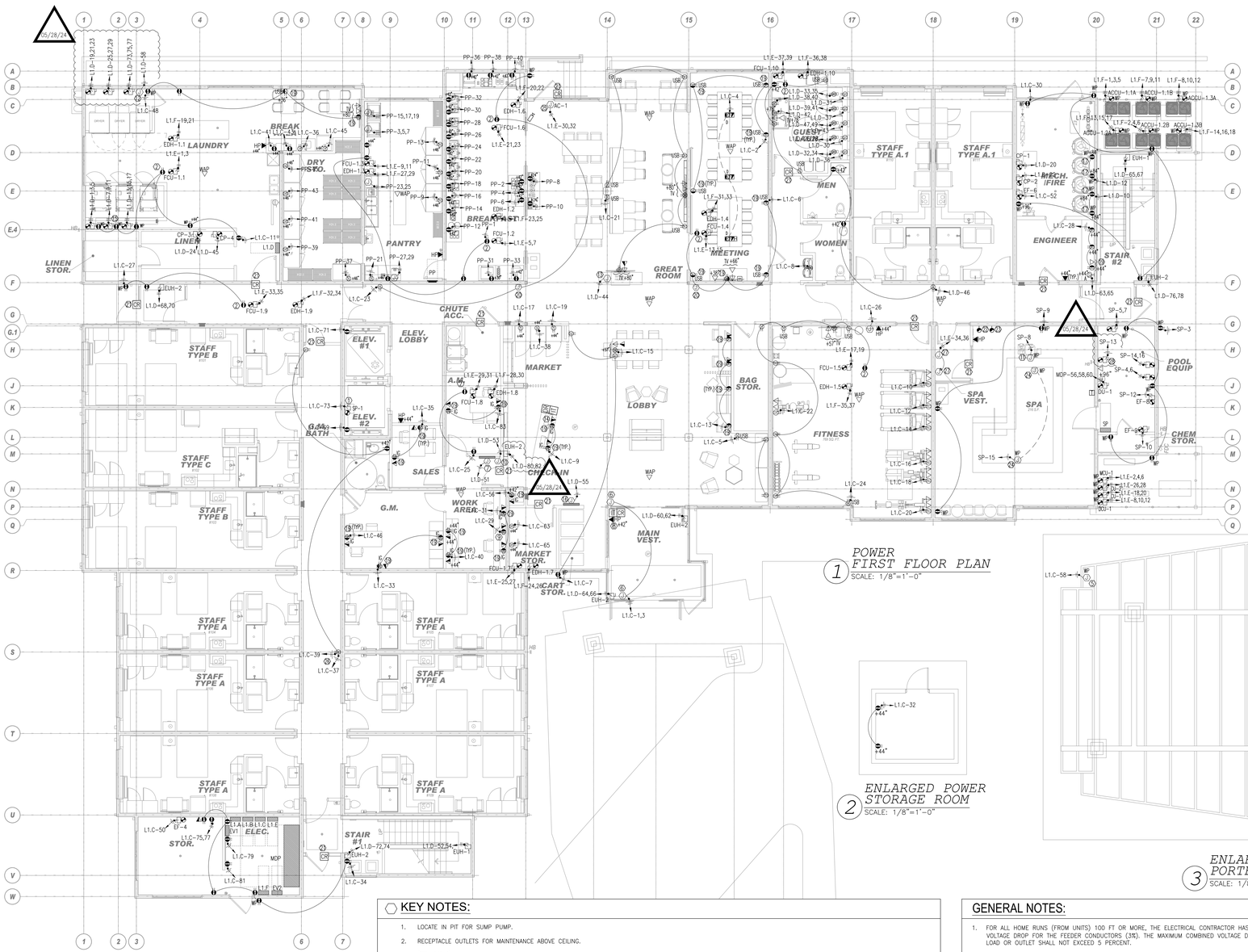
DRAWN BY:
PL

SHEET TITLE:
POWER FIRST FLOOR PLAN

E3.0

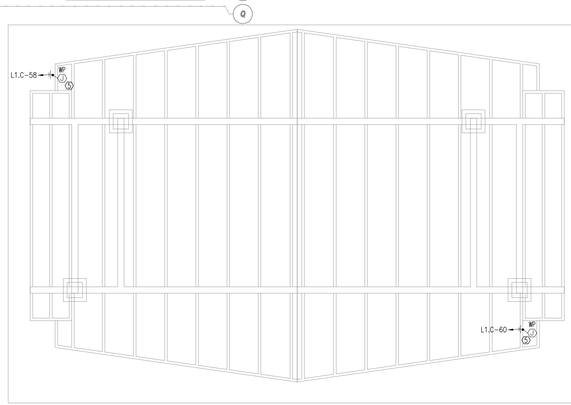
SHEET: 123 OF 142

ASI #2 5/28/24



1 POWER FIRST FLOOR PLAN
SCALE: 1/8"=1'-0"

2 ENLARGED POWER STORAGE ROOM
SCALE: 1/8"=1'-0"



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25. POWER FOR AIR CURTAIN. VERIFY LOCATION WITH MECHANICAL PLAN PRIOR TO INSTALLATION.
26. PROVIDE TWO CIRCUITS FOR CORRIDOR RECEPTACLES (SPLIT RECEPTACLES), VERIFY THE REQUIREMENT WITH THE OWNER PRIOR TO INSTALLATION.
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3. ELECTRICAL ROOM TO HAVE PANIC HARDWARE INSTALLED AND DOOR SHALL SWING IN THE DIRECTION OF EGRESS. COMPLY WITH THE 2023 NEC, ARTICLE 110.26 (C)(3).
4. ALL GFI RECEPTACLES SHALL NOT BE HIDDEN OR OBSTRUCTED PER THE 2023, INCLUDE THE FOOD PREP AREA.
5. THE CONTRACTOR SHALL VERIFY LOCATION OF ALL FLOOR OUTLETS WITH FURNITURE/ ARCH. PRIOR TO INSTALLATION.
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10. SPACE ALLOCATIONS FOR MATERIALS, EQUIPMENT AND DEVICES HAVE BEEN MADE ON THE BASIS OF PRESENT AND KNOWN FUTURE REQUIREMENTS AND THE DIMENSIONS OF ITEMS OF EQUIPMENT OR DEVICES OF A PARTICULAR MANUFACTURER. THE CONTRACTOR SHALL VERIFY THAT ALL MATERIALS, EQUIPMENT AND DEVICES PROPOSED FOR USE ON THIS PROJECT ARE WITHIN THE CONSTRAINTS OF THE ALLOCATED SPACE.
11. HOMERUNS SHALL BE COMBINED WHERE POSSIBLE IN ACCORDING TO NFPA .
12. HOMERUN CIRCUITS FOR ISOLATED GROUND RECEPTACLES SHALL BE SEPARATED FROM OTHER CIRCUITS. EACH CIRCUIT SHALL HAVE ITS OWN NEUTRAL CONDUCTOR AND EACH HOMERUN SHALL CONTAIN AN ISOLATED AND EQUIPMENT GROUND CONDUCTOR.
13. COORDINATE THE LOCATION AND INSTALLATION DETAIL OF OUTLETS IN MILLWORK WITH ARCHITECTURAL DRAWINGS (WALL ELEVATIONS, MILLWORK DETAILS, ETC.) AND WITH MILLWORK MANUFACTURER PRIOR TO ELECTRICAL ROUGH-IN.
14. WALL AND FLOOR MOUNTED POWER RECEPTACLES SHOWN NEAR DATA OUTLETS SHALL BE LOCATED WITHIN SIX (6) INCHES OF THE DATA OUTLET. LOCATE AT SAME MOUNTING HEIGHT UNLESS NOTED OTHERWISE.
15. ALL GFCI RECEPTACLES SHALL BE CONNECTED SO THAT ALL DEVICES ON THE SAME CIRCUIT AS THE GFCI RECEPTACLE DO NOT DE-ENERGIZE UPON TRIPPING. ALL GFCI RECEPTACLES SHALL INCLUDE A LOCK-OUT FUNCTION TO PROTECT AGAINST THE USE OF MISWIRED DEVICES OR DEVICES THAT HAVE BEEN DAMAGED DUE TO DISABLING SURGES.
16. ELECTRICAL CONTRACTORS MUST VERIFY ALL ELECTRICAL REQUIREMENTS WITH THE HVAC AND PLUMBING SYSTEMS TO PROVIDE ALL NECESSARY ACCESSORIES TO COMPLETE THE CONTROL WIRING FOR THE MOTORS.
17. CONTRACTOR SHOULD REFER TO THE EXHAUST /FRESH AIR FAN SCHEDULES ON SHEET M1.1 FOR THE CONTROL OF FANS.
18. THE CONTRACTOR SHALL VERIFY WITH THE OWNER/FRANCHISE FOR THE QUANTITIES AND LOCATIONS OF THE LOW VOLTAGE SYSTEM DEVICES (CAMERA, CARD READER, WIRELESS ACCESS POINT, INTERCOM, ETC.) AND PROVIDE ALL NECESSARY ACCESSORIES TO COMPLETE THE WIRING, POWER SUPPLY FOR THE DEVICES AS PER THE MANUFACTURER SPECIFICATIONS/ INSTALLATION GUIDELINES.
19. ALL ELECTRICAL EQUIPMENT LOCATED IN ANY FLOOD HAZARD AREA MUST BE INSTALLED IN ACCORDANCE WITH ASCE 24.14.
20. COORDINATE POWER & DATA REQUIREMENTS FOR CARDIO EQUIPMENT WITH EQUIPMENT VENDOR'S LAYOUT PRIOR TO INSTALLATION.
21. THE CONTRACTOR SHALL COORDINATE ALL EQUIPMENT REQUIREMENTS AND LOCATIONS WITH THE KITCHEN VENDOR'S EQUIPMENT PLAN. IN CASE OF ANY CONFLICT BETWEEN THE ELECTRICAL PLAN AND THE KITCHEN PLAN, THE CONTRACTOR MUST ADHERE TO THE KITCHEN PLANS AND PROVIDE ALL NECESSARY ACCESSORIES TO COMPLETE THE WIRING AND POWER SUPPLY FOR THE KITCHEN EQUIPMENT.
22. VERIFY LOCATIONS AND QUANTITIES OF WIRELESS ACCESS POINT (WAP) WITH THE OWNER / PROJECT MANAGER PRIOR TO INSTALLATION.
23. DATA OUTLET FOR WIRELESS ACCESS POINT (WAP) LOCATED ABOVE CEILING. WAP LOCATIONS AND CABLING WILL BE COMPLIED WITH HILTON STANDARD (VERIFY WITH HILTON FOR THE REQUIREMENTS). SIGNALS TO GUESTROOMS MUST PASS ALL UNONET / STAY CONNECTED TESTING WITH PANDUIT CABLING ONLY. VERIFY WITH THE SUPPLIER / MANUFACTURER FOR THE RECOMMENDATIONS OF LOCATIONS & QUANTITIES PRIOR TO INSTALLATION. PROVIDE POWER FOR THE WAP AS NEEDED

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MEP GREEN DESIGN & BUILD
FAST AND ACCURATE

MAY 28, 2024

REGISTERED PROFESSIONAL ENGINEER
51953

Holiday Inn Express

3350 S. LINCOLN AVE
STEAMBOAT SPRINGS, CO 80487

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8/18/23 Permit Set

REVISION DATES:
10/19/23 Staff/GM Toilets, Permit Revisions
11/29/23 Mt. Werner Revisions
02/15/24 Pool Removal, Guest Room Addition
03/05/24 Updated plans
05/14/24 Updated plans
05/22/24 Updated per Submittal
05/28/24 Updated plans

PROJECT MANAGER:
DV

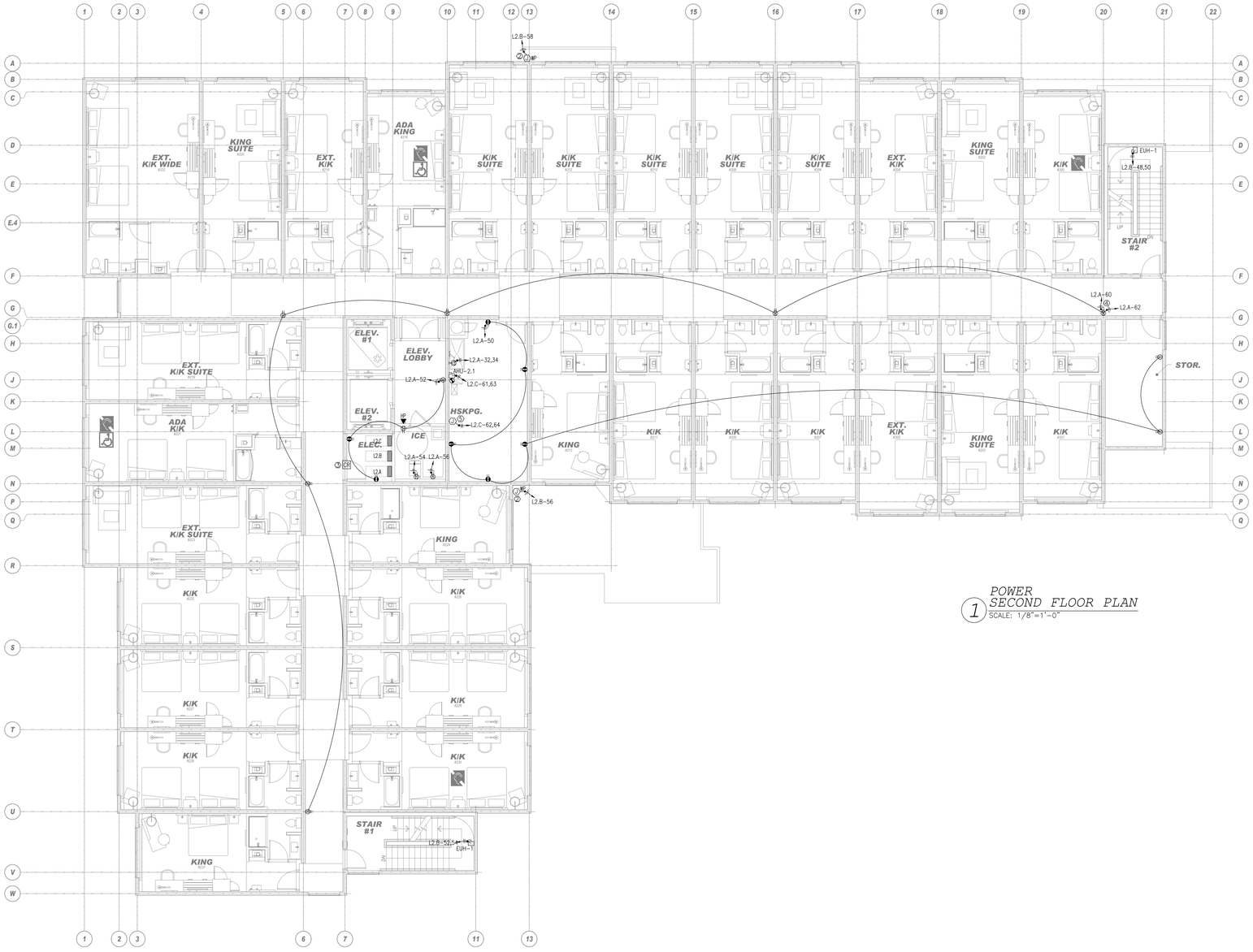
DRAWN BY:
PL

SHEET TITLE:
POWER FIRST FLOOR PLAN

E3.0

SHEET: 123 OF 142

ASI #3 6/11/24



1 POWER SECOND FLOOR PLAN
SCALE: 1/8"=1'-0"

NOTE FOR RADIO COVERAGE RESPONDER SYSTEM

1. CONTRACTOR SHALL PROVIDE DEDICATED EMERGENCY 120V, 20A CIRCUIT FOR RADIO RESPONDERS COVERAGE SYSTEM AT 2ND FLOOR, CONNECT TO L1.0-52, USING 2#12, 1/2"C.

NOTE FOR FIRE SMOKE DAMPER:

1. CONTRACTOR SHALL PROVIDE J-BOXES FOR FIRE SMOKE DAMPERS AT 2ND FLOOR, CONNECT TO L2.A-58, USING 2#12, 1/2"C."

KEYED NOTE:

1. RECEPTACLE OUTLETS FOR MAINTENANCE ABOVE CEILING.
2. J-BOX FOR SNOWMELT SYSTEM. VERIFY LOCATION AND POWER REQUIREMENT WITH ARCHITECTURAL PLAN PRIOR TO INSTALLATION.
3. CARD READER BUILT-IN ON THE DOOR. VERIFY THE REQUIREMENT WITH OWNER PRIOR TO INSTALLATION.
4. PROVIDE TWO CIRCUITS FOR CORRIDOR RECEPTACLES (SPLIT RECEPTACLES). VERIFY THE REQUIREMENT WITH THE OWNER PRIOR TO INSTALLATION.

27. J.BOX FOR BRANCH SELECTOR. VERIFY LOCATION WITH MECHANICAL PRIOR TO INSTALLATION.

GENERAL NOTES:

1. FOR HOME RUNS (FROM UNITS) 100 FT OR MORE, THE ELECTRICAL CONTRACTOR HAS TO CHECK THE VOLTAGE DROP AND SELECT THE SUITABLE CABLES SIZE TO COMPLY WITH THE MAXIMUM ALLOWED VOLTAGE DROP FOR THE FEEDER CONDUCTOR (3%). THE MAXIMUM COMBINED VOLTAGE DROP ON BOTH INSTALLED FEEDER CONDUCTORS AND BRANCH CIRCUIT CONDUCTORS TO THE FARTHEST CONNECTED LOAD OR OUTLET SHALL NOT EXCEED 5 PERCENT.
2. THE CONTRACTOR SHALL VERIFY WITH THE OWNER FOR THE APPROVED BRANDS/ MODELS/ QUANTITY & LOCATION OF THE LOW VOLTAGE SYSTEM DEVICES (CAMERA, CARD READER, WIRELESS ACCESS POINT, INTERCOM, ETC.) AND PROVIDE ALL NECESSARY ACCESSORIES TO COMPLETE THE WIRING, POWER SUPPLY FOR THE DEVICES AS PER THE MANUFACTURER SPECIFICATIONS/ INSTALLATION GUIDELINES.
3. CONTRACTOR HAVE TO INSTALL APPROVED MOBILE KEY CERTIFIED RFID LOCK SYSTEM WITH BLUETOOTH LOW ENERGY (BLE) KEY READER ON ALL DOORS INCLUDING, BUT NOT LIMITED TO, GUESTROOM ENTRIES, GUEST ACCESSED FACILITIES, EXTERIOR ENTRANCES, PARKING, MEETING SPACES, AND BACK OF HOUSE DOORS AT THE FRONT DESK/CHECK-IN STATION, AND FRONT OFFICE.

REVIEWED FOR CODE COMPLIANCE
01/12/2024

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OCT. 19, 2023
REGISTERED PROFESSIONAL ENGINEER
51953

Project Name
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Shopping Center
Albuquerque, NM

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PROJECT MANAGER:
DV

DRAWN BY:
PL

SHEET TITLE:
POWER SECOND FLOOR PLAN

E3.1
SHEET: 122 OF 140

10/19/23
NOTE:
- NEW BACKGROUND

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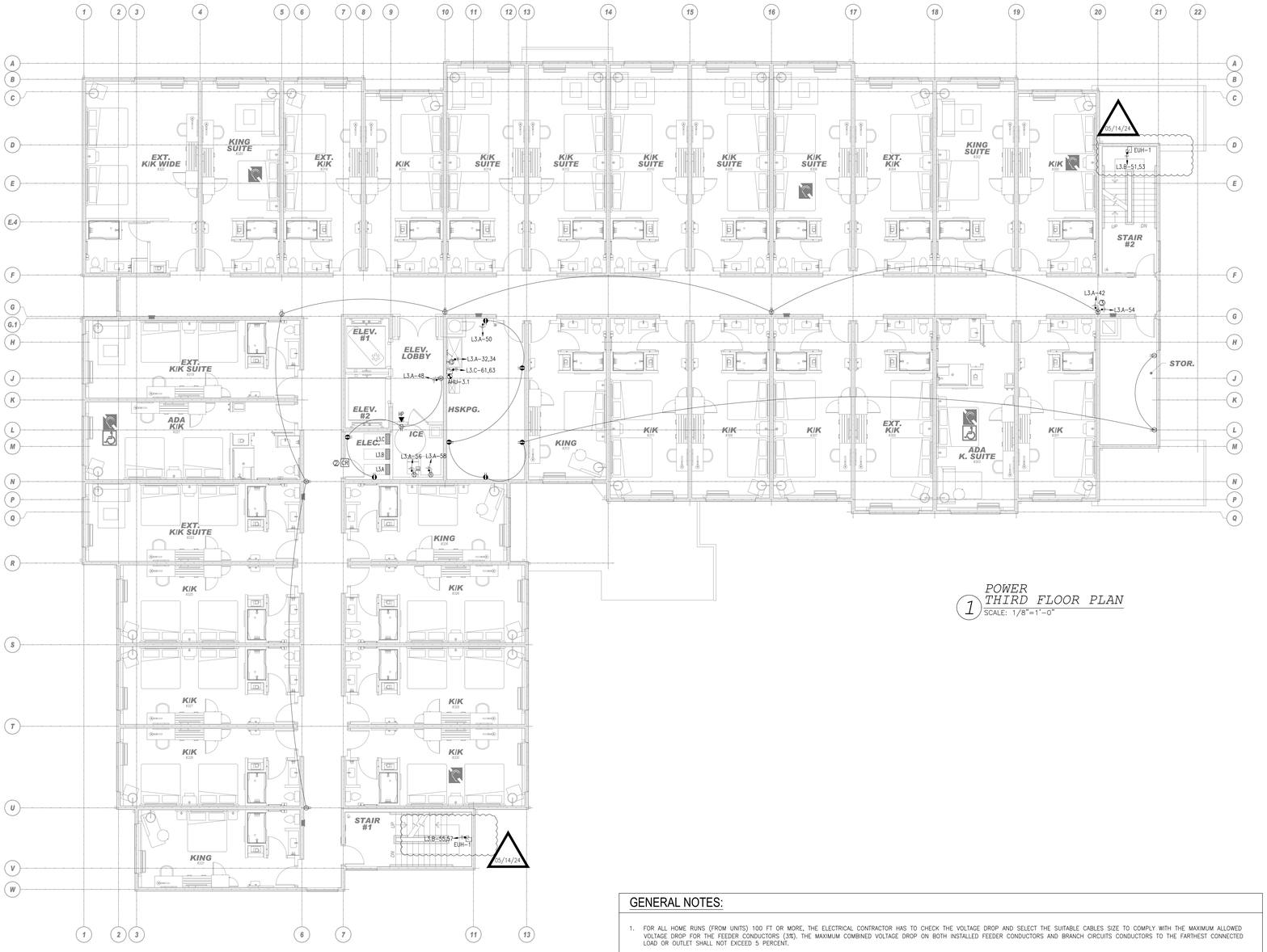

1 POWER THIRD FLOOR PLAN
SCALE: 1/8"=1'-0"

NOTE FOR RADIO COVERAGE RESPONDER SYSTEM

1. CONTRACTOR SHALL PROVIDE DEDICATED EMERGENCY 120V, 20A CIRCUIT FOR RADIO RESPONDERS COVERAGE SYSTEM AT 3RD FLOOR, CONNECT TO L1.D-50, USING 2#12, 1/2"C.

NOTE FOR FIRE SMOKE DAMPER:

1. CONTRACTOR SHALL PROVIDE J-BOXES FOR FIRE SMOKE DAMPERS AT 3RD FLOOR, CONNECT TO L3.A-60, USING 2#12, 1/2"C.".
2. CARD READER BUILT-IN ON THE DOOR. VERIFY THE REQUIREMENT WITH OWNER PRIOR TO INSTALLATION.
3. PROVIDE TWO CIRCUITS FOR CORRIDOR RECEPTACLES (SPLIT RECEPTACLES). VERIFY THE REQUIREMENT WITH THE OWNER PRIOR TO INSTALLATION.

GENERAL NOTES:

1. FOR ALL HOME RUNS (FROM UNITS) 100 FT OR MORE, THE ELECTRICAL CONTRACTOR HAS TO CHECK THE VOLTAGE DROP AND SELECT THE SUITABLE CABLES SIZE TO COMPLY WITH THE MAXIMUM ALLOWED VOLTAGE DROP FOR THE FEEDER CONDUCTORS (3%). THE MAXIMUM COMBINED VOLTAGE DROP ON BOTH INSTALLED FEEDER CONDUCTORS AND BRANCH CIRCUITS CONDUCTORS TO THE FARTHEST CONNECTED LOAD OR OUTLET SHALL NOT EXCEED 5 PERCENT.
2. THE CONTRACTOR SHALL VERIFY WITH THE OWNER FOR THE APPROVED BRANDS/ MODELS OF THE LOW VOLTAGE SYSTEM DEVICES (CAMERA, CARD READER, WIRELESS ACCESS POINT, ETC.) AND PROVIDE ALL NECESSARY ACCESSORIES TO COMPLETE THE WIRING, POWER SUPPLY FOR THE DEVICES AS PER THE MANUFACTURER SPECIFICATIONS/ INSTALLATION GUIDELINES.
3. ELECTRICAL ROOM TO HAVE PANIC HARDWARE INSTALLED AND DOOR SHALL SWING IN THE DIRECTION OF EGRESS. COMPLY WITH THE 2023 NEC, ARTICLE 110.26 (C)(3).
4. ALL GFI RECEPTACLES SHALL NOT BE HIDDEN OR OBSTRUCTED PER THE 2023, INCLUDE THE FOOD PREP AREA.
5. THE CONTRACTOR SHALL VERIFY LOCATION OF ALL FLOOR OUTLETS WITH FURNITURE/ ARCH. PRIOR TO INSTALLATION.
6. CONTRACTOR SHOULD VERIFY EXACT LOCATION, BREAKER SIZES, CABLE SIZES, HP, CONTROL WIRING, ETC FOR ALL ELECTRICAL EQUIPMENT WITH KITCHEN SUPPLIER PRIOR TO INSTALLATION.
7. PROVIDE TAMPER RESISTANT RECEPTACLES FOR THE BREAKFAST ROOM, LOBBY, FITNESS ROOM, AND OTHER ASSEMBLY AREAS ACCESSIBLE TO THE PUBLIC (NEC 406.12).
8. ELECTRICAL CONTRACTORS SHOULD VERIFY ALL ELECTRICAL REQUIREMENT WITH ELEVATOR SUPPLIER PRIOR TO INSTALLATION.
9. THE CONTRACTOR SHALL VERIFY ALL REQUIREMENTS FOR CONTROL WIRING, NEUTRAL WIRES FOR ALL ELECTRICAL EQUIPMENT WITH THE SUPPLIER/ MANUFACTURER PRIOR TO INSTALLATION.
10. SPACE ALLOCATIONS FOR MATERIALS, EQUIPMENT AND DEVICES HAVE BEEN MADE ON THE BASIS OF PRESENT AND KNOWN FUTURE REQUIREMENTS AND THE DIMENSIONS OF ITEMS OF EQUIPMENT OR DEVICES OF A PARTICULAR MANUFACTURER. THE CONTRACTOR SHALL VERIFY THAT ALL MATERIALS, EQUIPMENT AND DEVICES PROPOSED FOR USE ON THIS PROJECT ARE WITHIN THE CONSTRAINTS OF THE ALLOCATED SPACE.
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12. HOMERUN CIRCUITS FOR ISOLATED GROUND RECEPTACLES SHALL BE SEPARATED FROM OTHER CIRCUITS. EACH CIRCUIT SHALL HAVE ITS OWN NEUTRAL CONDUCTOR AND EACH HOMERUN SHALL CONTAIN AN ISOLATED AND EQUIPMENT GROUND CONDUCTOR.
13. COORDINATE THE LOCATION AND INSTALLATION DETAIL OF OUTLETS IN MILLWORK WITH ARCHITECTURAL DRAWINGS (WALL ELEVATIONS, MILLWORK DETAILS, ETC.) AND WITH MILLWORK MANUFACTURER PRIOR TO ELECTRICAL ROUGH-IN.
14. WALL AND FLOOR MOUNTED POWER RECEPTACLES SHOWN NEAR DATA OUTLETS SHALL BE LOCATED WITHIN SIX (6) INCHES OF THE DATA OUTLET. LOCATE AT SAME MOUNTING HEIGHT UNLESS NOTED OTHERWISE.
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MEP GREEN DESIGN & BUILD
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MAY 14, 2024

COLORADO REGISTERED 51953 PROFESSIONAL ENGINEER

Holiday Inn Express

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8/18/23 Permit Set

REVISION DATES:
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11/29/23 Mt. Werner Revisions
02/15/24 Pool Removal, Guest Room Addition
03/05/24 Updated plans
05/14/24 Updated plans

PROJECT MANAGER:
DV

DRAWN BY:
PL

SHEET TITLE:
POWER THIRD FLOOR PLAN

E3.2

SHEET: 125 OF 142

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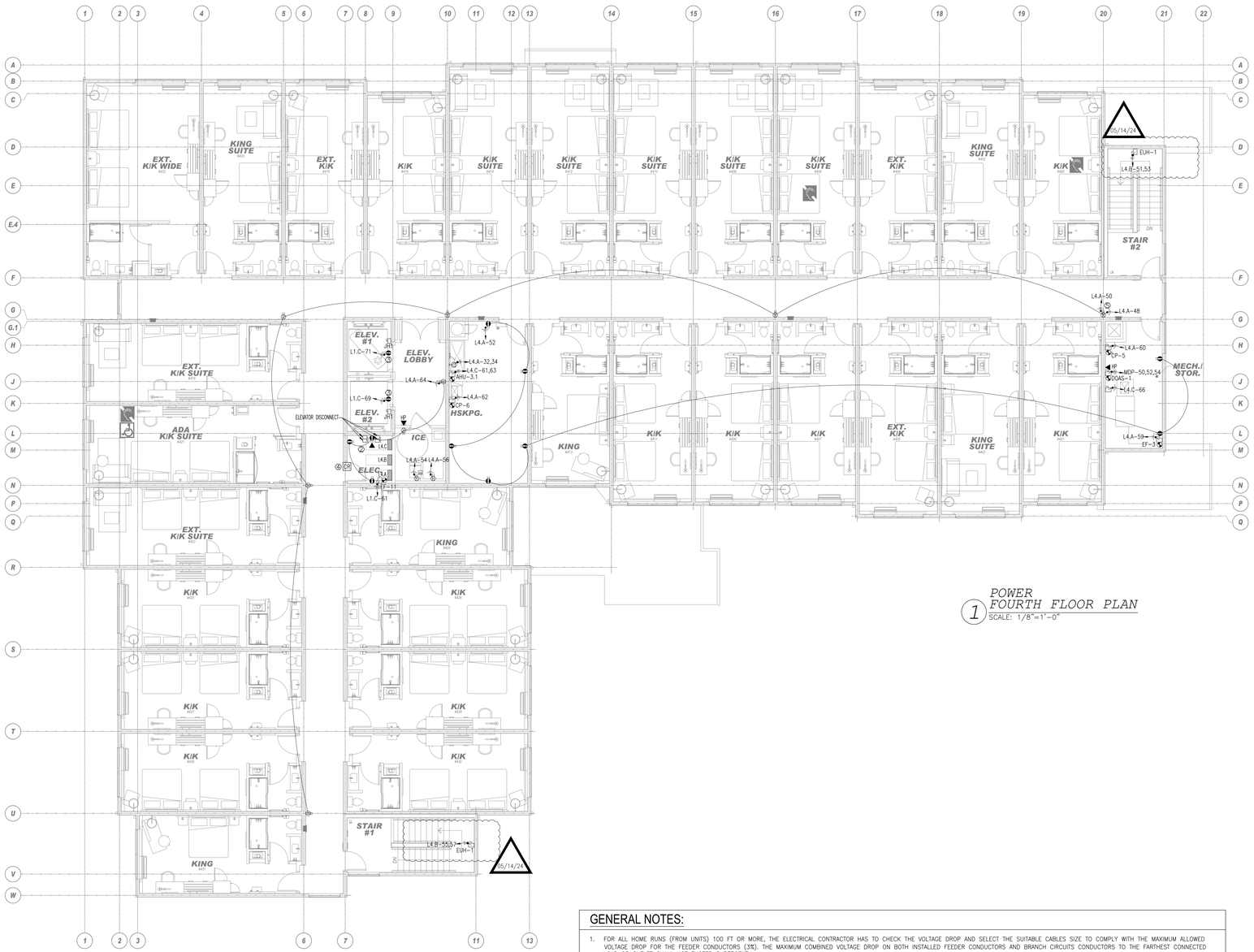

NOTE FOR RADIO COVERAGE RESPONDER SYSTEM

1. CONTRACTOR SHALL PROVIDE DEDICATED EMERGENCY 120V, 20A CIRCUIT FOR RADIO RESPONDERS COVERAGE SYSTEM AT 4TH FLOOR, CONNECT TO L1.D-48, USING 2#12, 1/2"C.

NOTE FOR FIRE SMOKE DAMPER:

1. CONTRACTOR SHALL PROVIDE J-BOXES FOR FIRE SMOKE DAMPERS AT 4TH FLOOR, CONNECT TO L4.A-58, USING 2#12, 1/2"C.".

KEYED NOTE:

1. RECEPTACLE OUTLETS FOR MAINTENANCE ABOVE CEILING.
2. ELEVATOR CONTRACTORS SHOULD VERIFY ALL ELECTRICAL REQUIREMENT WITH ELEVATOR SUPPLIER PRIOR TO INSTALLATION.
3. VERIFY LOCATION WITH ARCHITECTURAL PLAN PRIOR TO INSTALLATION.
4. CARD READER BUILT-IN ON THE DOOR. VERIFY THE REQUIREMENT WITH OWNER PRIOR TO INSTALLATION.
5. PROVIDE TWO CIRCUITS FOR CORRIDOR RECEPTACLES (SPLIT RECEPTACLES). VERIFY THE REQUIREMENT WITH THE OWNER PRIOR TO INSTALLATION.

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4. ALL GFI RECEPTACLES SHALL NOT BE HIDDEN OR OBSTRUCTED PER THE 2023, INCLUDE THE FOOD PREP AREA.
5. THE CONTRACTOR SHALL VERIFY LOCATION OF ALL FLOOR OUTLETS WITH FURNITURE/ ARCH. PRIOR TO INSTALLATION.
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11/29/23 Mt. Werner Revisions
02/15/24 Pool Removal, Guest Room Addition
03/05/24 Updated plans
05/14/24 Updated plans

PROJECT MANAGER:
DV

DRAWN BY:
PL

SHEET TITLE:
POWER FOURTH FLOOR PLAN

E3.3

SHEET: 126 OF 142

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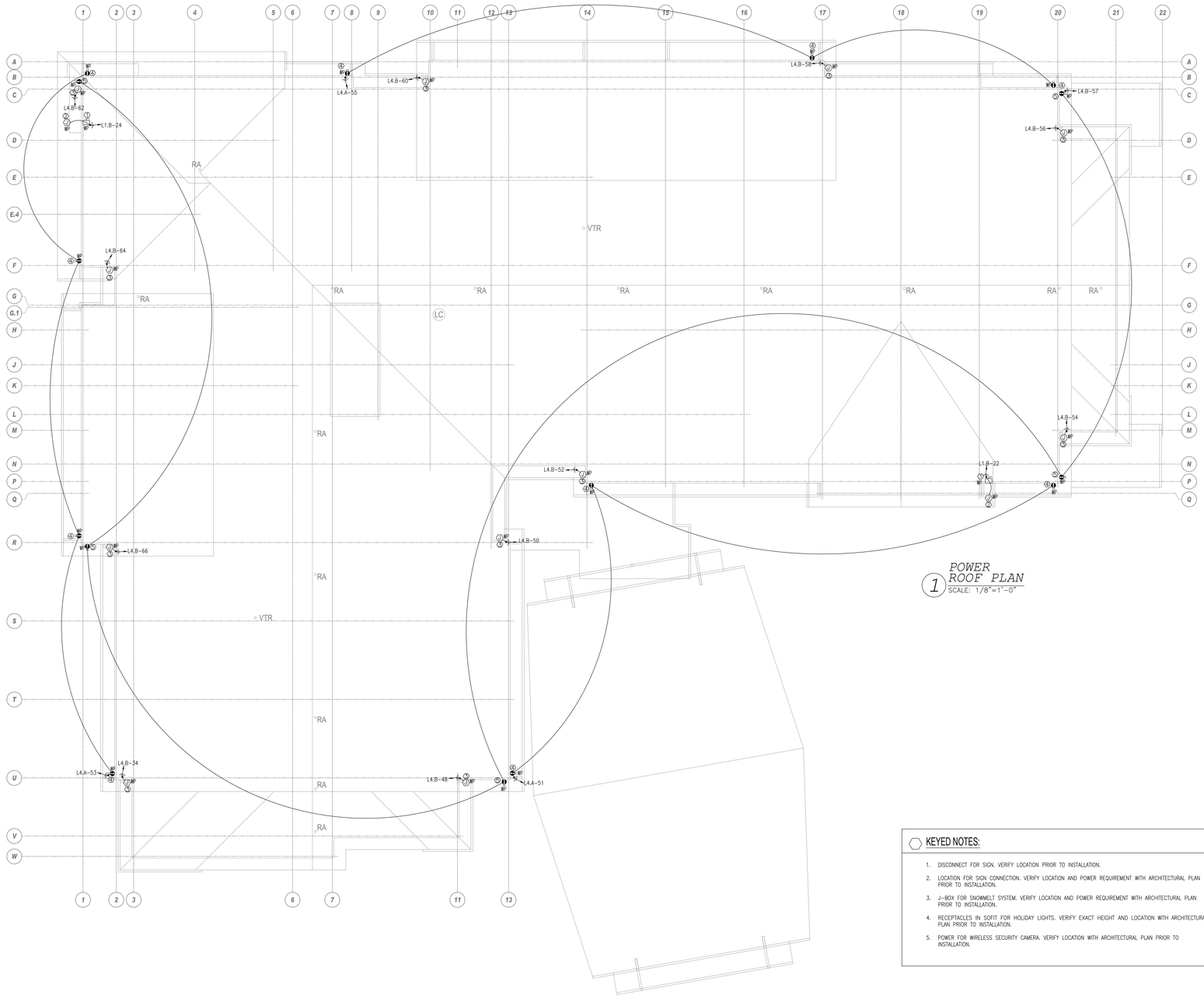

1 POWER ROOF PLAN
SCALE: 1/8"=1'-0"

KEYED NOTES:

1. DISCONNECT FOR SIGN. VERIFY LOCATION PRIOR TO INSTALLATION.
2. LOCATION FOR SIGN CONNECTION. VERIFY LOCATION AND POWER REQUIREMENT WITH ARCHITECTURAL PLAN PRIOR TO INSTALLATION.
3. J-BOX FOR SNOWMELT SYSTEM. VERIFY LOCATION AND POWER REQUIREMENT WITH ARCHITECTURAL PLAN PRIOR TO INSTALLATION.
4. RECEPTACLES IN SOFIT FOR HOLIDAY LIGHTS. VERIFY EXACT HEIGHT AND LOCATION WITH ARCHITECTURAL PLAN PRIOR TO INSTALLATION.
5. POWER FOR WIRELESS SECURITY CAMERA. VERIFY LOCATION WITH ARCHITECTURAL PLAN PRIOR TO INSTALLATION.

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OCT. 19, 2023

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PROFESSIONAL ENGINEER

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0000 Street
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Albuquerque, NM

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DRAWING ISSUE DATES:
8/18/23 PERMIT SET

REVISION DATES:
10/19/23 Staff/GM Toilets, Permit Revisions

PROJECT MANAGER:
DV

DRAWN BY:
PL

SHEET TITLE:
POWER ROOF PLAN

10/19/23
NOTE:
- NEW BACKGROUND

E3.4
SHEET: 125 OF 140

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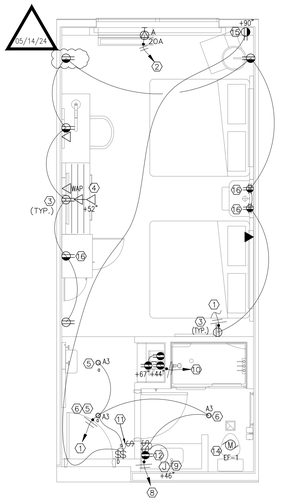

1 K/K STANDARD
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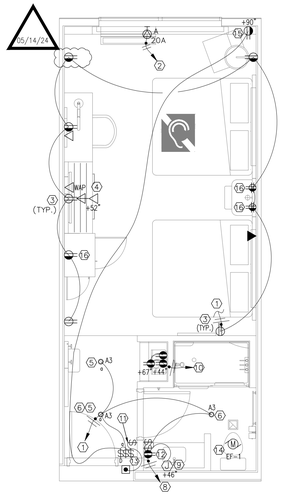

2 K/K STANDARD (HA)
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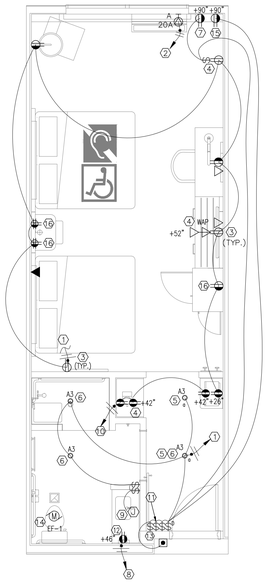

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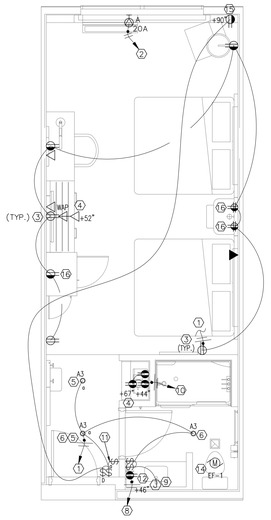

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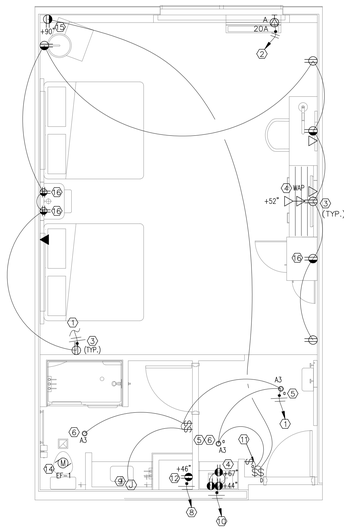

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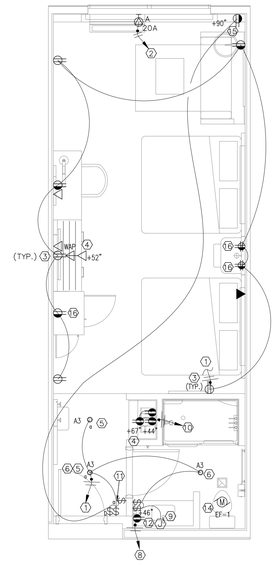

6 K/K SUITE
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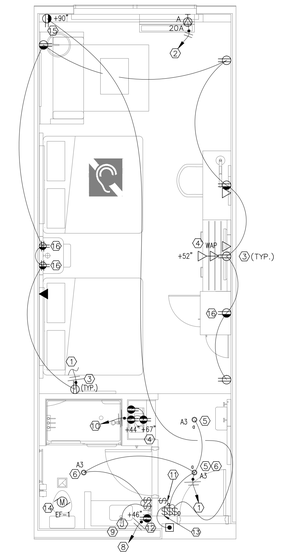

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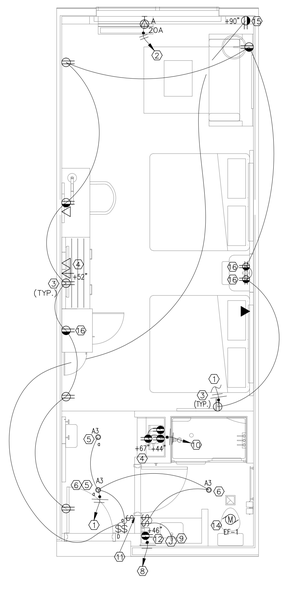

8 EXT. K/K SUITE
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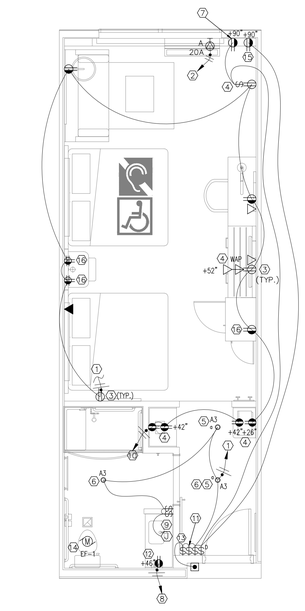
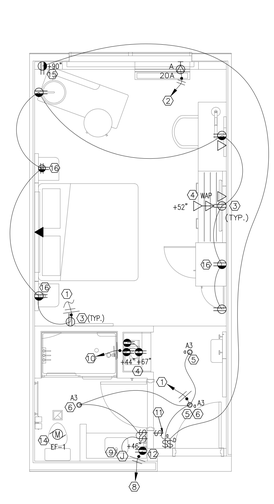
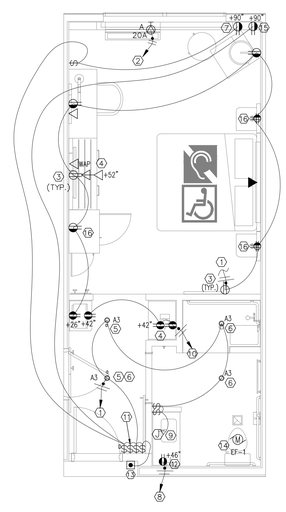


9 ADA K/K SUITE
SCALE: 1/4"=1'-0"



10 KING STANDARD
SCALE: 1/4"=1'-0"



11 ADA KING
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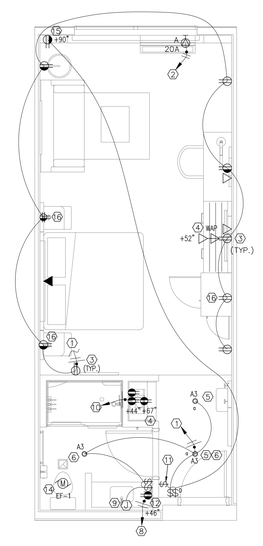

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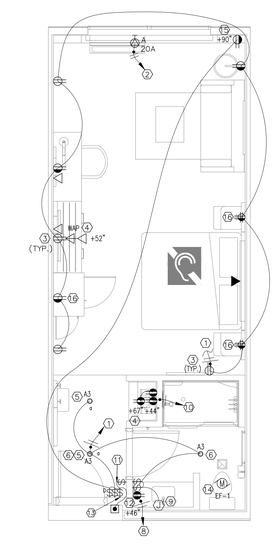

13 KING SUITE (HA)
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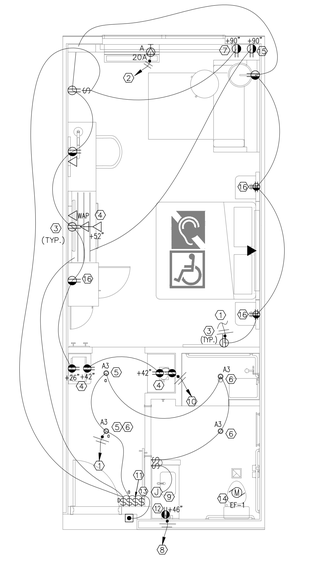

14 ADA KING SUITE
SCALE: 1/4"=1'-0"

NOTES:

A. PROVIDE AN ILLUMINATED LIGHT SWITCH AT THE PRIMARY ENTRANCE DOOR.

B. ELECTRICAL OUTLETS FOR PTACs WILL BE MOUNTED ON SUB-BASE. PLEASE REFER NOTE#1 UNDER PACKAGED TERMINAL AIR CONDITIONER ON M1.1 FOR MORE INFORMATION. VERIFY WITH MECHANICAL PRIOR TO INSTALLATION.

C. FOR ALL HOME RUNS (FROM UNITS) 100 FT OR MORE, THE ELECTRICAL CONTRACTOR HAS TO CHECK THE VOLTAGE DROP AND SELECT THE SUITABLE CABLES SIZE TO COMPLY WITH THE MAXIMUM ALLOWED VOLTAGE DROP FOR THE FEEDER CONDUCTOR (3%). THE MAXIMUM COMBINED VOLTAGE DROP ON BOTH INSTALLED FEEDER CONDUCTORS AND BRANCH CIRCUIT CONDUCTORS TO THE FARTHEST CONNECTED LOAD OR OUTLET SHALL NOT EXCEED 5 PERCENT.

D. GUEST ROOM ELECTRICAL OUTLETS NEED TO BE MOUNTED HIGHER BEHIND DESKS, NIGHTSTANDS, ETC...

E. DATA AND USB OUTLETS ARE OPTIONAL AT THE DESK WHEN WIRELESS SYSTEM AND SIGNATURE RECHARGE DEVICE ARE PROVIDED.

F. THE CONTRACTOR SHALL VERIFY EXACT LOCATION & QUANTITIES OF ALL ELECTRICAL EQUIPMENT WITH ARCHITECTURAL & PROTOTYPE PLANS PRIOR TO INSTALLATION.

G. MAXIMUM BOX SIZE IN A FIRE-RATED WALL SHALL BE 4" X 4" SQUARE. DO NOT INSTALL BOXES BACK TO BACK IN WALLS, IN NONFIRE-RATED AND NONACOUSTIC- RATED WALLS, PROVIDE NOT LESS THAN 6 INCHES (150-MM) HORIZONTAL SEPARATION BETWEEN BOXES INSTALLED IN OPPOSITE SIDES OF WALL.

H. PROVIDE ARC FAULT BREAKERS FOR BRANCH CIRCUITS TO COMPLY WITH ARTICLE 210.12(C)

I. ALL NONLOCKING-TYPE RECEPTACLES LOCATED IN GUESTROOMS AND GUEST BATHROOM SHALL BE LISTED TAMPER-RESISTANT. ARTICLE 406.12 N.E.C.

J. GUEST ROOMS OR GUEST SUITES IN HOTELS HAVE RECEPTACLE OUTLETS INSTALLED IN ACCORDANCE WITH NEC 210.52(A) & (D)

K. THE CONTRACTOR HAS TO DOUBLE-CHECK THE NUMBERS AND POSITIONS OF HEARING-IMPAIRED AND ADA /ACCESSIBLE ROOMS ON THE ARCHITECTURAL PLANS. THE CONTRACTOR SHALL INSTALL ALL ELECTRICAL DEVICES ACCORDING TO THE CODES REQUIREMENTS.

L. PROVIDE ELECTRICAL MOCK-UP OF ONE ROOM OF EACH GUEST ROOM TYPE FOR OWNER, FRANCHISE, INTERIOR DESIGNER AND CITY INSPECTOR APPROVAL PRIOR TO PROCEEDING WITH ALL ROOMS.

KEYED NOTES:

1. CONNECT TO 20A/1P BREAKER IN PANEL AS INDICATED ON PANEL SCHEDULE
2. CONNECT TO 15A/2P BREAKER IN PANEL AS INDICATED ON PANEL SCHEDULE
3. WHERE RECEPTACLES AND LIGHTS ARE SERVED BY A COMMON CIRCUIT, RECEPTACLES SHALL BE KEPT UNSWITCHED UNLESS NOTED OTHERWISE.
4. VERIFY EXACT LOCATION AND MOUNTING HEIGHT WITH ARCHITECT ELEVATIONS.
5. THIS DRAWING SHOWS BASE CONDITION WITH TWO RECESSED LIGHT FIXTURES IN ENTRY. COORDINATE DESIGN IF INCORPORATING ALTERNATE LAYOUT WITH SINGLE SURFACE-MOUNTED FIXTURE EXG2-405 AS SHOWN ON SHEET A425 ON THE PROTOTYPE OF HIEX.
6. FIXTURE EXG2-405 AS ALTERNATE.
7. RECEPTACLES FOR MOTORIZED SHADE. VERIFY LOCATION WITH ARCHITECTURAL PLAN PRIOR TO INSTALLATION.
8. CONNECT TO 20A/1P BREAKER IN PANEL AS INDICATED ON PANEL SCHEDULE.
9. PROVIDE JUNCTION BOX FOR LIT-MIRROR. REFER TO ARCHITECTURAL PLANS FOR LOCATION OF THE FIXTURE.
10. CONNECT TO 25A/1P BREAKER IN PANEL AS INDICATED ON PANEL SCHEDULE.
11. PROVIDE 120V CAPTIVE CARD SWITCH TO CONTROL ALL LIGHTS FIXTURES AND SWITCHED RECEPTACLES IN GUESTROOM.
12. PROVIDE BRAND-APPROVED NIGHTLIGHT ON THIS WALL, INTEGRAL TO EITHER SWITCH OR GFCI OUTLET; REFER TO DESIGN CONNECT FOR CURRENT LIST OF BRAND-APPROVED DEVICES. PROVIDE OCCUPANCY-SENSING SWITCH WHERE REQUIRED BY CODE.
13. DOORBELL ON/ OFF SWITCH FOR COMMUNICATION FEATURE ROOMS ONLY.
14. THE EXHAUST FAN WILL BE TIED TO THE PTAC UNIT. VERIFY WITH MECHANICAL PLAN /MECHANICAL CONTRACTOR PRIOR TO INSTALLATION.
15. RECEPTACLES FOR WINDOW CORNICE LED TAPE LIGHT – 4 WATTS PER FOOT, DIMMABLE. VERIFY LOCATION WITH ARCHITECTURAL PLAN PRIOR TO INSTALLATION.
16. PROVIDE FFE HEADBOARD-MOUNTED FIXTURE, PLUGGED INTO OUTLET BEHIND REMOVABLE NIGHTSTAND PANEL.

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MEP GREEN DESIGN & BUILD
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MAY 14, 2024

COLORADO REGISTERED
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PROFESSIONAL ENGINEER

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8/18/23 Permit Set

REVISION DATES:
10/19/23 Stuff/GM Toilets, Permit Revisions
11/29/23 Mt. Werner Revisions
02/15/24 Pool Removal, Guest Room Addition
03/05/24 Updated plans
05/14/24 Updated plans

PROJECT MANAGER:
DV

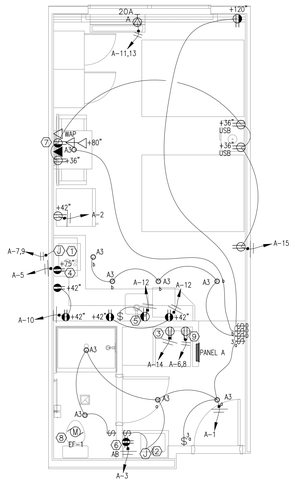
DRAWN BY:
PL

SHEET TITLE:
ELECTRICAL TYPICAL GUESTROOM PLAN

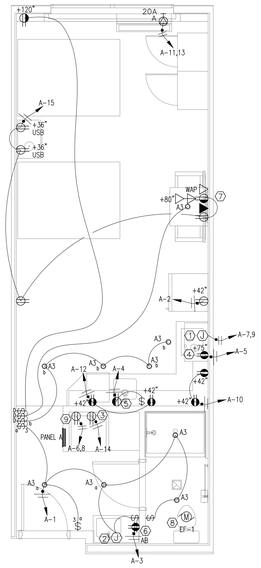
E4.0

SHEET: 128 OF 142

ASI #2 5/28/24



1 STAFF TYPE A
SCALE: 1/4"=1'-0"



2 STAFF TYPE B
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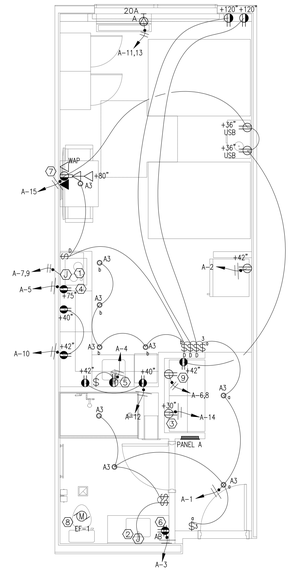
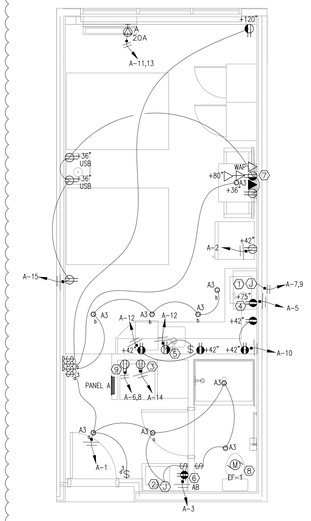


3 STAFF TYPE C
SCALE: 1/4"=1'-0"



4 STAFF TYPE A.1
SCALE: 1/4"=1'-0"

GENERAL NOTES:

1. THE RECEPTACLE OUTLETS IN DWELLING UNITS MUST BE PROVIDED TO COMPLY WITH SECTION 210.52.
2. PROVIDE TIMER CONTROL FOR COOK TOP. TIME CONTROL IS REQUIRED TO BE MOUNTED TO MEET ADA FEDERAL GUIDELINES REACH REQUIREMENTS.
3. REFER TO NOTE #1 ON PACKAGED TERMINAL AIR CONDITIONER SCHEDULES ON M1.1 FOR INSTALLING ELECTRICAL OUTLETS FOR PTACs.
4. PAINT FRONT SIDE OF BREAKER PANEL OUT TO MATCH ADJACENT WALL FINISH UNLESS CODE REQUIRES OTHERWISE
5. STAFF SUITE ENTRY DOORS ARE PERMITTED TO BE UNDERCUT A MAXIMUM OF ⅜".
6. FOR ALL HOME RUNS (FROM UNITS) 100 FT OR MORE, THE ELECTRICAL CONTRACTOR HAS TO CHECK THE VOLTAGE DROP AND SELECT THE SUITABLE CABLES SIZE TO COMPLY WITH THE MAXIMUM ALLOWED VOLTAGE DROP FOR THE FEEDER CONDUCTORS (3%). THE MAXIMUM COMBINED VOLTAGE DROP ON BOTH INSTALLED FEEDER CONDUCTORS AND BRANCH CIRCUITS CONDUCTORS TO THE FARTHEST CONNECTED LOAD OR OUTLET SHALL NOT EXCEED 5 PERCENT.
7. ALL ARC FAULT CIRCUITS TO INCLUDE A GREEN GROUND WIRE.
8. THE CONTRACTOR SHALL VERIFY EXACT LOCATION & QUANTITIES OF ALL ELECTRICAL EQUIPMENT WITH ARCHITECTURAL & PROTOTYPE PLANS PRIOR TO INSTALLATION.
9. ALL NONLOCKING TYPE 20-AMP RECEPTACLES LOCATED IN STAFFROOMS AND GUEST SUITES SHALL BE LISTED TAMPER-RESISTANT RECEPTACLES. ARTICLE 406.12 N.E.C.
10. MAXIMUM BOX SIZE IN A FIRE-RATED WALL SHALL BE 4" X 4" SQUARE. DO NOT INSTALL BOXES BACK TO BACK IN WALLS. IN NONFIRE-RATED AND NONACOUSTIC-RATED WALLS, PROVIDE NOT LESS THAN 6 INCHES (150-MM) HORIZONTAL SEPARATION BETWEEN BOXES INSTALLED IN OPPOSITE SIDES OF WALL.
11. ALL STAFF BATHROOM LIGHTS MUST BE APPROVED FOR A DAMP LOCATION.
12. PROVIDE ARC FAULT BREAKER FOR BRANCH CIRCUITS TO COMPLY WITH ARTICLE 210.12(C).
13. THE CONTRACTOR HAS TO DOUBLE-CHECK THE NUMBERS AND POSITIONS OF HEARING-IMPAIRED AND ADA /ACCESSIBLE ROOMS ON THE ARCHITECTURAL PLANS. THE CONTRACTOR SHALL INSTALL ALL ELECTRICAL DEVICES ACCORDING TO THE CODES REQUIREMENTS
14. PROVIDE ELECTRICAL MOCK-UP OF ONE ROOM OF EACH GUEST ROOM TYPE FOR OWNER, FRANCHISE, INTERIOR DESIGNER AND CITY INSPECTOR APPROVAL PRIOR TO PROCEEDING WITH ALL ROOMS.
15. PROVIDE GFCI PROTECTION FOR BRANCH CIRCUITS TO CPOMPLY WITH ARTICLE 210.8(A)

KEYED NOTES:

1. J.BOX FOR COOKTOP/OVEN. PROVIDE DEDICATED NEUTRAL & GROUND BACK TO PANEL. VERIFY LOCATION WITH ARCHITECTURAL PLAN PRIOR TO INSTALLATION.
2. PROVIDE JUNCTION BOX FOR LIT-MIRROR. REFER TO ARCHITECTURAL PLANS FOR LOCATION OF THE FIXTURE.
3. PROVIDE DEDICATED DUPLEX RECEPTACLES FOR WASHER. VERIFY LOCATION WITH ARCHITECTURAL PLAN PRIOR TO INSTALLATION.
4. J.BOX FOR MICROWAVE OR RANGE HOODS. VERIFY LOCATION WITH ARCHITECTURAL PLAN PRIOR TO INSTALLATION.
5. GARBAGE DISPOSER/DISHWASHER RECEPTACLES. VERIFY LOCATION WITH ARCHITECTURAL PLAN PRIOR TO INSTALLATION.
6. PROVIDE BRAND-APPROVED NIGHTLIGHT ON THIS WALL, INTEGRAL TO EITHER SWITCH OR GFCI OUTLET; REFER TO DESIGN CONNECT FOR CURRENT LIST OF BRAND-APPROVED DEVICES. PROVIDE OCCUPANCY-SENSING SWITCH WHERE REQUIRED BY CODE.
7. OUTLETS FOR TELEVISION. VERIFY LOCATION AND ELEVATIONS WITH ARCHITECTURAL PLAN PRIOR TO INSTALLATION.
8. THE EXHAUST FAN WILL BE TIED TO THE PTAC UNIT. VERIFY LOCATION WITH MECHANICAL PLAN PRIOR TO INSTALLATION.
9. PROVIDE DEDICATED DUPLEX RECEPTACLES FOR DRYER. VERIFY LOCATION WITH ARCHITECTURAL PLAN PRIOR TO INSTALLATION.

PANEL A (TYPICAL) ☒ NEUTRAL ☒ GROUND
10K AIC. MOUNTING: ☒ FLUSH BUS: 125
LOCATION ENTRY
120/208 VOLTS, 1 PH, 3W, NEMA 1
___ AMP MCB 125 AMP MLO

	LOAD DESCRIPTION	LOAD VA	WIRE #	BRKR SIZE	CKT No.	CKT No.	BRKR SIZE	WIRE #	LOAD VA	LOAD DESCRIPTION	
(2)	LIGHTS	①	12	20/1	1	2	20/1	12	①	REFRIGERATOR	(2)(3)
(2)	BATH RECEPT.S	|	|	↓	3	4	↓	↓	|	DISPOSER/DISHWASHER	(2)(5)
(2)	MICROWAVE/HOOD	|	|	↓	5	6	30/2	10	|	DRYER	(3)
(3)	COOKTOP	|	|	25/2	7	8	↓	↓	|	↓	
	↓	|	|	↓	9	10	20/1	12	|	KITCHEN APPLIANCES	(2)
(4)	PTAC	|	|	15/2	11	12	20/1	|	|	KITCHEN APPLIANCES	(2)
	↓	|	|	↓	13	14	20/1	↓	↓	WASHER	(2)(3)
(2)	RECEPT'S	↓	↓	20/1	15	16	20/1	|	|	SPARE	(2)
(2)	SPARE	|	|	↓	17	18	20/1	|	|	|	(2)

NOTES FOR PANEL:

1. SEE GUESTROOM LOAD ANALYSIS FOR DIFFERENT TYPES OF GUESTROOM, E1.0.
2. INDICATES ARC-FAULT BREAKERS WHERE REQUIRED BY CODES.
3. INDICATES GFCI BREAKERS WHERE REQUIRED BY CODES.
4. INDICATES 'HACR' RATED CIRCUIT BREAKER.
5. INDICATES CLASS A GFCI BREAKERS WHERE REQUIRED BY CODES.
6. PROVIDE A SURGE-PROTECTION DEVICE AT STAFF ROOM PANEL TO COMPLY WITH NEC 230.67

05/14/24

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MAY 14, 2024

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PROJECT MANAGER:
DV

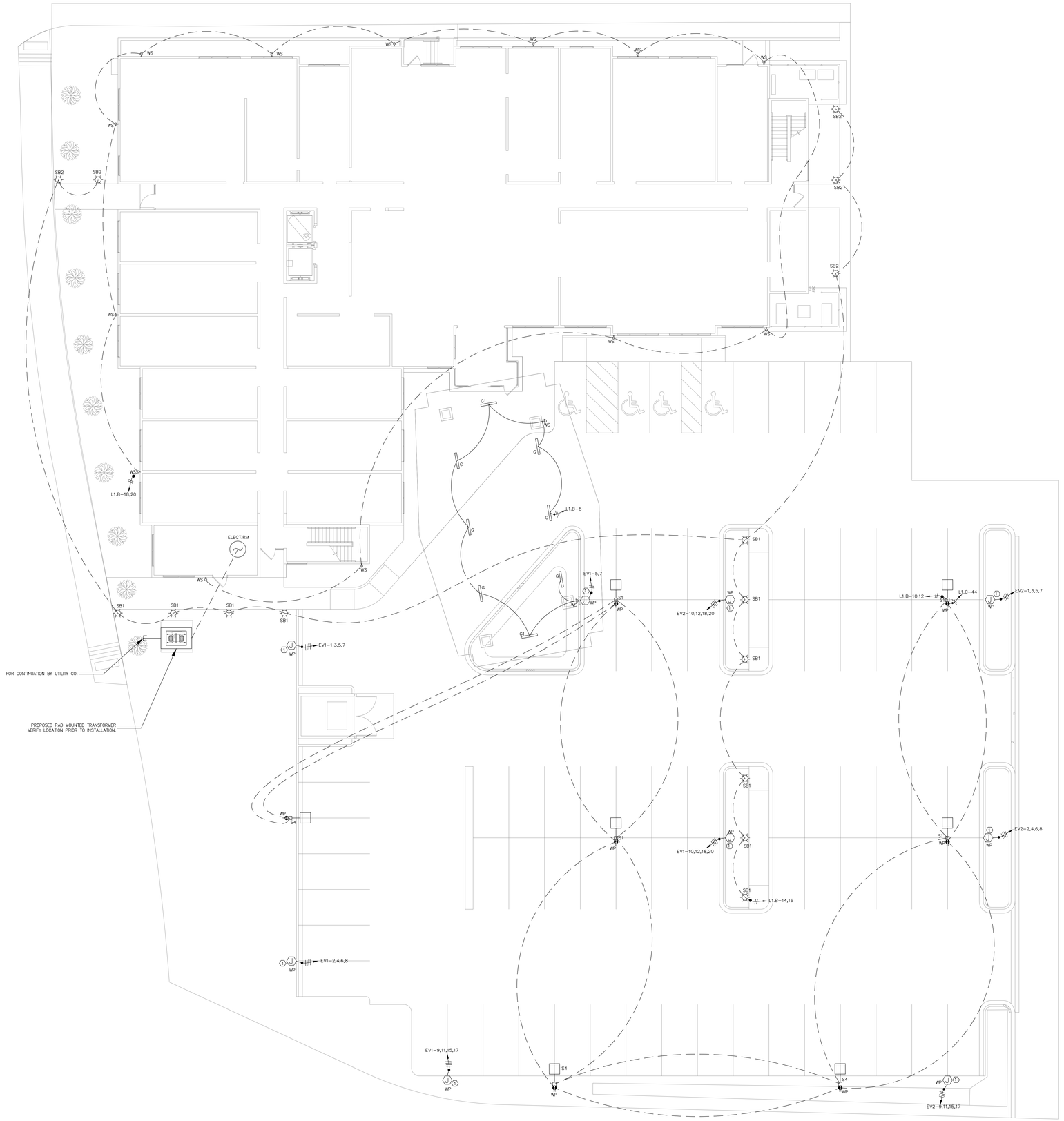
DRAWN BY:
PL

SHEET TITLE:
ELECTRICAL TYPICAL STAFFROOM PLAN

E4.1

SHEET: 129 OF 142

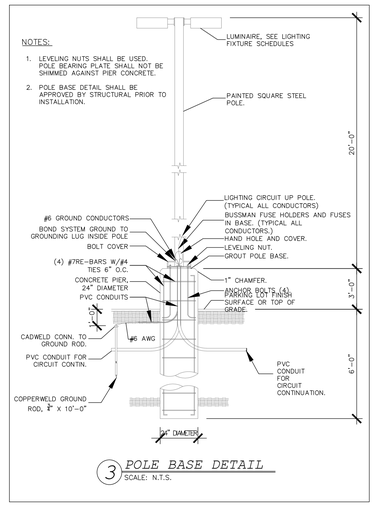
ASI #2 5/28/24



1 ELECTRICAL SITE PLAN
SCALE: 3/32"=1'-0"

NOTES:

1. LEVELING NUTS SHALL BE USED. POLE BEARING PLATE SHALL NOT BE SHIMMED AGAINST PIER CONCRETE.
2. POLE BASE DETAIL SHALL BE APPROVED BY STRUCTURAL PRIOR TO INSTALLATION.



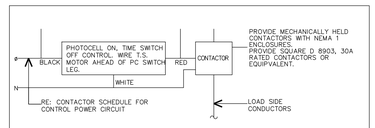
3 POLE BASE DETAIL
SCALE: N.T.S.

GENERAL SITE NOTES:

1. FOR PARKING LOT LIGHTING CONTROL DIAGRAM SEE #2, E5.0
2. PROVIDE METER AND CT'S PER UTILITY CO. SPECIFICATIONS.
3. INSTALL PAD MOUNTED TRANSFORMER PER UTILITY CO. SPECIFICATIONS. COORDINATE ALL OTHER REQUIREMENTS WITH LOCAL UTILITY CO.
4. CONTRACTOR IS RESPONSIBLE FOR COORDINATING ALL UTILITY SERVICES TO THE BUILDING WITH THEIR RESPECTIVE PROVIDERS. FAILURE TO DO SO WILL NOT RESULT IN ANY EXTRA FINANCIAL COMPENSATION FROM THE OWNER. CONTRACTOR SHALL HAVE ALL UTILITY SERVICE REQUIREMENTS IN THE BASE BID.
5. CONTRACTOR SHALL BE RESPONSIBLE FOR BACK FILLING, TRENCHING AND SITE RESTORATION, THE SELECT BACKFILL MATERIAL MUST NOT CONTAIN ANY SHARP OR FOREIGN OBJECTS.
6. THE ELECTRICAL CONTRACTOR SHALL COORDINATE AS NECESSARY ALL UNDERGROUND LOCATIONS WITH OTHER TRADES PRIOR TO DIGGING BEING DONE.
7. THE CONTRACTOR SHALL INCLUDE IN THE BID ALL ELECTRIC UTILITY FEES TO PROVIDE ELECTRICAL SERVICE TO THE PROJECT.

NOTE FOR SITE LIGHTING:

1. SITE LIGHTING WAS DESIGNED & SUBMITTED BY OTHER.



2 CONTACTOR CONTROL DIAGRAM
SCALE: N.T.S

KEY NOTES:

1. J.BOX FOR DUAL ELECTRIC VEHICLE CHARGERS. CONTRACTOR SHALL VERIFY LOCATION WITH THE CIVIL ENGINEERING/ OWNER AND ELECTRICAL REQUIREMENTS WITH MANUFACTURER PRIOR INSTALL 1-1/2" CONDUIT FOR THE FUTURE ELECTRIC VEHICLE CHARGERS. THOSE CONDUITS HAVE TO FINISH INTO AN ENCLOSURE, JUNCTION BOX ETC. VERIFY WITH THE OWNER WHETHER TO FURNISH AND INSTALL COMPLETED THE EV CHARGER STATION.

REVIEWED FOR CODE COMPLIANCE
01/12/2024

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MEP GREEN DESIGN & BUILD
FAST AND ACCURATE

SEPT. 14, 2023

NEW MEXICO REGISTERED LEVEL II 51953 PROFESSIONAL ENGINEER

Holiday Inn Express

3400 S. LINCOLN AVE
STEAMBOAT SPRINGS, CO 80487

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DRAWING ISSUE DATES:
8/18/23 PERMIT SET

REVISION DATES:
9/14/23 PLAN UPDATE

PROJECT MANAGER:
DV

DRAWN BY:
PL

SHEET TITLE:
ELECTRICAL SITE PLAN

E5.0

SHEET: 12 OF 14

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PROJECT NAME: HIEX,STEAMBOAT SPRINGS, CO
PROJECT NUMBER: 230630
PANEL: **L4.A (FED FROM MDP)** — A.I.C RATING: 22 KA
VOLTAGE: 120/208V, 3PH, 4W — BUS: 150 AMP — MAINS: 150 AMP — MOUNTING: SURFACE MOUNTED
NEMA-1 — COPPER — M.L.O — LOCATION: ELECT. 4TH FLOOR

LOAD TYPE	CIRCUIT DESCRIPTION	NOTES	CKT NO	P	BRKR AMP	WIRE	VOLT AMPS	A	B	C	VOLT AMPS	WIRE	BRKR AMP	P	CKT NO	CIRCUIT DESCRIPTION	NOTES	LOAD TYPE
GLTG	RCPTS/LTS	RM 400	1	1	20/1	12	1200	2400			1200	12	20/1	1	2	RCPTS/LTS	RM 408	GLTG
EQUIP	REFRIG/ MICRO/ COFFEE MAKER	-	3	1	25/1	10	1300		2600		1300	10	25/1	1	4	REFRIG/ MICRO/ COFFEE MAKER	-	EQUIP
REC	RCPT-VANITY	-	5	1	20/1	12	180			360	180	12	20/1	1	6	RCPT-VANITY	-	REC
GLTG	RCPTS/LTS	RM 401	7	1	↓	↓	1200	2400			1200	↓	↓	1	8	RCPTS/LTS	RM 409	GLTG
EQUIP	REFRIG/ MICRO/ COFFEE MAKER	-	9	1	25/1	10	1300		2600		1300	10	25/1	1	10	REFRIG/ MICRO/ COFFEE MAKER	-	EQUIP
REC	RCPT-VANITY	-	11	1	20/1	12	180			360	180	12	20/1	1	12	RCPT-VANITY	-	REC
GLTG	RCPTS/LTS	RM 402	13	1	↓	↓	1200	2400			1200	↓	↓	1	14	RCPTS/LTS	RM 410	GLTG
EQUIP	REFRIG/ MICRO/ COFFEE MAKER	-	15	1	25/1	10	1300		2600		1300	10	25/1	1	16	REFRIG/ MICRO/ COFFEE MAKER	-	EQUIP
REC	RCPT-VANITY	-	17	1	20/1	12	180			360	180	12	20/1	1	18	RCPT-VANITY	-	REC
GLTG	RCPTS/LTS	RM 403	19	1	↓	↓	1200	2400			1200	↓	↓	1	20	RCPTS/LTS	RM 411	GLTG
EQUIP	REFRIG/ MICRO/ COFFEE MAKER	-	21	1	25/1	10	1300		2600		1300	10	25/1	1	22	REFRIG/ MICRO/ COFFEE MAKER	-	EQUIP
REC	RCPT-VANITY	-	23	1	20/1	12	180			360	180	12	20/1	1	24	RCPT-VANITY	-	REC
	SPARE		25	1	20/1			1200			1200	↓	↓	1	26	RCPTS/LTS	RM 412	GLTG
GLTG	RCPTS/LTS	RM 404	27	1	20/1	12	1200		2500		1300	10	25/1	1	28	REFRIG/ MICRO/ COFFEE MAKER	-	EQUIP
EQUIP	REFRIG/ MICRO/ COFFEE MAKER	-	29	1	25/1	10	1300			1480	180	12	20/1	1	30	RCPT-VANITY	-	REC
REC	RCPT-VANITY	-	31	1	20/1	12	180	1430			1250	12	20/2	2	32	RCPTS - PTAC UNIT TEST		EQUIP
GLTG	RCPTS/LTS	RM 405	33	1	↓	↓	1200		2450		1250	↓	↓	-	34	↓		EQUIP
EQUIP	REFRIG/ MICRO/ COFFEE MAKER	-	35	1	25/1	10	1300			2500	1200	12	20/1	1	36	RCPTS/LTS	RM 413	GLTG
REC	RCPT-VANITY	-	37	1	20/1	12	180	1480			1300	10	25/1	1	38	REFRIG/ MICRO/ COFFEE MAKER	-	EQUIP
GLTG	RCPTS/LTS	RM 406	39	1	20/1	12	1200		1380		180	12	20/1	1	40	RCPT-VANITY	-	REC
EQUIP	REFRIG/ MICRO/ COFFEE MAKER	-	41	1	25/1	10	1300			2500	1200	↓	↓	1	42	RCPTS/LTS	RM 414	GLTG
REC	RCPT-VANITY	-	43	1	20/1	12	180	1480			1300	10	25/1	1	44	REFRIG/ MICRO/ COFFEE MAKER	-	EQUIP
GLTG	RCPTS/LTS	RM 407	45	1	↓	↓	1200		1380		180	12	20/1	1	46	RCPT-VANITY	-	REC
EQUIP	REFRIG/ MICRO/ COFFEE MAKER	-	47	1	25/1	10	1300			2380	1080	12	20/1	1	48	RCPTS - CORRIDOR		REC
REC	RCPT-VANITY	-	49	1	20/1	12	180	1260			1080	12	20/1	1	50	RCPTS - CORRIDOR		REC
REC	RCPTS - ROOF		51	1	20/1	10	900		2160		1260	12	20/1	1	52	RCPTS - HSKPG		REC
REC	RCPTS - ROOF		53	1	20/1	10	900			2400	1500	12	20/1	1	54	ICE MACHINE	(CLASS A GFCI BREAKER)	EQUIP
REC	RCPTS - ROOF		55	1	20/1	10	900	2400			1500	12	20/1	1	56	VENDING MACHINE	(CLASS A GFCI BREAKER)	EQUIP
REC	RCPTS - CAMERA SECURITY		57	1	20/1	10	900		1150		250	12	20/1	1	58	FIRE SMOKE DAMPER		EQUIP
EQUIP	EF-3		59	1	20/1	12	188			409	221	12	20/1	1	60	CIRCULATE PUMP CONTROLLER (C.P-5)		EQUIP
EQUIP	EF-11		61	1	20/1	12	188	409			221	12	20/1	1	62	CIRCULATE PUMP CONTROLLER (C.P-6)		EQUIP
	SPARE		63	1	20/1				900		900	12	20/1	1	64	RCPTS - ELECTRICAL		REC
	↓		65	1	↓					0			20/1	1	66	SPARE		

	CONNECTED LOAD	LOAD CODES	DEMAND LOAD
LTG	0	LTG =125% LIGHTING LOAD: (N/A)	0
REC	10620	REC = RCPTS LOAD (100% FIRST 10kW +50% REMAIN)	10310
EQUIP	26067	EQUIP = EQUIPMENT LOAD	26067
AC	0	AC = HVAC LOAD : (N/A)	0
HTG	0	HTG = HEATING LOAD : (N/A)	0
LGR	0	LGR = 125% LARGEST MOTOR : (N/A)	0
KIT	0	KIT = KITCHEN LOAD : (N/A)	0
SUB	0	SUB = SUB PANEL x PF : (N/A)	0
GLTG	18000	GLTG = GUESTROOM LIGHTING LOAD (60% FIRST 20kW +50% REMAIN)	10800
EVCS	0	EVCS = 125% ELECTRIC VEHICLE CHARGING STATION :(N/A)	0
VA	**54687**		**47177**
AMPS	**152**		**131**

A	B	C	
19.26	22.32	13.11	**CONNECTED PHASE (KVA)**
160.49	186.00	109.24	**CONNECTED PHASE (AMPS)**
15.26	19.91	12.02	**DEMAND PHASE (KVA)**
127.13	165.89	100.13	**DEMAND PHASE (AMPS)**

NOTE: 1 - PROVIDE ARC-FAULT CIRCUIT BREAKERS FOR ALL BRANCH CIRCUITS IN GUEST ROOMS (ARTICLE 210.12(C))

PROJECT NAME: HIEX,STEAMBOAT SPRINGS, CO
PROJECT NUMBER: 230630
PANEL: **L3.A (FED FROM MDP)** — A.I.C RATING: 22 KA
VOLTAGE: 120/208V, 3PH, 4W — BUS: 150 AMP — MAINS: 150 AMP — MOUNTING: SURFACE MOUNTED
NEMA-1 — COPPER — M.L.O — LOCATION: ELECT. 3RD FLOOR

LOAD TYPE	CIRCUIT DESCRIPTION	NOTES	CKT NO	P	BRKR AMP	WIRE	VOLT AMPS	A	B	C	VOLT AMPS	WIRE	BRKR AMP	P	CKT NO	CIRCUIT DESCRIPTION	NOTES	LOAD TYPE
GLTG	RCPTS/LTS	RM 300	1	1	20/1	12	1200	2400			1200	12	20/1	1	2	RCPTS/LTS	RM 308	GLTG
EQUIP	REFRIG/ MICRO/ COFFEE MAKER	-	3	1	25/1	10	1300		2600		1300	10	25/1	1	4	REFRIG/ MICRO/ COFFEE MAKER	-	EQUIP
REC	RCPT-VANITY	-	5	1	20/1	12	180			360	180	12	20/1	1	6	RCPT-VANITY	-	REC
GLTG	RCPTS/LTS	RM 301	7	1	↓	↓	1200	2400			1200	↓	↓	1	8	RCPTS/LTS	RM 309	GLTG
EQUIP	REFRIG/ MICRO/ COFFEE MAKER	-	9	1	25/1	10	1300		2600		1300	10	25/1	1	10	REFRIG/ MICRO/ COFFEE MAKER	-	EQUIP
REC	RCPT-VANITY	-	11	1	20/1	12	180			360	180	12	20/1	1	12	RCPT-VANITY	-	REC
GLTG	RCPTS/LTS	RM 302	13	1	↓	↓	1200	2400			1200	↓	↓	1	14	RCPTS/LTS	RM 310	GLTG
EQUIP	REFRIG/ MICRO/ COFFEE MAKER	-	15	1	25/1	10	1300		2600		1300	10	25/1	1	16	REFRIG/ MICRO/ COFFEE MAKER	-	EQUIP
REC	RCPT-VANITY	-	17	1	20/1	12	180			360	180	12	20/1	1	18	RCPT-VANITY	-	REC
GLTG	RCPTS/LTS	RM 303	19	1	↓	↓	1200	2400			1200	↓	↓	1	20	RCPTS/LTS	RM 311	GLTG
EQUIP	REFRIG/ MICRO/ COFFEE MAKER	-	21	1	25/1	10	1300		2600		1300	10	25/1	1	22	REFRIG/ MICRO/ COFFEE MAKER	-	EQUIP
REC	RCPT-VANITY	-	23	1	20/1	12	180			360	180	12	20/1	1	24	RCPT-VANITY	-	REC
	SPARE		25	1	20/1			1200			1200	↓	↓	1	26	RCPTS/LTS	RM 312	GLTG
GLTG	RCPTS/LTS	RM 304	27	1	20/1	12	1200		2500		1300	10	25/1	1	28	REFRIG/ MICRO/ COFFEE MAKER	-	EQUIP
EQUIP	REFRIG/ MICRO/ COFFEE MAKER	-	29	1	25/1	10	1300			0	180	12	20/1	1	30	RCPT-VANITY	-	REC
REC	RCPT-VANITY	-	31	1	20/1	12	180	1232			1052	12	15/2	2	32	RCPTS - PTAC UNIT TEST		EQUIP
GLTG	RCPTS/LTS	RM 305	33	1	↓	↓	1200		2252		1052	↓	↓	-	34	↓		EQUIP
EQUIP	REFRIG/ MICRO/ COFFEE MAKER	-	35	1	25/1	10	1300			2500	1200	12	20/1	1	36	RCPTS/LTS	RM 313	GLTG
REC	RCPT-VANITY	-	37	1	20/1	12	180	1480			1300	10	25/1	1	38	REFRIG/ MICRO/ COFFEE MAKER	-	EQUIP
GLTG	RCPTS/LTS	RM 306	39	1	20/1	12	1200		1380		180	12	20/1	1	40	RCPT-VANITY	-	REC
EQUIP	REFRIG/ MICRO/ COFFEE MAKER	-	41	1	25/1	10	1300			2500	1200	↓	↓	1	42	RCPTS/LTS	RM 314	GLTG
REC	RCPT-VANITY	-	43	1	20/1	12	180	1480			1300	10	25/1	1	44	REFRIG/ MICRO/ COFFEE MAKER	-	EQUIP
GLTG	RCPTS/LTS	RM 307	45	1	↓	↓	1200		1380		180	12	20/1	1	46	RCPT-VANITY	-	REC
EQUIP	REFRIG/ MICRO/ COFFEE MAKER	-	47	1	25/1	10	1300			2020	720	12	20/1	1	48	RCPTS - ELECTRICAL		REC
REC	RCPT-VANITY	-	49	1	20/1	12	180	1440			1260	12	20/1	1	50	RCPTS - HSKPG		REC
	SPACE ONLY		51						1080		1080	12	20/1	1	52	RCPTS - CORRIDOR		REC
			53							1080	1080	12	20/1	1	54	RCPTS - CORRIDOR		REC
			55					1500			1500	12	20/1	1	56	ICE MACHINE		EQUIP
			57						1500		1500	12	20/1	1	58	VENDING MACHINE	(CLASS A GFCI BREAKER)	EQUIP
			59							500	500	12	20/1	1	60	FIRE SMOKE DAMPER	(CLASS A GFCI BREAKER)	EQUIP
			61					0					20/1	1	62	SPARE		
			63						0					1	64			
	↓		65							0			↓	1	66	↓		

	CONNECTED LOAD	LOAD CODES	DEMAND LOAD
LTG	0	LTG =125% LIGHTING LOAD: (N/A)	0
REC	6840	REC = RCPTS LOAD (100% FIRST 10kW +50% REMAIN)	6840
EQUIP	25104	EQUIP = EQUIPMENT LOAD	25104
AC	0	AC = HVAC LOAD : (N/A)	0
HTG	0	HTG = HEATING LOAD : (N/A)	0
LGR	0	LGR = 125% LARGEST MOTOR : (N/A)	0
KIT	0	KIT = KITCHEN LOAD : (N/A)	0
SUB	0	SUB = SUB PANEL x PF : (N/A)	0
GLTG	18000	GLTG = GUESTROOM LIGHTING LOAD (60% FIRST 20kW +50% REMAIN)	10800
EVCS	0	EVCS = 125% ELECTRIC VEHICLE CHARGING STATION :(N/A)	0
VA	**49944**		**42744**
AMPS	**139**		**119**

A	B	C	
17.93	20.49	10.04	**CONNECTED PHASE (KVA)**
149.44	170.77	83.67	**CONNECTED PHASE (AMPS)**
13.61	18.57	10.56	**DEMAND PHASE (KVA)**
113.44	154.77	88.00	**DEMAND PHASE (AMPS)**

NOTE: 1 - PROVIDE ARC-FAULT CIRCUIT BREAKERS FOR ALL BRANCH CIRCUITS IN GUEST ROOMS (ARTICLE 210.12(C))

PANEL INDEX	
L4.A	L3.A
L4.B	L3.B
L4.C	L3.C

05/14/24

PROJECT NAME: HIEX,STEAMBOAT SPRINGS, CO
PROJECT NUMBER: 230630
PANEL: **L4.B (FED FROM MDP)** — A.I.C RATING: 22 KA
VOLTAGE: 120/208V, 3PH, 4W — BUS: 150 AMP — MAINS: 150 AMP — MOUNTING: SURFACE MOUNTED
NEMA-1 — COPPER — M.L.O — LOCATION: ELECT. 4TH FLOOR

LOAD TYPE	CIRCUIT DESCRIPTION	NOTES	CKT NO	P	BRKR AMP	WIRE	VOLT AMPS	A	B	C	VOLT AMPS	WIRE	BRKR AMP	P	CKT NO	CIRCUIT DESCRIPTION	NOTES	LOAD TYPE
GLTG	RCPTS/LTS	RM 416	1	1	20/1	12	1200	2400			1200	12	20/1	1	2	RCPTS/LTS	RM 425	GLTG
EQUIP	REFRIG/ MICRO/ COFFEE MAKER	-	3	1	25/1	10	1300		2600		1300	10	25/1	1	4	REFRIG/ MICRO/ COFFEE MAKER	-	EQUIP
REC	RCPT-VANITY	-	5	1	20/1	12	180			360	180	12	20/1	1	6	RCPT-VANITY	-	REC
GLTG	RCPTS/LTS	RM 418	7	1	↓	↓	1200	2400			1200	↓	↓	1	8	RCPTS/LTS	RM 426	GLTG
EQUIP	REFRIG/ MICRO/ COFFEE MAKER	-	9	1	25/1	10	1300		2600		1300	10	25/1	1	10	REFRIG/ MICRO/ COFFEE MAKER	-	EQUIP
REC	RCPT-VANITY	-	11	1	20/1	12	180			360	180	12	20/1	1	12	RCPT-VANITY	-	REC
GLTG	RCPTS/LTS	RM 419	13	1	↓	↓	1200	2400			1200	↓	↓	1	14	RCPTS/LTS	RM 427	GLTG
EQUIP	REFRIG/ MICRO/ COFFEE MAKER	-	15	1	25/1	10	1300		2600		1300	10	25/1	1	16	REFRIG/ MICRO/ COFFEE MAKER	-	EQUIP
REC	RCPT-VANITY	-	17	1	20/1	12	180			360	180	12	20/1	1	18	RCPT-VANITY	-	REC
GLTG	RCPTS/LTS	RM 420	19	1	↓	↓	1200	2400			1200	↓	↓	1	20	RCPTS/LTS	RM 428	GLTG
EQUIP	REFRIG/ MICRO/ COFFEE MAKER	-	21	1	25/1	10	1300		2600		1300	10	25/1	1	22	REFRIG/ MICRO/ COFFEE MAKER	-	EQUIP
REC	RCPT-VANITY	-	23	1	20/1	12	180			360	180	12	20/1	1	24	RCPT-VANITY	-	REC
	SPARE		25	1	20/1			1200			1200	↓	↓	1	26	RCPTS/LTS	RM 429	GLTG
GLTG	RCPTS/LTS	RM 421	27	1	20/1	12	1200		2500		1300	10	25/1	1	28	REFRIG/ MICRO/ COFFEE MAKER	-	EQUIP
EQUIP	REFRIG/ MICRO/ COFFEE MAKER	-	29	1	25/1	10	1300			1480	180	12	20/1	1	30	RCPT-VANITY	-	REC
REC	RCPT-VANITY	-	31	1	20/1	12	180	180					20/1	1	32	SPARE		
GLTG	RCPTS/LTS	RM 422	33	1	↓	↓	1200		2200		1000	12	20/1	1	34	J-BOX FOR SNOWMELT		EQUIP
EQUIP	REFRIG/ MICRO/ COFFEE MAKER	-	35	1	25/1	10	1300			2500	1200	12	20/1	1	36	RCPTS/LTS	RM 430	GLTG
REC	RCPT-VANITY	-	37	1	20/1	12	180	1480			1300	10	25/1	1	38	REFRIG/ MICRO/ COFFEE MAKER	-	EQUIP
GLTG	RCPTS/LTS	RM 423	39	1	20/1	12	1200		1380		180	12	20/1	1	40	RCPT-VANITY	-	REC
EQUIP	REFRIG/ MICRO/ COFFEE MAKER	-	41	1	25/1	10	1300			2500	1200	↓	↓	1	42	RCPTS/LTS	RM 431	GLTG
REC	RCPT-VANITY	-	43	1	20/1	12	180	1480			1300	10	25/1	1	44	REFRIG/ MICRO/ COFFEE MAKER	-	EQUIP
GLTG	RCPTS/LTS	RM 424	45	1	↓	↓	1200		1380		180	12	20/1	1	46	RCPT-VANITY	-	REC
EQUIP	REFRIG/ MICRO/ COFFEE MAKER	-	47	1	25/1	10	1300			2300	1000	12	20/1	1	48	J-BOX FOR SNOWMELT		EQUIP
REC	RCPT-VANITY	-	49	1	20/1	12	180	1180			1000	12	20/1	1	50	J-BOX FOR SNOWMELT		EQUIP
EQUIP	EUH-1		51	2	20/2	12	700		1700		1000	12	20/1	1	52	J-BOX FOR SNOWMELT		EQUIP
EQUIP	↓		53	-	↓	↓	700			1700	1000	12	20/1	1	54	J-BOX FOR SNOWMELT		EQUIP
EQUIP	EUH-1		55	2	20/2	12	700	1700			1000	12	20/1	1	56	J-BOX FOR SNOWMELT		EQUIP
EQUIP	↓		57	-	↓	↓	700		1700		1000	12	20/1	1	58	J-BOX FOR SNOWMELT		EQUIP
	SPARE		59	1	20/1					1000	1000	12	20/1	1	60	J-BOX FOR SNOWMELT		EQUIP
			61	1				1000			1000	12	20/1	1	62	J-BOX FOR SNOWMELT		EQUIP
			63	1					1000		1000	12	20/1	1	64	J-BOX FOR SNOWMELT		EQUIP
	↓		65	1	↓					1000	1000	12	20/1	1	66	J-BOX FOR SNOWMELT		EQUIP

	CONNECTED LOAD	LOAD CODES	DEMAND LOAD
LTG	0	LTG =125% LIGHTING LOAD: (N/A)	0
REC	2700	REC = RCPTS LOAD (100% FIRST 10kW +50% REMAIN)	2700
EQUIP	33300	EQUIP = EQUIPMENT LOAD	29970
AC	0	AC = HVAC LOAD : (N/A)	0
HTG	0	HTG = HEATING LOAD : (N/A)	0
LGR	0	LGR = 125% LARGEST MOTOR : (N/A)	0
KIT	0	KIT = KITCHEN LOAD : (N/A)	0
SUB	0	SUB = SUB PANEL x PF : (N/A)	0
GLTG	18000	GLTG = GUESTROOM LIGHTING LOAD (60% FIRST 20kW +50% REMAIN)	10800
EVCS	0	EVCS = 125% ELECTRIC VEHICLE CHARGING STATION :(N/A)	0
VA	**54000**		**43470**
AMPS	**150**		**121**

A	B	C	
17.82	22.26	13.92	**CONNECTED PHASE (KVA)**
148.50	185.50	116.00	**CONNECTED PHASE (AMPS)**
13.50	20.34	12.96	**DEMAND PHASE (KVA)**
112.50	169.50	108.00	**DEMAND PHASE (AMPS)**

NOTE: 1 - PROVIDE ARC-FAULT CIRCUIT BREAKERS FOR ALL BRANCH CIRCUITS IN GUEST ROOMS (ARTICLE 210.12(C))

05/14/24

PROJECT NAME: HIEX,STEAMBOAT SPRINGS, CO
PROJECT NUMBER: 230630
PANEL: **L3.B (FED FROM MDP)** — A.I.C RATING: 22 KA
VOLTAGE: 120/208V, 3PH, 4W — BUS: 125 AMP — MAINS: 125 AMP — MOUNTING: SURFACE MOUNTED
NEMA-1 — COPPER — M.L.O — LOCATION: ELECT. 3RD FLOOR

LOAD TYPE	CIRCUIT DESCRIPTION	NOTES	CKT NO	P	BRKR AMP	WIRE	VOLT AMPS	A	B	C	VOLT AMPS	WIRE	BRKR AMP	P	CKT NO	CIRCUIT DESCRIPTION	NOTES	LOAD TYPE
GLTG	RCPTS/LTS	RM 316	1	1	20/1	12	1200	2400			1200	12	20/1	1	2	RCPTS/LTS	RM 325	GLTG
EQUIP	REFRIG/ MICRO/ COFFEE MAKER	-	3	1	25/1	10	1300		2600		1300	10	25/1	1	4	REFRIG/ MICRO/ COFFEE MAKER	-	EQUIP
REC	RCPT-VANITY	-	5	1	20/1	12	180			360	180	12	20/1	1	6	RCPT-VANITY	-	REC
GLTG	RCPTS/LTS	RM 318	7	1	↓	↓	1200	2400			1200	↓	↓	1	8	RCPTS/LTS	RM 326	GLTG
EQUIP	REFRIG/ MICRO/ COFFEE MAKER	-	9	1	25/1	10	1300		2600		1300	10	25/1	1	10	REFRIG/ MICRO/ COFFEE MAKER	-	EQUIP
REC	RCPT-VANITY	-	11	1	20/1	12	180			360	180	12	20/1	1	12	RCPT-VANITY	-	REC
GLTG	RCPTS/LTS	RM 319	13	1	↓	↓	1200	2400			1200	↓	↓	1	14	RCPTS/LTS	RM 327	GLTG
EQUIP	REFRIG/ MICRO/ COFFEE MAKER	-	15	1	25/1	10	1300		2600		1300	10	25/1	1	16	REFRIG/ MICRO/ COFFEE MAKER	-	EQUIP
REC	RCPT-VANITY	-	17	1	20/1	12	180			360	180	12	20/1	1	18	RCPT-VANITY	-	REC
GLTG	RCPTS/LTS	RM 320	19	1	↓	↓	1200	2400			1200	↓	↓	1	20	RCPTS/LTS	RM 328	GLTG
EQUIP	REFRIG/ MICRO/ COFFEE MAKER	-	21	1	25/1	10	1300		2600		1300	10	25/1	1	22	REFRIG/ MICRO/ COFFEE MAKER	-	EQUIP
REC	RCPT-VANITY	-	23	1	20/1	12	180			360	180	12	20/1	1	24	RCPT-VANITY	-	REC
	SPARE		25	1	20/1			1200			1200	↓	↓	1	26	RCPTS/LTS	RM 329	GLTG
GLTG	RCPTS/LTS	RM 321	27	1	20/1	12	1200		2500		1300	10	25/1	1	28	REFRIG/ MICRO/ COFFEE MAKER	-	EQUIP
EQUIP	REFRIG/ MICRO/ COFFEE MAKER	-	29	1	25/1	10	1300			1480	180	12	20/1	1	30	RCPT-VANITY	-	REC
REC	RCPT-VANITY	-	31	1	20/1	12	180	180					20/1	1	32	SPARE		
GLTG	RCPTS/LTS	RM 322	33	1	↓	↓	1200		1200				↓	1	34	↓		
EQUIP	REFRIG/ MICRO/ COFFEE MAKER	-	35	1	25/1	10	1300			2500	1200	12	20/1	1	36	RCPTS/LTS	RM 330	GLTG
REC	RCPT-VANITY	-	37	1	20/1	12	180	1480			1300	10	25/1	1	38	REFRIG/ MICRO/ COFFEE MAKER	-	EQUIP
GLTG	RCPTS/LTS	RM 323	39	1	20/1	12	1200		1380		180	12	20/1	1	40	RCPT-VANITY	-	REC
EQUIP	REFRIG/ MICRO/ COFFEE MAKER	-	41	1	25/1	10	1300			2500	1200	↓	↓	1	42	RCPTS/LTS	RM 331	GLTG
REC	RCPT-VANITY	-	43	1	20/1	12	180	1480			1300	10	25/1	1	44	REFRIG/ MICRO/ COFFEE MAKER	-	EQUIP
GLTG	RCPTS/LTS	RM 324	45	1	↓	↓	1200		1380		180	12	20/1	1	46	RCPT-VANITY	-	REC
EQUIP	REFRIG/ MICRO/ COFFEE MAKER	-	47	1	25/1	10	1300			1300			20/1	1	48	SPARE		
REC	RCPT-VANITY	-	49	1	20/1	12	180	180						1	50			
EQUIP	EUH-1		51	2	20/2	12	700		700					1	52			
EQUIP	↓		53	-	↓	↓	700			700				1	54			
EQUIP	EUH-1		55	2	20/2	12	700	700						1	56			
EQUIP	↓		57	-	↓	↓	700		700				↓	1	58	↓		
	SPARE		59	1	20/1					0					60	SPACE ONLY		
			61	1				0							62			
			63	1					0						64			
	↓		65	1	↓					0					66	↓		

	CONNECTED LOAD	LOAD CODES	DEMAND LOAD
LTG	0	LTG =125% LIGHTING LOAD: (N/A)	0
REC	2700	REC = RCPTS LOAD (100% FIRST 10kW +50% REMAIN)	2700
EQUIP	22300	EQUIP = EQUIPMENT LOAD	22300
AC	0	AC = HVAC LOAD : (N/A)	0
HTG	0	HTG = HEATING LOAD : (N/A)	0
LGR	0	LGR = 125% LARGEST MOTOR : (N/A)	0
KIT	0	KIT = KITCHEN LOAD : (N/A)	0
SUB	0	SUB = SUB PANEL x PF : (N/A)	0
GLTG	18000	GLTG = GUESTROOM LIGHTING LOAD (60% FIRST 20kW +50% REMAIN)	10800
EVCS	0	EVCS = 125% ELECTRIC VEHICLE CHARGING STATION :(N/A)	0
VA	**43000**		**35800**
AMPS	**119**		**99**

A	B	C	
14.82	18.26	9.92	**CONNECTED PHASE (KVA)**
123.50	152.17	82.67	**CONNECTED PHASE (AMPS)**
10.50	16.34	8.96	**DEMAND PHASE (KVA)**
87.50	136.17	74.67	**DEMAND PHASE (AMPS)**

NOTE: 1 - PROVIDE ARC-FAULT CIRCUIT BREAKERS FOR ALL BRANCH CIRCUITS IN GUEST ROOMS (ARTICLE 210.12(C))

PROJECT NAME: HIEX,STEAMBOAT SPRINGS, CO
PROJECT NUMBER: 230630
PANEL: **L4.C (FED FROM MDP)** — A.I.C RATING: 22 KA
VOLTAGE: 120/208V, 3PH, 4W — BUS: 300 AMP — MAINS: 300 AMP — MOUNTING: SURFACE MOUNTED
NEMA-1 — COPPER — M.L.O — LOCATION: ELECT. 4TH FLOOR

LOAD TYPE	CIRCUIT DESCRIPTION	NOTES	CKT NO	P	BRKR AMP	WIRE	VOLT AMPS	A	B	C	VOLT AMPS	WIRE	BRKR AMP	P	CKT NO	CIRCUIT DESCRIPTION	NOTES	LOAD TYPE
AC	A/C-RM 400		1	2	15/2	12	1250	2500			1250	12	15/2	2	2	A/C-RM 416		AC
AC	-		3	-	↓	↓	1250		2500		1250	↓	↓	-	4	-		AC
AC	A/C-RM 401		5	2	15/2	12	1250			2500	1250	12	15/2	2	6	A/C-RM 418		AC
AC	-		7	-	↓	↓	1250	2500			1250	↓	↓	-	8	-		AC
AC	A/C-RM 402		9	2	15/2	12	1250		2500		1250	12	15/2	2	10	A/C-RM 419		AC
AC	-		11	-	↓	↓	1250			2500	1250	↓	↓	-	12	-		AC
AC	A/C-RM 403		13	2	15/2	12	1250	2500			1250	12	15/2	2	14	A/C-RM 420		AC
AC	-		15	-	↓	↓	1250		2500		1250	↓	↓	-	16	-		AC
AC	A/C-RM 404		17	2	15/2	12	1250			2500	1250	12	15/2	2	18	A/C-RM 421		AC
AC	-		19	-	↓	↓	1250	2500			1250	↓	↓	-	20	-		AC
AC	A/C-RM 405		21	2	15/2	12	1250		2500		1250	12	15/2	2	22	A/C-RM 422		AC
AC	-		23	-	↓	↓	1250			2500	1250	↓	↓	-	24	-		AC
AC	A/C-RM 406		25	2	15/2	12	1250	2500			1250	12	15/2	2	26	A/C-RM 423		AC
AC	-		27	-	↓	↓	1250		2500		1250	↓	↓	-	28	-		AC
AC	A/C-RM 407		29	2	15/2	12	1250			2500	1250	12	15/2	2	30	A/C-RM 424		AC
AC	-		31	-	↓	↓	1250	2500			1250	↓	↓	-	32	-		AC
AC	A/C-RM 408		33	2	15/2	12	1250		2500		1250	12	15/2	2	34	A/C-RM 425		AC
AC	-		35	-	↓	↓	1250			2500	1250	↓	↓	-	36	-		AC
AC	A/C-RM 409		37	2	15/2	12	1250	2500			1250	12	15/2	2	38	A/C-RM 426		AC
AC	-		39	-	↓	↓	1250		2500		1250	↓	↓	-	40	-		AC
AC	A/C-RM 410		41	2	15/2	12	1250			2500	1250	12	15/2	2	42	A/C-RM 427		AC
AC	-		43	-	↓	↓	1250	2500			1250	↓	↓	-	44	-		AC
AC	A/C-RM 411		45	2	15/2	12	1250		2500		1250	12	15/2	2	46	A/C-RM 428		AC
AC	-		47	-	↓	↓	1250			2500	1250	↓	↓	-	48	-		AC
AC	A/C-RM 412		49	2	15/2	12	1250	2500			1250	12	15/2	2	50	A/C-RM 429		AC
AC	-		51	-	↓	↓	1250		2500		1250	↓	↓	-	52	-		AC
AC	A/C-RM 413		53	2	15/2	12	1250			2500	1250	12	15/2	2	54	A/C-RM 430		AC
AC	-		55	-	↓	↓	1250	2500			1250	↓	↓	-	56	-		AC
AC	A/C-RM 414		57	2	15/2	12	1250		2500		1250	12	15/2	2	58	A/C-RM 431		AC
AC	-		59	-	↓	↓	1250			2500	1250	↓	↓	-	60	-		
AC	AHU-4.1		61	2	60/2	6	5763	5763					15/2	1	62	SPARE		
AC	↓		63	-	↓	↓	5763		5763					1	64			
HTG	HEATER		65	1	20/1	12	600			600			↓	1	66	↓		

	CONNECTED LOAD	LOAD CODES	DEMAND LOAD
LTG	0	LTG =125% LIGHTING LOAD: (N/A)	0
REC	0	REC = RCPTS LOAD : (N/A)	0
EQUIP	0	EQUIP = EQUIPMENT LOAD : (N/A)	0
AC	85276	AC = HVAC LOAD	85276
HTG	600	HTG = HEATING LOAD	600
LGR	0	LGR = 125% LARGEST MOTOR : (N/A)	0
KIT	0	KIT = KITCHEN LOAD : (N/A)	0
SUB	0	SUB = SUB PANEL x PF : (N/A)	0
GLTG	0	GLTG = GUESTROOM LIGHTING LOAD: N/A	0
EVCS	0	EVCS = 125% ELECTRIC VEHICLE CHARGING STATION :(N/A)	0
VA	**85876**		**85876**
AMPS	**239**		**239**

A	B	C	
30.76	30.76	25.60	**CONNECTED PHASE (KVA)**
256.36	256.36	213.33	**CONNECTED PHASE (AMPS)**
30.76	30.76	24.35	**DEMAND PHASE (KVA)**
256.36	256.36	202.92	**DEMAND PHASE (AMPS)**

NOTE : 1 - FIELD VERIFICATION BREAKER SIZES, CABLE SIZES, ETC WITH MECHANICAL EQUIPMENT SUPPLIER PRIOR TO INSTALLATION

PROJECT NAME: HIEX,STEAMBOAT SPRINGS, CO
PROJECT NUMBER: 230630
PANEL: **L3.C (FED FROM MDP)** — A.I.C RATING: 22 KA
VOLTAGE: 120/208V, 3PH, 4W — BUS: 300 AMP — MAINS: 300 AMP — MOUNTING: SURFACE MOUNTED
NEMA-1 — COPPER — M.L.O — LOCATION: ELECT. 3RD FLOOR

LOAD TYPE	CIRCUIT DESCRIPTION	NOTES	CKT NO	P	BRKR AMP	WIRE	VOLT AMPS	A	B	C	VOLT AMPS	WIRE	BRKR AMP	P	CKT NO	CIRCUIT DESCRIPTION	NOTES	LOAD TYPE
AC	A/C-RM 300		1	2	15/2	12	1250	2500			1250	12	15/2	2	2	A/C-RM 316		AC
AC	-		3	-	↓	↓	1250		2500		1250	↓	↓	-	4	-		AC
AC	A/C-RM 301		5	2	15/2	12	1250			2500	1250	12	15/2	2	6	A/C-RM 318		AC
AC	-		7	-	↓	↓	1250	2500			1250	↓	↓	-	8	-		AC
AC	A/C-RM 302		9	2	15/2	12	1250		2500		1250	12	15/2	2	10	A/C-RM 319		AC
AC	-		11	-	↓	↓	1250			2500	1250	↓	↓	-	12	-		AC
AC	A/C-RM 303		13	2	15/2	12	1250	2500			1250	12	15/2	2	14	A/C-RM 320		AC
AC	-		15	-	↓	↓	1250		2500		1250	↓	↓	-	16	-		AC
AC	A/C-RM 304		17	2	15/2	12	1250			2500	1250	12	15/2	2	18	A/C-RM 321		AC
AC	-		19	-	↓	↓	1250	2500			1250	↓	↓	-	20	-		AC
AC	A/C-RM 305		21	2	15/2	12	1250		2500		1250	12	15/2	2	22	A/C-RM 322		AC
AC	-		23	-	↓	↓	1250			2500	1250	↓	↓	-	24	-		AC
AC	A/C-RM 306		25	2	15/2	12	1250	2500			1250	12	15/2	2	26	A/C-RM 323		AC
AC	-		27	-	↓	↓	1250		2500		1250	↓	↓	-	28	-		AC
AC	A/C-RM 307		29	2	15/2	12	1250			2500	1250	12	15/2	2	30	A/C-RM 324		AC
AC	-		31	-	↓	↓	1250	2500			1250	↓	↓	-	32	-		AC
AC	A/C-RM 308		33	2	15/2	12	1250		2500		1250	12	15/2	2	34	A/C-RM 325		AC
AC	-		35	-	↓	↓	1250			2500	1250	↓	↓	-	36	-		AC
AC	A/C-RM 309		37	2	15/2	12	1250	2500			1250	12	15/2	2	38	A/C-RM 326		AC
AC	-		39	-	↓	↓	1250		2500		1250	↓	↓	-	40	-		AC
AC	A/C-RM 310		41	2	15/2	12	1250			2500	1250	12	15/2	2	42	A/C-RM 327		AC
AC	-		43	-	↓	↓	1250	2500			1250	↓	↓	-	44	-		AC
AC	A/C-RM 311		45	2	15/2	12	1250		2500		1250	12	15/2	2	46	A/C-RM 328		AC
AC	-		47	-	↓	↓	1250			2500	1250	↓	↓	-	48	-		AC
AC	A/C-RM 312		49	2	15/2	12	1250	2500			1250	12	15/2	2	50	A/C-RM 329		AC
AC	-		51	-	↓	↓	1250		2500		1250	↓	↓	-	52	-		AC
AC	A/C-RM 313		53	2	15/2	12	1250			2500	1250	12	15/2	2	54	A/C-RM 330		AC
AC	-		55	-	↓	↓	1250	2500			1250	↓	↓	-	56	-		AC
AC	A/C-RM 314		57	2	15/2	12	1250		2500		1250	12	15/2	2	58	A/C-RM 331		AC
AC	-		59	-	↓	↓	1250			2500	1250	↓	↓	-	60	-		
AC	AHU-3.1		61	2	60/2	6	5763	5763					15/2	1	62	SPARE		
AC	↓		63	-	↓	↓	5763		5763					1	64			
	SPACE ONLY		65							0			↓	1	66	↓		

	CONNECTED LOAD	LOAD CODES	DEMAND LOAD
LTG	0	LTG =125% LIGHTING LOAD: (N/A)	0
REC	0	REC = RCPTS LOAD : (N/A)	0
EQUIP	0	EQUIP = EQUIPMENT LOAD : (N/A)	0
AC	85276	AC = HVAC LOAD	85276
HTG	0	HTG = HEATING LOAD : (N/A)	0
LGR	0	LGR = 125% LARGEST MOTOR : (N/A)	0
KIT	0	KIT = KITCHEN LOAD : (N/A)	0
SUB	0	SUB = SUB PANEL x PF : (N/A)	0
GLTG	0	GLTG = GUESTROOM LIGHTING LOAD: N/A	0
EVCS	0	EVCS = 125% ELECTRIC VEHICLE CHARGING STATION :(N/A)	0
VA	**85276**		**85276**
AMPS	**237**		**237**

A	B	C	
30.76	30.76	25.00	**CONNECTED PHASE (KVA)**
256.36	256.36	208.33	**CONNECTED PHASE (AMPS)**
30.76	30.76	23.75	**DEMAND PHASE (KVA)**
256.36	256.36	197.92	**DEMAND PHASE (AMPS)**

NOTE : 1 - FIELD VERIFICATION BREAKER SIZES, CABLE SIZES, ETC WITH MECHANICAL EQUIPMENT SUPPLIER PRIOR TO INSTALLATION

GENERAL NOTES:

1. CONTRACTOR SHALL PROVIDE A PERMANENTLY AFFIXED LABEL. THE LABEL SHALL BE 2" X 3" IN SIZE AND SHALL BE BLUE LETTERING ON A CONTRASTING BACKGROUND. THE FIELD MARKING(S) SHALL INCLUDE THE DATE THE FAULT–CURRENT CALCULATION WAS PERFORMED AND BE OF SUFFICIENT DURABILITY TO WITHSTAND THE ENVIRONMENT INVOLVED. THE CALCULATION SHALL BE DOCUMENTED AND MADE AVAILABLE TO THOSE AUTHORIZED TO DESIGN, INSTALL, INSPECT, MAINTAIN, OR OPERATE THE SYSTEM. (ARTICLE 110.24).
2. CONTRACTOR TO VERIFY FINAL CURRENT VALUES FROM ELECTRICAL UTILITY COMPANY AND PROVIDE AIC PROTECTION ACCORDINGLY.
3. AIC RATINGS OF ALL THE PANELS & BRANCH BREAKERS SHALL MATCH THE FAULT CURRENT OF THE TRANSFORMER.

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MEP GREEN DESIGN & BUILD ®
FAST AND ACCURATE

MAY 14, 2024

COLORADO REGISTERED PROFESSIONAL ENGINEER
DUNG D. VU
51953

Holiday Inn Express
3350 S. LINCOLN AVE
STEAMBOAT SPRINGS, CO 80487

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DRAWING ISSUE DATES:
8/18/23 Permit Set

REVISION DATES:
10/19/23 Staff/GM Toilets, Permit Revisions
11/29/23 Mt. Werner Revisions
05/14/24 Updated plans

PROJECT MANAGER: DV
DRAWN BY: PL
SHEET TITLE: ELECTRICAL PANEL SCHEDULE

E6.0

SHEET: 131 OF 142

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ASI #2 5/28/24

PANEL L2.A (FED FROM MDP)

PROJECT NAME: HIEX,STEAMBOAT SPRINGS, CO
PROJECT NUMBER: 230630
PANEL: L2.A (FED FROM MDP) — A.I.C RATING: 22 KA
VOLTAGE: 120/208V, 3PH, 4W — BUS: 150 AMP, COPPER — MAINS: 150 AMP, M.L.O — MOUNTING: SURFACE MOUNTED — LOCATION: ELECT. 2ND FLOOR
NEMA-1

LOAD TYPE	CIRCUIT DESCRIPTION	NOTES	CKT NO	P	BRKR AMP	WIRE	VOLT AMPS	A	B	C	VOLT AMPS	WIRE	BRKR AMP	P	CKT NO	CIRCUIT DESCRIPTION	NOTES	LOAD TYPE
GLTG	RCPTS/LTS	RM 200	1	1	20/1	12	1200	2400			1200	12	20/1	1	2	RCPTS/LTS	RM 208	GLTG
EQUIP	REFRIG/ MICRO/ COFFEE MAKER	-	3	1	25/1	10	1300		2600		1300	10	25/1	1	4	REFRIG/ MICRO/ COFFEE MAKER	-	EQUIP
REC	RCPT-VANITY	-	5	1	20/1	12	180			360	180	12	20/1	1	6	RCPT-VANITY	-	REC
GLTG	RCPTS/LTS	RM 201	7	1	↓	↓	1200	2400			1200	↓	↓	1	8	RCPTS/LTS	RM 209	GLTG
EQUIP	REFRIG/ MICRO/ COFFEE MAKER	-	9	1	25/1	10	1300		2600		1300	10	25/1	1	10	REFRIG/ MICRO/ COFFEE MAKER	-	EQUIP
REC	RCPT-VANITY	-	11	1	20/1	12	180			360	180	12	20/1	1	12	RCPT-VANITY	-	REC
GLTG	RCPTS/LTS	RM 202	13	1	↓	↓	1200	2400			1200	↓	↓	1	14	RCPTS/LTS	RM 210	GLTG
EQUIP	REFRIG/ MICRO/ COFFEE MAKER	-	15	1	25/1	10	1300		2600		1300	10	25/1	1	16	REFRIG/ MICRO/ COFFEE MAKER	-	EQUIP
REC	RCPT-VANITY	-	17	1	20/1	12	180			360	180	12	20/1	1	18	RCPT-VANITY	-	REC
GLTG	RCPTS/LTS	RM 203	19	1	↓	↓	1200	2400			1200	↓	↓	1	20	RCPTS/LTS	RM 211	GLTG
EQUIP	REFRIG/ MICRO/ COFFEE MAKER	-	21	1	25/1	10	1300		2600		1300	10	25/1	1	22	REFRIG/ MICRO/ COFFEE MAKER	-	EQUIP
REC	RCPT-VANITY	-	23	1	20/1	12	180			360	180	12	20/1	1	24	RCPT-VANITY	-	REC
	SPARE		25	1	20/1			1200			1200	↓	↓	1	26	RCPTS/LTS	RM 212	GLTG
GLTG	RCPTS/LTS	RM 204	27	1	20/1	12	1200		2500		1300	10	25/1	1	28	REFRIG/ MICRO/ COFFEE MAKER	-	EQUIP
EQUIP	REFRIG/ MICRO/ COFFEE MAKER	-	29	1	25/1	10	1300			0	180	12	20/1	1	30	RCPT-VANITY	-	REC
REC	RCPT-VANITY	-	31	1	20/1	12	180	1232			1052	12	15/2	2	32	RCPTS - PTAC UNIT TEST		EQUIP
GLTG	RCPTS/LTS	RM 205	33	1	↓	↓	1200		2252		1052	↓	↓	-	34	↓		EQUIP
EQUIP	REFRIG/ MICRO/ COFFEE MAKER	-	35	1	25/1	10	1300			2500	1200	12	20/1	1	36	RCPTS/LTS	RM 213	GLTG
REC	RCPT-VANITY	-	37	1	20/1	12	180	1480			1300	10	25/1	1	38	REFRIG/ MICRO/ COFFEE MAKER	-	EQUIP
GLTG	RCPTS/LTS	RM 206	39	1	20/1	12	1200		1380		180	12	20/1	1	40	RCPT-VANITY	-	REC
EQUIP	REFRIG/ MICRO/ COFFEE MAKER	-	41	1	25/1	10	1300			2500	1200	↓	↓	1	42	RCPTS/LTS	RM 214	GLTG
REC	RCPT-VANITY	-	43	1	20/1	12	180	1480			1300	10	25/1	1	44	REFRIG/ MICRO/ COFFEE MAKER	-	EQUIP
GLTG	RCPTS/LTS	RM 207	45	1	↓	↓	1200		1380		180	12	20/1	1	46	RCPT-VANITY	-	REC
EQUIP	REFRIG/ MICRO/ COFFEE MAKER	-	47	1	25/1	10	1300			1300			20/1	1	48	SPARE		
REC	RCPT-VANITY	-	49	1	20/1	12	180	1440			1260	12	20/1	1	50	RCPTS - HSKPG		REC
	SPARE		51	1	20/1				720		720	12	20/1	1	52	RCPTS - ELECTRICAL		REC
	↓		53	1	↓					1500	1500	12	20/1	1	54	ICE MACHINE		EQUIP
			55	1				1500			1500	12	20/1	1	56	VENDING MACHINE	(CLASS A GFCI BREAKER)	EQUIP
			57	1					500		500	12	20/1	1	58	FIRE SMOKE DAMPER	(CLASS A GFCI BREAKER)	EQUIP
	SPACE ONLY		59							1080	1080	12	20/1	1	60	RCPTS - CORRIDOR		REC
	↓		61					1080			1080	12	20/1	1	62	RCPTS - CORRIDOR		REC
			63						0				20/1	1	64	SPARE		
			65							0			↓	1	66	↓		

	CONNECTED LOAD	LOAD CODES	DEMAND LOAD
LTG	0	LTG =125% LIGHTING LOAD: (N/A)	0
REC	6840	REC = RCPTS LOAD (100% FIRST 10kW +50% REMAIN)	6840
EQUIP	25104	EQUIP = EQUIPMENT LOAD	25104
AC	0	AC = HVAC LOAD : (N/A)	0
HTG	0	HTG = HEATING LOAD : (N/A)	0
LGR	0	LGR = 125% LARGEST MOTOR : (N/A)	0
KIT	0	KIT = KITCHEN LOAD : (N/A)	0
SUB	0	SUB = SUB PANEL x PF : (N/A)	0
GLTG	18000	GLTG = GUESTROOM LIGHTING LOAD (60% FIRST 20kW +50% REMAIN)	10800
EVCS	0	EVCS = 125% ELECTRIC VEHICLE CHARGING STATION :(N/A)	0
VA	49944		42744
AMPS	139		119

A	B	C	
19.01	19.13	10.32	CONNECTED PHASE (KVA)
158.44	159.44	86.00	CONNECTED PHASE (AMPS)
14.69	17.21	10.84	DEMAND PHASE (KVA)
122.44	143.44	90.33	DEMAND PHASE (AMPS)

NOTE: 1 - PROVIDE ARC-FAULT CIRCUIT BREAKERS FOR ALL BRANCH CIRCUITS IN GUEST ROOMS (ARTICLE 210.12(C))

PANEL L1.A (FED FROM MDP)

05/14/24

PROJECT NAME: HIEX,STEAMBOAT SPRINGS, CO
PROJECT NUMBER: 230630
PANEL: L1.A (FED FROM MDP) — A.I.C RATING: 42 KA
VOLTAGE: 120/208V, 3PH, 4W — BUS: 350 AMP, COPPER — MAINS: 350 AMP, M.L.O — MOUNTING: SURFACE MOUNTED — LOCATION: ELECT. 1ST FLOOR
NEMA-1

LOAD TYPE	CIRCUIT DESCRIPTION	NOTES	CKT NO	P	BRKR AMP	WIRE	VOLT AMPS	A	B	C	VOLT AMPS	WIRE	BRKR AMP	P	CKT NO	CIRCUIT DESCRIPTION	NOTES	LOAD TYPE
SUB	PANEL "A" / 101 - STAFF TYPE B		1	2	125/2	1	10085	20065			9980	1	125/2	2	2	PANEL "A" / 106 - STAFF TYPE A		SUB
SUB	↓		3	-	↓	↓	10085		20065		9980	↓	↓	-	4	↓		SUB
SUB	PANEL "A" / 102 - STAFF TYPE C		5	2	125/2	1	10085			20065	9980	1	125/2	2	6	PANEL "A" / 107 - STAFF TYPE A		SUB
SUB	↓		7	-	↓	↓	10085	20065			9980	↓	↓	-	8	↓		SUB
SUB	PANEL "A" / 103 - STAFF TYPE B		9	2	125/2	1	10085		20065		9980	1	125/2	2	10	PANEL "A" / 108 - STAFF TYPE A		SUB
SUB	↓		11	-	↓	↓	10085			20065	9980	↓	↓	-	12	↓		SUB
SUB	PANEL "A" / 104 - STAFF TYPE A		13	2	125/2	1	9980	19960			9980	1	125/2	2	14	PANEL "A" / 109 - STAFF TYPE A		SUB
SUB	↓		15	-	↓	↓	9980		19960		9980	↓	↓	-	16	↓		SUB
SUB	PANEL "A" / 105 - STAFF TYPE A		17	2	125/2	1	9980			20226	10246	1	125/2	2	18	PANEL "A" / 110 - STAFF TYPE A.1		SUB
SUB	↓		19	-	↓	↓	9980	20226			10246	↓	↓	-	20	↓		SUB
	SPACE ONLY		21						10246		10246	1	125/2	2	22	PANEL "A" / 111 - STAFF TYPE A.1		SUB
	↓		23							10246	10246	↓	↓	-	24	↓		SUB
			25					0					20/1	1	26	SPARE		
			27						0				↓	1		↓		
			29							0				1	2			
			31					0						1	4			
			33						0					1	6			
			35							0				1	8			
			37					0							10	SPACE ONLY		
			39						0						12	↓		
			41							0					14			

05/14/24

	CONNECTED LOAD	LOAD CODES	DEMAND LOAD
LTG	0	LTG =125% LIGHTING LOAD: (N/A)	0
REC	0	REC = RCPTS LOAD : (N/A)	0
EQUIP	0	EQUIP = EQUIPMENT LOAD : (N/A)	0
AC	0	AC = HVAC LOAD : (N/A)	0
HTG	0	HTG = HEATING LOAD : (N/A)	0
LGR	0	LGR = 125% LARGEST MOTOR : (N/A)	0
KIT	0	KIT = KITCHEN LOAD : (N/A)	0
SUB	221252	SUB = SUB PANEL x 42% PF(FOR 11 UNIITS)	92926
GLTG	0	GLTG = GUESTROOM LIGHTING LOAD: N/A	0
EVCS	0	EVCS = 125% ELECTRIC VEHICLE CHARGING STATION :(N/A)	0
VA	221252		92926
AMPS	615		258

A	B	C	
80.32	70.34	70.60	CONNECTED PHASE (KVA)
669.30	586.13	588.34	CONNECTED PHASE (AMPS)
33.73	29.54	29.65	DEMAND PHASE (KVA)
281.10	246.17	247.10	DEMAND PHASE (AMPS)

NOTE: 1 - PROVIDE ARC-FAULT CIRCUIT BREAKERS FOR ALL BRANCH CIRCUITS IN GUEST ROOMS (ARTICLE 210.12(C))

PANEL INDEX

L2.A	L1.A
L2.B	L1.B
L2.C	L1.C

PANEL L2.B (FED FROM MDP)

PROJECT NAME: HIEX,STEAMBOAT SPRINGS, CO
PROJECT NUMBER: 230630
PANEL: L2.B (FED FROM MDP) — A.I.C RATING: 22 KA
VOLTAGE: 120/208V, 3PH, 4W — BUS: 150 AMP, COPPER — MAINS: 150 AMP, M.L.O — MOUNTING: SURFACE MOUNTED — LOCATION: ELECT. 2ND FLOOR
NEMA-1

LOAD TYPE	CIRCUIT DESCRIPTION	NOTES	CKT NO	P	BRKR AMP	WIRE	VOLT AMPS	A	B	C	VOLT AMPS	WIRE	BRKR AMP	P	CKT NO	CIRCUIT DESCRIPTION	NOTES	LOAD TYPE
GLTG	RCPTS/LTS	RM 216	1	1	20/1	12	1200	2400			1200	12	20/1	1	2	RCPTS/LTS	RM 225	GLTG
EQUIP	REFRIG/ MICRO/ COFFEE MAKER	-	3	1	25/1	10	1300		2600		1300	10	25/1	1	4	REFRIG/ MICRO/ COFFEE MAKER	-	EQUIP
REC	RCPT-VANITY	-	5	1	20/1	12	180			360	180	12	20/1	1	6	RCPT-VANITY	-	REC
GLTG	RCPTS/LTS	RM 218	7	1	↓	↓	1200	2400			1200	↓	↓	1	8	RCPTS/LTS	RM 226	GLTG
EQUIP	REFRIG/ MICRO/ COFFEE MAKER	-	9	1	25/1	10	1300		2600		1300	10	25/1	1	10	REFRIG/ MICRO/ COFFEE MAKER	-	EQUIP
REC	RCPT-VANITY	-	11	1	20/1	12	180			360	180	12	20/1	1	12	RCPT-VANITY	-	REC
GLTG	RCPTS/LTS	RM 219	13	1	↓	↓	1200	2400			1200	↓	↓	1	14	RCPTS/LTS	RM 227	GLTG
EQUIP	REFRIG/ MICRO/ COFFEE MAKER	-	15	1	25/1	10	1300		2600		1300	10	25/1	1	16	REFRIG/ MICRO/ COFFEE MAKER	-	EQUIP
REC	RCPT-VANITY	-	17	1	20/1	12	180			360	180	12	20/1	1	18	RCPT-VANITY	-	REC
GLTG	RCPTS/LTS	RM 220	19	1	↓	↓	1200	2400			1200	↓	↓	1	20	RCPTS/LTS	RM 228	GLTG
EQUIP	REFRIG/ MICRO/ COFFEE MAKER	-	21	1	25/1	10	1300		2600		1300	10	25/1	1	22	REFRIG/ MICRO/ COFFEE MAKER	-	EQUIP
REC	RCPT-VANITY	-	23	1	20/1	12	180			360	180	12	20/1	1	24	RCPT-VANITY	-	REC
	SPARE		25	1	20/1			1200			1200	↓	↓	1	26	RCPTS/LTS	RM 229	GLTG
GLTG	RCPTS/LTS	RM 221	27	1	20/1	12	1200		2500		1300	10	25/1	1	28	REFRIG/ MICRO/ COFFEE MAKER	-	EQUIP
EQUIP	REFRIG/ MICRO/ COFFEE MAKER	-	29	1	25/1	10	1300			1480	180	12	20/1	1	30	RCPT-VANITY	-	REC
REC	RCPT-VANITY	-	31	1	20/1	12	180	180					20/1	1	32	SPARE		
GLTG	RCPTS/LTS	RM 222	33	1	↓	↓	1200		1200				↓	1	34	↓		
EQUIP	REFRIG/ MICRO/ COFFEE MAKER	-	35	1	25/1	10	1300			2500	1200	12	20/1	1	36	RCPTS/LTS	RM 230	GLTG
REC	RCPT-VANITY	-	37	1	20/1	12	180	1480			1300	10	25/1	1	38	REFRIG/ MICRO/ COFFEE MAKER	-	EQUIP
GLTG	RCPTS/LTS	RM 223	39	1	20/1	12	1200		1380		180	12	20/1	1	40	RCPT-VANITY	-	REC
EQUIP	REFRIG/ MICRO/ COFFEE MAKER	-	41	1	25/1	10	1300			2500	1200	↓	↓	1	42	RCPTS/LTS	RM 231	GLTG
REC	RCPT-VANITY	-	43	1	20/1	12	180	1480			1300	10	25/1	1	44	REFRIG/ MICRO/ COFFEE MAKER	-	EQUIP
GLTG	RCPTS/LTS	RM 224	45	1	↓	↓	1200		1380		180	12	20/1	1	46	RCPT-VANITY	-	REC
EQUIP	REFRIG/ MICRO/ COFFEE MAKER	-	47	1	25/1	10	1300			2050	750	12	15/2	2	48	EUH-1		HTG
REC	RCPT-VANITY	-	49	1	20/1	12	180	930			750	↓	↓	-	50	↓		HTG
	SPACE ONLY		51						750		750	12	15/2	2	52	EUH-1		HTG
	↓		53							750	750	↓	↓	-	54	↓		HTG
			55					1000			1000	12	20/1	1	56	J-BOX FOR SNOWMELT		EQUIP
			57						1000		1000	12	20/1	1	58	J-BOX FOR SNOWMELT		EQUIP
			59							0			20/1	1	60	SPARE		
			61					0					↓	1	62	↓		
			63						0					1	64			
			65							0				1	66			

	CONNECTED LOAD	LOAD CODES	DEMAND LOAD
LTG	0	LTG =125% LIGHTING LOAD: (N/A)	0
REC	2700	REC = RCPTS LOAD (100% FIRST 10kW +50% REMAIN)	2700
EQUIP	21500	EQUIP = EQUIPMENT LOAD	21500
AC	0	AC = HVAC LOAD : (N/A)	0
HTG	3000	HTG = HEATING LOAD	3000
LGR	0	LGR = 125% LARGEST MOTOR : (N/A)	0
KIT	0	KIT = KITCHEN LOAD : (N/A)	0
SUB	0	SUB = SUB PANEL x PF : (N/A)	0
GLTG	18000	GLTG = GUESTROOM LIGHTING LOAD (60% FIRST 20kW +50% REMAIN)	10800
EVCS	0	EVCS = 125% ELECTRIC VEHICLE CHARGING STATION :(N/A)	0
VA	45200		38000
AMPS	126		106

A	B	C	
15.87	18.61	10.72	CONNECTED PHASE (KVA)
132.25	155.08	89.33	CONNECTED PHASE (AMPS)
11.55	16.69	9.76	DEMAND PHASE (KVA)
96.25	139.08	81.33	DEMAND PHASE (AMPS)

NOTE: 1 - PROVIDE ARC-FAULT CIRCUIT BREAKERS FOR ALL BRANCH CIRCUITS IN GUEST ROOMS (ARTICLE 210.12(C))

PANEL L1.B (FED FROM MDP)

PROJECT NAME: HIEX,STEAMBOAT SPRINGS, CO
PROJECT NUMBER: 230630
PANEL: L1.B(FED FROM MDP) — A.I.C RATING: 30 KA
VOLTAGE: 120/208V, 3PH, 4W — BUS: 125 AMP, COPPER — MAINS: 125 AMP, M.L.O — MOUNTING: SURFACE MOUNTED — LOCATION: ELECT. 1ST FLOOR
NEMA-1

LOAD TYPE	CIRCUIT DESCRIPTION	NOTES	CKT NO	P	BRKR AMP	WIRE	VOLT AMPS	A	B	C	VOLT AMPS	WIRE	BRKR AMP	P	CKT NO	CIRCUIT DESCRIPTION	NOTES	LOAD TYPE
LTG	LTS - CORRIDOR/ ELEV. LOBBY	(1ST FLOOR)	1	1	20/1	10	500	500					20/1	1	2	SPARE		
LTG	LTS - CORRIDOR/ ELEV. LOBBY	(1ST FLOOR)	3	1	20/1	10	500		500				↓	1	4	↓		
LTG	LTS - FITNESS ROOM		5	1	20/1	12	365			365				1	6			
LTG	LTS - MECH./ FIRE/ ENGINEER		7	1	20/1	12	749	969			220	10	20/1	1	8	LTS - EXTERIOR	(NOTE 1)	LTG
LTG	LTS - GUEST LAUN./ RESTROOM		9	1	20/1	12	500		980		480	10	20/2	2	10	LTS - SITE	(NOTE 1)	LTG
LTG	LTS - MEETING		11	1	20/1	12	450			930	480	10	↓	-	12	↓		LTG
LTG	LTS - GREATROOM		13	1	20/1	12	600	1080			480	10	20/2	2	14	LTS - SITE	(NOTE 1)	LTG
LTG	LTS - GREATROOM		15	1	20/1	12	350		830		480	10	↓	-	16	↓		LTG
LTG	LTS - LOBBY/ CHECKIN		17	1	20/1	12	322			802	480	10	20/2	2	18	LTS - SITE	(NOTE 1)	LTG
LTG	LTS - LOBBY/ CHECKIN		19	1	20/1	12	100	580			480	10	↓	-	20	↓		LTG
LTG	LTS - CORRIDOR/ ELEV. LOBBY/ STOR./ ENG.	(2ND FLOOR)	21	1	20/1	10	555		1755		1200	10	20/1	1	22	BUILDING SIGN	(NOTE 1)	LTG
LTG	LTS - CORRIDOR/ ELEV. LOBBY/ STOR./ ENG.	(2ND FLOOR)	23	1	20/1	10	555			1755	1200	10	20/1	1	24	BUILDING SIGN	(NOTE 1)	LTG
LTG	LTS - CORRIDOR/ ELEV. LOBBY/ STOR./ ENG.	(3RD FLOOR)	25	1	20/1	10	555	660			105	12	20/1	1	26	LTS - STORAGE		LTG
LTG	LTS - CORRIDOR/ ELEV. LOBBY/ STOR./ ENG.	(3RD FLOOR)	27	1	20/1	10	555		555				20/1	1	28	SPARE		
LTG	LTS - CORRIDOR/ ELEV. LOBBY/ STOR./ HSKP	(4TH FLOOR)	29	1	20/1	10	555			555			↓	1	30	↓		
LTG	LTS - CORRIDOR/ ELEV. LOBBY/ STOR./ HSKP	(4TH FLOOR)	31	1	20/1	10	555	555						1	32			
LTG	LTS - STAIRCASE		33	1	20/1	12	322		322					1	34			
LTG	LTS - PANTRY/ BREAKFAST		35	1	20/1	12	1000			1000				1	36			
LTG	LTS - LAUNDRY/ LINEN		37	1	20/1	12	1000	1000							38	SPACE ONLY		
LTG	LTS - GM/ NET/ SALES/ WORKAREA		39	1	20/1	12	100		100						40	↓		
LTG	LTS - ELEC./ STORAGE		41	1	20/1	12	100			100					42			

	CONNECTED LOAD	LOAD CODES	DEMAND LOAD
LTG	15893	LTG =125% LIGHTING LOAD	19866
REC	0	REC = RCPTS LOAD : (N/A)	0
EQUIP	0	EQUIP = EQUIPMENT LOAD : (N/A)	0
AC	0	AC = HVAC LOAD : (N/A)	0
HTG	0	HTG = HEATING LOAD : (N/A)	0
LGR	0	LGR = 125% LARGEST MOTOR : (N/A)	0
KIT	0	KIT = KITCHEN LOAD : (N/A)	0
SUB	0	SUB = SUB PANEL x PF : (N/A)	0
GLTG	0	GLTG = GUESTROOM LIGHTING LOAD: N/A	0
EVCS	0	EVCS = 125% ELECTRIC VEHICLE CHARGING STATION :(N/A)	0
VA	15893		19866
AMPS	44		55

A	B	C	
5.34	5.04	5.51	CONNECTED PHASE (KVA)
44.53	42.02	45.89	CONNECTED PHASE (AMPS)
6.68	6.30	6.88	DEMAND PHASE (KVA)
55.67	52.52	57.36	DEMAND PHASE (AMPS)

NOTE : 1 - CONTROLLED BY A 20A, MECH. HELD LIGHTING CONTACTORS WHICH IS CONTROLLED BY A 7-DAY, N-1 TIME CLOCK WITH 4 HRS BATTERIES IN PANEL L1.B
2 - PROVIDE HANDLE TIES FOR CIRCUIT BREAKERS TO DISCONNECT ALL UNGROUNDED CONDUCTORS SIMULTANEOUSLY ON MULTI-WIRE BRANCH CIRCUITS

PANEL L2.C (FED FROM MDP)

PROJECT NAME: HIEX,STEAMBOAT SPRINGS, CO
PROJECT NUMBER: 230630
PANEL: L2.C (FED FROM MDP) — A.I.C RATING: 22 KA
VOLTAGE: 120/208V, 3PH, 4W — BUS: 300 AMP, COPPER — MAINS: 300 AMP, M.L.O — MOUNTING: SURFACE MOUNTED — LOCATION: ELECT. 2ND FLOOR
NEMA-1

LOAD TYPE	CIRCUIT DESCRIPTION	NOTES	CKT NO	P	BRKR AMP	WIRE	VOLT AMPS	A	B	C	VOLT AMPS	WIRE	BRKR AMP	P	CKT NO	CIRCUIT DESCRIPTION	NOTES	LOAD TYPE
AC	A/C-RM 200		1	2	15/2	12	1250	2500			1250	12	15/2	2	2	A/C-RM 216		AC
AC	-		3	-	↓	↓	1250		2500		1250	↓	↓	-	4	-		AC
AC	A/C-RM 201		5	2	15/2	12	1250			2500	1250	12	15/2	2	6	A/C-RM 218		AC
AC	-		7	-	↓	↓	1250	2500			1250	↓	↓	-	8	-		AC
AC	A/C-RM 202		9	2	15/2	12	1250		2500		1250	12	15/2	2	10	A/C-RM 219		AC
AC	-		11	-	↓	↓	1250			2500	1250	↓	↓	-	12	-		AC
AC	A/C-RM 203		13	2	15/2	12	1250	2500			1250	12	15/2	2	14	A/C-RM 220		AC
AC	-		15	-	↓	↓	1250		2500		1250	↓	↓	-	16	-		AC
AC	A/C-RM 204		17	2	15/2	12	1250			2500	1250	12	15/2	2	18	A/C-RM 221		AC
AC	-		19	-	↓	↓	1250	2500			1250	↓	↓	-	20	-		AC
AC	A/C-RM 205		21	2	15/2	12	1250		2500		1250	12	15/2	2	22	A/C-RM 222		AC
AC	-		23	-	↓	↓	1250			2500	1250	↓	↓	-	24	-		AC
AC	A/C-RM 206		25	2	15/2	12	1250	2500			1250	12	15/2	2	26	A/C-RM 223		AC
AC	-		27	-	↓	↓	1250		2500		1250	↓	↓	-	28	-		AC
AC	A/C-RM 207		29	2	15/2	12	1250			2500	1250	12	15/2	2	30	A/C-RM 224		AC
AC	-		31	-	↓	↓	1250	2500			1250	↓	↓	-	32	-		AC
AC	A/C-RM 208		33	2	15/2	12	1250		2500		1250	12	15/2	2	34	A/C-RM 225		AC
AC	-		35	-	↓	↓	1250			2500	1250	↓	↓	-	36	-		AC
AC	A/C-RM 209		37	2	15/2	12	1250	2500			1250	12	15/2	2	38	A/C-RM 226		AC
AC	-		39	-	↓	↓	1250		2500		1250	↓	↓	-	40	-		AC
AC	A/C-RM 210		41	2	15/2	12	1250			2500	1250	12	15/2	2	42	A/C-RM 227		AC
AC	-		43	-	↓	↓	1250	2500			1250	↓	↓	-	44	-		AC
AC	A/C-RM 211		45	2	15/2	12	1250		2500		1250	12	15/2	2	46	A/C-RM 228		AC
AC	-		47	-	↓	↓	1250			2500	1250	↓	↓	-	48	-		AC
AC	A/C-RM 212		49	2	15/2	12	1250	2500			1250	12	15/2	2	50	A/C-RM 229		AC
AC	-		51	-	↓	↓	1250		2500		1250	↓	↓	-	52	-		AC
AC	A/C-RM 213		53	2	15/2	12	1250			2500	1250	12	15/2	2	54	A/C-RM 230		AC
AC	-		55	-	↓	↓	1250	2500			1250	↓	↓	-	56	-		AC
AC	A/C-RM 214		57	2	15/2	12	1250		2500		1250	12	15/2	2	58	A/C-RM 231		AC
AC	-		59	-	↓	↓	1250			2500	1250	↓	↓	-	60	-		AC
AC	AHU-2.1		61	2	60/2	6	5763	5836			73	12	15/2	2	62	BS-3		AC
AC	↓		63	-	↓	↓	5763		5836		73	↓	↓	-	64	-		AC
	SPACE ONLY		65							0			20/1	1	66	SPARE		

	CONNECTED LOAD	LOAD CODES	DEMAND LOAD
LTG	0	LTG =125% LIGHTING LOAD: (N/A)	0
REC	0	REC = RCPTS LOAD : (N/A)	0
EQUIP	0	EQUIP = EQUIPMENT LOAD : (N/A)	0
AC	86672	AC = HVAC LOAD	86672
HTG	0	HTG = HEATING LOAD : (N/A)	0
LGR	0	LGR = 125% LARGEST MOTOR : (N/A)	0
KIT	0	KIT = KITCHEN LOAD : (N/A)	0
SUB	0	SUB = SUB PANEL x PF : (N/A)	0
GLTG	0	GLTG = GUESTROOM LIGHTING LOAD: N/A	0
EVCS	0	EVCS = 125% ELECTRIC VEHICLE CHARGING STATION :(N/A)	0
VA	86672		86672
AMPS	241		241

A	B	C	
30.84	30.84	25.00	CONNECTED PHASE (KVA)
256.97	256.97	208.33	CONNECTED PHASE (AMPS)
30.84	30.84	25.00	DEMAND PHASE (KVA)
256.97	256.97	208.33	DEMAND PHASE (AMPS)

NOTE : 1 - FIELD VERIFICATION BREAKER SIZES, CABLE SIZES, ETC WITH MECHANICAL EQUIPMENT SUPPLIER PRIOR TO INSTALLATION

PANEL L1.C (FED FROM MDP)

PROJECT NAME: HIEX,STEAMBOAT SPRINGS, CO
PROJECT NUMBER: 230630
PANEL: L1.C (FED FROM MDP) — A.I.C RATING: 42 KA
VOLTAGE: 120/208V, 3PH, 4W — BUS: 225 AMP, COPPER — MAINS: 225 AMP, M.L.O — MOUNTING: SURFACE MOUNTED — LOCATION: ELECT. 1ST FLOOR
NEMA-1

LOAD TYPE	CIRCUIT DESCRIPTION	NOTES	CKT NO	P	BRKR AMP	WIRE	VOLT AMPS	A	B	C	VOLT AMPS	WIRE	BRKR AMP	P	CKT NO	CIRCUIT DESCRIPTION	NOTES	LOAD TYPE
EQUIP	DOOR MOTOR		1	1	20/1	12	1500	2400			900	12	20/1	1	2	RCPTS - MEETING		REC
EQUIP	DOOR MOTOR		3	1	20/1	12	1500		2040		540	12	20/1	1	4	RCPTS - FLOOR MEETING		REC
REC	RCPTS - LOBBY		5	1	20/1	12	900			1980	1080	12	20/1	1	6	RCPTS - MEETING		REC
REC	RCPTS - LOBBY		7	1	20/1	12	1080	2280			1200	12	20/1	1	8	WATER COOLER	(CLASS A GFCI BREAKER)	EQUIP
EQUIP	IG RCPTS - CHECK IN		9	1	20/1	12	720		2220		1500	10	30/1	1	10	FITNESS EQUIPMENT		EQUIP
REC	RCPTS - LAUNDRY		11	1	20/1	12	1440			2940	1500	10	30/1	1	12	FITNESS EQUIPMENT		EQUIP
REC	RCPTS - LOBBY		13	1	20/1	12	1440	2940			1500	10	30/1	1	14	FITNESS EQUIPMENT		EQUIP
EQUIP	IG RCPTS - COMMUNITY TABLE		15	1	20/1	12	360		1860		1500	10	30/1	1	16	FITNESS EQUIPMENT		EQUIP
EQUIP	RCPTS - MARKET		17	1	20/1	12	1200			2700	1500	10	30/1	1	18	FITNESS EQUIPMENT		EQUIP
EQUIP	RCPTS - MARKET		19	1	20/1	12	1200	2700			1500	10	30/1	1	20	FITNESS EQUIPMENT		EQUIP
REC	RCPTS - GREATROOM		21	1	20/1	12	1440		2940		1500	10	30/1	1	22	FITNESS EQUIPMENT		EQUIP
REC	RCPTS - ELEV LOBBY		23	1	20/1	12	1440			2880	1440	12	20/1	1	24	RCPTS - FITNESS		REC
REC	RCPTS - WORK AREA/ STOR.		25	1	20/1	12	1260	2460			1200	12	20/1	1	26	EDF- FITNESS	(CLASS A GFCI BREAKER)	EQUIP
REC	RCPTS - SALES/ GM		27	1	20/1	12	1260		1800		540	12	20/1	1	28	RCPTS - CORRIDOR/ ENGINEER		REC
EQUIP	IG RCPTS - PHOTOCOPI		29	1	20/1	12	1500			2400	900	12	20/1	1	30	RCPTS - MECH/ FIRE		REC
EQUIP	IG RCPTS - WORK AREA		31	1	20/1	12	720	1080			360	12	20/1	1	32	RCPTS - STORAGE		REC
EQUIP	IG RCPTS - GM		33	1	20/1	12	360		1800		1440	12	20/1	1	34	RCPTS - ELEC./STORAGE		REC
EQUIP	IG RCPTS - SALES		35	1	20/1	12	360			1560	1200	12	20/1	1	36	RCPTS - DW	(GFCI BREAKER)	EQUIP
REC	RCPTS - CORRIDOR		37	1	20/1	12	540	1740			1200	12	20/1	1	38	RCPTS - MARKET		EQUIP
REC	RCPTS - CORRIDOR		39	1	20/1	12	540		1260		720	12	20/1	1	40	IG RCPTS - WORK AREA		EQUIP
EQUIP	RCPTS - BREAK REF.	(GFCI BREAKER)	41	1	20/1	12	1200			1200			20/1	1	42	SPARE		
EQUIP	RCPTS - BREAK DISPOSER		43	1	20/1	10	500	1760			1260	12	20/1	1	44	RCPTS - POLE LIGHTS		REC
EQUIP	RCPTS - BREAK MICROWAVE		45	1	20/1	10	1200		1560		360	12	20/1	1	46	IG RCPTS - GM		EQUIP
EQUIP	IG RCPTS - TEL BOARD		47	1	20/1	10	1200			1560	360	12	20/1	1	48	IG RCPTS - LAUNDRY		EQUIP
EQUIP	↓		49	1	20/1	10	1200	1388			188	12	20/1	1	50	EF-4		EQUIP
EQUIP	IG RCPTS - DATA BOARD		51	1	20/1	10	1200		1388		188	12	20/1	1	52	EF-6		EQUIP
EQUIP	↓		53	1	20/1	10	1200			1200			20/1	1	54	SPARE		
EQUIP	IG RCPTS - SECURITY BOARD		55	1	20/1	10	1200	1560			360	12	20/1	1	56	IG RCPTS - CHECK IN		EQUIP
EQUIP	↓		57	1	20/1	10	1200		2200		1000	12	20/1	1	58	J-BOX FOR SNOWMELT		EQUIP
EQUIP	IG RCPTS - CABLE TV BOARD		59	1	20/1	10	1200			2200	1000	12	20/1	1	60	J-BOX FOR SNOWMELT		EQUIP
EQUIP	↓		61	1	20/1	10	1200	1200					20/1	1	62	SPARE		
EQUIP	RCPTS - MARKET		63	1	20/1	12	1200		1200				↓	1	64	↓		
EQUIP	RCPTS - MARKET		65	1	20/1	12	1200			1200				1	66			
LTG	LTS - ELEVATOR		67	1	20/1	12	200	200						1	68			
REC	RCPTS - ELEVATOR		69	1	20/1	12	180		180					1	70			
REC	RCPTS - ELEVATOR		71	1	20/1	12	1000			1000				1	72			
EQUIP	SUMP PUMP CONTROLLER (SP - 1)	(CLASS A GFCI BREAKER)	73	1	20/1	12	375	375							74	SPACE ONLY		
REC	RCPTS - MAINTENANCE		75	2	20/2	12	500		500						76	↓		
REC	↓		77	-	↓	↓	500			500					78			
EQUIP	RCPTS - ELEC./STORAGE		79	1	20/1	12	1200	1200							80			
EQUIP	RCPTS - ELEC./STORAGE		81	1	20/1	12	1200		1200						82			
EQUIP	IG RCPTS - AM		83	1	20/1	12	360			360					84			

05/14/24

	CONNECTED LOAD	LOAD CODES	DEMAND LOAD
LTG	200	LTG =125% LIGHTING LOAD	250
REC	21480	REC = RCPTS LOAD (100% FIRST 10kW +50% REMAIN)	15740
EQUIP	46931	EQUIP = EQUIPMENT LOAD	46931
AC	0	AC = HVAC LOAD : (N/A)	0
HTG	0	HTG = HEATING LOAD : (N/A)	0
LGR	0	LGR = 125% LARGEST MOTOR : (N/A)	0
KIT	0	KIT = KITCHEN LOAD : (N/A)	0
SUB	0	SUB = SUB PANEL x PF : (N/A)	0
GLTG	0	GLTG = GUESTROOM LIGHTING LOAD: N/A	0
EVCS	0	EVCS = 125% ELECTRIC VEHICLE CHARGING STATION :(N/A)	0
VA	68611		62921
AMPS	191		175

A	B	C	
23.28	22.15	23.68	CONNECTED PHASE (KVA)
194.03	184.57	197.33	CONNECTED PHASE (AMPS)
21.58	20.34	21.00	DEMAND PHASE (KVA)
179.83	169.54	174.97	DEMAND PHASE (AMPS)

GENERAL NOTES:

1. CONTRACTOR SHALL PROVIDE A PERMANENTLY AFFIXED LABEL. THE LABEL SHALL BE 2" X 3" IN SIZE AND SHALL BE BLUE LETTERING ON A CONTRASTING BACKGROUND. THE FIELD MARKING(S) SHALL INCLUDE THE DATE THE FAULT-CURRENT CALCULATION WAS PERFORMED AND BE OF SUFFICIENT DURABILITY TO WITHSTAND THE ENVIRONMENT INVOLVED. THE CALCULATION SHALL BE DOCUMENTED AND MADE AVAILABLE TO THOSE AUTHORIZED TO DESIGN, INSTALL, INSPECT, MAINTAIN, OR OPERATE THE SYSTEM. (ARTICLE 110.24).
2. CONTRACTOR TO VERIFY FINAL CURRENT VALUES FROM ELECTRICAL UTILITY COMPANY AND PROVIDE AIC PROTECTION ACCORDINGLY.
3. AIC RATINGS OF ALL THE PANELS & BRANCH BREAKERS SHALL MATCH THE FAULT CURRENT OF THE TRANSFORMER.

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MEP GREEN DESIGN & BUILD ®
FAST AND ACCURATE

MAY 14, 2024
COLORADO REGISTERED DUNG D. VU 51953 PROFESSIONAL ENGINEER

Holiday Inn Express
3350 S. LINCOLN AVE
STEAMBOAT SPRINGS, CO 80487

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DRAWING ISSUE DATES:
8/18/23 Permit Set

REVISION DATES:
10/19/23 Staff/GM Toilets, Permit Revisions
11/29/23 Mt. Werner Revisions
02/15/24 Pool Removal, Guest Room Addition
03/05/24 Updated plans
05/14/24 Updated plans

PROJECT MANAGER:
DV

DRAWN BY:
PL

SHEET TITLE:
ELECTRICAL PANEL SCHEDULE

E6.1

SHEET: 132 OF 142

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ASI #2 5/28/24

PROJECT NAME: HIEX,STEAMBOAT SPRINGS, CO
PROJECT NUMBER: 230630
PANEL: **L1.D (FED FROM MDP)** | A.I.C RATING: 22 KA
VOLTAGE: 120/208V, 3PH, 4W | BUS: 400 AMP | MAINS: 400 AMP | MOUNTING: SURFACE MOUNTED
NEMA-1 | COPPER | M.L.O | LOCATION: ELECT. 1ST FLOOR

LOAD TYPE	CIRCUIT DESCRIPTION	NOTES	CKT NO	P	BRKR AMP	WIRE	VOLT AMPS	A	B	C	VOLT AMPS	WIRE	BRKR AMP	P	CKT NO	CIRCUIT DESCRIPTION	NOTES	LOAD TYPE
EQUIP	WASHER		1	3	30/3	10	2000	2000					20/1	1	2	SPARE		
EQUIP	↓		3	-	↓	↓	2000		2000				20/1	1	4	↓		
EQUIP			5	-			2000			2000			20/1	1	6			
EQUIP	WASHER		7	3	30/3	10	2000	2000					20/1	1	8			
EQUIP	↓		9	-	↓	↓	2000		2500		500	12	20/1	1	10	WATER HEATER		EQUIP
EQUIP			11	-			2000			3000	1000	12	20/1	1	12	WATER HEATER		EQUIP
EQUIP	WASHER		13	3	30/3	10	2000	2000					20/1	3	14	SPARE		EQUIP
EQUIP	↓		15	-	↓	↓	2000		2000				↓	-	16	↓		
EQUIP			17	-			2000			2000				-	18			
EQUIP	DRYER (GAS HEAT)		19	2	20/2	12	750	1191			441	12	20/1	1	20	CIRCULATE PUMP CONTROLLER (C.P-1)		
EQUIP	↓		21	-	↓	↓	750		1191		441	12	20/1	1	22	CIRCULATE PUMP CONTROLLER (C.P-2)		EQUIP
EQUIP	DRYER (GAS HEAT)		23	2	20/2	12	750			1191	441	12	20/1	1	24	CIRCULATE PUMP CONTROLLER (C.P-3)		EQUIP
EQUIP	↓		25	-	↓	↓	750	3250			2500	10	30/2	2	26	DRYER (GUEST LAUNDRY)	(GFCI BREAKER)	EQUIP
EQUIP	DRYER (GAS HEAT)		27	2	20/2	12	750		3250		2500	↓	↓	-	28	↓		EQUIP
EQUIP	↓		29	-	↓	↓	750			2550	1800	12	20/1	1	30	WASHER (GUEST LAUNDRY)	(GFCI BREAKER)	EQUIP
EQUIP	WASHER (GUEST LAUNDRY)	(GFCI BREAKER)	31	1	20/1	12	1800	4300			2500	10	30/2	2	32	DRYER (GUEST LAUNDRY)	(GFCI BREAKER)	EQUIP
EQUIP	DRYER (GUEST LAUNDRY)	(GFCI BREAKER)	33	2	30/2	10	2500		5000		2500	↓	↓	-	34	↓		EQUIP
EQUIP	↓		35	-	↓	↓	2500			4300	1800	12	20/1	1	36	WASHER (GUEST LAUNDRY)	(GFCI BREAKER)	EQUIP
EQUIP	WASHER (GUEST LAUNDRY)	(GFCI BREAKER)	37	1	20/1	12	1800	4300			2500	10	30/2	2	38	DRYER (GUEST LAUNDRY)	(GFCI BREAKER)	EQUIP
EQUIP	DRYER (GUEST LAUNDRY)	(GFCI BREAKER)	39	2	30/2	10	2500		5000		2500	↓	↓	-	40	↓		EQUIP
EQUIP	↓		41	-	↓	↓	2500			4300	1800	12	20/1	1	42	WASHER (GUEST LAUNDRY)	(GFCI BREAKER)	EQUIP
EQUIP	WASHER (GUEST LAUNDRY)	(GFCI BREAKER)	43	1	20/1	12	1800	3000			1200	10	30/1	1	44	J-BOX FIRE PLACE		EQUIP
EQUIP	CIRCULATE PUMP CONTROLLER (C.P-4)		45	1	20/1	12	441		1521		1080	12	20/1	1	46	RCPTS - GUEST LAUN.		REC
EQUIP	DRYER (GUEST LAUNDRY)	(GFCI BREAKER)	47	2	30/2	10	2500			2700	200	12	20/1	1	48	RADIO RESPONDERS CONVERAGE SYSTEM 4TH FL.		EQUIP
EQUIP	↓		49	-	↓	↓	2500	2700			200	12	20/1	1	50	RADIO RESPONDERS CONVERAGE SYSTEM 3RD FL.		EQUIP
EQUIP	FACP	(NOTE 2)	51	1	20/1	12	1200		1400		200	12	20/1	1	52	RADIO RESPONDERS CONVERAGE SYSTEM 2ND FL.		EQUIP
EQUIP	CENTRAL CONTROL POINT	(NOTE 2)	53	1	20/1	12	1200			1400	200	12	20/1	1	54	RADIO RESPONDERS CONVERAGE SYSTEM 1ST FL.		EQUIP
EQUIP	FAAP	(NOTE 2)	55	1	20/1	12	1200	1700			500	12	20/1	1	56	FIRE SMOKE DAMPER		EQUIP
EQUIP	RCPTS - FOR MAINTENANCE ENGINEER		57	2	20/1	12	1010		1510		500	12	20/1	1	58	MOTOR DAMPER		EQUIP
EQUIP	↓		59	-	↓	↓	1010			3510	2500	10	30/2	2	60	EUH-2		HTG
EQUIP	RCPTS - FOR MAINTENANCE ENGINEER		61	2	20/1	12	1010	3510			2500	↓	↓	-	62	↓		HTG
EQUIP	↓		63	-	↓	↓	1010		3510		2500	10	30/2	2	64	EUH-2		HTG
EQUIP	EUH-1		65	2	20/2	12	700			3200	2500	↓	↓	-	66	↓		HTG
EQUIP	↓		67	-	↓	↓	700	3200			2500	10	30/2	2	68	EUH-2		HTG
EQUIP	EUH-1		69	2	20/2	12	700		3200		2500	↓	↓	-	70	↓		HTG
EQUIP	↓		71	-	↓	↓	700			3200	2500	10	30/2	2	72	EUH-2		HTG
	SPARE		73	1	20/1			2500			2500	↓	↓	-	74	↓		HTG
			75	1					2500		2500	10	30/2	2	76	EUH-2		HTG
			77	1						2500	2500	↓	↓	-	78	↓		HTG
			79	1				0					20/1	1	80	SPARE		
			81	1					0					1	82			
	↓		83	1	↓					0			↓	1	84	↓		

	CONNECTED LOAD	LOAD CODES	DEMAND LOAD
LTG	0	LTG =125% LIGHTING LOAD: (N/A)	0
REC	1080	REC = RCPTS LOAD (100% FIRST 10kW +50% REMAIN)	1080
EQUIP	79563	EQUIP = EQUIPMENT LOAD	79563
AC	0	AC = HVAC LOAD : (N/A)	0
HTG	25000	HTG = HEATING LOAD	25000
LGR	0	LGR = 125% LARGEST MOTOR : (N/A)	0
KIT	0	KIT = KITCHEN LOAD : (N/A)	0
SUB	0	SUB = SUB PANEL x PF : (N/A)	0
GLTG	0	GLTG = GUESTROOM LIGHTING LOAD: N/A	0
EVCS	0	EVCS = 125% ELECTRIC VEHICLE CHARGING STATION :(N/A)	0
VA	**105643**		**105643**
AMPS	**293**		**293**

A	B	C	
35.65	34.58	35.85	**CONNECTED PHASE (KVA)**
297.09	288.18	298.76	**CONNECTED PHASE (AMPS)**
35.21	34.58	35.85	**DEMAND PHASE (KVA)**
293.42	288.18	298.76	**DEMAND PHASE (AMPS)**

NOTE : 1 - FIELD VERIFICATION BREAKER SIZES, CABLE SIZES, ETC WITH LAUNDRY SUPPLIER PRIOR TO INSTALLATION
2 - PROVIDE FIRE ALARM CIRCUIT BREAKER WITH RED MARKING PER NEC REQUIREMENTS

05/22/24

PROJECT NAME: HIEX,STEAMBOAT SPRINGS, CO
PROJECT NUMBER: 230630
PANEL: **L1.E (FED FROM MDP)** | A.I.C RATING: 30 KA
VOLTAGE: 120/208V, 3PH, 4W | BUS: 125 AMP | MAINS: 125 AMP | MOUNTING: SURFACE MOUNTED
NEMA-1 | COPPER | M.L.O | LOCATION: ELECT. 1ST FLOOR

LOAD TYPE	CIRCUIT DESCRIPTION	NOTES	CKT NO	P	BRKR AMP	WIRE	VOLT AMPS	A	B	C	VOLT AMPS	WIRE	BRKR AMP	P	CKT NO	CIRCUIT DESCRIPTION	NOTES	LOAD TYPE
AC	FCU-1.1		1	2	15/2	12	404	2688			2284	8	45/3	3	2	MCU-1		LGR
AC	↓		3	-	↓	↓	404		2688		2284			-	4			LGR
AC	FCU-1.2		5	2	15/2	12	220			2504	2284	↓	↓	-	6	↓		LGR
AC	↓		7	-	↓	↓	220	2178			1958	8	40/3	3	8	DCU-1		AC
AC	FCU-1.3		9	2	15/2	12	220		2178		1958			-	10			AC
AC	↓		11	-	↓	↓	220			2178	1958	↓	↓	-	12	↓		AC
AC	FCU-1.4		13	2	15/2	12	220	343			122	12	15/2	2	14	FCU- 1		AC
AC	↓		15	-	↓	↓	220		343		122	↓	↓	-	16	↓		AC
AC	FCU-1.5		17	2	15/2	12	220			2239	2019	12	20/2	2	18	CU- 1		AC
AC	↓		19	-	↓	↓	220	2239			2019	↓	↓	-	20	↓		AC
AC	FCU-1.6		21	2	15/2	12	220		343		122	12	15/2	2	22	FCU- 2		AC
AC	↓		23	-	↓	↓	220			343	122	↓	↓	-	24	↓		AC
AC	FCU-1.7		25	2	15/2	12	220	2239			2019	12	20/2	2	26	CU- 2		AC
AC	↓		27	-	↓	↓	220		2239		2019	↓	↓	-	28	↓		AC
AC	FCU-1.8		29	2	15/2	12	404			3649	3245	8	35/2	2	30	AC-1		AC
AC	↓		31	-	↓	↓	404	3649			3245	↓	↓	-	32	↓		AC
AC	FCU-1.9		33	2	15/2	12	404		551		147	12	15/2	2	34	BS-1,2		AC
AC	↓		35	-	↓	↓	404			551	147	↓	↓	-	36	↓		AC
AC	FCU-1.10		37	2	15/2	12	220	220					20/1	1	38	SPARE		
AC	↓		39	-	↓	↓	220		220					1	40			
	SPARE		41	1	20/1					0			↓	1	42	↓		

	CONNECTED LOAD	LOAD CODES	DEMAND LOAD
LTG	0	LTG =125% LIGHTING LOAD: (N/A)	0
REC	0	REC = RCPTS LOAD : (N/A)	0
EQUIP	0	EQUIP = EQUIPMENT LOAD : (N/A)	0
AC	26727	AC = HVAC LOAD	26727
HTG	0	HTG = HEATING LOAD : (N/A)	0
LGR	6852	LGR = 125% LARGEST MOTOR	8565
KIT	0	KIT = KITCHEN LOAD : (N/A)	0
SUB	0	SUB = SUB PANEL x PF : (N/A)	0
GLTG	0	GLTG = GUESTROOM LIGHTING LOAD: N/A	0
EVCS	0	EVCS = 125% ELECTRIC VEHICLE CHARGING STATION :(N/A)	0
VA	**33579**		**35291**
AMPS	**93**		**98**

A	B	C	
13.56	8.56	11.46	**CONNECTED PHASE (KVA)**
112.96	71.34	95.52	**CONNECTED PHASE (AMPS)**
14.13	9.13	12.03	**DEMAND PHASE (KVA)**
117.72	76.10	100.28	**DEMAND PHASE (AMPS)**

NOTE : 1 - FIELD VERIFICATION BREAKER SIZES, CABLE SIZES, ETC WITH MECHANICAL EQUIPMENT SUPPLIER PRIOR TO INSTALLATION

05/22/24

PROJECT NAME: HIEX,STEAMBOAT SPRINGS, CO
PROJECT NUMBER: 230630
PANEL: **L1.F (FED FROM MDP)** | A.I.C RATING: 42 KA
VOLTAGE: 120/208V, 3PH, 4W | BUS: 600AMP | MAINS: 600AMP | MOUNTING: SURFACE MOUNTED
NEMA-1 | COPPER | M.L.O | LOCATION: ELECT. 1ST FLOOR

LOAD TYPE	CIRCUIT DESCRIPTION	NOTES	CKT NO	P	BRKR AMP	WIRE	VOLT AMPS	A	B	C	VOLT AMPS	WIRE	BRKR AMP	P	CKT NO	CIRCUIT DESCRIPTION	NOTES	LOAD TYPE
AC	ACCU-1.1A		1	3	80/3	3	6167	12333			6167	3	80/3	3	2	ACCU-1.2B		AC
AC			3	-			6167		12333		6167			-	4			AC
AC	↓		5	-	↓	↓	6167			12333	6167	↓	↓	-	6	↓		AC
AC	ACCU-1.1B		7	3	80/3	3	6167	12333			6167	3	80/3	3	8	ACCU-1.3A		AC
AC			9	-			6167		12333		6167			-	10			AC
AC	↓		11	-	↓	↓	6167			12333	6167	↓	↓	-	12	↓		AC
AC	ACCU-1.2A		13	3	80/3	3	6167	12333			6167	3	80/3	3	14	ACCU-1.3B		LGR
AC			15	-			6167		12333		6167			-	16			LGR
AC	↓		17	-	↓	↓	6167			12333	6167	↓	↓	-	18	↓		LGR
HTG	EDH-1.1		19	2	60/2	6	3942	5938			1997	10	30/2	3	20	EDH-1.6		HTG
HTG	↓		21	-	↓	↓	3942		5938		1997	↓	↓	-	22	↓		HTG
HTG	EDH-1.2		23	2	30/2	10	1997			3994	1997	10	30/2	3	24	EDH-1.7		HTG
HTG	↓		25	-	↓	↓	1997	3994			1997	↓	↓	-	26	↓		HTG
HTG	EDH-1.3		27	2	30/2	10	1997		5938		3942	6	60/2	3	28	EDH-1.8		HTG
HTG	↓		29	-	↓	↓	1997			5938	3942	↓	↓	-	30	↓		HTG
HTG	EDH-1.4		31	2	30/2	10	1997	5938			3942	6	60/2	3	32	EDH-1.9		HTG
HTG	↓		33	-	↓	↓	1997		5938		3942	↓	↓	-	34	↓		HTG
HTG	EDH-1.5		35	2	30/2	10	1997			3994	1997	10	30/2	3	36	EDH-1.10		HTG
HTG	↓		37	-	↓	↓	1997	3994			1997	↓	↓	-	38	↓		HTG
	SPARE		39	1	20/1				0						40	SPACE ONLY		
	↓		41	1	↓					0					42	↓		

	CONNECTED LOAD	LOAD CODES	DEMAND LOAD
LTG	0	LTG =125% LIGHTING LOAD: (N/A)	0
REC	0	REC = RCPTS LOAD : (N/A)	0
EQUIP	0	EQUIP = EQUIPMENT LOAD : (N/A)	0
AC	92499	AC = HVAC LOAD	92499
HTG	51605	HTG = HEATING LOAD	51605
LGR	18500	LGR = 125% LARGEST MOTOR	23125
KIT	0	KIT = KITCHEN LOAD : (N/A)	0
SUB	0	SUB = SUB PANEL x PF : (N/A)	0
GLTG	0	GLTG = GUESTROOM LIGHTING LOAD: N/A	0
EVCS	0	EVCS = 125% ELECTRIC VEHICLE CHARGING STATION :(N/A)	0
VA	**162603**		**167228**
AMPS	**452**		**465**

A	B	C	
56.86	54.81	50.93	**CONNECTED PHASE (KVA)**
473.86	456.79	424.38	**CONNECTED PHASE (AMPS)**
58.41	56.36	52.47	**DEMAND PHASE (KVA)**
486.71	469.64	437.22	**DEMAND PHASE (AMPS)**

NOTE : 1 - FIELD VERIFICATION BREAKER SIZES, CABLE SIZES, ETC WITH MECHANICAL EQUIPMENT SUPPLIER PRIOR TO INSTALLATION

PROJECT NAME: HIEX,STEAMBOAT SPRINGS, CO
PROJECT NUMBER: 230630
PANEL: **EV1 (FED FROM MDP)** | A.I.C RATING: 42 KA
VOLTAGE: 120/208V, 3PH, 4W | BUS: 600AMP | MAINS: 600AMP | MOUNTING: SURFACE MOUNTED
NEMA-1 | COPPER | M.L.O | LOCATION: ELECT. 1ST FLOOR

LOAD TYPE	CIRCUIT DESCRIPTION	NOTES	CKT NO	P	BRKR AMP	WIRE	VOLT AMPS	A	B	C	VOLT AMPS	WIRE	BRKR AMP	P	CKT NO	CIRCUIT DESCRIPTION	NOTES	LOAD TYPE
EVCS	EV CHARGING STATION		1	2	100/2	1	8300	16600			8300	1	100/2	2	2	EV CHARGING STATION		EVCS
EVCS	↓		3	-	↓	↓	8300		16600		8300	↓	↓	-	4	↓		EVCS
EVCS	EV CHARGING STATION		5	2	100/2	1	8300			16600	8300	1	100/2	2	6	EV CHARGING STATION		EVCS
EVCS	↓		7	-	↓	↓	8300	16600			8300	↓	↓	-	8	↓		EVCS
EVCS	EV CHARGING STATION		9	2	100/2	1	8300		16600		8300	1	100/2	2	10	EV CHARGING STATION		EVCS
EVCS	↓		11	-	↓	↓	8300			16600	8300	↓	↓	-	12	↓		EVCS
	SPACE ONLY		13					0							14	SPACE ONLY		
EVCS	EV CHARGING STATION		15	2	100/2	1	8300		8300						16	↓		
EVCS	↓		17	-	↓	↓	8300			16600	8300	1	100/2	2	18	EV CHARGING STATION		EVCS
	SPARE		19	1	20/1			8300			8300	↓	↓	-	20	↓		EVCS
			21	1					0						22	SPACE ONLY		
			23	1						0					24			
	↓		25	1	↓			0							26			
	SPACE ONLY		27						0						28			
			29							0					30			
			31					0							32			
			33						0						34			
			35							0					36			
			37					0							38			
			39						0						40			
	↓		41							0					42	↓		

	CONNECTED LOAD	LOAD CODES	DEMAND LOAD
LTG	0	LTG =125% LIGHTING LOAD: (N/A)	0
REC	0	REC = RCPTS LOAD : (N/A)	0
EQUIP	0	EQUIP = EQUIPMENT LOAD : (N/A)	0
AC	0	AC = HVAC LOAD : (N/A)	0
HTG	0	HTG = HEATING LOAD : (N/A)	0
LGR	0	LGR = 125% LARGEST MOTOR : (N/A)	0
KIT	0	KIT = KITCHEN LOAD : (N/A)	0
SUB	0	SUB = SUB PANEL x PF : (N/A)	0
GLTG	0	GLTG = GUESTROOM LIGHTING LOAD: N/A	0
EVCS	132800	EVCS = 125% ELECTRIC VEHICLE CHARGING STATION	166000
VA	**132800**		**166000**
AMPS	**369**		**461**

A	B	C	
41.50	41.50	49.80	**CONNECTED PHASE (KVA)**
345.83	345.83	415.00	**CONNECTED PHASE (AMPS)**
51.88	51.88	62.25	**DEMAND PHASE (KVA)**
432.29	432.29	518.75	**DEMAND PHASE (AMPS)**

NOTE : 1 - FIELD VERIFICATION BREAKER SIZES, CABLE SIZES, ETC WITH EVCS SUPPLIER PRIOR TO INSTALLATION

GENERAL NOTES:

1. CONTRACTOR SHALL PROVIDE A PERMANENTLY AFFIXED LABEL. THE LABEL SHALL BE 2" X 3" IN SIZE AND SHALL BE BLUE LETTERING ON A CONTRASTING BACKGROUND. THE FIELD MARKING(S) SHALL INCLUDE THE DATE THE FAULT-CURRENT CALCULATION WAS PERFORMED AND BE OF SUFFICIENT DURABILITY TO WITHSTAND THE ENVIRONMENT INVOLVED. THE CALCULATION SHALL BE DOCUMENTED AND MADE AVAILABLE TO THOSE AUTHORIZED TO DESIGN, INSTALL, INSPECT, MAINTAIN, OR OPERATE THE SYSTEM. (ARTICLE 110.24).
2. CONTRACTOR TO VERIFY FINAL CURRENT VALUES FROM ELECTRICAL UTILITY COMPANY AND PROVIDE AIC PROTECTION ACCORDINGLY.
3. AIC RATINGS OF ALL THE PANELS & BRANCH BREAKERS SHALL MATCH THE FAULT CURRENT OF THE TRANSFORMER.

PROJECT NAME: HIEX,STEAMBOAT SPRINGS, CO
PROJECT NUMBER: 230630
PANEL: **EV2 (FED FROM MDP)** | A.I.C RATING: 42 KA
VOLTAGE: 120/208V, 3PH, 4W | BUS: 600AMP | MAINS: 600AMP | MOUNTING: SURFACE MOUNTED
NEMA-1 | COPPER | M.L.O | LOCATION: ELECT. 1ST FLOOR

LOAD TYPE	CIRCUIT DESCRIPTION	NOTES	CKT NO	P	BRKR AMP	WIRE	VOLT AMPS	A	B	C	VOLT AMPS	WIRE	BRKR AMP	P	CKT NO	CIRCUIT DESCRIPTION	NOTES	LOAD TYPE
EVCS	EV CHARGING STATION		1	2	100/2	1	8300	16600			8300	1	100/2	2	2	EV CHARGING STATION		EVCS
EVCS	↓		3	-	↓	↓	8300		16600		8300	↓	↓	-	4	↓		EVCS
EVCS	EV CHARGING STATION		5	2	100/2	1	8300			16600	8300	1	100/2	2	6	EV CHARGING STATION		EVCS
EVCS	↓		7	-	↓	↓	8300	16600			8300	↓	↓	-	8	↓		EVCS
EVCS	EV CHARGING STATION		9	2	100/2	1	8300		16600		8300	1	100/2	2	10	EV CHARGING STATION		EVCS
EVCS	↓		11	-	↓	↓	8300			16600	8300	↓	↓	-	12	↓		EVCS
	SPACE ONLY		13					0							14	SPACE ONLY		
EVCS	EV CHARGING STATION		15	2	100/2	1	8300		8300						16	↓		
EVCS	↓		17	-	↓	↓	8300			16600	8300	1	100/2	2	18	EV CHARGING STATION		EVCS
	SPARE		19	1	20/1			8300			8300	↓	↓	-	20	↓		EVCS
			21	1					0						22	SPACE ONLY		
			23	1						0					24			
	↓		25	1	↓			0							26			
	SPACE ONLY		27						0						28			
			29							0					30			
			31					0							32			
			33						0						34			
			35							0					36			
			37					0							38			
			39						0						40			
	↓		41							0					42	↓		

	CONNECTED LOAD	LOAD CODES	DEMAND LOAD
LTG	0	LTG =125% LIGHTING LOAD: (N/A)	0
REC	0	REC = RCPTS LOAD : (N/A)	0
EQUIP	0	EQUIP = EQUIPMENT LOAD : (N/A)	0
AC	0	AC = HVAC LOAD : (N/A)	0
HTG	0	HTG = HEATING LOAD : (N/A)	0
LGR	0	LGR = 125% LARGEST MOTOR : (N/A)	0
KIT	0	KIT = KITCHEN LOAD : (N/A)	0
SUB	0	SUB = SUB PANEL x PF : (N/A)	0
GLTG	0	GLTG = GUESTROOM LIGHTING LOAD: N/A	0
EVCS	132800	EVCS = 125% ELECTRIC VEHICLE CHARGING STATION	166000
VA	**132800**		**166000**
AMPS	**369**		**461**

A	B	C	
41.50	41.50	49.80	**CONNECTED PHASE (KVA)**
345.83	345.83	415.00	**CONNECTED PHASE (AMPS)**
51.88	51.88	62.25	**DEMAND PHASE (KVA)**
432.29	432.29	518.75	**DEMAND PHASE (AMPS)**

NOTE : 1 - FIELD VERIFICATION BREAKER SIZES, CABLE SIZES, ETC WITH EVCS SUPPLIER PRIOR TO INSTALLATION

PROJECT NAME: HIEX,STEAMBOAT SPRINGS, CO
PROJECT NUMBER: 230630
PANEL: **PP (FED FROM MDP)** | A.I.C RATING: 22 KA
VOLTAGE: 120/208V, 3PH, 4W | BUS: 225 AMP | MAINS: 225 AMP | MOUNTING: SURFACE MOUNTED
NEMA-1 | COPPER | M.L.O | LOCATION: ELECT. 1ST FLOOR

LOAD TYPE	CIRCUIT DESCRIPTION	NOTES	CKT NO	P	BRKR AMP	WIRE	VOLT AMPS	A	B	C	VOLT AMPS	WIRE	BRKR AMP	P	CKT NO	CIRCUIT DESCRIPTION	NOTES	LOAD TYPE
REC	RCPTS - PANTRY/ BREAKFAST		1	1	20/1	12	900	2400			1500	12	20/1	1	2	PANCAKE MACHINE W/ WINDOW		EQUIP
EQUIP	COMBI OVEN (BY OTHERS)	(GFCI BREAKER)	3	3	25/3	10	1921		2641		720	12	20/1	1	4	SWITCH RECEPTACLE ON CEILING		EQUIP
EQUIP			5	-			1921			2953	1032	12	20/1	1	6	RCPTS - BREAKFAST		EQUIP
EQUIP	↓		7	-	↓	↓	1921	2953			1032	12	20/1	1	8	HOT WATER DISPENSER		EQUIP
EQUIP	REFRIDGERATOR LAD	(GFCI BREAKER)	9	1	20/1	12	648		1680		1032	12	20/1	1	10	RCPTS - BREAKFAST		EQUIP
EQUIP	REFRIDGERATOR LAD	(GFCI BREAKER)	11	1	20/1	12	648			1644	996	12	20/1	1	12	OATMEAL COOKER - BREAKFAST		EQUIP
EQUIP	REFRIDGERATOR LAD	(GFCI BREAKER)	13	1	20/1	12	648	1188			540	12	20/1	1	14	JUICE MACHINE 4 HEAD - BREAKFAST		EQUIP
EQUIP	COMBI OVEN (BY OTHERS)	(GFCI BREAKER)	15	3	25/3	10	1921		2917		996	12	20/1	1	16	OATMEAL COOKER - BREAKFAST		EQUIP
EQUIP			17	-			1921			2917	996	12	20/1	1	18	OATMEAL COOKER - BREAKFAST		EQUIP
EQUIP	↓		19	-	↓	↓	1921	2572			650	12	20/1	1	20	INDUCTION WARMER - BREAKFAST		EQUIP
EQUIP	(022A) - ICE (BASE)	(CLASS A GFCI BREAKER)	21	1	20/1	12	1587		2237		650	12	20/1	1	22	INDUCTION WARMER - BREAKFAST		EQUIP
EQUIP	(026) - WAREWASHER, UNDERCOUNTER	(CLASS A GFCI BREAKER)	23	2	40/2	8	3120			3770	650	12	20/1	1	24	INDUCTION WARMER - BREAKFAST		EQUIP
EQUIP	↓		25	-	↓	↓	3120	3770			650	12	20/1	1	26	INDUCTION WARMER - BREAKFAST		EQUIP
EQUIP	(017) - COFFEE BREWER	(GFCI BREAKER)	27	2	35/2	8	2860		3510		650	12	20/1	1	28	INDUCTION WARMER - BREAKFAST		EQUIP
EQUIP	↓		29	-	↓	↓	2860			3510	650	12	20/1	1	30	INDUCTION WARMER - BREAKFAST		EQUIP
EQUIP	COUNTERTOP REF - BREAKFAST	(GFCI BREAKER)	31	1	20/1	12	252	902			650	12	20/1	1	32	INDUCTION WARMER - BREAKFAST		EQUIP
EQUIP	RCPTS - BREAKFAST		33	1	20/1	12	1200		1200				20/1	1	34	SPARE		
	SPARE		35	1	20/1					960	960	12	20/1	1	36	SWITCHED RECEPTACLE ON CEILING		EQUIP
EQUIP	REFRIDGERATOR LAD	(GFCI BREAKER)	37	1	20/1	12	648	1320			672	12	20/1	1	38	CINNAMON ROLL WARMER - BREAKFAST		EQUIP
EQUIP	REFRIDGERATOR LAD	(GFCI BREAKER)	39	1	20/1	12	648		1800		1152	12	20/1	1	40	2-SLOT TOASTER		EQUIP
EQUIP	REFRIDGERATOR LAD	(GFCI BREAKER)	41	1	20/1	12	648			648			20/1	1	42	SPACE ONLY		
EQUIP	REFRIDGERATOR LAD	(GFCI BREAKER)	43	1	20/1	12	648	648							44			
EQUIP	REFRIDGERATOR LAD	(GFCI BREAKER)	45	1	20/1	12	648		648						46			
	SPARE		47	1	20/1					0					48			
			49	1				0							50			
			51	1					0						52			
			53	1						0					54			
			55	1				0							56			
	↓		57	1	↓				0						58			
	SPACE ONLY		59							0					60			
			61					0							62			
			63						0						64			
	↓		65							0					66	↓		

	CONNECTED LOAD	LOAD CODES	DEMAND LOAD
LTG	0	LTG =125% LIGHTING LOAD: (N/A)	0
REC	900	REC = RCPTS LOAD (100% FIRST 10kW +50% REMAIN)	900
EQUIP	47892	EQUIP = EQUIPMENT LOAD	47892
AC	0	AC = HVAC LOAD : (N/A)	0
HTG	0	HTG = HEATING LOAD : (N/A)	0
LGR	0	LGR = 125% LARGEST MOTOR : (N/A)	0
KIT	0	KIT = KITCHEN LOAD : (N/A)	0
SUB	0	SUB = SUB PANEL x PF : (N/A)	0
GLTG	0	GLTG = GUESTROOM LIGHTING LOAD: N/A	0
EVCS	0	EVCS = 125% ELECTRIC VEHICLE CHARGING STATION :(N/A)	0
VA	**48792**		**48792**
AMPS	**136**		**136**

A	B	C	
15.75	16.63	16.40	**CONNECTED PHASE (KVA)**
131.28	138.62	136.70	**CONNECTED PHASE (AMPS)**
15.75	16.63	16.40	**DEMAND PHASE (KVA)**
131.28	138.62	136.70	**DEMAND PHASE (AMPS)**

NOTE: 1 - FIELD VERIFICATION BREAKER SIZES, CABLE SIZES, ETC OF ALL KITCHEN EQUIPMENT WITH KITCHEN SUPPLIER PRIOR TO INSTALLATION

PROJECT NAME: HIEX,STEAMBOAT SPRINGS, CO
PROJECT NUMBER: 230630
PANEL: **SP (FED FROM MDP)** | A.I.C RATING: 10 KA
VOLTAGE: 120/208V, 3PH, 4W | BUS: 100 AMP | MAINS: 100 AMP | MOUNTING: SURFACE MOUNTED
NEMA-4X | COPPER | M.L.O | LOCATION: POOL EQUIP. RM

LOAD TYPE	CIRCUIT DESCRIPTION	NOTES	CKT NO	P	BRKR AMP	WIRE	VOLT AMPS	A	B	C	VOLT AMPS	WIRE	BRKR AMP	P	CKT NO	CIRCUIT DESCRIPTION	NOTES	LOAD TYPE
LTG	LTG - SWIMMING POOL AREA	(1), (2)	1	1	20/1	12	500	700			200	12	20/1	1	2	LTG - POOL EQUIP / STORAGE	(2)	LTG
REC	RCPTS - POOL EQUIP / STORAGE	(2)	3	1	20/1	12	720		2220		1500	12	20/2	2	4	HOT TUB PUMP	(2)	EQUIP
EQUIP	POOL PUMP	(2)	5	2	25/2	10	1800			3300	1500	↓	↓	-	6	↓	(2)	EQUIP
EQUIP	↓	(2)	7	-	↓	↓	1800	3300			1500	12	20/1	1	8	J-BOX FOR ELECTRIC POOL LIFT	(2)	EQUIP
REC	RCPTS - POOL AREA	(2)	9	1	20/1	12	1260		1460		200	12	20/1	1	10	EF-9	(2)	EQUIP
LTG	LTG - POOL AREA	(1), (2)	11	1	20/1	12	500			700	200	12	20/1	1	12	EF-8	(2)	EQUIP
	SPARE	(2)	13	1	20/1			1500			1500	12	20/2	2	14	HOT TUB PUMP	(2)	EQUIP
LTG	LTG - SPA	(1), (2)	15	1	20/1	12	500		2000		1500	↓	↓	-	16	↓	(2)	EQUIP
	SPARE	(2)	17	1	20/1					0					18	SPACE ONLY		
			19	1				0							20			
			21	1					0						22			
	↓	↓	23	1	↓					0					24	↓		

	CONNECTED LOAD	LOAD CODES	DEMAND LOAD
LTG	1700	LTG =125% LIGHTING LOAD	2125
REC	1980	REC = RCPTS LOAD (100% FIRST 10kW +50% REMAIN)	1980
EQUIP	11500	EQUIP = EQUIPMENT LOAD	11500
AC	0	AC = HVAC LOAD : (N/A)	0
HTG	0	HTG = HEATING LOAD : (N/A)	0
LGR	0	LGR = 125% LARGEST MOTOR : (N/A)	0
KIT	0	KIT = KITCHEN LOAD : (N/A)	0
SUB	0	SUB = SUB PANEL x PF : (N/A)	0
GLTG	0	GLTG = GUESTROOM LIGHTING LOAD: N/A	0
EVCS	0	EVCS = 125% ELECTRIC VEHICLE CHARGING STATION :(N/A)	0
VA	**15180**		**15605**
AMPS	**42**		**43**

A	B	C	
5.50	5.68	4.00	**CONNECTED PHASE (KVA)**
45.83	47.33	33.33	**CONNECTED PHASE (AMPS)**
5.68	5.81	4.13	**DEMAND PHASE (KVA)**
47.29	48.38	34.38	**DEMAND PHASE (AMPS)**

NOTES : 1 - CONTROLLED BY A 20A, 1P, TIME CLOCK WITH 4 HR BATTERIES.
2 - FIELD VERIFICATION BREAKER SIZES, CABLE SIZES, ETC WITH POOL CONTRACTOR PRIOR TO INSTALLATION.
3 - BREAKERS AND BRANCH CIRCUITS WILL BE INSTALLED UNDER THE POOL PERMIT
AND THIS PERMIT COVERS ONLY THE INSTALLATION OF THE PANEL AND GROUND.

PROJECT NAME: HIEX,STEAMBOAT SPRINGS, CO
PROJECT NUMBER: 230630
PANEL: **MDP (FED FROM SERVICE TRANSFORMER)** | A.I.C RATING: 65 KA
VOLTAGE: 120/208V, 3PH, 4W | BUS: 4000 AMP | MAINS: 4000 AMP | MOUNTING: FLOOR MOUNTED
NEMA-1 | COPPER | M.C.B | LOCATION: ELEC. RM. 1ST FLOOR

LOAD TYPE	CIRCUIT DESCRIPTION	NOTES	CKT NO	P	BRKR AMP	WIRE	VOLT AMPS	A	B	C	VOLT AMPS	WIRE	BRKR AMP	P	CKT NO	CIRCUIT DESCRIPTION	NOTES	LOAD TYPE
SUB	PANEL L4.A	(4TH FLOOR)	1	3	150/3	3/0 (AL)	15255	48988			33733	2-4/0 (AL)	350/3	3	2	PANEL L1.A	(1ST FLOOR)	SUB
SUB			3	-			19907		49447		29541			-	4			SUB
SUB	↓		5	-	↓	↓	12015			41668	29652	↓	↓	-	6	↓		SUB
SUB	PANEL L4.B	(4TH FLOOR)	7	3	150/3	3/0 (AL)	13500	20180			6680	2/0 (AL)	125/3	3	8	PANEL L1.B	(1ST FLOOR)	SUB
SUB			9	-			20340		26643		6303			-	10			SUB
SUB	↓		11	-	↓	↓	12960			19844	6884	↓	↓	-	12	↓		SUB
SUB	PANEL L4.C	(4TH FLOOR)	13	3	300/3	500 (AL)	30763	52342			21580	300 (AL)	225/3	3	14	PANEL L1.C	(1ST FLOOR)	SUB
SUB			15	-			30763		51107		20345			-	16			SUB
SUB	↓		17	-	↓	↓	24350			45347	20997	↓	↓	-	18	↓		SUB
SUB	PANEL L3.A	(3RD FLOOR)	19	3	150/3	3/0 (AL)	13612	48822			35210	2-250 (AL)	400/3	3	20	PANEL L1.D	(1ST FLOOR)	SUB
SUB			21	-			18572		53154		34582			-	22			SUB
SUB	↓		23	-	↓	↓	10560			46411	35851	↓	↓	-	24	↓		SUB
SUB	PANEL L3.B	(3RD FLOOR)	25	3	125/3	2/0 (AL)	10500	24626			14126	2/0 (AL)	125/3	3	26	PANEL L1.E	(1ST FLOOR)	SUB
SUB			27	-			16340		25472		9132			-	28			SUB
SUB	↓		29	-	↓	↓	8960			20994	12034	↓	↓	-	30	↓		SUB
SUB	PANEL L3.C	(3RD FLOOR)	31	3	300/3	500 (AL)	30763	46517			15754	300 (AL)	225/3	3	32	PANEL PP	(1ST FLOOR)	SUB
SUB			33	-			30763		47397		16635			-	34			SUB
SUB	↓		35	-	↓	↓	23750			40154	16404	↓	↓	-	36	↓		SUB
SUB	PANEL L2.A	(2ND FLOOR)	37	3	150/3	3/0 (AL)	14692	20367			5675	1/0 (AL)	100/3	3	38	PANEL SP	(1ST FLOOR)	SUB
SUB			39	-			17212		23017		5805			-	40			SUB
SUB	↓		41	-	↓	↓	10840			14965	4125	↓	↓	-	42	↓		SUB
SUB	PANEL L2.B	(2ND FLOOR)	43	3	150/3	3/0 (AL)	11550	63425			51875	2-500 (AL)	600/3	3	44	PANEL EV1	(1ST FLOOR)	SUB
SUB			45	-			16690		68565		51875			-	46			SUB
SUB	↓		47	-	↓	↓	9760			72010	62250	↓	↓	-	48	↓		SUB
SUB	PANEL L2.C	(2ND FLOOR)	49	3	300/3	500 (AL)	30836	52593			21757	4/0 (AL)	175/3	3	50	DOAS-1	(4ND FLOOR)	LGR
SUB			51	-			30836		52593		21757			-	52			LGR
SUB	↓		53	-	↓	↓	25000			46757	21757	↓	↓	-	54	↓		LGR
EQUIP	ELEVATOR #1	(SHUNT TRIP BREAKER)	55	3	60/3	4	4412	15149			10737	2 (AL)	80/3	3	56	DU-1	(1ST FLOOR)	AC
EQUIP			57	-			4412		15149		10737			-	58			AC
EQUIP	↓		59	-	↓	↓	4412			15149	10737	↓	↓	-	60	↓		AC
EQUIP	ELEVATOR #2	(SHUNT TRIP BREAKER)	61	3	60/3	4	4412	56287			51875	2-500 (AL)	600/3	3	62	PANEL EV2	(1ST FLOOR)	SUB
EQUIP			63	-			4412		56287		51875			-	64			SUB
EQUIP	↓		65	-	↓	↓	4412			66662	62250	↓	↓	-	66	↓		SUB
	SURGE PROTECTIVE DEVICE IN "MDP"		67	3	60/3	6		58405			58405	2-500 (AL)	600/3	3	68	PANEL L1.F	(1ST FLOOR)	SUB
			69	-					56356		56356			-	70			SUB
	↓		71	-	↓	↓				52467	52467	↓	↓	-	72	↓		SUB
	SPACE ONLY		73					0							74	SPACE ONLY		
			75						0						76			
	↓		77							0					78	↓		

05/22/24 (PANEL L1.E, circuits 26–30) · 05/22/24 (PANEL L1.F, circuits 68–72)

NEC ART. 220 LOAD CATEGORY	CONNECTED LOAD (KVA)	x	NEC ART. 220 FEEDER SIZING FACTOR	=	NEC ART. 220 FEEDER SIZING LOAD (KVA)
1 - GENERAL LIGHTING	19.5		1.25		24.4
2 - STAFF ROOM /W KITCHENETTE LOAD	181.0		0.43		77.8
3 - GUEST ROOM UNIT LOAD					
3.1 - LIGHTING & RECEPTACLES	62.6		First 20kVA@60%+50% REMAINING		33.3
3.2 - VANITY RCPTS	16.6		1		16.6
3.3 - A/C LOAD	230.0		1		230.0
3.4 - REFRIG/MICO	119.6		1		119.6
3 - HOUSE LOAD					
3.1 - DRYER 3@1.5KVA & 6@5KVA	34.5		1		34.5
3.2 - WASHER 3@6KVA & 6@1.8KVA	33.9		1		33.9
3.3 - SERVICE EQUIPMENT	100.4		0.65		65.3
3.4 - VENDING/ ICE MACHINE	9.0		1		9.0
3.5 - ELECTRIC CHARGING STATION 8x33KVA@125%	264.0		1.25		330.0
3.6 - MISCELLANEOUS (FIRE ALARM, DOOR MOTOR, ELV, ETC..)	13.2		1		13.2
4 - RECEPTACLES	41.6		First 10kVA+50%		25.8
5 - MECHANICAL LOAD					
5.1 - FANS	4.0		1		4.0
5.2 - AHU'S (HEATING)/COOLING	293.0		1		293.0
5.3 - ELEVATOR 2@15HP (2@13.24KVA) @ 100%	26.5		1		26.5
5.4 - PUMPS	12.6		1		12.6
5.5 - LARGEST MOTOR (DOAS-1) 55.4KVA @ 125%	65.3		1.25		81.6
				FEEDER SIZING LOAD:	1431 KVA / 3972 AMPS

NOTES : 1 - SWITCHBOARD IS "FULLY" RATED TO INCLUDE 65K AIC BREAKER
2 - SEE ONE-LINE DIAGRAM FOR COMPLETE FEEDER SIZES
3 - FIELD VERIFY HP PRIOR TO INSTALLING BRKR, CONDUIT,WIRE, ETC.
4 - PANELS WITH BREAKERS 1200A AND OVER REQUIRE ARC FLASH REDUCTION PER NEC 240.87
5 - CONTRACTOR WILL PROVIDE PANEL WITH ENERGY REDUCING MAINTENANCE SWITCH

PANEL INDEX	
L1.D	EV2
L1.E	SP
L1.F	PP
EV1	MDP

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MEP GREEN DESIGN & BUILD
FAST AND ACCURATE

MAY 22, 2024
COLORADO REGISTERED DUNG D. VU 51953 PROFESSIONAL ENGINEER

Holiday Inn Express
3350 S. LINCOLN AVE
STEAMBOAT SPRINGS, CO 80487

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DRAWING ISSUE DATES:
8/18/23 Permit Set

REVISION DATES:
10/19/23 Staff/GM Toilets, Permit Revisions
11/29/23 Mt. Werner Revisions
02/15/24 Pool Removal, Guest Room Addition
03/05/24 Updated plans
05/14/24 Updated plans
05/22/24 Updated per Submittal

PROJECT MANAGER: DV
DRAWN BY: PL
SHEET TITLE: ELECTRICAL PANEL SCHEDULE

E6.2

SHEET: 133 OF 142

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ASI #2 5/28/24

PROJECT NAME: HIEX,STEAMBOAT SPRINGS, CO
PROJECT NUMBER: 230630
PANEL: L1.D (FED FROM MDP) — A.I.C RATING: 22 KA
VOLTAGE: 120/208V, 3PH, 4W — BUS: 400 AMP — MAINS: 400 AMP — MOUNTING: SURFACE MOUNTED
NEMA-1 — COPPER — M.L.O — LOCATION: ELECT. 1ST FLOOR

LOAD TYPE	CIRCUIT DESCRIPTION	NOTES	CKT NO	P	BRKR AMP	WIRE	VOLT AMPS	A	B	C	VOLT AMPS	WIRE	BRKR AMP	P	CKT NO	CIRCUIT DESCRIPTION	NOTES	LOAD TYPE
EQUIP	WASHER	(GFCI BREAKER)	1	3	20/3	12	1978	1978					20/1	1	2	SPARE		
EQUIP			3	-			1978		1978					1	4			
EQUIP	↓		5	-	↓	↓	1978			1978				1	6			
EQUIP	WASHER	(GFCI BREAKER)	7	3	20/3	12	1681	1681					↓	1	8	↓		
EQUIP			9	-			1681		2181		500	12	20/1	1	10	WATER HEATER		EQUIP
EQUIP	↓		11	-	↓	↓	1681			2181	500	12	20/1	1	12	WATER HEATER		EQUIP
EQUIP	WASHER	(GFCI BREAKER)	13	3	20/3	12	1681	1681					20/1	3	14	SPARE		EQUIP
EQUIP			15	-			1681		1681					-	16			
EQUIP	↓		17	-	↓	↓	1681			1681			↓	-	18	↓		
EQUIP	DRYER (GAS HEAT)	(CLASS A GFCI BREAKER)	19	3	15/3	12	1441	1816			375	12	20/1	1	20	CIRCULATE PUMP CONTROLLER (C.P-1)		
EQUIP			21	-			1441		1816		375	12	20/1	1	22	CIRCULATE PUMP CONTROLLER (C.P-2)		EQUIP
EQUIP	↓		23	-	↓	↓	1441			1816	375	12	20/1	1	24	CIRCULATE PUMP CONTROLLER (C.P-3)		EQUIP
EQUIP	DRYER (GAS HEAT)	(CLASS A GFCI BREAKER)	25	3	15/3	12	1441	3941			2500	10	30/2	2	26	DRYER (GUEST LAUNDRY)	(CLASS A GFCI BREAKER)	EQUIP
EQUIP			27	-			1441		3941		2500	↓	↓	-	28	↓		EQUIP
EQUIP	↓		29	-	↓	↓	1441			3241	1800	12	20/1	1	30	WASHER (GUEST LAUNDRY)	(GFCI BREAKER)	EQUIP
EQUIP	WASHER (GUEST LAUNDRY)	(GFCI BREAKER)	31	1	20/1	12	1800	4300			2500	10	30/2	2	32	DRYER (GUEST LAUNDRY)	(CLASS A GFCI BREAKER)	EQUIP
EQUIP	DRYER (GUEST LAUNDRY)	(CLASS A GFCI BREAKER)	33	2	30/2	10	2500		5000		2500	↓	↓	-	34	↓		EQUIP
EQUIP	↓		35	-	↓	↓	2500			4300	1800	12	20/1	1	36	WASHER (GUEST LAUNDRY)	(GFCI BREAKER)	EQUIP
EQUIP	WASHER (GUEST LAUNDRY)	(GFCI BREAKER)	37	1	20/1	12	1800	4300			2500	10	30/2	2	38	DRYER (GUEST LAUNDRY)	(CLASS A GFCI BREAKER)	EQUIP
EQUIP	DRYER (GUEST LAUNDRY)	(CLASS A GFCI BREAKER)	39	2	30/2	10	2500		5000		2500	↓	↓	-	40	↓		EQUIP
EQUIP	↓		41	-	↓	↓	2500			4300	1800	12	20/1	1	42	WASHER (GUEST LAUNDRY)	(GFCI BREAKER)	EQUIP
EQUIP	WASHER (GUEST LAUNDRY)	(GFCI BREAKER)	43	1	20/1	12	1800	2800			1000	10	30/1	1	44	J-BOX FIRE PLACE		EQUIP
EQUIP	CIRCULATE PUMP CONTROLLER (C.P-4)		45	1	20/1	12	441		1521		1080	12	20/1	1	46	RCPTS - GUEST LAUN.		REC
EQUIP	DRYER (GUEST LAUNDRY)	(CLASS A GFCI BREAKER)	47	2	30/2	10	2500			2700	200	12	20/1	1	48	RADIO RESPONDERS CONVERAGE SYSTEM 4TH FL.		EQUIP
EQUIP	↓		49	-	↓	↓	2500	2700			200	12	20/1	1	50	RADIO RESPONDERS CONVERAGE SYSTEM 3RD FL.		EQUIP
EQUIP	FACP	(NOTE 2)	51	1	20/1	12	1000		1200		200	12	20/1	1	52	RADIO RESPONDERS CONVERAGE SYSTEM 2ND FL.		EQUIP
EQUIP	CENTRAL CONTROL POINT	(NOTE 2)	53	1	20/1	12	1000			1200	200	12	20/1	1	54	RADIO RESPONDERS CONVERAGE SYSTEM 1ST FL.		EQUIP
EQUIP	FAAP	(NOTE 2)	55	1	20/1	12	1000	1500			500	12	20/1	1	56	FIRE SMOKE DAMPER		EQUIP
EQUIP	RCPTS - FOR MAINTENANCE ENGINEER		57	2	20/2	12	1010		1510		500	12	20/1	1	58	MOTOR DAMPER		EQUIP
EQUIP	↓		59	-	↓	↓	1010			3510	2500	10	30/2	2	60	EUH-2		HTG
EQUIP	RCPTS - FOR MAINTENANCE ENGINEER		61	2	20/2	12	1010	3510			2500	↓	↓	-	62	↓		HTG
EQUIP	↓		63	-	↓	↓	1010		3510		2500	10	30/2	2	64	EUH-2		HTG
EQUIP	EUH-1		65	2	20/2	12	700			3200	2500	↓	↓	-	66	↓		HTG
EQUIP	↓		67	-	↓	↓	700	3200			2500	10	30/2	2	68	EUH-2		HTG
EQUIP	EUH-1		69	2	20/2	12	700		3200		2500	↓	↓	-	70	↓		HTG
EQUIP	↓		71	-	↓	↓	700			3200	2500	10	30/2	2	72	EUH-2		HTG
EQUIP	DRYER (GAS HEAT)	(CLASS A GFCI BREAKER)	73	3	15/3	12	1441	3941			2500	↓	↓	-	74	↓		HTG
EQUIP			75	-			1441		3941		2500	10	30/2	2	76	EUH-2		HTG
EQUIP	↓		77	-	↓	↓	1441			3941	2500	↓	↓	-	78	↓		HTG
	SPACE ONLY		79					2500			2500	10	30/2	1	80	EUH-2		HTG
			81						2500		2500	↓	↓	1	82	↓		HTG
	↓		83							0					84	SPACE ONLY		

	CONNECTED LOAD	LOAD CODES	DEMAND LOAD
LTG	0	LTG =125% LIGHTING LOAD: (N/A)	0
REC	1080	REC = RCPTS LOAD (100% FIRST 10kW +50% REMAIN)	1080
EQUIP	84621	EQUIP = EQUIPMENT LOAD	84621
AC	0	AC = HVAC LOAD : (N/A)	0
HTG	30000	HTG = HEATING LOAD	30000
LGR	0	LGR = 125% LARGEST MOTOR : (N/A)	0
KIT	0	KIT = KITCHEN LOAD : (N/A)	0
SUB	0	SUB = SUB PANEL x PF : (N/A)	0
GLTG	0	GLTG = GUESTROOM LIGHTING LOAD: N/A	0
EVCS	0	EVCS = 125% ELECTRIC VEHICLE CHARGING STATION :(N/A)	0
VA	115701		115701
AMPS	321		321

A	B	C	
39.85	38.98	37.25	CONNECTED PHASE (KVA)
332.07	324.83	310.40	CONNECTED PHASE (AMPS)
39.47	38.98	37.25	DEMAND PHASE (KVA)
328.94	324.83	310.40	DEMAND PHASE (AMPS)

NOTE : 1 - FIELD VERIFICATION BREAKER SIZES, BREAKER TYPES, CABLE SIZES, ETC WITH LAUNDRY SUPPLIER/ MANUFACTURER & CODES REQUIREMENTS PRIOR TO INSTALLATION
2 - PROVIDE FIRE ALARM CIRCUIT BREAKER WITH RED MARKING PER NEC REQUIREMENTS

PROJECT NAME: HIEX,STEAMBOAT SPRINGS, CO
PROJECT NUMBER: 230630
PANEL: L1.E (FED FROM MDP) — A.I.C RATING: 30 KA
VOLTAGE: 120/208V, 3PH, 4W — BUS: 125 AMP — MAINS: 125 AMP — MOUNTING: SURFACE MOUNTED
NEMA-1 — COPPER — M.L.O — LOCATION: ELECT. 1ST FLOOR

LOAD TYPE	CIRCUIT DESCRIPTION	NOTES	CKT NO	P	BRKR AMP	WIRE	VOLT AMPS	A	B	C	VOLT AMPS	WIRE	BRKR AMP	P	CKT NO	CIRCUIT DESCRIPTION	NOTES	LOAD TYPE
AC	FCU-1.1		1	2	15/2	12	404	2688			2284	8	45/3	3	2	MCU-1		LGR
AC	↓		3	-	↓	↓	404		2688		2284			-	4			LGR
AC	FCU-1.2		5	2	15/2	12	220			2504	2284	↓	↓	-	6	↓		LGR
AC	↓		7	-	↓	↓	220	2178			1958	8	40/3	3	8	DCU-1		AC
AC	FCU-1.3		9	2	15/2	12	220		2178		1958			-	10			AC
AC	↓		11	-	↓	↓	220			2178	1958	↓	↓	-	12	↓		AC
AC	FCU-1.4		13	2	15/2	12	220	343			122	12	15/2	2	14	FCU- 1		AC
AC	↓		15	-	↓	↓	220		343		122	↓	↓	-	16	↓		AC
AC	FCU-1.5		17	2	15/2	12	220			2239	2019	12	20/2	2	18	CU- 1		AC
AC	↓		19	-	↓	↓	220	2239			2019	↓	↓	-	20	↓		AC
AC	FCU-1.6		21	2	15/2	12	220		343		122	12	15/2	2	22	FCU- 2		AC
AC	↓		23	-	↓	↓	220			343	122	↓	↓	-	24	↓		AC
AC	FCU-1.7		25	2	15/2	12	220	2239			2019	12	20/2	2	26	CU- 2		AC
AC	↓		27	-	↓	↓	220		2239		2019	↓	↓	-	28	↓		AC
AC	FCU-1.8		29	2	15/2	12	404			3649	3245	8	35/2	2	30	AC-1		AC
AC	↓		31	-	↓	↓	404	3649			3245	↓	↓	-	32	↓		AC
AC	FCU-1.9		33	2	15/2	12	404		551		147	12	15/2	2	34	BS-1,2		AC
AC	↓		35	-	↓	↓	404			551	147	↓	↓	-	36	↓		AC
AC	FCU-1.10		37	2	15/2	12	220	220					20/1	1	38	SPARE		
AC	↓		39	-	↓	↓	220		220					1	40			
	SPARE		41	1	20/1					0			↓	1	42	↓		

	CONNECTED LOAD	LOAD CODES	DEMAND LOAD
LTG	0	LTG =125% LIGHTING LOAD: (N/A)	0
REC	0	REC = RCPTS LOAD : (N/A)	0
EQUIP	0	EQUIP = EQUIPMENT LOAD : (N/A)	0
AC	26727	AC = HVAC LOAD	26727
HTG	0	HTG = HEATING LOAD : (N/A)	0
LGR	6852	LGR = 125% LARGEST MOTOR	8565
KIT	0	KIT = KITCHEN LOAD : (N/A)	0
SUB	0	SUB = SUB PANEL x PF : (N/A)	0
GLTG	0	GLTG = GUESTROOM LIGHTING LOAD: N/A	0
EVCS	0	EVCS = 125% ELECTRIC VEHICLE CHARGING STATION :(N/A)	0
VA	33579		35291
AMPS	93		98

A	B	C	
13.56	8.56	11.46	CONNECTED PHASE (KVA)
112.96	71.34	95.52	CONNECTED PHASE (AMPS)
14.13	9.13	12.03	DEMAND PHASE (KVA)
117.72	76.10	100.28	DEMAND PHASE (AMPS)

NOTE : 1 - FIELD VERIFICATION BREAKER SIZES, CABLE SIZES, ETC WITH MECHANICAL EQUIPMENT SUPPLIER PRIOR TO INSTALLATION

PROJECT NAME: HIEX,STEAMBOAT SPRINGS, CO
PROJECT NUMBER: 230630
PANEL: L1.F (FED FROM MDP) — A.I.C RATING: 42 KA
VOLTAGE: 120/208V, 3PH, 4W — BUS: 600AMP — MAINS: 600AMP — MOUNTING: SURFACE MOUNTED
NEMA-1 — COPPER — M.L.O — LOCATION: ELECT. 1ST FLOOR

LOAD TYPE	CIRCUIT DESCRIPTION	NOTES	CKT NO	P	BRKR AMP	WIRE	VOLT AMPS	A	B	C	VOLT AMPS	WIRE	BRKR AMP	P	CKT NO	CIRCUIT DESCRIPTION	NOTES	LOAD TYPE
AC	ACCU-1.1A		1	3	80/3	3	6167	12333			6167	3	80/3	3	2	ACCU-1.2B		AC
AC			3	-			6167		12333		6167			-	4			AC
AC	↓		5	-	↓	↓	6167			12333	6167	↓	↓	-	6	↓		AC
AC	ACCU-1.1B		7	3	80/3	3	6167	12333			6167	3	80/3	3	8	ACCU-1.3A		AC
AC			9	-			6167		12333		6167			-	10			AC
AC	↓		11	-	↓	↓	6167			12333	6167	↓	↓	-	12	↓		AC
AC	ACCU-1.2A		13	3	80/3	3	6167	12333			6167	3	80/3	3	14	ACCU-1.3B		LGR
AC			15	-			6167		12333		6167			-	16			LGR
AC	↓		17	-	↓	↓	6167			12333	6167	↓	↓	-	18	↓		LGR
HTG	EDH-1.1		19	2	60/2	6	3942	5938			1997	10	30/2	3	20	EDH-1.6		HTG
HTG	↓		21	-	↓	↓	3942		5938		1997	↓	↓	-	22	↓		HTG
HTG	EDH-1.2		23	2	30/2	10	1997			3994	1997	10	30/2	3	24	EDH-1.7		HTG
HTG	↓		25	-	↓	↓	1997	3994			1997	↓	↓	-	26	↓		HTG
HTG	EDH-1.3		27	2	30/2	10	1997		5938		3942	6	60/2	3	28	EDH-1.8		HTG
HTG	↓		29	-	↓	↓	1997			5938	3942	↓	↓	-	30	↓		HTG
HTG	EDH-1.4		31	2	30/2	10	1997	5938			3942	6	60/2	3	32	EDH-1.9		HTG
HTG	↓		33	-	↓	↓	1997		5938		3942	↓	↓	-	34	↓		HTG
HTG	EDH-1.5		35	2	30/2	10	1997			3994	1997	10	30/2	3	36	EDH-1.10		HTG
HTG	↓		37	-	↓	↓	1997	3994			1997	↓	↓	-	38	↓		HTG
	SPARE		39	1	20/1				0						40	SPACE ONLY		
	↓		41	1	↓					0					42	↓		

	CONNECTED LOAD	LOAD CODES	DEMAND LOAD
LTG	0	LTG =125% LIGHTING LOAD: (N/A)	0
REC	0	REC = RCPTS LOAD : (N/A)	0
EQUIP	0	EQUIP = EQUIPMENT LOAD : (N/A)	0
AC	92499	AC = HVAC LOAD	92499
HTG	51605	HTG = HEATING LOAD	51605
LGR	18500	LGR = 125% LARGEST MOTOR	23125
KIT	0	KIT = KITCHEN LOAD : (N/A)	0
SUB	0	SUB = SUB PANEL x PF : (N/A)	0
GLTG	0	GLTG = GUESTROOM LIGHTING LOAD: N/A	0
EVCS	0	EVCS = 125% ELECTRIC VEHICLE CHARGING STATION :(N/A)	0
VA	162603		167228
AMPS	452		465

A	B	C	
56.86	54.81	50.93	CONNECTED PHASE (KVA)
473.86	456.79	424.38	CONNECTED PHASE (AMPS)
58.41	56.36	52.47	DEMAND PHASE (KVA)
486.71	469.64	437.22	DEMAND PHASE (AMPS)

NOTE : 1 - FIELD VERIFICATION BREAKER SIZES, CABLE SIZES, ETC WITH MECHANICAL EQUIPMENT SUPPLIER PRIOR TO INSTALLATION

PROJECT NAME: HIEX,STEAMBOAT SPRINGS, CO
PROJECT NUMBER: 230630
PANEL: EV1 (FED FROM MDP) — A.I.C RATING: 42 KA
VOLTAGE: 120/208V, 3PH, 4W — BUS: 600AMP — MAINS: 600AMP — MOUNTING: SURFACE MOUNTED
NEMA-1 — COPPER — M.L.O — LOCATION: ELECT. 1ST FLOOR

LOAD TYPE	CIRCUIT DESCRIPTION	NOTES	CKT NO	P	BRKR AMP	WIRE	VOLT AMPS	A	B	C	VOLT AMPS	WIRE	BRKR AMP	P	CKT NO	CIRCUIT DESCRIPTION	NOTES	LOAD TYPE
EVCS	EV CHARGING STATION		1	2	100/2	1	8300	16600			8300	1	100/2	2	2	EV CHARGING STATION		EVCS
EVCS	↓		3	-	↓	↓	8300		16600		8300	↓	↓	-	4	↓		EVCS
EVCS	EV CHARGING STATION		5	2	100/2	1	8300			16600	8300	1	100/2	2	6	EV CHARGING STATION		EVCS
EVCS	↓		7	-	↓	↓	8300	16600			8300	↓	↓	-	8	↓		EVCS
EVCS	EV CHARGING STATION		9	2	100/2	1	8300		16600		8300	1	100/2	2	10	EV CHARGING STATION		EVCS
EVCS	↓		11	-	↓	↓	8300			16600	8300	↓	↓	-	12	↓		EVCS
	SPACE ONLY		13					0							14	SPACE ONLY		
EVCS	EV CHARGING STATION		15	2	100/2	1	8300		8300						16	↓		
EVCS	↓		17	-	↓	↓	8300			16600	8300	1	100/2	2	18	EV CHARGING STATION		EVCS
	SPARE		19	1	20/1			8300			8300	↓	↓	-	20	↓		EVCS
			21	1					0						22	SPACE ONLY		
			23	1						0					24			
	↓		25	1	↓			0							26			
	SPACE ONLY		27						0						28			
			29							0					30			
			31					0							32			
			33						0						34			
			35							0					36			
			37					0							38			
			39						0						40			
	↓		41							0					42	↓		

	CONNECTED LOAD	LOAD CODES	DEMAND LOAD
LTG	0	LTG =125% LIGHTING LOAD: (N/A)	0
REC	0	REC = RCPTS LOAD : (N/A)	0
EQUIP	0	EQUIP = EQUIPMENT LOAD : (N/A)	0
AC	0	AC = HVAC LOAD : (N/A)	0
HTG	0	HTG = HEATING LOAD : (N/A)	0
LGR	0	LGR = 125% LARGEST MOTOR : (N/A)	0
KIT	0	KIT = KITCHEN LOAD : (N/A)	0
SUB	0	SUB = SUB PANEL x PF : (N/A)	0
GLTG	0	GLTG = GUESTROOM LIGHTING LOAD: N/A	0
EVCS	132800	EVCS = 125% ELECTRIC VEHICLE CHARGING STATION	166000
VA	132800		166000
AMPS	369		461

A	B	C	
41.50	41.50	49.80	CONNECTED PHASE (KVA)
345.83	345.83	415.00	CONNECTED PHASE (AMPS)
51.88	51.88	62.25	DEMAND PHASE (KVA)
432.29	432.29	518.75	DEMAND PHASE (AMPS)

NOTE : 1 - FIELD VERIFICATION BREAKER SIZES, CABLE SIZES, ETC WITH EVCS SUPPLIER PRIOR TO INSTALLATION

GENERAL NOTES:

1. CONTRACTOR SHALL PROVIDE A PERMANENTLY AFFIXED LABEL. THE LABEL SHALL BE 2" X 3" IN SIZE AND SHALL BE BLUE LETTERING ON A CONTRASTING BACKGROUND. THE FIELD MARKING(S) SHALL INCLUDE THE DATE THE FAULT–CURRENT CALCULATION WAS PERFORMED AND BE OF SUFFICIENT DURABILITY TO WITHSTAND THE ENVIRONMENT INVOLVED. THE CALCULATION SHALL BE DOCUMENTED AND MADE AVAILABLE TO THOSE AUTHORIZED TO DESIGN, INSTALL, INSPECT, MAINTAIN, OR OPERATE THE SYSTEM. (ARTICLE 110.24).
2. CONTRACTOR TO VERIFY FINAL CURRENT VALUES FROM ELECTRICAL UTILITY COMPANY AND PROVIDE AIC PROTECTION ACCORDINGLY.
3. AIC RATINGS OF ALL THE PANELS & BRANCH BREAKERS SHALL MATCH THE FAULT CURRENT OF THE TRANSFORMER.

PROJECT NAME: HIEX,STEAMBOAT SPRINGS, CO
PROJECT NUMBER: 230630
PANEL: EV2 (FED FROM MDP) — A.I.C RATING: 42 KA
VOLTAGE: 120/208V, 3PH, 4W — BUS: 600AMP — MAINS: 600AMP — MOUNTING: SURFACE MOUNTED
NEMA-1 — COPPER — M.L.O — LOCATION: ELECT. 1ST FLOOR

LOAD TYPE	CIRCUIT DESCRIPTION	NOTES	CKT NO	P	BRKR AMP	WIRE	VOLT AMPS	A	B	C	VOLT AMPS	WIRE	BRKR AMP	P	CKT NO	CIRCUIT DESCRIPTION	NOTES	LOAD TYPE
EVCS	EV CHARGING STATION		1	2	100/2	1	8300	16600			8300	1	100/2	2	2	EV CHARGING STATION		EVCS
EVCS	↓		3	-	↓	↓	8300		16600		8300	↓	↓	-	4	↓		EVCS
EVCS	EV CHARGING STATION		5	2	100/2	1	8300			16600	8300	1	100/2	2	6	EV CHARGING STATION		EVCS
EVCS	↓		7	-	↓	↓	8300	16600			8300	↓	↓	-	8	↓		EVCS
EVCS	EV CHARGING STATION		9	2	100/2	1	8300		16600		8300	1	100/2	2	10	EV CHARGING STATION		EVCS
EVCS	↓		11	-	↓	↓	8300			16600	8300	↓	↓	-	12	↓		EVCS
	SPACE ONLY		13					0							14	SPACE ONLY		
EVCS	EV CHARGING STATION		15	2	100/2	1	8300		8300						16	↓		
EVCS	↓		17	-	↓	↓	8300			16600	8300	1	100/2	2	18	EV CHARGING STATION		EVCS
	SPARE		19	1	20/1			8300			8300	↓	↓	-	20	↓		EVCS
			21	1					0						22	SPACE ONLY		
			23	1						0					24			
	↓		25	1	↓			0							26			
	SPACE ONLY		27						0						28			
			29							0					30			
			31					0							32			
			33						0						34			
			35							0					36			
			37					0							38			
			39						0						40			
	↓		41							0					42	↓		

	CONNECTED LOAD	LOAD CODES	DEMAND LOAD
LTG	0	LTG =125% LIGHTING LOAD: (N/A)	0
REC	0	REC = RCPTS LOAD : (N/A)	0
EQUIP	0	EQUIP = EQUIPMENT LOAD : (N/A)	0
AC	0	AC = HVAC LOAD : (N/A)	0
HTG	0	HTG = HEATING LOAD : (N/A)	0
LGR	0	LGR = 125% LARGEST MOTOR : (N/A)	0
KIT	0	KIT = KITCHEN LOAD : (N/A)	0
SUB	0	SUB = SUB PANEL x PF : (N/A)	0
GLTG	0	GLTG = GUESTROOM LIGHTING LOAD: N/A	0
EVCS	132800	EVCS = 125% ELECTRIC VEHICLE CHARGING STATION	166000
VA	132800		166000
AMPS	369		461

A	B	C	
41.50	41.50	49.80	CONNECTED PHASE (KVA)
345.83	345.83	415.00	CONNECTED PHASE (AMPS)
51.88	51.88	62.25	DEMAND PHASE (KVA)
432.29	432.29	518.75	DEMAND PHASE (AMPS)

NOTE : 1 - FIELD VERIFICATION BREAKER SIZES, CABLE SIZES, ETC WITH EVCS SUPPLIER PRIOR TO INSTALLATION

PROJECT NAME: HIEX,STEAMBOAT SPRINGS, CO
PROJECT NUMBER: 230630
PANEL: PP (FED FROM MDP) — A.I.C RATING: 22 KA
VOLTAGE: 120/208V, 3PH, 4W — BUS: 225 AMP — MAINS: 225 AMP — MOUNTING: SURFACE MOUNTED
NEMA-1 — COPPER — M.L.O — LOCATION: ELECT. 1ST FLOOR

LOAD TYPE	CIRCUIT DESCRIPTION	NOTES	CKT NO	P	BRKR AMP	WIRE	VOLT AMPS	A	B	C	VOLT AMPS	WIRE	BRKR AMP	P	CKT NO	CIRCUIT DESCRIPTION	NOTES	LOAD TYPE
REC	RCPTS - PANTRY/ BREAKFAST		1	1	20/1	12	900	2400			1500	12	20/1	1	2	PANCAKE MACHINE W/ WINDOW		EQUIP
EQUIP	COMBI OVEN (BY OTHERS)	(GFCI BREAKER)	3	3	25/3	10	1921		2641		720	12	20/1	1	4	SWITCH RECEPTACLE ON CEILING		EQUIP
EQUIP			5	-			1921			2953	1032	12	20/1	1	6	RCPTS - BREAKFAST		EQUIP
EQUIP	↓		7	-	↓	↓	1921	2953			1032	12	20/1	1	8	HOT WATER DISPENSER		EQUIP
EQUIP	REFRIDGERATOR LAD	(GFCI BREAKER)	9	1	20/1	12	648		1680		1032	12	20/1	1	10	RCPTS - BREAKFAST		EQUIP
EQUIP	REFRIDGERATOR LAD	(GFCI BREAKER)	11	1	20/1	12	648			1644	996	12	20/1	1	12	OATMEAL COOKER - BREAKFAST		EQUIP
EQUIP	REFRIDGERATOR LAD	(GFCI BREAKER)	13	1	20/1	12	648	1188			540	12	20/1	1	14	JUICE MACHINE 4 HEAD - BREAKFAST		EQUIP
EQUIP	COMBI OVEN (BY OTHERS)	(GFCI BREAKER)	15	3	25/3	10	1921		2917		996	12	20/1	1	16	OATMEAL COOKER - BREAKFAST		EQUIP
EQUIP			17	-			1921			2917	996	12	20/1	1	18	OATMEAL COOKER - BREAKFAST		EQUIP
EQUIP	↓		19	-	↓	↓	1921	2572			650	12	20/1	1	20	INDUCTION WARMER - BREAKFAST		EQUIP
EQUIP	(022A) - ICE (BASE)	(CLASS A GFCI BREAKER)	21	1	20/1	12	1587		2237		650	12	20/1	1	22	INDUCTION WARMER - BREAKFAST		EQUIP
EQUIP	(026) - WAREWASHER, UNDERCOUNTER	(CLASS A GFCI BREAKER)	23	2	40/2	8	3120			3770	650	12	20/1	1	24	INDUCTION WARMER - BREAKFAST		EQUIP
EQUIP	↓		25	-	↓	↓	3120	3770			650	12	20/1	1	26	INDUCTION WARMER - BREAKFAST		EQUIP
EQUIP	(017) - COFFEE BREWER	(GFCI BREAKER)	27	2	35/2	8	2860		3510		650	12	20/1	1	28	INDUCTION WARMER - BREAKFAST		EQUIP
EQUIP	↓		29	-	↓	↓	2860			3510	650	12	20/1	1	30	INDUCTION WARMER - BREAKFAST		EQUIP
EQUIP	COUNTERTOP REF - BREAKFAST	(GFCI BREAKER)	31	1	20/1	12	252	902			650	12	20/1	1	32	INDUCTION WARMER - BREAKFAST		EQUIP
EQUIP	RCPTS - BREAKFAST		33	1	20/1	12	1200		1200				20/1	1	34	SPARE		
	SPARE		35	1	20/1					960	960	12	20/1	1	36	SWITCHED RECEPTACLE ON CEILING		EQUIP
EQUIP	REFRIDGERATOR LAD	(GFCI BREAKER)	37	1	20/1	12	648	1320			672	12	20/1	1	38	CINNAMON ROLL WARMER - BREAKFAST		EQUIP
EQUIP	REFRIDGERATOR LAD	(GFCI BREAKER)	39	1	20/1	12	648		1800		1152	12	20/1	1	40	2-SLOT TOASTER		EQUIP
EQUIP	REFRIDGERATOR LAD	(GFCI BREAKER)	41	1	20/1	12	648			648			20/1	1	42	SPACE ONLY		
EQUIP	REFRIDGERATOR LAD	(GFCI BREAKER)	43	1	20/1	12	648	648							44			
EQUIP	REFRIDGERATOR LAD	(GFCI BREAKER)	45	1	20/1	12	648		648						46			
	SPARE		47	1	20/1					0					48			
			49	1				0							50			
			51	1					0						52			
			53	1						0					54			
			55	1				0							56			
	↓		57	1	↓				0						58			
	SPACE ONLY		59							0					60			
			61					0							62			
			63						0						64			
	↓		65							0					66	↓		

	CONNECTED LOAD	LOAD CODES	DEMAND LOAD
LTG	0	LTG =125% LIGHTING LOAD: (N/A)	0
REC	900	REC = RCPTS LOAD (100% FIRST 10kW +50% REMAIN)	900
EQUIP	47892	EQUIP = EQUIPMENT LOAD	47892
AC	0	AC = HVAC LOAD : (N/A)	0
HTG	0	HTG = HEATING LOAD : (N/A)	0
LGR	0	LGR = 125% LARGEST MOTOR : (N/A)	0
KIT	0	KIT = KITCHEN LOAD : (N/A)	0
SUB	0	SUB = SUB PANEL x PF : (N/A)	0
GLTG	0	GLTG = GUESTROOM LIGHTING LOAD: N/A	0
EVCS	0	EVCS = 125% ELECTRIC VEHICLE CHARGING STATION :(N/A)	0
VA	48792		48792
AMPS	136		136

A	B	C	
15.75	16.63	16.40	CONNECTED PHASE (KVA)
131.28	138.62	136.70	CONNECTED PHASE (AMPS)
15.75	16.63	16.40	DEMAND PHASE (KVA)
131.28	138.62	136.70	DEMAND PHASE (AMPS)

NOTE: 1 - FIELD VERIFICATION BREAKER SIZES, CABLE SIZES, ETC OF ALL KITCHEN EQUIPMENT WITH KITCHEN SUPPLIER PRIOR TO INSTALLATION

PROJECT NAME: HIEX,STEAMBOAT SPRINGS, CO
PROJECT NUMBER: 230630
PANEL: SP (FED FROM MDP) — A.I.C RATING: 10 KA
VOLTAGE: 120/208V, 3PH, 4W — BUS: 100 AMP — MAINS: 100 AMP — MOUNTING: SURFACE MOUNTED
NEMA-4X — COPPER — M.L.O — LOCATION: POOL EQUIP. RM

LOAD TYPE	CIRCUIT DESCRIPTION	NOTES	CKT NO	P	BRKR AMP	WIRE	VOLT AMPS	A	B	C	VOLT AMPS	WIRE	BRKR AMP	P	CKT NO	CIRCUIT DESCRIPTION	NOTES	LOAD TYPE
LTG	LTG - SWIMMING POOL AREA	(1), (2)	1	1	20/1	12	500	700			200	12	20/1	1	2	LTG - POOL EQUIP./ STORAGE	(2)	LTG
REC	RCPTS - POOL EQUIP./ STORAGE	(2)	3	1	20/1	12	720		2220		1500	12	20/2	2	4	HOT TUB PUMP	(2)	EQUIP
EQUIP	POOL PUMP	(2)	5	2	25/2	10	1800			3300	1500	↓	↓	-	6	↓	(2)	EQUIP
EQUIP	↓	(2)	7	-	↓	↓	1800	3300			1500	12	20/1	1	8	J-BOX FOR ELECTRIC POOL LIFT	(2)	EQUIP
REC	RCPTS - POOL AREA	(2)	9	1	20/1	12	1260		1460		200	12	20/1	1	10	EF-9	(2)	EQUIP
LTG	LTG - POOL AREA	(1), (2)	11	1	20/1	12	500			700	200	12	20/1	1	12	EF-8	(2)	EQUIP
EQUIP	SUMP PIT	(2)	13	1	20/1	12	375	1875			1500	12	20/2	2	14	HOT TUB PUMP	(2)	EQUIP
LTG	LTG - SPA	(1), (2)	15	1	20/1	12	500		2000		1500	↓	↓	-	16	↓	(2)	EQUIP
	SPARE	(2)	17	1	20/1					0					18	SPACE ONLY		
			19	1				0							20			
			21	1					0						22			
	↓	↓	23	1	↓					0					24	↓		

	CONNECTED LOAD	LOAD CODES	DEMAND LOAD
LTG	1700	LTG =125% LIGHTING LOAD	2125
REC	1980	REC = RCPTS LOAD (100% FIRST 10kW +50% REMAIN)	1980
EQUIP	11875	EQUIP = EQUIPMENT LOAD	11875
AC	0	AC = HVAC LOAD : (N/A)	0
HTG	0	HTG = HEATING LOAD : (N/A)	0
LGR	0	LGR = 125% LARGEST MOTOR : (N/A)	0
KIT	0	KIT = KITCHEN LOAD : (N/A)	0
SUB	0	SUB = SUB PANEL x PF : (N/A)	0
GLTG	0	GLTG = GUESTROOM LIGHTING LOAD: N/A	0
EVCS	0	EVCS = 125% ELECTRIC VEHICLE CHARGING STATION :(N/A)	0
VA	15555		15980
AMPS	43		44

A	B	C	
5.88	5.68	4.00	CONNECTED PHASE (KVA)
48.96	47.33	33.33	CONNECTED PHASE (AMPS)
6.05	5.81	4.13	DEMAND PHASE (KVA)
50.42	48.38	34.38	DEMAND PHASE (AMPS)

NOTES : 1 - CONTROLLED BY A 20A, 1P, TIME CLOCK WITH 4 HR BATTERIES.
2 - FIELD VERIFICATION BREAKER SIZES, CABLE SIZES, ETC WITH POOL CONTRACTOR PRIOR TO INSTALLATION.
3 - BREAKERS AND BRANCH CIRCUITS WILL BE INSTALLED UNDER THE POOL PERMIT AND THIS PERMIT COVERS ONLY THE INSTALLATION OF THE PANEL AND GROUND.

PROJECT NAME: HIEX,STEAMBOAT SPRINGS, CO
PROJECT NUMBER: 230630
PANEL: MDP (FED FROM SERVICE TRANSFORMER) — A.I.C RATING: 65 KA
VOLTAGE: 120/208V, 3PH, 4W — BUS: 4000 AMP — MAINS: 4000 AMP — MOUNTING: FLOOR MOUNTED
NEMA-1 — COPPER — M.C.B — LOCATION: ELEC. RM. 1ST FLOOR

LOAD TYPE	CIRCUIT DESCRIPTION	NOTES	CKT NO	P	BRKR AMP	WIRE	VOLT AMPS	A	B	C	VOLT AMPS	WIRE	BRKR AMP	P	CKT NO	CIRCUIT DESCRIPTION	NOTES	LOAD TYPE
SUB	PANEL L4.A	(4TH FLOOR)	1	3	150/3	3/0 (AL)	15255	41163			25908	500 (AL)	300/3	3	2	PANEL L1.A	(1ST FLOOR)	SUB
SUB			3	-			19907		45859		25953			-	4			SUB
SUB	↓		5	-	↓	↓	12015			38037	26022	↓	↓	-	6	↓		SUB
SUB	PANEL L4.B	(4TH FLOOR)	7	3	150/3	3/0 (AL)	13500	30160			16660	300 (AL)	225/3	3	8	PANEL L1.B	(1ST FLOOR)	SUB
SUB			9	-			20340		46708		26368			-	10			SUB
SUB	↓		11	-	↓	↓	12960			29929	16969	↓	↓	-	12	↓		SUB
SUB	PANEL L4.C	(4TH FLOOR)	13	3	300/3	500 (AL)	30763	52342			21580	300 (AL)	225/3	3	14	PANEL L1.C	(1ST FLOOR)	SUB
SUB			15	-			30763		51107		20345			-	16			SUB
SUB	↓		17	-	↓	↓	24350			45347	20997	↓	↓	-	18	↓		SUB
SUB	PANEL L3.A	(3RD FLOOR)	19	3	150/3	3/0 (AL)	13612	53086			39473	2-250 (AL)	400/3	3	20	PANEL L1.D	(1ST FLOOR)	SUB
SUB			21	-			18572		57552		38979			-	22			SUB
SUB	↓		23	-	↓	↓	10560			47808	37248	↓	↓	-	24	↓		SUB
SUB	PANEL L3.B	(3RD FLOOR)	25	3	125/3	2/0 (AL)	10500	24626			14126	2/0 (AL)	125/3	3	26	PANEL L1.E	(1ST FLOOR)	SUB
SUB			27	-			16340		25472		9132			-	28			SUB
SUB	↓		29	-	↓	↓	8960			20994	12034	↓	↓	-	30	↓		SUB
SUB	PANEL L3.C	(3RD FLOOR)	31	3	300/3	500 (AL)	30763	46517			15754	300 (AL)	225/3	3	32	PANEL PP	(1ST FLOOR)	SUB
SUB			33	-			30763		47397		16635			-	34			SUB
SUB	↓		35	-	↓	↓	23750			40154	16404	↓	↓	-	36	↓		SUB
SUB	PANEL L2.A	(2ND FLOOR)	37	3	150/3	3/0 (AL)	14692	20742			6050	1/0 (AL)	100/3	3	38	PANEL SP	(1ST FLOOR)	SUB
SUB			39	-			17212		23017		5805			-	40			SUB
SUB	↓		41	-	↓	↓	10840			14965	4125	↓	↓	-	42	↓		SUB
SUB	PANEL L2.B	(2ND FLOOR)	43	3	150/3	3/0 (AL)	11550	63425			51875	2-500 (AL)	600/3	3	44	PANEL EV1	(1ST FLOOR)	SUB
SUB			45	-			16690		68565		51875			-	46			SUB
SUB	↓		47	-	↓	↓	9760			72010	62250	↓	↓	-	48	↓		SUB
SUB	PANEL L2.C	(2ND FLOOR)	49	3	300/3	500 (AL)	30836	52593			21757	4/0 (AL)	175/3	3	50	DOAS-1	(4ND FLOOR)	LGR
SUB			51	-			30836		52593		21757			-	52			LGR
SUB	↓		53	-	↓	↓	25000			46757	21757	↓	↓	-	54	↓		LGR
EQUIP	ELEVATOR #1	(SHUNT TRIP BREAKER)	55	3	60/3	4	4412	15149			10737	2 (AL)	80/3	3	56	DU-1	(1ST FLOOR)	AC
EQUIP			57	-			4412		15149		10737			-	58			AC
EQUIP	↓		59	-	↓	↓	4412			15149	10737	↓	↓	-	60	↓		AC
EQUIP	ELEVATOR #2	(SHUNT TRIP BREAKER)	61	3	60/3	4	4412	56287			51875	2-500 (AL)	600/3	3	62	PANEL EV2	(1ST FLOOR)	SUB
EQUIP			63	-			4412		56287		51875			-	64			SUB
EQUIP	↓		65	-	↓	↓	4412			66662	62250	↓	↓	-	66	↓		SUB
	SURGE PROTECTIVE DEVICE IN "MDP"		67	3	60/3	6		58405			58405	2-500 (AL)	600/3	3	68	PANEL L1.F	(1ST FLOOR)	SUB
			69	-					56356		56356			-	70			SUB
	↓		71	-	↓	↓				52467	52467	↓	↓	-	72	↓		SUB
	SPACE ONLY		73					0							74	SPACE ONLY		
			75						0						76			
	↓		77							0					78	↓		

NEC ART. 220 LOAD CATEGORY	CONNECTED LOAD (KVA)	x	NEC ART. 220 FEEDER SIZING FACTOR	=	NEC ART. 220 FEEDER SIZING LOAD (KVA)
1 - GENERAL LIGHTING	19.5		1.25		24.4
2 - STAFF ROOM /W KITCHENETTE LOAD	181.0		0.43		77.8
3 - GUEST ROOM UNIT LOAD					
3.1 - LIGHTING & RECEPTACLES	62.6		First 20kVA@60%+50% REMAINING		33.3
3.2 - VANITY RCPTS	16.6		1		16.6
3.3 - A/C LOAD	230.0		1		230.0
3.4 - REFRIG/MICO	119.6		1		119.6
3 - HOUSE LOAD					
3.1 - DRYER 3@1.5KVA & 6@5KVA	34.5		1		34.5
3.2 - WASHER 3@6KVA & 6@1.8KVA	33.9		1		33.9
3.3 - SERVICE EQUIPMENT	100.4		0.65		65.3
3.4 - VENDING/ICE MACHINE	9.0		1		9.0
3.5 - ELECTRIC CHARGING STATION 8x33KVA@125%	264.0		1.25		330.0
3.6 - MISCELLANEOUS (FIRE ALARM, DOOR MOTOR, ELV, ETC..)	13.2		1		13.2
4 - RECEPTACLES	41.6		First 10kVA+50%		25.8
5 - MECHANICAL LOAD					
5.1 - FANS	4.0		1		4.0
5.2 - AHU'S (HEATING)/COOLING	293.0		1		293.0
5.3 - ELEVATOR 2@15HP (2@13.24KVA) @ 100%	26.5		1		26.5
5.4 - PUMPS	12.6		1		12.6
5.5 - LARGEST MOTOR (DOAS-1) 55.4KVA @ 125%	65.3		1.25		81.6
			FEEDER SIZING LOAD:		1431 KVA 3972 AMPS

NOTES : 1 - SWITCHBOARD IS "FULLY" RATED TO INCLUDE 65K AIC BREAKER
2 - SEE ONE-LINE DIAGRAM FOR COMPLETE FEEDER SIZES
3 - FIELD VERIFY HP PRIOR TO INSTALLING BRKR, CONDUIT,WIRE, ETC.
4 - PANELS WITH BREAKERS 1200A AND OVER REQUIRE ARC FLASH REDUCTION PER NEC 240.87
5 - CONTRACTOR WILL PROVIDE PANEL WITH ENERGY REDUCING MAINTENANCE SWITCH

PANEL INDEX

L1.D	EV2
L1.E	SP
L1.F	PP
EV1	MDP

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MEP GREEN DESIGN & BUILD
FAST AND ACCURATE

MAY 28, 2024
COLORADO REGISTERED PROFESSIONAL ENGINEER DUNG D. VU 51953

Holiday Inn Express
3350 S. LINCOLN AVE STEAMBOAT SPRINGS, CO 80487

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DRAWING ISSUE DATES:
8/18/23 Permit Set

REVISION DATES:
10/19/23 Staff/GM Toilets, Permit Revisions
11/29/23 Mt. Werner Revisions
02/15/24 Pool Removal, Guest Room Addition
03/05/24 Updated plans
05/14/24 Updated plans
05/22/24 Updated per Submittal
05/28/24 Updated plans

PROJECT MANAGER: DV
DRAWN BY: PL
SHEET TITLE: ELECTRICAL PANEL SCHEDULE

E6.2

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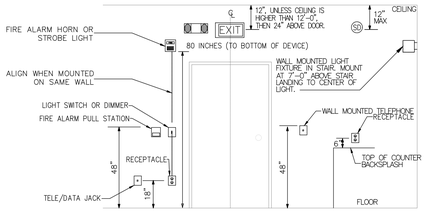
ASI #3 6/11/24

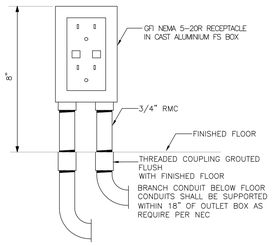
REVIEWED FOR CODE COMPLIANCE
01/12/2024



NOTES:
1. ALL DIMENSIONS ARE TO CENTER LINE OF DEVICE, UNLESS OTHERWISE NOTED.

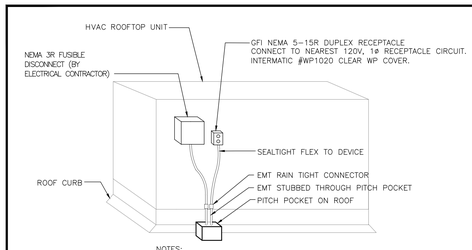
1 MOUNTING HEIGHTS OF DEVICES - *ELEVATION*

SCALE: NTS



2 STUBBED-UP RECEPTACLE DETAIL

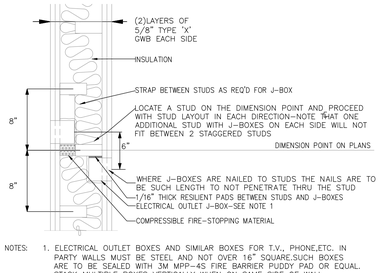
SCALE: NTS



NOTES:
+ TYPICAL FOR ALL ROOF MOUNTED HVAC EQUIPMENT.
+ TRANSITIONING FROM EMT TO SEAL TIGHT FOR RTU GFCI RECEPTACLES REQUIRES A LISTED FITTING FOR RAIN/WATERTIGHT APPLICATION AS PER NEC 110.3.

3 ROOFTOP RECEPTACLE DETAIL

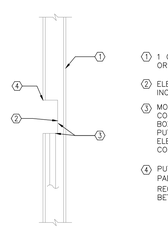
SCALE: NTS



NOTES:
1. ELECTRICAL OUTLET BOXES AND SIMILAR BOXES FOR T.V., PHONE,ETC. IN PARTY WALLS MUST BE STEEL AND NOT OVER 16" SQUARE.SUCH BOXES ARE TO BE SEALED WITH 3M MPP-4S FIRE BARRIER PUDDY PAD OR EQUAL. STACK MULTIPLE BOXES VERTICALLY WHEN ON SAME SIDE OF WALL.
2. CONTRACTOR TO VERIFY ACCEPTABILITY OF THIS DETAIL WITH LOCAL JURISDICTION'S BUILDING INSPECTOR.

4 OUTLET J-BOX OFFSET DETAIL

SCALE: NTS

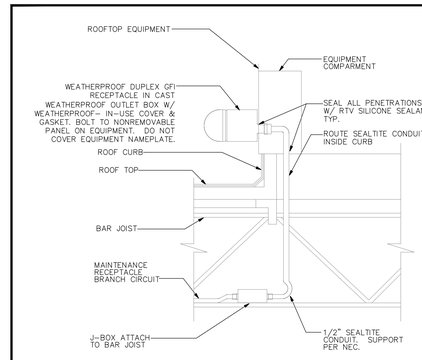


1. 1 OR 2 HOUR WALL ASSEMBLY EQUIPMENT TO UL300 OR UL400 SERIES.
2. ELECTRICAL OUTLET BOX,NOT MORE THAN 100 SQUARE INCHES PER 100 SQUARE FEET WALL AREA.
3. MOLDABLE PUTTY PADS ARE TO BE INSTALLED TO COMPLETELY COVER THE EXTERIOR SURFACES OF THE BOX WITHIN THE STUD CAVITY WITH A BALL OF THE PUTTY MATERIAL USED TO LUG THE END OF EACH ELECTRICAL METALLIC TUBE OR CONDUIT AT ITS CONNECTION TO THE BOX.
4. PUTTY PAD EQUIVALENT TO 3M#MPP-4S,1/8" THICK PADS REQUIRED FOR 1 HOUR WALLS 1/4" THICK PADS REQUIRED FOR 2 HOUR WALLS A MAXIMUM $\frac{1}{4}$" GAP BETWEEN BOX AND WALLBOARD.

NOTE: THIS DETAIL APPLIES TO 1 AND 2 HOUR WALL ASSEMBLIES WITH 4"X4" FLUSH ELECTRICAL BOXES ON OPPOSITE SIDE OF WALLS THAT HAVE LESS THAN 24" SEPARATION BETWEEN THEM.BOXES NOT PERMITTED BACK-TO-BACK.

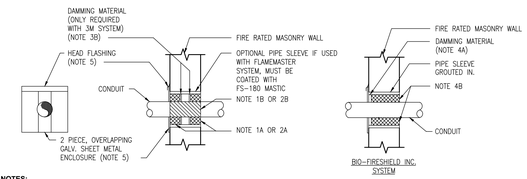
5 PENTRATION DETAIL

SCALE: NTS



6 ROOFTOP HVAC EQUIPMENT MAINTENANCE RECEPTACLE DETAIL

SCALE: NTS



NOTES:
USE ONE OF THE FOLLOWING SYSTEMS:

1. FLAMEMASTER CORPORATION

A. FS-180 MINERAL WOOL BATTS COATED WITH FS-180 MASTIC (10T/6FT 2) ON EXTERIOR.

B. COVER PENETRATION COMPLETELY WITH FS-180 MASTIC, THEN WRAP CONDUIT WITH FS-180 CERAMIC FIBER BLANKET.

C. MINIMUM 6 1/2 INCH THICK NORMAL WEIGHT CONCRETE OR NOMINAL 8 INCH THICK CONCRETE BLOCK.

2. FIRE-STOP SYSTEMS INC.

A. 310 PANEL AND 310 FIBER COATED WITH THERMALASTIC 83 TO A DEPTH OF 1/8 INCH AND THEN COATED WITH THERMALASTIC 83E TO A DEPTH OF 1/8 INCH ON EXTERIOR.

B. COAT ENTIRE LENGTH OF CONDUIT TO A MINIMUM OF 6 INCHES BEYOND BOTH SIDES OF WALL WITH THERMALASTIC 83 COATING AND THEN WITH THERMALASTIC 83E COATING, A DEPTH OF 1/8" THICKNESS FOR EACH COATING.

C. MINIMUM 6 INCH THICK CONCRETE WALL OR ANY UL CLASSIFIED CONCRETE BLOCKS.

3. 3M COMPANY

A. CP 25N/S CAULK (1 INCH THICKNESS WITH 1/4" BEAD BETWEEN CONDUIT AND EXTERIOR PORTIONS OF WALL ON BOTH SIDES OF WALL).

B. POLYETHLENE BACKER ROD OR NOMINAL 1 INCH THICKNESS OF TIGHTLY PACKED CERAMIC (ALUMINA SILICA) FIBER BLANKET, MINERAL-WOOL BATT OR GLASS FIBER INSULATION MATERIAL USED AS A PERMANENT FORM.

C. MINIMUM 4 1/2 INCH THICK LIGHTWEIGHT OR NORMAL WEIGHT CONCRETE OR ANY UL CLASSIFIED CONCRETE BLOCKS.

4. BIO-FIRESHIELD INC.

A. USE MINERAL WOOL OR CERAMIC WOOL AS A DAMMING MATERIAL IF HEIGHT OPENING IS GREATER THAN 36". IF OPENING IS LESS THAN 36", DAMMING MATERIAL NOT REQUIRED.

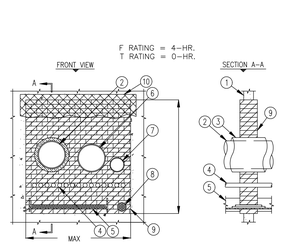
B. NOVASIT K-10 MORTAR

C. MINIMUM 4 1/2 INCH THICK LIGHTWEIGHT OR NORMAL WEIGHT CONCRETE WALL OR ANY UL CLASSIFIED CONCRETE BLOCKS.

5. WEATHERPROOFING MATERIAL REQUIRED ON OUTSIDE OF EXTERIOR WALLS ONLY.

7 TYPICAL FIRESTOP DETAIL

SCALE: NTS



KEYED NOTES

1. CONCRETE FLOOR OR WALL ASSEMBLY (MINIMUM 4-1/2" THICK).
2. MAXIMUM 12" DIAMETER STEEL PIPE OR MAXIMUM 6" DIAMETER COPPER PIPE.
3. MAXIMUM 1-1/2" THICK GLASS-FIBER PIPE INSULATION.
4. 1-1/2" DIAMETER STEEL CONDUIT (MAXIMUM QUANTITY = 15).
5. STEEL OR ALUMINUM CABLE TRAY (MAXIMUM SIZE : 36" x 6") WITH ANY OF THE FOLLOWING TYPES OF CABLE MAY BE USED WITH MAXIMUM 30% FILL OF CABLE TRAY :
   A. MAXIMUM 500 KCMIL SINGLE CONDUCTOR POWER CABLE.
   B. MAXIMUM 7/C NO. 12 AWG COPPER CONDUCTOR CABLE.
   C. MAXIMUM 300 PAIR NO. 24 AWG TELEPHONE CABLES.
6. MAXIMUM 30" DIAMETER STEEL PIPE (12" DIAMETER PIPE SHOWN).
7. 6" DIAMETER STEEL PIPE.
8. MAXIMUM 4" DIAMETER CABLE BUNDLE TO INCLUDE ANY OF THE FOLLOWING :
   A. FIBER-OPTIC CABLE (MAX. 1/2" DIA).
   B. ROMEX (2/C NO. 10 +GROUND).
   C. 25 PAIR NO. 24 AWG TELEPHONE CABLES.
   D. 7/C NO. 12 AWG CABLES.
   E. RG 62A COAXIAL CABLES.
   F. METAL CLAD CABLE (MAX. 3/4" DIA.).
9. HILTI FS 657 INTUMESCENT FIRESTOP BLOCK (2" TALL x 5" WIDE x 8" DEEP, REF: FRONT VIEW).
10. SEE NOTE NO. 4 BELOW.

NOTES :
1. ANNULAR SPACING FOR CABLE TRAY = MINIMUM 1-1/2".
2. ANNULAR SPACING FOR PIPE AND CABLE PENETRATIONS = MINIMUM 1".
3. INSTALL HILTI FS-ONE HIGH PERFORMANCE INTUMESCENT FIRESTOP SEALANT IN ANY VOID THAT MAY EXIST (AROUND CABLE TRAY, CABLES, OR PIPE PENETRATIONS).
4. IF THE ANNULAR SPACE IS GREATER THAN 5", PROVIDE A STEEL WIRE MESH (NOMINAL 2" SQUARES, NO. 16 SWG). INSTALL ON EACH SIDE OF WALL ASSEMBLY.
5. MAXIMUM AREA OF OPENING = 2496 SQUARE INCHES.

SEE HILTI FIRESTOP INSTALLATION MANUAL FOR ADDITIONAL INSTRUCTIONS
HILTI, INC. TULSA, OK 1-800-879-8000

8 MULTIPLE PENETRATING ITEMS THROUGH CONCRETE FLOOR OR WALL

SCALE: NTS

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MEP GREEN DESIGN & BUILD
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AUG. 18, 2023

REGISTERED PROFESSIONAL ENGINEER
51953

Holiday Inn Express

3400 S. LINCOLN AVE
STEAMBOAT SPRINGS, CO 80487

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DRAWING ISSUE DATES:
8/18/23 PERMIT SET

REVISION DATES:

PROJECT MANAGER:
DV

DRAWN BY:
PL

SHEET TITLE:
ELECTRICAL DETAILS

E7.0

SHEET: 132 OF 140

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COMcheck Software Version COMcheckWeb
Envelope Compliance Certificate

Project Information

Energy Code: 2021 IECC
Project Title: HIEX, Steamboat Springs, CO
Location: Steamboat Springs, Colorado
Climate Zone: 7
Project Type: New Construction

Construction Site:
3400 S.Lincoln AVE
Steamboat Springs, Colorado 80487

Owner/Agent:

Designer/Contractor:
Dung Vu, P.E. LEED AP
MEP Green Designs & Build PLLC
915 GEMINI STREET
Houston, Texas 77058
281-786-1195

Additional Efficiency Package(s)

Credits: 10.0 Required 10.0 Proposed
Reduced lighting power, 9.0 credit
5% cooling efficiency improvement, 1.0 credit

Building Area	Floor Area
1-Hotel : Residential	63527

Envelope Assemblies

(a) Budget U-factors are used for software baseline calculations ONLY, and are not code requirements.

Envelope TBD: All building area types must be assigned to at least one envelope assembly

COMcheck Software Version COMcheckWeb
Interior Lighting Compliance Certificate

Project Information

Energy Code: 2021 IECC
Project Title: HIEX, Steamboat Springs, CO
Project Type: New Construction

Construction Site:
3400 S.Lincoln AVE
Steamboat Springs, Colorado 80487

Owner/Agent:

Designer/Contractor:
Dung Vu, P.E. LEED AP
MEP Green Designs & Build PLLC
915 GEMINI STREET
Houston, Texas 77058
281-786-1195

Additional Efficiency Package(s)

Credits: 10.0 Required 10.0 Proposed
Reduced lighting power, 9.0 credit
5% cooling efficiency improvement, 1.0 credit

Allowed Interior Lighting Power

A Area Category	B Floor Area (ft2)	C Allowed Watts / R2	D Allowed Watts
1-Common Space Types:Guest Room	41125	0.41	16861
2-Hotel:Hotel Lobby	2953	0.51	1506
3-Common Space Types:Stairwell	1640	0.49	804
4-Common Space Types:Storage	2175	0.38	826
5-Common Space Types:Conference/Meeting/Multipurpose	450	0.97	436
6-Common Space Types:Corridor/Transition <8 ft wide	8810	0.71	6255
7-Common Space Types:Laundry/Washing Area	2347	0.53	1244
8-Common Space Types:Lounge/Breakroom	1146	0.59	676
9-Common Space Types:Office - Enclosed	670	0.74	496
10-Gymnasium/Fitness Center:Exercise Area	2540	0.90	2286
11-Common Space Types:Restrooms	207	0.63	130
		Total Allowed Watts =	31521

Proposed Interior Lighting Power

A Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast	B Lamps/ Fixture	C # of Fixture	D Fixture Watt.	E (C X D)
1-Common Space Types:Guest Room				
LED: L04: Other:	1	300	9	2700
LED: L08: Other:	1	114	15	1710
LED: UL: Other:	1	85	9	765
2-Hotel:Hotel Lobby				
LED: DF1: Other:	1	2	10	20
LED: L03: Other:	1	82	22	1812
LED: L08: Other:	1	10	15	150
LED: L09: Other:	1	15	15	225

2021 IECC COMCHECK REPORT
INTERIOR LIGHTING
1 SCALE: N.T.S

A Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast	B Lamps/ Fixture	C # of Fixture	D Fixture Watt.	E (C X D)
LED: P-300: Other:	1	1	50	50
3-Common Space Types:Stairwell				
LED: L: Other:	1	16	50	800
4-Common Space Types:Storage				
LED: L03: Other:	1	2	22	44
LED: L11: Other:	1	1	50	50
LED: L13: Other:	1	16	50	800
LED: L13B: Other:	1	1	50	50
5-Common Space Types:Conference/Meeting/Multipurpose				
LED: L03: Other:	1	11	22	243
LED: L08: Other:	1	13	15	195
LED: L09A: Other:	1	5	15	75
LED: DF4: Other:	1	3	50	150
6-Common Space Types:Corridor/Transition <8 ft wide				
LED: L03: Other:	1	100	22	2210
LED: DF: Other:	1	58	12	696
7-Common Space Types:Laundry/Washing Area				
LED: L03: Other:	1	6	22	133
LED: L08: Other:	1	10	15	150
LED: L11: Other:	1	12	50	600
LED: L13: Other:	1	14	50	700
LED: L13B: Other:	1	3	50	150
8-Common Space Types:Lounge/Breakroom				
LED: DF2: Other:	1	25	10	250
LED: L03: Other:	1	14	22	309
LED: L11: Other:	1	10	50	500
9-Common Space Types:Office - Enclosed				
LED: L10: Other:	1	10	36	360
LED: L13: Other:	1	3	50	150
10-Gymnasium/Fitness Center:Exercise Area				
LED: L08: Other:	1	1	15	15
LED: L10: Other:	1	20	36	720
LED: DL2: Other:	1	21	40	840
11-Common Space Types:Restrooms				
LED: L03: Other:	1	3	22	66
LED: P-308: Other:	1	3	15	45
			Total Proposed Watts =	17734

Interior Lighting PASSES: Design 44% better than code

Interior Lighting Compliance Statement

Compliance Statement: The proposed interior lighting design represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed interior lighting systems have been designed to meet the 2021 IECC requirements in COMcheck Version COMcheckWeb and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

DUNG DUC VU, Ph.D, P.E, LEED AP — Signature — 08/17/2023
Name - Title — Date

COMcheck Software Version COMcheckWeb
Exterior Lighting Compliance Certificate

Project Information

Energy Code: 2021 IECC
Project Title: HIEX, Steamboat Springs, CO
Project Type: New Construction
Exterior Lighting Zone 3 (Other (LZ3))

Construction Site:
3400 S.Lincoln AVE
Steamboat Springs, Colorado 80487

Owner/Agent:

Designer/Contractor:
Dung Vu, P.E. LEED AP
MEP Green Designs & Build PLLC
915 GEMINI STREET
Houston, Texas 77058
281-786-1195

Allowed Exterior Lighting Power

A Area/Surface Category	B Quantity	C Allowed Watts /	D Tradable Wattage	E Allowed Watts (B X C)
Parking area	27752 ft2	0.06	Yes	1665
Entry canopy	2782 ft2	0.4	Yes	1113
Walkway < 10 feet wide	440 ft of	0.6	Yes	264
			Total Tradable Watts (a) =	3042
			Total Allowed Watts =	3042
			Total Allowed Supplemental Watts (b) =	500

(a) Wattage tradeoffs are only allowed between tradable areas/surfaces.
(b) A supplemental allowance equal to 500 watts may be applied toward compliance of both non-tradable and tradable areas/surfaces.

Proposed Exterior Lighting Power

A Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast	B Lamps/ Fixture	C # of Fixture	D Fixture Watt.	E (C X D)
Parking area (27752 ft2): Tradable Wattage				
LED: A: Other:	2	4	100	400
LED: D: Other:	1	3	100	300
LED: WS: Other:	1	2	66	132
Entry canopy (2782 ft2): Tradable Wattage				
LED: G: Other:	1	6	22	134
LED: G1: Other:	1	2	41	82
Walkway < 10 feet wide (440 ft of walkway length): Tradable Wattage				
LED: SB1: Other:	1	7	8	56
LED: SB2: Other:	1	5	8	40
LED: WA: Other:	1	13	20	260
LED: F: Other:	1	5	10	52
			Total Tradable Proposed Watts =	1457

2021 IECC COMCHECK REPORT
EXTERIOR LIGHTING
2 SCALE: N.T.S

REVIEWED FOR CODE COMPLIANCE
01/12/2024

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AUG. 18, 2023
NEW MEXICO REGISTERED
DUNG D VU
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PROFESSIONAL ENGINEER

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8/18/23 PERMIT SET

REVISION DATES:

PROJECT MANAGER:
DV

DRAWN BY:
PL

SHEET TITLE:
ELECTRICAL COMCHECK REPORT

E8.0
SHEET: 133 OF 140

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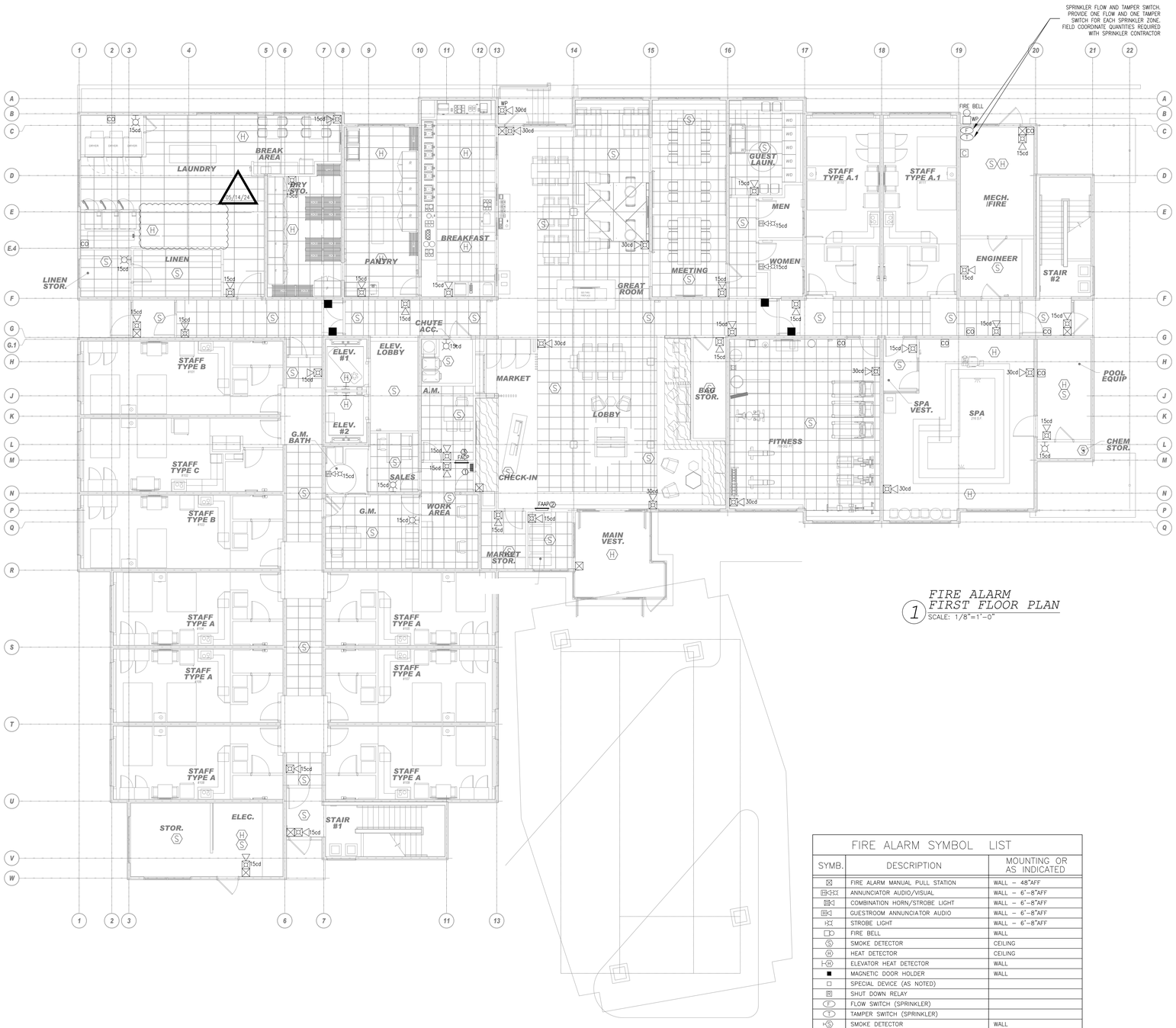

1 FIRE ALARM FIRST FLOOR PLAN
SCALE: 1/8"=1'-0"

NOTE FOR FIRE ALARM SYSTEM:

1. FIRE ALARM SYSTEM SHALL BE SEPARATELY PERMITTED AND SUBMITTED BY THE FIRE ALARM CONTRACTOR.

FIRE ALARM SYMBOL LIST

SYMB.	DESCRIPTION	MOUNTING OR AS INDICATED
	FIRE ALARM MANUAL PULL STATION	WALL – 48"AFF
	ANNUNCIATOR AUDIO/VISUAL	WALL – 6'-8"AFF
	COMBINATION HORN/STROBE LIGHT	WALL – 6'-8"AFF
	GUESTROOM ANNUNCIATOR AUDIO	WALL – 6'-8"AFF
	STROBE LIGHT	WALL – 6'-8"AFF
	FIRE BELL	WALL
S	SMOKE DETECTOR	CEILING
H	HEAT DETECTOR	CEILING
	ELEVATOR HEAT DETECTOR	WALL
	MAGNETIC DOOR HOLDER	WALL
	SPECIAL DEVICE (AS NOTED)	
R	SHUT DOWN RELAY	
F	FLOW SWITCH (SPRINKLER)	
T	TAMPER SWITCH (SPRINKLER)	
	SMOKE DETECTOR	WALL
	CARBON MONOXIDE DETECTOR	
	2-WAY COMMUNICATION DEVICE	WALL – 48"AFF.
	FIRE ALARM FIRE ALARM ANNUNCIATOR PANEL (FAAP)	
	FIRE ALARM CONTROL PANEL (FACP)	
	DOOR BELL	WALL
	CEILING ANNUNCIATOR AUDIO/VISUAL	CEILING
	CEILING COMBINATION HORN/STROBE LIGHT	CEILING
	MANUAL PUSH BUTTON	
	INDICATES HANDICAP ACCESS SUITE	
	INDICATES HEARING IMPAIRED SUITE	

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MAY 14, 2024

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02/15/24 Pool Removal, Guest Room Addition
03/05/24 Updated plans
05/14/24 Updated plans

PROJECT MANAGER:
DV

DRAWN BY:
PL

SHEET TITLE:
FIRE ALARM FIRST FLOOR PLAN

05/14/24
NOTE:
- NEW BACKGROUND

FA2.0
SHEET: 137 OF 142

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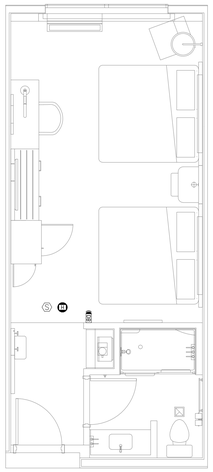

1 K/K STANDARD
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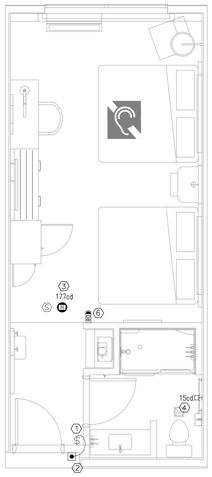
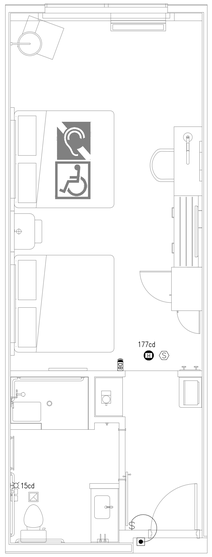


2 K/K STANDARD(HA)
SCALE: 1/4"=1'-0"



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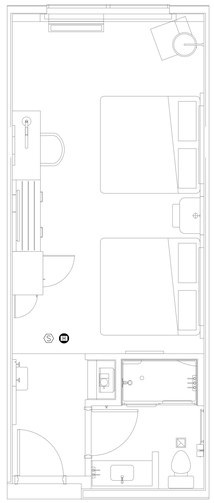

4 EXT. K/K
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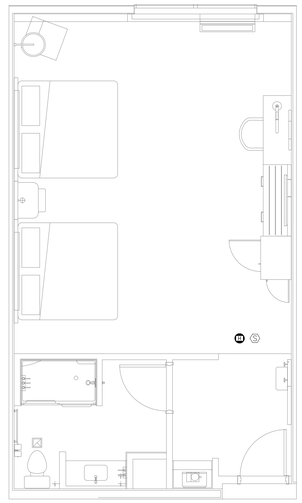

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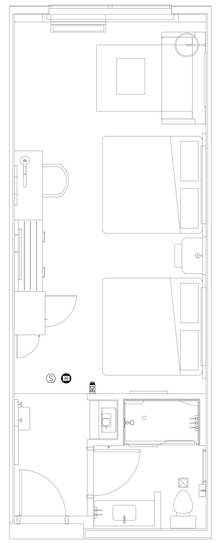
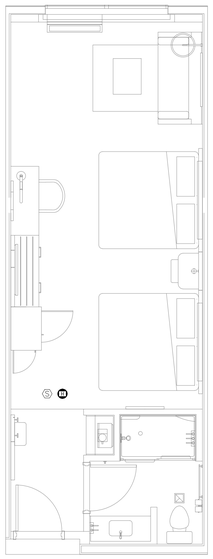


6 K/K SUITE
SCALE: 1/4"=1'-0"

7 K/K SUITE(HA)
SCALE: 1/4"=1'-0"



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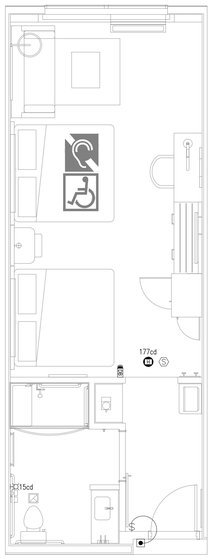

9 ADA K/K SUITE
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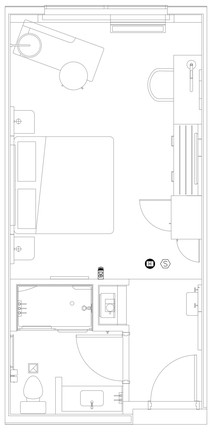

10 KING STANDARD
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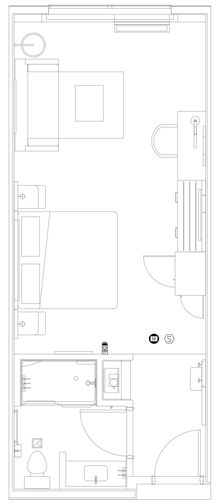
11 ADA KING
SCALE: 1/4"=1'-0"



12 KING SUITE
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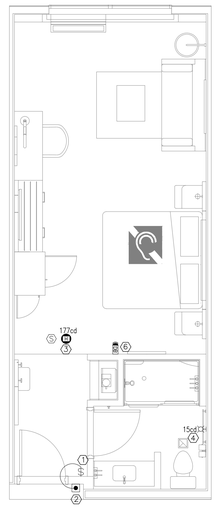

13 KING SUITE(HA)
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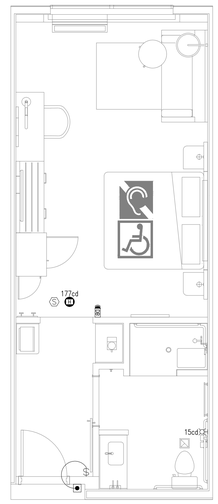

14 ADA KING SUITE
SCALE: 1/4"=1'-0"

NOTE FOR FIRE ALARM SYSTEM:

1. FIRE ALARM SYSTEM SHALL BE SEPARATELY PERMITTED AND SUBMITTED BY THE FIRE ALARM CONTRACTOR.

GENERAL NOTES:

A. GUEST ROOMS & BATHROOMS FOR ACCESSIBLE & HEARING IMPAIRED SHALL HAVE AN AUDIBLE & VISUAL ALARM ACTIVATED BY THE IN ROOM SMOKE DETECTOR & AN AUDIBLE & VISUAL ALARM ACTIVATED BY THE BLDG. FIRE ALARM SYSTEM.

B. INSTALL PUSH BUTTON AT EACH ACCESSIBLE & HEARING IMPAIRED ROOMS FOR VISUAL ALARM, NOTIFICATION DEVICES & TELEPHONES.

C. SMOKE DETECTORS IN EACH GUEST ROOM ALSO BE EQUIPPED WITH CO MONITORING. (REFER TO SECTION 915 OF THE FIRE CODE FOR THE REQUIREMENTS OF CARBON MONOXIDE PROTECTION).

D. THE CONTRACTOR SHALL VERIFY EXACT LOCATION OF ALL EQUIPMENTS WITH ARCHITECTURAL DRAWINGS & OWNER PRIOR TO INSTALLATION.

E. THE CONTRACTOR HAVE TO DOUBLE-CHECK THE NUMBERS AND POSITIONS OF HEARING-IMPAIRED AND ADA/ ACCESSIBLE ROOMS ON THE ARCHITECTURAL PLANS. THE CONTRACTOR SHALL INSTALL ALL FIRE ALARM DEVICES (DETECTORS, HORNS, STROBES, DOORBELLS, ETC.) ACCORDING TO THE FRANCHISE AND CODES REQUIREMENT.

F. PROVIDE FIRE ALARM MOCK-UP OF ONE ROOM EACH GUEST ROOM/STAFF ROOM TYPE FOR OWNER, INTERIOR DESIGNER AND CITY INSPECTOR APPROVAL PRIOR TO PROCEEDING WITH ALL ROOMS.

KEYED NOTES:

1. DOORBELL ON/OFF SWITCH (FOR COMMUNICATION FEATURE ROOMS ONLY)- SIGNAGE AS REQ'D.
2. DOORBELL HARDWIRED TO DOORBELL LIGHT-MOUNT @48" AFF TO CENTER OF BUTTON (FOR COMMUNICATION FEATURE ROOMS ONLY)
3. PROVIDE FIRE HORN / STROBE (FOR COMMUNICATION FEATURE ROOMS) AND FIRE HORN (FOR NON-COMMUNICATION FEATURE ROOMS)
4. PROVIDE FIRE STROBE (FOR COMMUNICATION FEATURE ROOMS ONLY)
5. NOT USED.
6. DOOR BELL (FOR COMMUNICATION FEATURE ROOMS ONLY). VERIFY LOCATION WITH ARCHITECHTURAL / ID & FIRE MARSHAL PRIOR TO INSTALLATION.

05/14/24

NOTE:

- NEW BACKGROUND

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MAY 14, 2024

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03/05/24 Updated plans
05/14/24 Updated plans

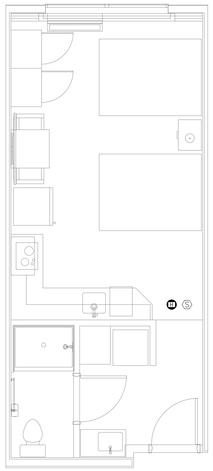
PROJECT MANAGER:
DV

DRAWN BY:
PL

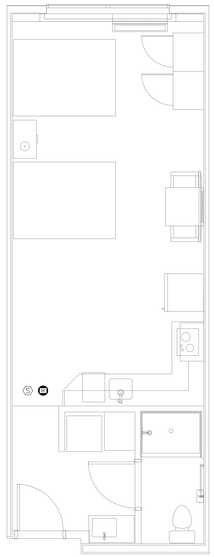
SHEET TITLE:
FIRE ALARM TYPICAL GUESTROOM PLAN

FA3.0

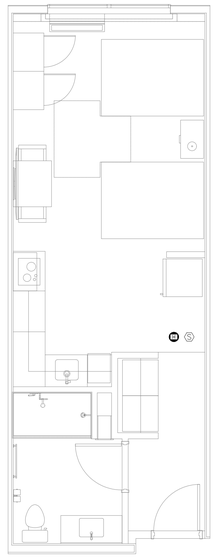
SHEET: 141 OF 142



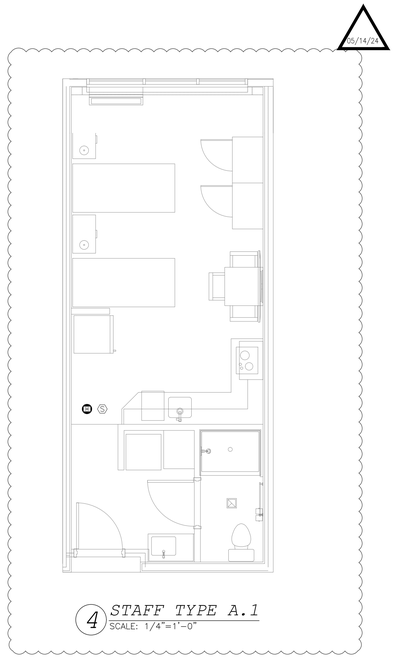
1 STAFF TYPE A
SCALE: 1/4"=1'-0"



2 STAFF TYPE B
SCALE: 1/4"=1'-0"



3 STAFF TYPE C
SCALE: 1/4"=1'-0"



4 STAFF TYPE A.1
SCALE: 1/4"=1'-0"

NOTE FOR FIRE ALARM SYSTEM:

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B. INSTALL PUSH BUTTON AT EACH ACCESSIBLE & HEARING IMPAIRED ROOMS FOR VISUAL ALARM, NOTIFICATION DEVICES & TELEPHONES.

C. SMOKE DETECTORS IN EACH GUEST ROOM ALSO BE EQUIPPED WITH CO MONITORING. (REFER TO SECTION 915 OF THE FIRE CODE FOR THE REQUIREMENTS OF CARBON MONOXIDE PROTECTION).

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5/14/24

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PROJECT MANAGER:
DV

DRAWN BY:
PL

SHEET TITLE:
FIRE ALARM TYPICAL STAFFROOM PLAN

FA3.1

SHEET: 142 OF 142